

Upper Mississippi River Basin Association

166th Quarterly Meeting

Agenda

with
Background
and
Supporting
Materials

Hampton Inn Downtown St. Paul, Minnesota



Upper Mississippi River Basin Association

May 23, 2023

Agenda

| Time | | Topic | Presenter |
|------------|--------|---|--|
| 9:30 a.m. | | Call to Order and Introductions | Rick Pohlman, Illinois DNR |
| 9:35 | A1-A13 | Approval of Minutes of February 28, 2023 Meeting | |
| 9:40 | B1-B27 | Executive Director's Report | Kirsten Wallace, UMRBA |
| 9:50 | | April 2023 Train Derailment in Wisconsin Overview of Response | Jayson Schrank and Brenda Kelly, Wisconsin DNR |
| 10:05 | | Upper Mississippi River 2023 Flooding Conditions Management Responses Case Study: City of St. Paul Case Study: Fort Snelling State Park | Craig Schmitt, NWS UMRBA Board and Federal Liaison: Lisa Hiebert, City of St. Paul Jess Althoff, Minnesota DNR |
| 11:00 | | Break | |
| 11:15 | С | Cooperative Institute for Research to Operations in Hyd Overview CIROH Members and Partners in the Upper Mississippi River Basin | drology (CIROH) Steve Buan, NOAA Melissa Kenney, University of Minnesota Witold Krajewski, University of Iow Ana Barros, University of Illinois Urbana-Champaign |
| 12:00 noon | | Lunch | |
| 1:00 p.m. | | Federal Fiscal Reports | UMRBA Federal Liaisons |
| 2:15 | | Navigation and Ecosystem Sustainability Program | Andrew Goodall, USACE |
| 2:45 | D1-D8 | Administrative Issues FY 2024 Budget Future Meeting Schedule | |
| 3:00 p.m. | | Adjourn | |

| ATTACHMENT A | |
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| Minutes of the February 28, 2023 UMRBA Quarterly Meeting (A-1 to A-13) | |
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Minutes of the 165th Quarterly Meeting of the Upper Mississippi River Basin Association

February 28, 2023 Virtual Conference Meeting

Tim Hall called the meeting to order at 9:00 a.m. Participants were as follows:

UMRBA Representatives and Alternates:

Rick Pohlman Illinois Department of Natural Resources
Chad Craycraft Illinois Department of Natural Resources
Loren Wobig Illinois Department of Natural Resources
Tim Hall Iowa Department of Natural Resources

Jake Hansen Iowa Department of Agriculture and Land Stewardship

Grant Wilson Minnesota Department of Natural Resources

Dana VanderboschMinnesota Pollution Control AgencyPatrick PhenowMinnesota Department of TransportationErin FanningMissouri Department of Natural Resources

Chris Klenklen Missouri Department of Agriculture
Matt Vitello Missouri Department of Conservation
Cheryl Ball Missouri Department of Transportation
Jim Fischer Wisconsin Department of Natural Resources

Federal UMRBA Liaisons:

Brian Chewning U.S. Army Corps of Engineers, Mississippi Valley Division

Others in Attendance:

Brian McCoy Illinois Department of Transportation
BJ Murray Illinois Department of Transportation
Kirk Hansen Iowa Department of Natural Resources
Randy Schultz Iowa Department of Natural Resources
Caleb Whitehouse Iowa Department of Transportation
Samuel Sturtz Iowa Department of Transportation

Kevin Stauffer Minnesota Department of Natural Resources
Megan Moore Minnesota Department of Natural Resources
Neil Rude Minnesota Department of Natural Resources
Nick Schlesser Minnesota Department of Natural Resources
Vanessa Perry Minnesota Department of Natural Resources

Ken Henderson Missouri Department of Agriculture

Aaron Goddard Missouri Department of Natural Resources
Bob Bacon Missouri Department of Natural Resources
Elizabeth Kirby Missouri Department of Natural Resources

Zachary Becker Missouri Department of Natural Resources

Stacey Fowler Missouri Department of Transportation

Dan Baumann Wisconsin Department of Natural Resources

Patrick Kelly Wisconsin Department of Natural Resources

Doug Daigle U.S. Army Corps of Engineers, Lower Mississippi River Sub-basin Committee

LeeAnn Riggs U.S. Army Corps of Engineers, Mississippi Valley Division Richie McComas U.S. Army Corps of Engineers, Mississippi Valley Division Thatch Shepard U.S. Army Corps of Engineers, Mississippi Valley Division James Briggs U.S. Army Corps of Engineers, New Orleans District Breann Popkin U.S. Army Corps of Engineers, Rock Island District Jodi Cresswell U.S. Army Corps of Engineers, Rock Island District Marshall Plumley U.S. Army Corps of Engineers, Rock Island District Rachel Hawes U.S. Army Corps of Engineers, Rock Island District Greg Kohler U.S. Army Corps of Engineers, St. Louis District Jasen Brown U.S. Army Corps of Engineers, St. Louis District Joan Stemler U.S. Army Corps of Engineers, St. Louis District Lance Engle U.S. Army Corps of Engineers, St. Louis District Shawn Sullivan U.S. Army Corps of Engineers, St. Louis District Kevin Wilson U.S. Army Corps of Engineers, St. Paul District Kimberly Warshaw U.S. Army Corps of Engineers, St. Paul District Samantha Thompson U.S. Army Corps of Engineers, St. Paul District

Jim Cole

U.S. Army Corps of Engineers, Vicksburg District

Travis Black

U.S. Department of Transportation, Inland Waterways Gateway Office

U.S. Army Corps of Engineers, UMRR LTRM

Elisabeth Lang

U.S. Environmental Protection Agency

Katie Flahive

U.S. Environmental Protection Agency

Whitney King

U.S. Environmental Protection Agency

Zachary Liebowitz U.S. Environmental Protection Agency, Region 7

Matt Mangan U.S. Fish and Wildlife Service, Illinois Ecological Services
Kraig McPeek U.S. Fish and Wildlife Service, Illinois-Iowa Ecological Services

Sara Schmuecker
U.S. Fish and Wildlife Service, Illinois-Iowa Field Office
Lauren Larson
U.S. Fish and Wildlife Service, Illinois-Iowa Field Office

Greg Conover U.S. Fish and Wildlife Service, MICRA

Mary Stefanski U.S. Fish and Wildlife Service, UMR National Wildlife and Fish Refuge

Neal Jackson U.S. Fish and Wildlife Service, UMRCC

JC Nelson U.S. Geological Survey, Midcontinent Region

Kim Lutz America's Watershed Initiative

Anshu Singh Corn Belt Ports

Karen Hagerty

Jill Crafton Izaak Walton League of Minnesota

Fritz Funk Lake Onalaska Protection and Rehabilitation District

Brent Newman National Audubon Society Michael Welvaert National Weather Service Steve Buan National Weather Service **Bryan Hopkins** The Nature Conservancy Bryan Piazza The Nature Conservancy Randy Smith The Nature Conservancy **Ashley Peters** University of Minnesota Melissa Kenney University of Minnesota

Kirsten Wallace Upper Mississippi River Basin Association

Mark Ellis Upper Mississippi River Basin Association
Natalie Lenzen Upper Mississippi River Basin Association
Lauren Salvato Upper Mississippi River Basin Association
Andrew Stephenson Upper Mississippi River Basin Association
Erin Spry Upper Mississippi River Basin Association

<u>Minutes</u>

Rick Pohlman moved and Jim Fischer seconded a motion to approve the draft minutes of the November 15, 2022 UMRBA quarterly meeting as provided in the agenda packet. The motion was approved unanimously.

Executive Director's Report

Kirsten Wallace pointed to the Executive Director's report in the agenda packet for a summary of the Association's work efforts since the November 2022 meeting.

Wallace showcased the Upper Mississippi River Restoration program's new communications flyers describing the state of the Upper Mississippi River ecosystem. Thanks to the Upper Mississippi River Restoration program, through USGS's administration on long term resource monitoring, we now have the most robust knowledge of any large riverine ecosystem in the world. That was underscored in a scientific report published in 2022 of the ecological status and trends, of which USGS's Jeff Houser has presented before the Board twice. Wallace noted that the UMRR partnership has wanted to make that information available and accessible to decision makers and partners and the public. Wallace applauded the UMRR team, including UMRBA staff Andrew Stephenson and Erin Spry, for their work in developing the series of flyers that communicate the most important observations about the river's ecological health and how long term monitoring can inform how the river's ecological resources can be sustained and restored. There will be five brochures – with a focus on floodplain forests, fisheries, sediment, water quality, aquatic vegetation.

Wallace announced that, on March 2, 2023, UMRBA and Waterways Council will co-host a bicameral, non-partisan briefing among Congressional staff for the purposes of informing new members about NESP and getting all staff to coalesce around a FY 2024 appropriation request of \$120 million for NESP. UMRBA will provide a general overview of the program purpose and history, dual purpose authorization, the FY 2023 planned program, and the FY 2024 appropriation request. Waterways Council and The Nature Conservancy provided specific information about the navigation and ecosystem investments, respectively.

Wallace thanked USGS for hosting the February 15-16, 2023 Mississippi River Forum, which illuminated questions about the scope of current information available, what gaps in knowledge exist, and what science could be done to address those gaps. A report to congress on the results of the Forum will be published by USGS.

Tim Hall pointed to UMRBA's October 2022 to January 2022 financial statements provided on pages B-6 to B-11 of the agenda packet. Grant Wilson moved and Rick Pohlman seconded a motion to approve the Association's budget report and balance sheet as included in the agenda packet. The motion carried unanimously. Wallace mentioned that the UMRBA Board has reviewed the Association's biennial audit covering FYs 2021 and 2022.

Wallace thanked the UMRBA Board for renewing UMRBA's Personnel Manual, which adds new policies that will help UMRBA be competitive for retaining existing employees and attracting new employees. Tim Hall acknowledged Wallace and Natalie Lenzen, UMRBA's Operations Manager, for their assistance to the Board in drafting and evaluating recommendations for the Board's consideration. In response to a prompt from Hall, Pohlman moved and Jim Fischer seconded a motion to adopt the new UMRBA Personnel Manual effective March 1, 2023. The motion passed unanimously.

Wallace presented an update of various income and expenditure assumptions related to UMRBA's FY 2023 budget. In response, Loren Wobig moved and Grant Wilson amended UMRBA's budget that now estimates total income of \$876,057.60 and total expenditure of \$935,532.50 resulting in an anticipated net loss of \$59,474.90. The motion carried nimously with no comments.

Wallace recalled that, at its November 15, 2022 quarterly meeting, the UMRBA Board authorized her to enter into a cooperative contract with USGS of up to \$200,000 to receive financial compensation for UMRBA's involvement in the Navigation and Ecosystem Sustainability Program (NESP). Wallace explained that the Corps will now transfer the funds directly to UMRBA. In follow up and in response to a prompt from Hall, Fischer moved and Pohlman seconded a motion to amend the authorization from USGS to the Corps. The motion passed unanimously.

Interbasin Diversion Consultation

Annual Reporting

Kirsten Wallace explained that the five states are party to the 1989 Upper Mississippi River Basin Charter, which sets forth a notification and consultation process for any new or increased water diversion out of the basin that will exceed an average of five million gallons per day during any 30-day period. The Charter requires the signatory states to report on their involvement in qualifying diversion requests at UMRBA's annual meeting. The states reported as follows:

Illinois, Rick Pohlman — no qualifying diversion requests
Iowa, Tim Hall — no qualifying diversion requests
Minnesota, Grant Wilson — no qualifying diversion requests
Missouri, Erin Fanning — no qualifying diversion requests
Wisconsin, Jim Fischer — no qualifying diversion requests

Water Availability Cumulative Impact Assessment

Wallace reminded that the Governor's representatives directed UMRBA to convene state experts to assess the Charter's current provisions and identify any recommended revisions to the Charter to ensure that it advances the Charter's stated principles. In 2022, the *ad hoc* group implemented several scenarios for the purposes of better understanding 1) how their unique approaches and authorities to regulating water use may influence implementation of the Charter and 2) evaluate important contextual questions around the Charter's provisions. Each state developed and implemented a proposal for a diversion originating within their state, and then reviewed scenarios that the other states had identified. That led to many recommendations. Wallace explained that the Board's top priorities are to i) renew the Charter text reflecting the states' current value of water resources, ii) develop communications related to

UMRBA's efforts to review the UMR Basin Charter, and iii) develop a water availability cumulative impact assessment.

Wallace explained that the goal of the cumulative impact assessment is to assess vulnerabilities in water availability in the Upper Mississippi River Basin (UMRB) that support multiple water users and uses. The purpose is to inform the Upper Mississippi River states' evaluation of potential out-of-basin water diversions. The cumulative impact assessment will explore questions relating to the known and estimated impacts to water availability through the UMRB resulting from any current and potential future out-of-basin water diversions and consumptive uses. As a first step, the *ad hoc* group is working collaborative to align their water data categories and develop a database to organize the data.

Navigation Channel Management

USACE Beneficial Use Implementation Guidance Update

Richie McComas of USACE Mississippi Valley Division provided updates to Section 125 of WRDA 2020. Section 125 renews the Congressional commitment to beneficial reuse of dredged material by:

- a) Establishing a national policy to maximize the beneficial use of material obtained from Corps projects, requiring the Corps to calculate the economic and environmental benefits of the beneficial use of dredged material when calculating the Federal Standard
- b) Increasing the number of beneficial use of dredged material demonstration projects to 35 projects
- c) Directing the Corps to develop five-year regional dredged material management plans
- d) Emphasizing greater coordination among the Corps' dredging contracts

McComas reported that USACE Headquarters issued implementation guidance for Section 125(a) on November 7, 2022. McComas anticipates that updating regional dredged material management plans (DMMPs) will be more effective and easier to implement.

McComas explained that the new beneficial use policy allows the Corps to transition from calculating the federal standard based on a specific event to the full lifecycle of sediment management. McComas detailed the costs and benefits that comprise the federal standard, including the direct and incidental costs of dredging and dredged material transportation to a placement site and the placement along with estimated value of economic, environmental, and social benefits.

To facilitate quicker updates to the 20-year DMMPs, a beneficial use decision document integration (BUDDI) can be attached as an addendum to a DMMP updating the federal standard, adding new beneficial use sites, and identifying other means for adding capacity of placement sites.

The Corps has established a goal of reusing 70 percent of dredged material by 2030, and believes that reaching that goal will depend upon collaboration and partnerships. In response to a question from Tim Hall, McComas clarified the current rate of beneficial use is between 30 percent and 40 percent. Kirk Hansen asked how the cost share above the federal standard is calculated and whether projects costing above the federal standard require a non-federal sponsor. McComas believed it required a non-federal sponsor and would respond to the UMRBA Board with more detailed information about cost-sharing.

In response to a question from Jill Crafton, McComas explained that the Corps tests dredged material for water quality contaminants prior to reuse application and records the results in associated documentation.

McComas reported that the Corps intends to reevaluate all DMMPs to update them with the new policy. Breann Popkin clarified that part of the regional, five-year DMMP (5-year DMMP) is to outline the existing federal standard sites and then identify the additional beneficial reuse opportunities.

OSIT Recommendations

Jodi Creswell, as its co-Chair, conveyed the recommendations of the of the Rock Island District River Resources Coordinating Team (RRCT) channel maintenance policy and strategy, communications, and efforts to reduce sediment delivery to the Upper Mississippi River from its tributaries. Creswell pointed to pages D-22 to D-24 of the meeting agenda packet for the RRCT's February 13, 2023 letter to the Rock Island District Commander Col. Jesse Curry. The letter includes nine recommendations for resolving implementation barriers, sharing electronic documents, developing a charter for the On-Site Inspection Team (OSIT), and supporting state efforts to reduce sediment input from tributaries. The RRCT is evaluating which recommendations can be advanced in the near term. Jim Fischer thanked the RRCT for its work to develop the suite of recommendations, especially in light of the changes to the river. Kraig McPeek expressed appreciation for the ongoing discussion that is occurring through the RRCT.

Emerging Contaminants Monitoring

Popkin explained the various laws and regulations that govern dredge material though its lifecycle, concluding that USACE has been identified as the responsible party when dredged material has elevated contaminants. Based on historic boring data, the sands of the UMR lack the capacity to accumulate contaminants as readily as other areas. However, emerging contaminants are not yet understood and may behave differently. Because of the unknown properties of emerging contaminants, the Corps is taking a risk-based approach to manage dredged materials at this time.

Lauren Salvato provided a general overview of UMRBA's effort to develop an emerging contaminant monitoring plan for the UMRS. PFAS is a suite of synthetic, long-lasting chemicals with widespread use since the 1940s that can bioaccumulate in organisms. Most current PFAS monitoring data is obtained from surface water samples and lacks a comprehensive scope. PFAS is present throughout multiple media (e.g., sediment, water, fish tissue), but it is unknown how PFAS moves through the system. Some states have developed their own PFAS standards while others wait for USEPA guidance.

The Unregulated Contaminants Monitoring Rule (UCMR) has provided some PFAS data in community drinking water sources. Other data sources in the Upper Mississippi River include a 2019 Wisconsin DNR study of PFOS present in fish tissue and Minnesota PCA's monitoring on PFOS concentrations in sediment and macroinvertebrates as part of the 3M lawsuit on PFAS. The Wisconsin DNR study compared concentration of PFOS in water in nanograms per liter to concentration of PFOS in fish tissue in nanograms per gram.

Salvato said UMRBA is seeking funding to support its Interstate Water Quality Monitoring Program, which involves probabilistic and fixed site sampling to support the states' ability to determine whether Clean Water Act goals are being met related to four major designated uses (aquatic life, drinking water, fish consumption, recreation). The monitoring would allow for characterizing the river's condition, addressing information gaps, aid in public health and environmental justice, and improving down river conditions.

Salvato provided the following resources for additional information:

- Minnesota Department of Health PFAS testing of community water sources:
 https://mdh.maps.arcgis.com/apps/MapSeries/index.html?appid=63515695237f425ea7120d1aac1f
 d09a
- Illinois EPA PFAS dashboard: https://illinoisepa.maps.arcgis.com/apps/dashboards/d304b513b53941c4bc1be2c2730e75cf
- Missouri DNR PFAS viewer:
 https://modnr.maps.arcgis.com/apps/webappviewer/index.html?id=386c71927569476ebd2d0e691
 0424d17
- Wisconsin DNR PFAS reports: https://dnr.wisconsin.gov/topic/PFAS/SWFish.html
- Iowa DNR PFAS sampling: https://experience.arcgis.com/experience/b04e0e828a974e6e8962e47895ebb520

In response to a question from Megan Moore, Salvato confirmed that PFOS monitoring was not included in the CWA Reaches 0-3 pilot that occurred in 2016. Jill Crafton asked for a portal to submit fish tissue data from a local watershed district board. Salvato suggested submitting the information to the WQX portal. Salvato explained that UMRBA is planning to create a centralized UMR database in the near future but it is not available yet.

Resilience Planning

Iowa Drought Plan

Tim Hall explained that, during a 2021 drought meeting hosted by the lowa State Emergency Operations Center, Iowa DNR, the Iowa climatologist's office, and the Iowa Department of Homeland Security (HSEMD) called for a statewide drought plan that would answer two questions: i) what information is needed and when is that information needed and ii) what actions are needed and when are those actions needed? Iowa established a core drought team with members from HSEMD, DNR, IDALS, National Drought Mitigation Center (NDMC), and the USDA Climate Hub located in Ames, Iowa. And, Iowa established a science and data team to ensure the plan is data-driven. Hall reported that the new Iowa Drought Plan is complete with the Directors of Iowa DNR, HSEMD, and the Iowa Secretary of Agriculture all providing their formal endorsement. The Plan is available the Iowa DNR website at https://www2.illinois.gov/dnr/WaterResources/Documents/SWPTF_Report_Dec2022.pdf.

The lowa Drought Plan sections the state into five drought regions based on similarities in geology and hydrology and classifies drought as normal, watch, warning, and emergency. Drought triggers are determined for each drought region separately. Three of four individual "triggers" must be met in order to declare drought in any of the four classifications; the trigger categories are streamflow, USDM drought designation, precipitation, and standardized precipitation index. Internal and external communication systems are enacted following a declaration of a drought classification.

The Iowa Drought Plan is intended to serve as a catalyst for county or local planning. Iowa anticipates updating the Drought Plan following the scheduled five-year updates to the State Hazard Mitigation Plan.

Plans to update the Iowa Drought Information System include establishing a statewide soil moisture network and a web-based portal to support the drought information system.

Crafton suggested efforts to encourage farmers of larger agricultural systems to hold more water. She also suggested modeling the Practical Farmers of Iowa's regenerative agriculture work. Hall responded that the Drought Plan is part of a larger effort to understand water flow through drain tile systems.

In response to a question from Dan Baumann, Hall explained that Iowa does declare a drought emergency as a means to receive allows federal funding for response efforts. The purpose for the declarations in the Iowa Drought Plan is to convey information to local authorities in their response efforts. Iowa intends to integrate those efforts collaboratively rather than have one supersede the other.

Illinois Water Plan

Loren Wobig presented the 2022 Illinois State Water Plan update, which represents opportunities to improve water related programs and policies, educate, protect water quality and supply, better address water-related social and environmental injustices, better engage with concerned citizens and organizations, implement measurable water related actions, and ensure that the water resources of the state are available to all people in Illinois. This new plan includes social and environmental justice considerations and involves dynamic data, is accessible to the public, and considers climate change impacts. The Plan highlights 13 critical issues and 147 recommendations for resolving, improving, or advancing those issues. Wobig pointed out that 33 percent of the 147 recommendations relate to climate change.

The Illinois State Water Plan Task Force is pursuing an executive order or joint resolution to establish credibility of the Plan. The Task Force will continue to meet and measure the results of the updated Plan. The Task Force is also launching an Integrated Water Information Center (IWIC): a central library for all water information in the state. The library will include groundwater and well data to flood damage assessment information. Wobig offered the following web link for partners to track the Task Force's efforts: https://www2.illinois.gov/dnr/WaterResources/Pages/StateWaterPlanTaskForce.aspx. Legislation is needed to formally recognize the State Water Plan Task Force and support it through funding.

Bryan Hopkins expressed appreciation to the state of Illinois for updating the statewide Water Plan and expressed The Nature Conservancy's interest to engage in efforts related to the integrated watershed portion of the Plan. Hopkins noted that The Nature Conservancy is also re-evaluating its water policy. In response to a question from Hopkins, Wobig explained that the levee database will support information about levee height, levee issues, pump station maintenance, regulatory needs, and funding.

2023 UMRS Flood and Drought Forecast

Mike Welvaert explained that, as of February 21, 2023, soil moisture conditions are dry across Minnesota and Iowa. Conditions were wetter earlier in the winter season, but most of the region has returned to "near normal" conditions.

Welvaert reported that current flood risks are high for areas with deeper snowpack. Frost depths are generally a foot or less in Minnesota, Wisconsin, and Iowa. This should allow for infiltration of melt water into soil and will reduce flooding risk. The outlook for temperatures in the region within the next month are projected to be below normal whereas precipitation looks to be above normal. The National Central

River Forecast Center (NCRFC) flood outlook has assigned an above normal flood risk for the Minnesota River and the Upper Mississippi River mainstem, where there is potential for moderate to major level flooding. Spring temperatures and precipitation will drive the melt rate and timing, affecting the potential and severity for flooding.

Water Levels to Support Navigation in Middle Mississippi River (Open River)

Joan Stemler presented an overview of low water conditions and operations in the St. Louis District. In October 2022, the Mississippi River surpassed the 10 daily-low records at the St. Louis gage. The fall 2022 extended river forecast for the Middle Mississippi River predicted extremely low stages from spring. Multiple dredges were working to prepare the 9-foot navigation channel and the Corps used extra storage at Lake Shelbyville and Carlyle Lake to raise river levels. Stemler credited the use of storage to reduce the impact of "ice bite" or water level decrease at ice formation.

Megan Moore asked if there was any concern for floodplain forests while water was held high. Stemler explained that high water held at reservoirs is maintained at a level that does not affect the floodplain forests. The Corps consults biologists to inform water management decisions.

Multi-Benefit Conservation Practices

Outcomes from November 2022 Workshop

Lauren Salvato explained UMRBA members states are working collaboratively through the UMRBA Water Quality Executive Committee and Hypoxia Task Force federal-state partnerships. In recent years, the UMRBA Water Quality Executive Committee has had focused conversations for states to learn from one another in their state nutrient reduction strategies as well as to work collectively to accelerate nutrient reduction efforts. As part of that larger conversation, UMRBA is convening leading experts and organizations to discuss opportunities and challenges associated multi-benefic conservation practices on agricultural lands.

Salvato reported that UMRBA hosted a workshop in November 2022 for the purposes of improving shared knowledge of conservation techniques, strengthening regional collaboration, and identifying collaborative solutions for accelerating the adoption of conservation practices. The workshop included panel presentations and facilitated discussions related to finance, research, and communications. Salvato provided an overview of the many resulting recommendations raised during the facilitated discussions, and said UMRBA will soon publish a summary of presentations and recommendations.

Another workshop is being planned for October 2023. Salvato thanked the workshop planning committee, which included state natural resource and agricultural agencies and USEPA.

Navigation and Ecosystem Sustainability Program and Upper Mississippi River Restoration Program

Navigation and Ecosystem Sustainability Program (NESP)

Andrew Goodall reported that the first NESP Coordinating Committee meeting is scheduled for April 5, 2023. A charter for the NESP Coordinating Committee Charter remains in development, and partner funding agreements are under review. The Rock Island District submitted a proposal for convening the Advisory Panel to MVD, and it will be considered by the USACE vertical team. NEPA compliance

evaluation and Endangered Species Act coordination remain ongoing. Goodall reported on the status of ecosystem restoration projects: construction for one project will begin this summer, construction contracts will be awarded for six projects, and planning will continue on two projects. In response to a question from Kirsten Wallace, Goodall confirmed that UMRBA's comments regarding the Advisory Panel were incorporated into the proposal submitted to MVD.

JC Nelson said that, during the recent Mississippi River Science Forum, it was clear that there are a many unmet data and research needs in the river system. In response to a question from Nelson, Goodall explained that NESP's monitoring and adaptive management efforts in FY 2023 will depend upon funding. In response to a question from Stephenson, Rachel Hawes reported that development on the NESP Systemic Forest Stewardship Plan is delayed.

Bryan Hopkins stated that The Nature Conservancy is a strong supporter of NESP, but has serious concerns about the program's current lack of transparency. Hopkins emphasized a need for systemic restoration planning, expressing concern that the quick project selection cycle minimized partner engagement and removed the ability to focus on large scale issues. Goodall expressed appreciation for TNC's support for NESP. Goodall underscored that NESP is maturing and anticipates that NESP will foster collaborative, systemic restoration planning in the future. Goodall stated that he hopes partner engagement will be fostered through the NESP Coordinating Committee quarterly meetings going forward.

Financial Update / Program Efforts

Marshall Plumley said UMRR anticipates receiving \$55 million in FY 2023 for the first time, and that the program has the potential to expand further following Congress's action in WRDA 2022 that increased its annual authorized appropriation to \$90 million – i.e., \$75 million for HREPs and \$15 million for LTRM. Plumley applauded the partnership for this recognition by Congress.

Plumley said Headquarters is still reviewing the draft 2022 UMRR Report to Congress. The UMRR Coordinating Committee is reviewing of progress in implementing the 2015-2025 UMRR Strategic and Operational Plan and evaluating and prioritizing actions for advancing remaining priorities through 2025. Plumley applauded the success of in communicating the third UMRR ecological status and trends analysis. UMRR is drafting concise flyers to a) increase accessibility to the long term monitoring dataset and b) improve knowledge of the ecosystem to key decision makers, partners, and interested public.

Plumley explained that the UMRR Coordinating Committee tasked an *ad hoc* group to identify and prioritize information needs that can be advanced through UMRR long term resource monitoring and science. The group has identified 29 specific information needs in four categories: hydrogeomorphic change, floodplain ecology, aquatic ecology, and restoration applications.

UMRR will soon initiate scoping for planning future HREPs, with the goal of identifying a suite of potential projects by 2025. UMRR is also planning to host a workshop among habitat project practitioners and resource experts in winter 2023 or 2024.

State Priorities

Kirk Hansen underscored the value of the Upper Mississippi River's partnership among states, federal agencies, and nongovernmental partners. Hansen encouraged partners to lean into the foundational building blocks of NESP: strategic planning, communications, adaptive management, and partnership.

At this stage of NESP implementation, there is a need to reduce redundancies with UMRR and instead leverage capacities. Hansen hopes that formalizing partner roles through the NESP Coordinating Committee, including through the development of a charter, will strengthen the opportunities through NESP. Hansen stated UMRBA priority for implementing Section 8004(a) of NESP's authorization — i.e., integrated ecological sustainability in the 9-foot navigation channel management. Hansen stated that UMRBA and its member states remain committed to advancing the multi-purpose management of the Upper Mississippi River.

Nongovernmental Program Initiatives

Mississippi River Basin Monitoring System

Bryan Piazza introduced The Nature Conservancy's (TNC's) proposal for a comprehensive monitoring system for the Mississippi River Basin. The purpose for the monitoring system is to inform management that will improve water quality, make the river more flood resilient, and create a healthier Gulf of Mexico. TNC has found that the current monitoring system in the Mississippi River Basin is inadequate to determine the levels of risk and the effects of actions to mitigate those risks. Although monitoring efforts exist, these efforts are truncated geographically and are challenged by inconsistent monitoring. Therefore, TNC is recommending the establishment of a fully federally funded sentinel monitoring system across the Mississippi River basin. Three critical levels are identified to achieve the goal: align funding, recruit champions and advisors, and target places and solutions.

TNC is fostering a coalition of over 50 active members to design the program and to advocate for funding. The coalition has named four priorities (i.e., water quality and hypoxia, flood risk management and resilience, navigation and safety, and ecosystems and habitat quality) and three objectives:

- Obtain consistent and comparable information on loads and trends in streamflow, water quality, and sediment
- Provide real-time information needed to guide decisions on flood risk management and resilience
- Develop a data interface for transparent and timely data availability.

TNC's technical design group is recommending a publicly accessible data interface for the sentinel monitoring system. The proposed "sentinel system" will require \$23.4 million annually whereas the current system costs \$20 million annually.

Mississippi River Basin Framework for Improving Ecosystem Health

Eileen McLellan said the Environmental Defense Fund (EDF) convened group of experts from federal agencies, universities, and river organizations met to develop a plan for promoting ecosystem health on the Mississippi — Atchafalaya River Basin. The workshop group concluded that ecological health is dependent more on the "function" than the "form" of the ecosystem. EDF developed a series of pathways for ecosystem health improvement, incorporating strategies for decreasing ecosystem stressors, increasing ecosystem function, and increasing ecosystem resilience. EDF is proposing several ecosystem health indicators that collectively indicate the ability of an ecosystem to provide a service. As an example, indicators of reduced stressors could include length of tile drainage and channel sinuosity. EDF hopes to encourage ecosystem managers to think of ecosystem functions rather than forms, to

expand water quality and species monitoring to test leading indicators of change, and to better communicate how things that managers can control affect ecosystem health.

Mississippi River Partnership Initiative

Kim Lutz shared the America's Watershed Initiative's collaborative work to develop a basin-wide organizational structure to improve water quality, mitigate the impacts of climate change, improve inland transportation, and engage social justice communities. The purpose is to improve efficiency and effectiveness of federal spending, improve data and its utilization to inform decision making, and encourage integrated, multi-purpose management of the basin's water resource management. AWI has developed a work plan that involves assessing existing Federal programs and funding, identifying gaps in governance, and building relationships with states and multi-state alliances. AWI plans to use that assessment to develop action plans and funding priorities. The group is currently engaging federal agencies to gather support and information.

In response to a question from Lauren Salvato, Lutz acknowledged the many unique partnerships, authorities, and water resources within each of the Mississippi River sub watersheds. AWI's proposal would provide the forum for the thoughtful conversations needed for integrated management.

Wallace asked whether Piazza, McLennen, or Lutz had a specific request for UMRBA at this time. In response, Piazza requested UMRBA's continued leadership as an example of a well functioning organizational structure. McLellan requested further information on success stories across the Upper Mississippi River Basin. Lutz requested that the UMRBA board to share questions and concerns about AWI's proposal.

Administrative Issues

Kirsten Wallace announced that the Corps released its FY 2023 workplan that included \$18.379 million for the ecosystem element of NESP. This is in addition to the \$49 million appropriation for NESP.

Election of Officers

Kirsten Wallace expressed gratitude to Tim Hall for his second chair rotation. Wallace explained that Minnesota was scheduled to serve as Chair in 2023, but has requested to swap terms with Illinois given that Minnesota recently transitioned its primary membership. On behalf of Illinois, Rick Pohlman agreed to serve in the Chair capacity in 2023 with Minnesota serving in 2024.

In response to a prompt from Tim Hall, Grant Wilson moved and Erin Fanning seconded a motion to elect Rick Pohlman as Chair of the UMRBA Board in 2023. The motion was unanimously approved.

Rick Pohlman moved and Jim Fischer seconded a motion to appoint Grant Wilson as Vice Chair of the UMRBA Board. The motion was unanimously approved.

Rick Pohlman moved and Rick Pohlman seconded a motion to elect Jason Tidemann as Treasurer. The motions unanimously approved.

Future Meeting Schedule

May 2023 – St. Paul, Minnesota

- UMRBA Quarterly Meeting May 23
- UMRR Coordinating Committee quarterly meeting May 24

August 2023 – La Crosse, Wisconsin

- UMRBA Quarterly Meeting August 8
- UMRR Coordinating Committee quarterly meeting August 9

October 2023 – St. Louis, Missouri

- UMRBA Quarterly Meeting October 24
- UMRR Coordinating Committee quarterly meeting October 25

With no further business, the meeting adjourned at 2:50 p.m.

ATTACHMENT B

Executive Director's Report

- Executive Director's Report (B-1 to B-6)
- UMRBA FY 2024 Appropriation Request Letter for USACE (3/20/2023) (B-7 to B-8)

[Note: There is a similar letter to the Senate Appropriations Committee. The letters are available at: https://umrba.org/document/FY2024-appropriations-priorities.]

• UMRBA FY 2024 Appropriation Request Letter for USEPA Gulf Hypoxia Program (3/20/2023) (B-9 to B-10)

[Note: There is a similar letter to the Senate Appropriations Committee. The letters are available at: https://umrba.org/document/FY2024-appropriations-priorities.]

- Interstate Council on Water Policy FY 2024 Appropriation Request Letter for Streamgaging Program (B-11 to B-19)
- UMRBA NRCS Mississippi River Basin Healthy Watersheds Initiative (MRBI) and the National Water Quality Initiative (NWQI) Comment Letter (4/7/2023) (B-20 to B-22)
- Treasurer's Quarterly Statement (5/9/2023) (B-23)
- FY 2023 Budget Report and Balance Sheet (5/9/2023) (B-24 to B-27)



UMRBA STAFF

Brian Stenquist is joining UMRBA staff as assistant to the Executive Director though a contractual relationship with *Meeting Challenges*. UMRBA is expanding its retainer with *Meeting Challenges* to include support in advancing UMRBA's strategic initiatives.

ADVOCACY

FY 2024 Appropriations Requests

UMRBA has submitted to the UMR delegation the following FY 2024 appropriations requests: \$120 million for the Navigation and Ecosystem Sustainability Program (NESP), \$55 million for the Upper Mississippi River Restoration (UMRR) program, \$1.2 million for a UMR flow frequency study, and \$25 million for the Gulf Hypoxia Program. UMRBA submitted appropriations requests through members' online portals, letters to individual member offices in support of those requests, and letters to the House and Senate Appropriations Committees. The letters to the Appropriations Committees are provided on pages B-7 to B-10 of the agenda packet.

UMRBA joined the Interstate Council on Water Policy's multi-signatory letter to the House and Senate Appropriations Committees requesting FY 2024 appropriations of \$32 million for USGS federal priority streamgages, \$68 million for USGS Cooperative Matching Funds (including \$33 million for streamgage support), and \$35 million for Next Generation Water Observing System and data delivery modernization. The letter is provided on pages B-11 to B-19 of the agenda packet.

Navigation and Ecosystem Sustainability Program

On March 2, 2023, UMRBA and Waterways Council co-hosted a bicameral, non-partisan briefing among Congressional staff for the purposes of informing new members about NESP and getting all staff to coalesce around a FY 2024 appropriation request of \$120 million for NESP. UMRBA presented on the overall program history, dual purpose authorization, the FY 2023 planned program, and the FY 2024 appropriation request. Waterways Council and The Nature Conservancy provided specific information about the navigation and ecosystem investments, respectively.

Rep. Betty McCollum Mississippi River Meeting

On March 16, 2023, Rep. Betty McCollum held a "State of our River: Mississippi River Dialogue" meeting. UMRBA staff attended. Minnesota climatologist Luigi Romolo provided a briefing about how climate change may impact the Mississippi River. The meeting also included panel discussions among state, tribal, federal and local government leadership as well as river stakeholders. Rep. McCollum reported that she plans to reintroduce in this Congress a revised version of her legislation, the Mississippi River Restoration and Resilience Initiative.

COMMERCIAL NAVIGATION

Inland Waterways Users Board

The Inland Waterways Users Board (IWUB) held its April 13, 2023 quarterly meeting in Pittsburgh, Pennsylvania. The IWUB hosted briefings on the overall USACE navigation program, the status of the Inland Waterways Trust Fund (IWTF), and low water operations on inland waterways. The Rock Island District presented on the L&D 25 and La Grange lock modernization projects, sharing anticipated impacts from inflation and other issues on the projects' schedule and cost. UMRBA staff attended the IWUB quarterly meeting via a virtual connection.

Upper Pool 4 Beneficial Reuse for Habitat Restoration Groundbreaking

UMRBA staff provided remarks in celebration of the Upper Pool 4 habitat restoration project, held on May 16, 2023 at the Saratoga Park in Bay City, Wisconsin. This project was one of ten projects selected across the nation under a pilot program for exploring beneficial use of dredged material authorized in Section 1122 of the Water Infrastructure Investment for the Nation (WIIN) Act of 2016. UMRBA's remarks underscored the value of this project in exemplifying the increased capability and cost-savings of integrating river management that this pilot program is exploring.

Beneficial Use Work Group

UMRBA staff participated in the Corps' Beneficial Use Work Group meeting on May 5, 2023. The meeting included updates on the Corps' beneficial use policies, agency updates (e.g., potential projects that might utilize dredged material), relevant research through ERDC, and other unfolding developments related to beneficial reuse of dredged material.

ECOSYSTEM HEALTH

Upper Mississippi River Restoration

Beaver Island Tour

On April 10, 2023, the UMRR Program Manager Marshall Plumley and the Corps Rock Island District hosted the Assistant Secretary of the Army for Civil Works [ASA(CW)] Michael Connor on a tour of Beaver Island habitat rehabilitation and enhancement project (HREP). UMRBA staff joined the tour along with representatives from USFWS, USGS, and state agencies. Iowa DNR volunteered an electrofishing experience for ASA(CW) Connor. The tour was held during high water, underscoring the benefits of the elevated forest floor for restoring and protecting the forests. Plumley also briefed ASA(CW) Connor on the UMRR long term monitoring program and recent analyses.

LTRM-Information Needs

UMRR is employing an implementation planning process for LTRM, focusing on the potential to expand knowledge of the UMRS and to inform ecosystem restoration and management. The objective is to work under the umbrella of the UMRR 2015-2025 Strategic Plan to identify specific unmet information and research needs and determine a set of priority actions to address those needs.

The *ad hoc* planning team initially identified 29 information needs, and prioritized 11 of those information needs in light of existing and anticipated future funding. The team is scheduled to present this suite of priority information needs to the UMRR Coordinating Committee at its May 24, 2023 meeting. The planning team is

refining associated cost estimates, and plans to present those estimates to the UMRR Coordinating Committee at its August 9, 2023 meeting.

Navigation and Ecosystem Sustainability Program

NESP Coordinating Committee Meeting

The NESP Coordinating Committee convened an April 5, 2023 meeting in East Moline, Illinois. The meeting was the first formal, public-facing convening of the Coordinating Committee since NESP received construction funding in 2022. The agenda included briefings of the ecosystem program's status, particularly focusing on ecosystem project implementation and plans for future project selection. The NESP Coordinating Committee also featured the L&D 22 fish passage project, including monitoring and design activities. UMRBA staff participated in the meeting.

Groundbreakings

UMRBA attended the NESP groundbreakings on April 12, 2023 for the L&D 14 mooring cell and on May 18, 2023 for the L&D 22 fish passage and L&D 25 lock modernization projects.

Upper Mississippi River Conservation Committee

The Upper Mississippi River Conservation Committee (UMRCC) convened its annual conference on March 20-23, 2023 in Red Wing, Minnesota. UMRCC's conference included presentations about climate, forests, aquatic vegetation, and water quality conditions affecting the river ecosystem; comparisons to other large river systems; and tribal perspectives on river management. UMRBA staff attended the conference.

RESILIENCE PLANNING

Midwest Climate Adaptation Science Center Workshop

On March 21-23, 2023, USGS Upper Midwest Environmental Sciences Center (UMESC) hosted at the Forest Products Laboratory in Madison, Wisconsin. The purpose was to inform and inspire collaborative project opportunities centered on nature-based solutions to reduce impacts from extreme precipitation events in the Upper Mississippi River Basin. The workshop was funded by the Midwest Climate Adaptation Science Center. UMRBA staff served as a workshop project advisor and participated in the workshop.

National Integrated Drought Information System (NIDIS) Executive Council

On behalf of the Interstate Council on Water Policy, Kirsten Wallace participated in the National Integrated Drought Information System (NIDIS) Executive Council meeting on April 27, 2023 in Washington, D.C. The Council discussed a series of focused questions regarding climate-adapted drought planning for long term resilience, including the state of existing research. This informed a subsequent conversation on developing a research agenda to advance knowledge of drought impacts and expanding decision-support resources for drought planning. The meeting also featured the 2022 drought that spanned the Mississippi River Basin as well as the White House Council on Environmental Quality's work on interagency drought resilience partnerships.

HAZARDOUS SPILLS COORDINATION, MAPPING, AND PLANNING

Oil Pollution Act (OPA) Planning and Mapping

UMRBA continues to update the Illinois statewide Inland Sensitivity Atlas. UMRBA staff incorporated partial updates from the Great Lakes Commission (GLC) for Michigan and Ohio into the regional geodatabase. The most recent geodatabase was delivered to USEPA Region 5 on May 1, 2023.

UMRBA staff participated in the following engagements:

- Mapping Group virtual meetings on March 6, 2023 and May 1, 2023 as well as an Inland Zone Planning meeting on May 18, 2023.
- The Joint Regional Response Teams 5 and 7 meeting held in St. Charles, Missouri on April 5-6, 2023, presenting a briefing on the October 2022 St. Louis area response strategy field reconnaissance.
- Greater St. Louis Sub-area virtual planning meeting held on May 4, 2023.

As part of its ongoing spills program, UMRBA staff provided general support for spill response planning in the Upper Mississippi River and Minneapolis/St. Paul sub-areas.

Upper Mississippi River Hazardous Spills Coordination Group

The Upper Mississippi River Spills Group held its spring meeting on April 4, 2023 at the Great River National Museum in East Alton, Illinois. The primary purpose for this meeting was to discuss response planning activities scheduled to be implemented in 2023.

UMRBA staff supported response to the BNSF derailment at De Soto, Wisconsin on April 27, 2023. This support mostly involved providing planning materials to responders and disseminating incident updates to Upper Mississippi River Spills Group members.

WATER QUALITY

Water Quality Task Force

The UMRBA Water Quality Task Force (WQTF) met virtually on March 8, 2023 for the purposes of refining the UMRBA UMR Interstate Water Quality Monitoring Plan and preparing for the next iteration of implementation. Currently, the WQTF is planning to implement the fixed-site component of the monitoring plan in 2025.

Nutrient Management

On March 1, 2023, Minnesota Pollution Control Agency hosted the fourth annual Ag-Urban Partnership Forum in St. Joseph, Minnesota. The Forum is organized through a collaboration among state agencies, local entities, and agriculture interest groups throughout Minnesota. The theme for this year's Forum was extreme weather resiliency. Minnesota Climate Adaptation Partnership Director Dr. Heidi Roop was featured as the keynote speaker. Other presentations showcased successful partnerships that improved the resilience of local communities and small watersheds to extreme precipitation. UMRBA staff attended the Forum.

NRCS Mississippi River Basin Healthy Watersheds Initiative (MRBI) and the National Water Quality Initiative (NWQI)

On April 7, 2023, the UMRBA Water Quality Executive Committee submitted a letter to USDA NRCS providing suggestions for improving NRCS's Mississippi River Basin Healthy Watersheds Initiative (MRBI) and the National Water Quality Initiative (NWQI). This letter was provided to NRCS in response to NRCS's request for comments. In particular, the Water Quality Executive Committee calls for improving connection to state and local watershed plans, efficiency in applications, and planning assistance. This letter is provided on pages B-20 to B-22 of the agenda packet.

USACE Harmful Algal Bloom Demonstration Program

Under a short-term authorization, USACE has established a freshwater harmful algal bloom (HAB) research and development program. In WRDA 2022, Congress recently added the Upper Mississippi River basin as a priority focal area for the Corps' HAB technology demonstration program, which focuses on developing scalable technologies to minimize HAB frequency and effects across scales, ecoregions, and system types. On April 20, 2023, USACE Engineer Research and Development Center (ERDC) provided a briefing to the UMRBA Water Quality Executive Committee about the program and potential opportunities for in the Upper Mississippi River basin.

Fish Forum

On March 9, 2023, UMRBA staff presented at the 2023 Fish Forum on UMRBA's Interstate Water Quality Monitoring Program and its fish tissue monitoring. The Fish Forum was hosted virtually over four days and included topics such as fish consumption advisories, PFAS monitoring studies, fish consumption and equity, risk communication, and climate change.

COLLABORATION

Mississippi River Cities and Towns Initiative

UMRBA staff attended the Mississippi River Cities and Towns Initiative's (MRCTI's) reception with the U.S. Army Corps of Engineers on March 2, 2023. The reception hosted remarks from the Deputy ASA(CW) Jaime Pinkham, Acting Director of USACE Civil Works Eddie Belk, and FEMA Associate Administrator of Resilience David Maurstad. Additionally, MRCTI and the Embassy of the Kingdom of the Netherlands announced a new partnership focused of flood resilience.

Interstate Council on Water Policy

The Interstate Council on Water Policy (ICWP) co-hosted with the National Water Supply Alliance the Annual Roundtable on April 4-5, 2023 and Water Policy Summit on April 5, 2023. The events were held in Washington, D.C. In addition to association business meetings, the Roundtable hosted panels of various federal agencies regarding their water-related programs and projects. The Policy Summit convened leading organizations working on climate resilience, water data and science, water resources planning and predisaster mitigation, and infrastructure. In addition, the Policy Summit hosted a Congressional Panel featuring the House Transportation and Infrastructure Subcommittee on Water Resources and the Environment and the Senate Energy and Natural Resources Committee. As a member of ICWP, UMRBA staff attended the series of events.

UMRBA staff represented ICWP as a member of the NIDIS Steering Committee at its April 27, 2023 meeting in Washington, D.C. (More information provided above.)

FINANCIAL REPORT

Attached as page B-23 is UMRBA Treasurer Jason Tidemann's statement regarding his review of UMRBA's financial statement for the period of January 1, 2023 to March 31, 2023.

Attached as pages B-24 to B-27 are UMRBA's 2023 budget reports and balance sheet. As of May 9, 2023, ordinary income for FY 2023 totaled \$736,320.59 and expenses totaled \$744,566.95 for net ordinary income of -\$8,246.36. As of this date, UMRBA's cash assets totaled \$189,851.85.



March 20, 2023

The Honorable Kay Granger Chair U.S. House of Representatives Appropriations Committee H-307, The Capitol Washington, D.C. 20515

The Honorable Chuck Fleischmann Chair U.S. House of Representatives Energy and Water Appropriations Subcommittee 2362-B Rayburn House Office Building Washington, D.C. 20515 The Honorable Rosa DeLauro Ranking Member U.S. House of Representatives Appropriations Committee H-307, The Capitol Washington, D.C. 20515

The Honorable Marcy Kaptur
Ranking Member
U.S. House of Representatives
Energy and Water Appropriations Subcommittee
2362-B Rayburn House Office Building
Washington, D.C. 20515

Dear Chairs Granger and Fleischmann, Ranking Members DeLauro and Kaptur:

As Congress develops its Fiscal Year 2024 appropriations priorities for the U.S. Army Corps of Engineers, I am writing on behalf of the Upper Mississippi River Basin Association (UMRBA) to respectfully request funding for the following programs and projects:

— \$120 million for the Navigation and Ecosystem Sustainability Program (NESP)

In 2024, NESP will initiate construction of a second 1,200-foot lock chamber at La Grange L&D, construct mooring cells on the Mississippi River to improve navigation efficiency and fish passage at L&D 22, and advance planning and design on six to ten ecosystem restoration projects. In addition, NESP will advance strategic planning and adaptive management of its ecosystem restoration program.

— \$55 million for the Upper Mississippi River Restoration (UMRR) Program

In FY 2024, UMRR will construct 9 habitat projects and advance planning and design on 14 to 16 habitat projects. These projects integrate a broad range of restoration techniques that strive to use or mimic the

Page 2 March 20, 2023

river's natural processes to enhance and protect important fish and wildlife habitat, restore the river's floodplain structure and function, and counteract the factors degrading the river's ecological health. UMRR will continue its long term resource monitoring and research, providing a much clearer understanding of the complex, dynamic relationships among various ecosystem components and watershed drivers.

 \$1.2 million for renewed flow frequency probabilities and water surface profiles for the Upper Mississippi and Illinois Rivers

In FY 2024, the U.S. Army Corps of Engineers will compete the hydraulic routing model and associated flow and climate assessments, employ the analyses, and develop a report of the findings. Flood risk assessments and forecasting capabilities will help to reduce damages and loss of life associated with increasingly frequent and extreme flood events in the Upper Mississippi River. Accurate and accessible information will improve our ability to develop a systemic flood plan and improve management capabilities.

— Funding to support full capability of the Upper Mississippi River System 9-foot navigation channel operations and maintenance

UMRBA is the Governor-established forum for interstate water resource planning and management on the Upper Mississippi River, representing its member states of Illinois, Iowa, Minnesota, Missouri, and Wisconsin and working collaboratively with the federal agencies as well as the navigation industry, environmental organizations, local communities, and others who work directly to improve the Upper Mississippi River System. UMRBA's member states are strongly committed to the principles of sustainability and multi-use as the foundation of the river's management. The programs and projects listed above collectively help to improve the health and resilience of the navigation system and ecosystem as well as the many river communities of the Upper Mississippi River System.

We appreciate your consideration of this request. Please contact me at 651-224-2880 or kwallace@umrba.org to arrange an opportunity to discuss our request in more detail.

Sincerely,

Kirsten Wallace Executive Director

Upper Mississippi River Basin Association

Ratlan

cc: House Upper Mississippi River Delegation



March 20, 2023

The Honorable Kay Granger Chair U.S. House of Representatives Appropriations Committee H-307, The Capitol Washington, D.C. 20515

The Honorable Mike Simpson
Chair
U.S. House of Representatives
Interior and Environment Appropriations
Subcommittee
2007 Rayburn House Office Building
Washington, D.C. 20515

The Honorable Rosa DeLauro Ranking Member U.S. House of Representatives Appropriations Committee H-307, The Capitol Washington, D.C. 20515

The Honorable Chellie Pingree
Ranking Member
U.S. House of Representatives
Interior and Environment Appropriations
Subcommittee
2007 Rayburn House Office Building
Washington, D.C. 20515

Dear Chairs Granger and Simpson, Ranking Members DeLauro and Pingree:

As Congress develops its Fiscal Year 2024 appropriations priorities for the U.S. Environmental Protection Agency, I am writing on behalf of the Upper Mississippi River Basin Association (UMRBA) to respectfully request \$25 million for the Gulf Hypoxia Program.

UMRBA is the Governor-established forum for interstate water resource planning and management on the Upper Mississippi River, representing its member states of Illinois, Iowa, Minnesota, Missouri, and Wisconsin. UMRBA believes that the Gulf Hypoxia Program (and the Hypoxia Task Force) is a model of good government, focusing on collaboration among states as well as between federal agencies, landowners, commodity groups, land-grant universities, conservation interests, and the private sector.

Through the Gulf Hypoxia Program (and Hypoxia Task Force), a partnership of 12 states, five federal agencies, and tribal partners work collaborative to advance comprehensive water quality solutions designed to reduce nutrient loads in waterways throughout the greater Mississippi River Basin, consistent with the Gulf Hypoxia Action Plan. Additionally, conservation practices to reduce nutrient runoff from nonpoint sources have many supplemental national benefits such as habitat for wildlife and pollinator species and water storage.

Page 2 March 20, 2023

In FY 2024, the funding request would support the implementation of state nutrient reduction strategies and modeling tools to understand the cumulative effects of these strategies on mitigating hypoxia.

Please contact me at 651-224-2880 to arrange an opportunity to discuss our request in more detail.

We appreciate your consideration of this request. Please contact me at 651-224-2880 or kwallace@umrba.org to arrange an opportunity to discuss our request in more detail.

Sincerely,

Kirsten Wallace Executive Director

Upper Mississippi River Basin Association

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cc: House Upper Mississippi River Delegation

Coalition Support for USGS Streamgage Networks and Modernization

Congresswoman Betty McCollum 2426 Rayburn House Office Building Washington, DC 20515

February 28, 2023

RE: WATER DATA & SCIENCE PROGRAM FUNDING Interior Department Appropriations for FY2024

Summary of Coalition's Requests for FY2024:

Federal Priorities Streamgages = \$32.0 M
Cooperative Matching Funds Program = \$68M
(includes \$33M streamgage support and studies)
NGWOS/data modernization = \$35M

Dear Congresswoman McCollum:

Our coalition of 96 water management and use stakeholders urges your support to sufficiently fund the United States Geological Survey's Federal Priorities Streamgage (FPS) network and supportive programs for the upcoming Fiscal Year 2024 budget appropriation.

A fully funded streamgage network – one that keeps pace with inflationary and routine maintenance overhead – is critical to ensuring the nation's socioeconomic and cultural wellbeing. These streamgages are crucial as we embark on new efforts to understand, plan for, and build our collective capacity to improve the nation's resilience to extreme weather events. A summary of our funding request is detailed below. The final section of this letter explains in more detail why we as a nation simply cannot risk an inadequately funded network of streamgages.

There are approximately three USGS FPS streamgages in your district: two are fully-funded by the federal government, none are cooperatively funded, and one is private party-funded. The SECURE Water Act of 2009 envisions that the federal cost share of the network to be 100 percent of the cost of carrying out the network. At the current rate, 66 percent of your district's USGS streamgages meet that goal.

Summary of funding request

Our broad coalition of state agencies, interstate commissions, associations, universities, non-governmental organizations, and private industry request a total USGS Fiscal Year 2024 budget appropriation. This request consists of **\$32M** dedicated to Federal Priorities

Streamgages, **\$68M** for the Cooperative Matching Funds Program (including \$33M for streamgage support) and **\$35M** for Next Generation Water Observing System and data delivery modernization.

Supporting details

Federal Priority Streamgages (FPS) -- \$32M

We envision the need for a \$2M increase over our FY2023 \$30M funding request which was designed to cover the costs of existing gages and preclude any loss of sites. This request does not include a cost-share takeover for any FPS gages; it is just to keep the current gages going.

Justification: Funding for FPS has been flat since 2016, yet operational costs have grown by approximately one to three percent per year due to increases in salary, travel, equipment and communication costs. Inflationary costs associated with streamgage site maintenance, operations and reporting have also generated a \$1M per year shortfall since 2022.

Cooperative Matching Funds (CMF) Program -- \$68M

The CMF program should be funded at \$68M to adequately support cooperative matching funds for streamgaging. Of that appropriation, \$33M for CMF-supported streamgages is needed to protect the approximately 5,275 CMF-supported streamgages that are already in place and functioning nationwide.

Justification: The USGS works with more than 1,400 partners nationwide (federal, state, tribal, local and non-governmental organizations) using CMF to jointly support streamgages. This matching program began as a 50/50 cost share but has seen the federal contribution decrease to less than 30 percent. When an increasing share of the streamgages must be funded by reimbursable and private parties, they become ever more susceptible to having the funding pulled, thus rendering the FPS program less stable overall.

Next Generation Water Observing System (NGWOS) - \$35M

Our coalition appreciates Congress' support of the Next Generation Water Observation System (NGWOS). We stand by last year's FY2023 request for \$35M to allow for further buildout of the NGWOS program. Funding at this level for FY2024 would complete rollout for the fifth Integrated Water Science (IWS) basin and ultimately move NGWOS toward the goal of 10 IWS basins nationwide.

Justification: The FY2023 appropriation of \$29.5M was only a \$500,000 increase over the FY2022 appropriation which allowed planning to begin in the fifth basin but with fewer resources than originally intended.

USGS Streamgage network data improve our resilience to extreme weather events

A fully funded and implemented streamgage network will augment our nation's resilience in response to extreme weather events. Without water data from this widespread system of sites, we are less equipped to make informed decision making, such as flood and hurricane risk predictions, drought determinations, and water supply forecasts.

The USGS recently completed an analysis of the USGS Streamflow Monitoring Network to determine priority areas to maintain or improve coverage, resolution, and representation throughout the United States.¹ This analysis identified network gaps in three important areas in context to building resilience to extreme weather events:

- 1) Most coastal watersheds (83 percent) do not have streamgages. More gages are needed in coastal areas; a robust streamgage network implemented in coastal areas would <u>provide important data to reduce flood risk</u> in context to sea level rise through improved flood forecasting and warning.
- 2) Thirty-nine states lack streamflow information in areas to assess how local climate is affecting floods and droughts. More streamgages are needed to <u>understand how climate variability affects different parts of the Nation</u>. The findings indicate that more gages are needed in 30 percent of NOAA Climate Divisions.
- 3) The USGS network has streamgages in many areas where water supply is vulnerable to reduced snowpack because of climate warming. Some of these areas may require additional gages because they are <u>particularly vulnerable</u> to changes in snowpack.

With your help and continued support, Congress can enable the USGS to fulfill its Water Resources Mission Area goals by adequately funding the Federal Priority Streamgages network, Cooperative Matching Funds program, and NGWOS to move water science into the 21st century.

We are happy to answer your questions or provide any additional information. Please contact any of us or Beth Callaway at the Interstate Council on Water Policy at: beth@icwp.org or (307) 772-1999.

¹ Konrad, C.P., Anderson, S.W., Restivo, D.E., and David, J.E., 2022, Network Analysis of USGS Streamflow Gages: U.S. Geological Survey data release, https://doi.org/10.5066/P9C8NYTO.

FY2024 USGS Streamgage Program Congresswoman McCollum February 28th, 2023

CC:

Appropriations Subcommittee Members Secretary of the Interior Director, Office of Management and Budget Director, US Geological Survey

Organizations Signing on to FY 2024 Streamgage Support Letter (February 28, 2023)

| Organization Organization | Signor | Title |
|--|-----------------------|--------------------------|
| Alabama Office of Water Resources | Tom Littlepage | Division Chief |
| American Fisheries Society | Dr. Douglas J. Austen | Executive Director |
| American Rivers | Ted Illston | Senior Director-Policy |
| American Society of Civil Engineers | Thomas W. Smith | Secretary & Exec. Dir. |
| American Water Resources Association | Dresden Farrand | Executive VP/CEO |
| American Water Works Association | Tracy Mehan | Exec. Dir./Gov't Affairs |
| American Whitewater | Mark Singleton | Executive Director |
| America's Watershed Initiative | Kimberly A. Lutz | Executive Director |
| Appalachian Mountain Club | Susan Arnold | Interim President & CEO |
| Association of American State Geologists | James Faulds | President |
| Association of California Water Agencies | David Reynolds | Director/Fed. Relations |
| Association of Clean Water Administrators | Mary Ann Nelson | ACWA President |
| Association of Fish & Wildlife Agencies | Kurt Thiede | Gov't Affairs Director |
| Association of Metropolitan Water Agencies | Tom Dobbins | CEO |
| Association of State Dam Safety Officials, Inc. | Lori C. Spragens | Executive Director |
| Association of State Floodplain Managers | Chad Berginnis | Executive Director |
| Bear River Commission | Don A. Barnett | Engineer-Manager |
| Big Hole Watershed Committee | Pedro Marques | Executive Director |
| Big Horn River Alliance | Anne Marie Emery | Executive Director |
| California Sportfishing Protection Alliance | Bill Jennings | Executive Director |
| Cascade Water Alliance | Ray Hoffman | CEO |
| CDM-Smith | Timothy D. Feather | Vice President |
| Cobb County-Marietta Water Authority | Cole Blackwell | General Manager |
| Colorado Lake & Reservoir Management Assn. | Caleb Owen | President |
| Colorado River Basin Salinity Control Forum | Don A. Barnett | Executive Director |
| Delaware River Basin Commission | Steven J. Tambini | Executive Director |
| Environmental Defense Fund | Steve Cochran | Assoc. VP State Affairs |
| Fly Fishers International | Patrick Berry | President & CEO |
| Freshwater Mollusk Conservation Society | Steve McMurray | President |
| Great Lakes Commission | Erika Jensen | Executive Director |
| Great Lakes Observing System | Kelli Paige | CEO |
| Henry's Fork Foundation | Brandon Hoffner | Executive Director |
| Hawaii Commission on Water Resource Management | Kaleo Manuel | Deputy Director |
| Hoopa Tribal Land Management/EPA | Ken Norton | Director |
| Hydrological Services America | Peter Ward | General Manager |
| Idaho Rivers United | Nic Nelson | Executive Director |
| Idaho Water Users Association | Paul L. Arrington | Executive Director |
| Interstate Commission on the Potomac River Basin | Michael Nardolilli | Executive Director |
| Interstate Council on Water Policy | Matt Unruh | ICWP Chair |
| Kansas-Oklahoma Arkansas River Compact Comm. | Earnie Gilder | Federal Chair |
| Kansas Water Office | Connie Owen | Director |
| KISTERS North America, Inc. | Becca Emery | Business Dev. Mgr. |
| Madison River Foundation | Jonathan Malovich | Executive Director |
| Metropolitan North Georgia Water Planning District | Katherine Zitsch | Director |

| Organization | Signor | <u>Title</u> |
|--|----------------------|------------------------|
| Missouri Department of Natural Resources | Erin Fanning | DNR Deputy Director |
| Minnesota Department of Natural Resources | Katie Smith | Director/Ecol & Water |
| Montana Department of Environmental Quality | Lindsey Krywaruchka | Water Division Admin. |
| Montana DNRC | Anna Pakenham | Admin-Water Res. Div. |
| | -Stevenson | |
| Montana Trout Unlimited | David Brooks | Executive Director |
| Montana Watershed Coordination Council | Ethan Kunard | Executive Director |
| Nat'l. Assoc. Flood & Stormwater Mgt. Agencies | Susan Gilson | Executive Director |
| National Assoc. State Boating Law Administrators | John Fetterman | Depty Exec. Director |
| National Association of Wetland Managers | Marla J. Stelk | Executive Director |
| National Audubon Society | Julie Hill-Gabriel | VP/Water Consv. |
| National Drought Mitigation Center | Dr. Mark Svoboda | Director |
| National Ground Water Association | Terry S. Morse | CAE, CIC, CEO |
| National Hydrologic Warning Council | Bruce Rindahl | President |
| National Hydropower Association | Malcolm Woolf | President and CEO |
| National Society of Professional Surveyors | Tim Burch | Executive Director |
| National Water Resources Association | Dale Nellor | Exec. Vice President |
| National Water Supply Alliance | Dave Mitamura | Executive Director |
| National Wildlife Federation | Abby Tinsley | Assoc. VP Policy/Gov't |
| Nebraska Department of Natural Resources | Thomas E. Riley | Director |
| New Engl. Interstate Water Pollution Control Comm. | Susan J. Sullivan | Executive Director |
| North American Lake Management Society | Lisa Borre | President |
| Ohio R. Valley Water Sanitation Commission | Richard Harrison | Executive Director |
| Oklahoma Water Resources Board | Julie Cunningham | Executive Director |
| Oregon Water Resources Congress | April Snell | Executive Director |
| Phycological Society of America | Eric W. Linton | President |
| Red River Compact Commission | Sue Lowry | Chairman |
| Republican River Compact Commission | Thomas E. Riley | Nebraska Commissioner |
| Rivers Alliance of Connecticut | Alicea Charamut | Executive Director |
| Society of Wetland Scientists | Loretta L. Battaglia | President |
| Southwest Kansas Groundwater Mgt District | Mark Rude | Executive Director |
| Susquehanna River Basin Commission | Drew Dehoff | Executive Director |
| Tacoma Water | Scott Dewhirst | Water Superintendent |
| The Nature Conservancy | Jimmy Hague | Sr. Water Policy Adv |
| Three Rivers QUEST | Melissa O'Neal | Associate Director |
| Tri-State Water Resource Coalition | Gail Melgren | Executive Director |
| Trout Unlimited | Kate Miller | Gov't Affairs Director |
| University of Georgia River Basin Center | Sechindra Vallury/ | Directors |
| | Seth Wegner | |
| Upper Colorado River Commission | Chuck Cullom | Exec. Director |
| Upper Mississippi River Basin Association | Kirsten Wallace | Executive Director |
| Upper Missouri Watershed Alliance | Sherry Meador | Board Chair |
| Washington State Water Resources Association | Tom Myrum | Executive Director |
| Water Environment Federation | Walter Marlowe | Executive Director |
| West Virginia Rivers Coalition | Angie Rosser | Executive Director |

| Organization | Signor | <u>Title</u> |
|--|------------------|---------------------------|
| West Virginia Water Research Institute | Paul Ziemkiewicz | Director |
| Western Landowners Alliance | Lesli Allison | Executive Director |
| Western States Water Council | Tony Willardson | Executive Director |
| Wild Salmon Center | Jessica Helsley | Gov't Affairs Director |
| Wyoming State Engineer's Office | Brandon Gebhart | State Engineer |
| Wyoming Water Association | Jodee Pring | President |
| Wyoming Water Development Office | Jason Mead | Interim Director |
| Xylem Analytics | Randy Hadland | Senior Manager |
| Yellowstone River Compact Commission | Brandon Gebhart | Commissioner |

Additional information:

The SECURE Water Act of 2009 authorized implementation of not less than 4,700 streamgage sites funded by the national streamflow information program. The total cost of a fully implemented network would have required \$130M initially and \$80M for ongoing operations and maintenance.

To-date, Congressional streamgage funding priorities have not lined up to meet this goal. The USGS is unable to complete its development for a fully implemented network as directed by Congress in 2009 without additional funding.

Why are Federal Priority Streamgage (FPS) gage data important?

Authorized by Congress in the SECURE Water Act as the National Streamflow Information Program, the FPS is meant to comprise a stable "federal backbone" network of streamgages. Data provided by FPS inform critical life and property saving information. They augment research management decisions, maintain water dependent infrastructure and provide essential public health and environmental condition information. Insufficient funding seriously compromises our national ability to address federal, state, tribal, local socioeconomic issues, including international treaty obligations.

Who uses the data and for what purpose?

State/local/tribal stakeholders: The members of our undersigned organizations rely on these streamgaging networks to ensure our national ability to address critical environmental and socio-economic issues such as:

- Forecasting extreme stream flow and water level events such as floods, droughts, and hurricanes;
- Conducting longer-term climate resilience planning such as coastal flood risk and snowpack drought;
- Performing infrastructure design, operations and capacity for facilities such as roads, bridges, high-rises, dams and coastal development;
- Meeting municipal, public and private water supply needs;
- Completing temperature and other water-quality related assessments of major rivers, lakes, reservoirs and estuaries, and other wetlands;
- Conducting energy generation and exploration;
- Oversight and implementation of many federal laws such as the SECURE Water Act,
 Clean Water Act, Safe Drinking Water Act, and Endangered Species Act;
- Compliance and implementation of interstate and international compacts, court decrees, and treaties;
- Determining environmental impacts to disadvantaged communities;

- mitigating environmental impacts to disadvantaged communities;
- Balancing competing consumptive water uses with instream flows and water level needs that are essential for sustaining aquatic, riparian and terrestrial ecosystems.

Federal stakeholders: The vital data provided by the streamgages support critical water management activities across the nation by carrying out the mission and operations of federal agencies such as the U.S. Army Corps of Engineers, NOAA, FEMA, EPA, USDA, Department of Interior, NASA, Department of Defense, Homeland Security, and others.

The utility of the network is not singular to USGS -- a recent survey conducted by the agency of 28 sister federal agencies solicited input on the importance and prioritization needs of streamgage information. The results from this survey will be shared this spring; USGS will adapt the FPS program to federal priorities to meet the responses of the survey.

Why is there a current FPS funding shortfall?

Federal Priority Streamgages: Historically, FPS cost increases have previously been covered by USGS partners, including state and other federal agencies (where gages are jointly funded) or by delaying planned network enhancements. Enhancements include, but are not limited to, cyclical upgrades to equipment and activities to flood-harden existing FPS sites.

Unfortunately, after multiple years of flat funding, the USGS reached a breaking where network enhancements could no longer be delayed and operational costs continue to increase. Operations at some streamgages have already been discontinued and more shutdowns will continue into the future unless funding shortages are addressed resulting in losses to long-term data that cannot be re-created.

Additional references:

USGS List of Threatened Gages:

https://water.usgs.gov/networks/fundingstability/

National Water Dashboard/Map of USGS Streamgages:

https://dashboard.waterdata.usgs.gov/app/nwd/?aoi=default

"U.S. Geological Survey Streamgaging Network: Overview and Issues for Congress":

https://crsreports.congress.gov/product/pdf/R/R45695

Coverage, Resolution, and Representation of Public Interests by the USGS Streamflow Monitoring Network:

https://wa.water.usgs.gov/projects/NetworkAnalysis/NetworkAnalysis index.html

Statement by Michael Connor, Bureau of Reclamation Commissioner before the Energy and Natural Resources Subcommittee on Water and Power on the implementation of the SECURE Water Act – March 16, 2010:

https://www.doi.gov/ocl/hearings/111/SECUREWaterAct 031610



April 7, 2023

The Honorable Robert Bonnie
Under Secretary for Natural Resources and Environment
USDA Natural Resources Conservation Service
1400 Independence Ave SW
Washington, D.C. 20250

Dear Mr. Bonnie:

The Upper Mississippi River Basin Association (UMRBA) works on behalf of Illinois, Iowa, Minnesota, Missouri, and Wisconsin to facilitate and foster interstate water resource planning and cooperative management in the Upper Mississippi River basin. UMRBA serves as the interstate water quality entity. On behalf of the UMRBA Water Quality Executive Committee, I am pleased to provide comments about the implementation of the Mississippi River Basin Healthy Watersheds Initiative (MRBI) and the National Water Quality Initiative (NWQI). Both MRBI and NWQI are vitally important programs that address water quality and natural resource concerns in the Upper Mississippi River basin. UMRBA appreciates that the Natural Resource Conservation Service (NRCS) is working to increase efficiencies in the programs and expand access to underserved communities and producers.

The following comments are organized below by questions NRCS provided on the Federal Register.

1) How should NRCS improve the effectiveness of MRBI and NWQI when addressing water quality concerns?

- Streamline financial assistance processes to remove barriers for landowners to implement conservation practices. For example, if conservation practices are identified as part of a watershed plan for MRBI and NWQI to address the resource concerns, then planning steps to implement those practices can be reduced.
- Structure incentives to factor in the benefits to both the watershed(s) and the landowner(s). An example is a practice that reduces income from less crop production or leads to less opportunity costs has a higher incentive compared to a practice that provides economic benefits to the applicant. Another example is to increase the cost share match for more costly structural practices that may have larger impacts on water quality.
- Increase opportunities for non-NRCS partners to engage and provide technical assistance in MRBI and NWQI projects. This can reduce personnel requirements of NRCS staff to implement the program(s).
- Understand i) factors that lead to successful implementation MRBI and NWQI (quantity of projects and delisting impaired waterbodies) and where there is opportunity for increasing

7831 East Bush Lake Road, Ste 302 Bloomington, MN 55439 651-224-2880 www.umrba.org more projects and ii) barriers to MRBI and NWQI applications — e.g., staffing needs, connections with states, and participation in MRBI and NWQI.

- 2) To effectively deliver water quality improvement and protection, MRBI and NWQI require watershed assessments to guide conservation assistance. How should NRCS improve the watershed assessment process to target delivery of conservation assistance achieved through MRBI and NWQI?
 - Continue to provide support for the planning phases to ensure implementation plans address resource concerns and prioritize locations for practices to help minimize these concerns. Ensure flexibility to project sponsors for watershed plans accepted by NRCS. The Agriculture Conservation Planning Framework and similar tools are good options to provide high level assessments and to prioritize practices based on these assessment-based conditions within a given watershed. However, on the ground practitioners are still vital to ensure practices meet requirements for implementation.
 - Utilize ArcGIS online mapping tools to support the annual project submittal process and outreach activities throughout the various phases of MRBI and NWQI. Suggested ArcGIS layers include state nutrient reduction strategy priority watersheds (applicable to the 12 Hypoxia Task Force states), MRBI and NWQI watersheds, Section 319 watersheds, and waterbodies on the Section 303(d) and 305(b) lists.
 - Utilize existing plans and programming at the state and local level to propose MRBI and NWQI watersheds to help increase implementation successes. In the State of Wisconsin, examples include nine key element plans, producer-led watershed groups, and demonstration farm networks.
 - Align NWQI watershed assessments with USEPA's nine elements for watershed-based plans. This could allow for a single assessment or plan to make a watershed eligible for multiple federal funding sources.
 - Provide resources for new NRCS staff and partners to understand the process of submitting watersheds for consideration for MRBI and NWQI – e.g., training materials.
 - Streamline training opportunities for state level NRCS staff to provide technical assistance in the planning phases of MRBI and NWQI. Potential tools include Agriculture Conservation Planning Framework and Operational Tillage Information System.
- 3) How can NRCS ensure that MRBI and NWQI provide the benefits of water quality conservation to disadvantaged communities and underserved producers?
 - Utilize existing assessment tools to identify disadvantaged communities and USDA resources for identifying underserved producers e.g., EJ Screen. The identified communities can be overlain on ArcGIS with locations eligible for MRBI and NWQI projects.
 - Provide outreach to disadvantaged communities and underserved producers on the opportunities and process for developing projects under MRBI and NWQI.
 - Streamline the enrollment process and increase financial assistance for disadvantaged communities and underserved producers.

- 4) Under the Clean Water Act, water quality impairments have been removed from many water bodies in MRBI and NWQI watersheds, and in-stream monitoring in many NWQI watersheds has shown improvements related to agricultural conservation. How should NRCS improve and potentially expand the metrics for the measurement of outcomes targeted and achieved through MRBI and NWQI?
 - Layer in metrics for climate resilience e.g., greenhouse gas reduction and carbon sequestration.
 - Provide annual and final updates to MRBI and NWQI sponsors of the implementation status of the project(s) and other USDA program financial assistance in the project area.

Thank you for the opportunity to provide comments. Please contact me at 651-224-2880 or kwallace@umrba.org if you have questions or would like to discuss UMRBA's comments in further detail.

Sincerely,

Kirsten Wallace Executive Director

Upper Mississippi River Basin Association

Ratlan

cc: Martin Lownefish, NRCS Areawide Planning Branch Chief UMRBA Water Quality Executive Committee

Natalie Lenzen

From: Tidemann, Jason (DNR) <jason.tidemann@state.mn.us>

Sent: Friday, May 5, 2023 8:08 AM

To: Natalie Lenzen

Subject: UMRBA January 1 - March 31 Treasurer Report

Hello Kirsten,

As Treasurer, I have reviewed the monthly financial statements for the period 1/1/23-3/31/23. Activity reported on the Balance Sheet, Profit/Loss Budget Overview, Check Register, Visa statements and Open Invoices Report provide a reasonable and consistent representation of the monthly financial activity for the referenced period.

Jason Tidemann

From: Natalie Lenzen < nlenzen@umrba.org>

Sent: Thursday, May 4, 2023 9:49 AM

To: Tidemann, Jason (DNR) < <u>jason.tidemann@state.mn.us</u>> Subject: UMRBA January 1 - March 31 Treasurer Report

This message may be from an external email source.

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Jason -

I would like to request your statement of review of our January 2023 through March 2023 financials for the Treasurer's report in the May 23, 2023 UMRBA Board meeting packet.

Please let me know if you have any questions or need any further information.

Thank you, Natalie

Natalie Lenzen

Operations Manager | Upper Mississippi River Basin Association (UMRBA) 7831 E. Bush Lake Rd., Suite 302, Bloomington, MN 55439 nlenzen@umrba.org | 651-224-2880 (office)

Find us online at www.umrba.org or Facebook

7:33 PM 05/09/23 **Accrual Basis**

Upper Mississippi River Basin Association FY 2023 Profit & Loss Budget Overview July 2022 through June 2023

| | Jul '22 - Jun 23 | Budget | \$ Over Budget |
|-----------------------------------|------------------|------------|----------------|
| Ordinary Income/Expense | | | |
| Income | | | |
| Contracts and Grants | | | |
| NESP | 0.00 | 1.00 | -1.00 |
| USEPA NRS Workshops | 56,731.59 | 82,000.00 | -25,268.41 |
| COE (UMRR) | 47,514.73 | 85,716.60 | -38,201.87 |
| COE (RTC) | 33,500.00 | 33,500.00 | 0.00 |
| EPA (OPA) | 170,512.43 | 240,000.00 | -69,487.57 |
| Interstate WQ Pilot | 2,641.40 | 2,640.00 | 1.40 |
| Total Contracts and Grants | 310,900.15 | 443,857.60 | -132,957.45 |
| State Dues | | | |
| Illinois Dues | 63,500.00 | 63,500.00 | 0.00 |
| Iowa Dues | 63,500.00 | 63,500.00 | 0.00 |
| Minnesota Dues | 63,500.00 | 63,500.00 | 0.00 |
| Missouri Dues | 63,500.00 | 63,500.00 | 0.00 |
| Wisconsin Dues | 63,500.00 | 63,500.00 | 0.00 |
| WQ Assessment | 102,500.00 | 102,500.00 | 0.00 |
| Total State Dues | 420,000.00 | 420,000.00 | 0.00 |
| Interest Income | | | |
| Short Term Interest | | | |
| Short Term (Checking) | 2,264.78 | 4,800.00 | -2,535.22 |
| Short Term (Savings) | 405.56 | 400.00 | 5.56 |
| Short Term (Sweep) | 1,683.41 | 3,000.00 | -1,316.59 |
| Short Term (CD) | 0.00 | 4,000.00 | -4,000.00 |
| Total Short Term Interest | 4,353.75 | 12,200.00 | -7,846.25 |
| Total Interest Income | 4,760.44 | 12,200.00 | -7,439.56 |
| Total Income | 736,320.59 | 876,057.60 | -139,737.01 |
| Gross Profit | 736,320.59 | 876,057.60 | -139,737.01 |
| Expense | | | |
| Benefits Administration | 759.00 | 1,000.00 | -241.00 |
| USEPA NRS Workshops | | | |
| Meeting Expenses | 5,081.03 | 40,000.00 | -34,918.97 |
| Communications | 21,558.28 | 3,900.00 | 17,658.28 |
| Supplies | 0.00 | 100.00 | -100.00 |
| Travel Assistance | 4,851.85 | 10,000.00 | -5,148.15 |
| Travel | 2,745.33 | 4,700.00 | -1,954.67 |
| Total USEPA NRS Workshops | 34,236.49 | 58,700.00 | -24,463.51 |
| Gross Payroll | 00.1 -00 | 470.000.00 | /a= a / = = = |
| Salary | 334,783.30 | 470,000.00 | -135,216.70 |
| UMRBA Time Wages | 1.75 | 0.00 | 1.75 |
| OPA Wages | 70,154.07 | 0.00 | 70,154.07 |
| Benefits | 86,911.15 | 125,000.00 | -38,088.85 |
| Benefits OPA | 3,372.24 | 0.00 | 3,372.24 |
| Total Gross Payroll | 495,222.51 | 595,000.00 | -99,777.49 |
| Payroll Expenses | | | |
| SocSec Company | 30,703.80 | 36,890.00 | -6,186.20 |
| Medicare Company | 7,506.22 | 8,627.50 | -1,121.28 |
| SUTA (Minnesota UC) | 529.20 | 297.50 | 231.70 |
| | B-24 | | F |

age 1

7:33 PM 05/09/23 **Accrual Basis**

Upper Mississippi River Basin Association FY 2023 Profit & Loss Budget Overview July 2022 through June 2023

| | Jul '22 - Jun 23 | Budget | \$ Over Budget |
|--|---|---|---|
| Workforce Enhancement Fee | 306.29 | 297.50 | 8.79 |
| Total Payroll Expenses | 39,045.51 | 46,112.50 | -7,066.99 |
| Travel Space Rental | 34,715.78 | 40,000.00 | -5,284.22 |
| Office Rental | 46,460.21 | 53,000.00 | -6,539.79 |
| Total Space Rental | 46,460.21 | 53,000.00 | -6,539.79 |
| Reproduction Copy Service | 322.58 | 600.00 | -277.42 |
| Total Reproduction | 322.58 | 600.00 | -277.42 |
| Meeting Expenses Supplies Equipment | 25,167.67 766.37 | 30,000.00 1,500.00 | -4,832.33 -733.63 |
| Equipment (Maint./Rental) | 864.76 | 1,000.00 | -135.24 |
| Total Equipment | 3,587.13 | 1,000.00 | 2,587.13 |
| Legal and Financial Insurance Legal and Tax Services Bank Charges | 4,290.55 12,870.00 69.00 | 6,200.00 15,000.00 70.00 | -1,909.45 -2,130.00 -1.00 |
| Total Legal and Financial | 17,229.55 | 21,270.00 | -4,040.45 |
| Telephone/Communications Postage Other Services Communications/Publications State Travel Reimbursement Illinois Iowa Minnesota | 7,127.95 119.89 8,281.31 20,061.00 420.54 2,851.19 0.00 | 8,000.00 300.00 6,000.00 35,000.00 5,000.00 5,000.00 | -872.05 -180.11 2,281.31 -14,939.00 -4,579.46 -2,148.81 -5,000.00 |
| Missouri Wisconsin State WQ Travel | 0.00 0.00 0.00 | 5,000.00 5,000.00 3,500.00 | -5,000.00 -5,000.00 -3,500.00 |
| Total State Travel Reimbursem | 3,271.73 | 28,500.00 | -25,228.27 |
| OPA Expenses Equipment OPA Equipment (Maint./Rental) O Travel OPA Other OPA | 0.00 5,611.98 2,430.29 0.00 | 1,000.00 6,500.00 2,000.00 50.00 | -1,000.00 -888.02 430.29 -50.00 |
| Total OPA Expenses | 8,042.27 | 9,550.00 | -1,507.73 |
| Interstate WQ Expenses Other Interstate WQ | 150.00 | 0.00 | 150.00 |
| Total Interstate WQ Expenses | 150.00 | 0.00 | 150.00 |
| Total Expense | 744,566.95 | 935,532.50 | -190,965.55 |
| Net Ordinary Income | -8,246.36 | -59,474.90 | 51,228.54 |
| Net Income | -8,246.36 | -59,474.90 | 51,228.54 |

Upper Mississippi River Basin Association Balance Sheet

As of May 9, 2023

| | May 9, 23 |
|---|---|
| ASSETS | |
| Current Assets Checking/Savings | |
| Checking HT 2732 Investment | 189,851.85 |
| Sweep HT 5401 CD | 223,161.03 407,100.42 |
| Total Investment | 630,261.45 |
| Total Checking/Savings | 820,113.30 |
| Other Current Assets Prepaid Expense Office Rental Prepaid Expense Prepaid Expense - Other | 8,244.10 8.00 |
| Total Prepaid Expense | 8,252.10 |
| Total Other Current Assets | 8,252.10 |
| Total Current Assets | 828,365.40 |
| Fixed Assets Accum. Deprec. UMRBA Accum. Deprec. OPA Accum. Deprec. WQ Accum. Deprec. 604(b) Accum. Deprec. STC UMRBA Equipment OPA Equipment WQ Equipment 604(b) Equipment STC Equipment | -31,613.35 -21,703.53 -1,290.00 -568.95 -2,989.68 34,524.70 21,705.26 1,290.47 568.95 4,332.67 |
| Total Fixed Assets | 4,256.54 |
| TOTAL ASSETS | 832,621.94 |
| TOTAL ASSETS | |
| LIABILITIES & EQUITY Liabilities Current Liabilities Credit Cards Visa Chase 5294 | 2,733.56 |
| LIABILITIES & EQUITY Liabilities Current Liabilities Credit Cards | 2,733.56 2,733.56 |
| LIABILITIES & EQUITY Liabilities Current Liabilities Credit Cards Visa Chase 5294 | |
| LIABILITIES & EQUITY Liabilities Current Liabilities Credit Cards Visa Chase 5294 Total Credit Cards Other Current Liabilities Deferred MO DoC (WLM) Revenue Office Expense Liabilities | 2,733.56 4,206.05 |
| LIABILITIES & EQUITY Liabilities Current Liabilities Credit Cards Visa Chase 5294 Total Credit Cards Other Current Liabilities Deferred MO DoC (WLM) Revenue Office Expense Liabilities Travel Expense | 2,733.56 4,206.05 1,619.60 |
| LIABILITIES & EQUITY Liabilities Current Liabilities Credit Cards Visa Chase 5294 Total Credit Cards Other Current Liabilities Deferred MO DoC (WLM) Revenue Office Expense Liabilities Travel Expense Total Office Expense Liabilities Payroll Liabilities SUTA (Minnesota UC) Workforce Enhancement Fee Accrued Vacation | 2,733.56 4,206.05 1,619.60 1,619.60 -0.42 280.67 45,786.20 |
| LIABILITIES & EQUITY Liabilities Current Liabilities Credit Cards Visa Chase 5294 Total Credit Cards Other Current Liabilities Deferred MO DoC (WLM) Revenue Office Expense Liabilities Travel Expense Total Office Expense Liabilities Payroll Liabilities SUTA (Minnesota UC) Workforce Enhancement Fee Accrued Vacation Accrued Vacation FICA | 2,733.56 4,206.05 1,619.60 1,619.60 -0.42 280.67 45,786.20 3,502.65 |
| LIABILITIES & EQUITY Liabilities Current Liabilities Credit Cards Visa Chase 5294 Total Credit Cards Other Current Liabilities Deferred MO DoC (WLM) Revenue Office Expense Liabilities Travel Expense Total Office Expense Liabilities Payroll Liabilities SUTA (Minnesota UC) Workforce Enhancement Fee Accrued Vacation Accrued Vacation FICA Total Payroll Liabilities | 2,733.56 4,206.05 1,619.60 1,619.60 -0.42 280.67 45,786.20 3,502.65 49,569.10 |
| LIABILITIES & EQUITY Liabilities Current Liabilities Credit Cards Visa Chase 5294 Total Credit Cards Other Current Liabilities Deferred MO DoC (WLM) Revenue Office Expense Liabilities Travel Expense Total Office Expense Liabilities Payroll Liabilities Payroll Liabilities SUTA (Minnesota UC) Workforce Enhancement Fee Accrued Vacation Accrued Vacation FICA Total Payroll Liabilities Total Other Current Liabilities | 2,733.56 4,206.05 1,619.60 1,619.60 -0.42 280.67 45,786.20 3,502.65 49,569.10 55,394.75 |

Page 1

7:31 PM 05/09/23 Accrual Basis

Upper Mississippi River Basin Association Balance Sheet As of May 9, 2023

May 9, 23
-8,246.36
774,493.63

 Total Equity
 774,493.63

 TOTAL LIABILITIES & EQUITY
 832,621.94

Net Income

ATTACHMENT C

Cooperative Institute for Research to Operations in Hydrology (CIROH)

- CIROH general information website: https://ciroh.ua.edu/
- University of Alabama Awarded CIROH Administration News Announcement (4/6/2022): https://news.ua.edu/2022/04/ua-awarded-360-million-to-lead-national-water-effort/
- Upper Mississippi River Basin Consortium Members:
 - University of lowa:
 - Membership News Announcement (4/6/2022):
 https://now.uiowa.edu/2022/04/university-iowa-key-partner-360m-national-water-consortium
 - Center for Hydrologic Development (2/1/2023): https://engineering.uiowa.edu/news-all/2023/02/ui-expands-national-reach-new-center-hydrologic-development
 - University of Minnesota Institute on the Environment Membership News (4/12/2022): https://twin-cities.umn.edu/news-events/umn-included-national-partnership-improve-water-management
 - University of Illinois Partner News Announcement (4/7/2022): https://cee.illinois.edu/news/new-institute-will-work-improve-

nttps://cee.iiinois.edu/news/new-institute-wiii-work-improve-prediction-water-related-hazards

ATTACHMENT D Additional Items • Future Meeting Schedule (D-1) • Frequently Used Acronyms (4-29-2022) (D-2 to D-8)

QUARTERLY MEETINGS FUTURE MEETING SCHEDULE

August 8 August 9 La Crosse, WI August 8 UMRBA Quarterly Meeting UMRR Coordinating Committee Quarterly Meeting

OCTOBER 2023

St. Louis, MO

October 24 UMRBA Quarterly Meeting

October 25 UMRR Coordinating Committee Quarterly Meeting

Acronyms Frequently Used on the Upper Mississippi River System

AAR After Action Report

A&E Architecture and Engineering

ACRCC Asian Carp Regional Coordinating Committee

AFB Alternative Formulation Briefing
AHAG Aquatic Habitat Appraisal Guide
AHRI American Heritage Rivers Initiative

AIS Aquatic Invasive Species
ALC American Lands Conservancy
ALDU Aquatic Life Designated Use(s)

AM Adaptive Management
ANS Aquatic Nuisance Species

AP Advisory Panel

APE Additional Program Element

ARRA American Recovery and Reinvestment Act
ASA(CW) Assistant Secretary of the Army for Civil Works

A-Team Analysis Team

ATR Agency Technical Review
AWI America's Watershed Initiative
AWO American Waterways Operators

AWOMN Ambient Water Quality Monitoring Network

BA Biological Assessment

BATIC Build America Transportation Investment Center

BCOES Bid-ability, Constructability, Operability, Environmental, Sustainability

BCR Benefit-Cost Ratio

BMPs Best Management Practices

BO Biological Opinion

CAP Continuing Authorities Program
CAWS Chicago Area Waterways System
CCC Commodity Credit Corporation
CCP Comprehensive Conservation Plan

CEICA Cost Effectiveness Incremental Cost Analysis

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CEQ Council on Environmental Quality
CFR Code of Federal Regulations
CFS Cubic Feet Per Second
CG Construction General

CIA Computerized Inventory and Analysis
CMMP Channel Maintenance Management Plan

COE Corps of Engineers
COPT Captain of the Port
CPUE Catch Per Unit Effort

CRA Continuing Resolution Authority

CREP Conservation Reserve Enhancement Program

CRP Conservation Reserve Program

CSP Conservation Security Program
CUA Cooperative Use Agreement

CWA Clean Water Act
CY Cubic Yards

DALS Department of Agriculture and Land Stewardship

DED Department of Economic Development

DEM Digital Elevation Model
DET District Ecological Team

DEWS Drought Early Warning System
DMMP Dredged Material Management Plan
DNR Department of Natural Resources

DO Dissolved Oxygen

DOA Department of Agriculture
DOC Department of Conservation

DOER Dredging Operations and Environmental Research

DOT Department of Transportation

DPR Definite Project Report

DQC District Quality Control/Quality Assurance

DSS Decision Support System
EA Environmental Assessment

ECC Economics Coordinating Committee
EEC Essential Ecosystem Characteristic
EIS Environmental Impact Statement

EMAP Environmental Monitoring and Assessment Program

EMAP-GRE Environmental Monitoring and Assessment Program-Great Rivers Ecosystem
EMP Environmental Management Program [Note: Former name of Upper Mississippi

River Restoration Program.]

EMP-CC Environmental Management Program Coordinating Committee

EO Executive Order

EPA Environmental Protection Agency
EPM Environmental Pool Management

EPR External Peer Review

EQIP Environmental Quality Incentives Program

ER Engineering Regulation

ERDC Engineering Research & Development Center

ESA Endangered Species Act

EWMN Early Warning Monitoring Network

EWP Emergency Watershed Protection Program

FACA Federal Advisory Committee Act

FEMA Federal Emergency Management Agency
FERC Federal Energy Regulatory Commission

FDR Flood Damage Reduction FFS Flow Frequency Study

FMG Forest Management Geodatabase FONSI Finding of No Significant Impact

FRM Flood Risk Management

FRST Floodplain Restoration System Team

FSA Farm Services Agency FTE Full Time Equivalent

FWCA Fish & Wildlife Coordination Act

FWIC Fish and Wildlife Interagency Committee

FWS Fish and Wildlife Service FWWG Fish and Wildlife Work Group

FY Fiscal Year

GAO Government Accountability Office

GEIS Generic Environmental Impact Statement

GI General Investigations

GIS Geographic Information System
GLC Governors Liaison Committee
GLC Great Lakes Commission

GLMRIS Great Lakes and Mississippi River Interbasin Study

GPS Global Positioning System

GREAT Great River Environmental Action Team

GRP Geographic Response Plan
H&H Hydrology and Hydraulics
HAB Harmful Algal Bloom

HEC-EFM Hydrologic Engineering Center Ecosystems Function Model
HEC-RAS Hydrologic Engineering Center River Analysis System

HEL Highly Erodible Land

HEP Habitat Evaluation Procedure HNA Habitat Needs Assessment

HPSF HREP Planning and Sequencing Framework

HQUSACE Headquarters, USACE H.R. House of Representatives

HREP Habitat Rehabilitation and Enhancement Project

HSI Habitat Suitability Index

HU Habitat Unit

HUC Hydrologic Unit Code
IBA Important Bird Area

IBI Index of Biological (Biotic) Integrity

IC Incident Commander
ICS Incident Command System

ICWP Interstate Council on Water Policy
IDIQ Indefinite Delivery/Indefinite Quantity
IEPR Independent External Peer Review
IGE Independent Government Estimate
IIA Implementation Issues Assessment

IIFO Illinois-Iowa Field Office (formerly RIFO - Rock Island Field Office)

ILP Integrated License Process

IMTS Inland Marine Transportation System

IPR In-Progress Review

IRCC Illinois River Coordinating Council

IRPT Inland Rivers, Ports & Terminals **IRTC** Implementation Report to Congress

IRWG Illinois River Work Group Inland Sensitivity Atlas **ISA**

IWR Institute for Water Resources

IWRM Integrated Water Resources Management

IWS Integrated Water Science Inland Waterways Trust Fund **IWTF IWUB** Inland Waterways Users Board

IWW Illinois Waterway L&D Lock(s) and Dam LC/LU Land Cover/Land Use LDB Left Descending Bank

LERRD Lands, Easements, Rights-of-Way, Relocation of Utilities or Other Existing

Structures, and Disposal Areas

LiDAR Light Detection and Ranging **LMR** Lower Mississippi River

LMRCC Lower Mississippi River Conservation Committee

LOI Letter of Intent

LTRM Long Term Resource Monitoring

M-35Marine Highway 35

MAFC Mid-America Freight Coalition U.S. Maritime Administration **MARAD**

MARC 2000 Midwest Area River Coalition 2000 Mussel Community Assessment Tool **MCAT**

MICRA Mississippi Interstate Cooperative Resource Association

MDM Major subordinate command Decision Milestone **MIPR** Military Interdepartmental Purchase Request

MMR Middle Mississippi River

MMRP Middle Mississippi River Partnership **MNRG** Midwest Natural Resources Group

MOA Memorandum of Agreement

Missouri River Association of States and Tribes **MoRAST**

MOU Memorandum of Understanding

MRAPS Missouri River Authorized Purposes Study

MRBI Mississippi River Basin (Healthy Watersheds) Initiative

MRC Mississippi River Commission

MRCC Mississippi River Connections Collaborative Mississippi River Cities and Towns Initiative **MRCTI MRRC** Mississippi River Research Consortium Mississippi River and Tributaries (project) MR&T

MSP Minimum Sustainable Program Mississippi Valley Division **MVD**

MVP St. Paul District Rock Island District **MVR** MVS St. Louis District

NAS National Academies of Science NAWQA National Water Quality Assessment

NCP National Contingency Plan

NIDIS National Integrated Drought Information System (NOAA)

NEBA Net Environmental Benefit Analysis

NECC Navigation Environmental Coordination Committee

NED National Economic Development NEPA National Environmental Policy Act

NESP Navigation and Ecosystem Sustainability Program
NETS Navigation Economic Technologies Program

NGO Non-Governmental Organization

NGRREC National Great Rivers Research and Education Center

NGWOS Next Generation Water Observing System
NICC Navigation Interests Coordinating Committee
NPDES National Pollution Discharge Elimination System

NPS Non-Point Source
NPS National Park Service
NRC National Research Council

NRCS Natural Resources Conservation Service

NRDAR Natural Resources Damage Assessment and Restoration

NRT National Response Team

NSIP National Streamflow Information Program

NWI National Wetlands Inventory
 NWR National Wildlife Refuge
 O&M Operation and Maintenance
 OHWM Ordinary High Water Mark

OMB Office of Management and Budget

OMRR&R Operation, Maintenance, Repair, Rehabilitation, and Replacement

OPA Oil Pollution Act of 1990

ORSANCO Ohio River Valley Water Sanitation Commission

On-Scene Coordinator **OSC OSE** Other Social Effects **OSIT** On Site Inspection Team P3 **Public-Private Partnerships** PA Programmatic Agreement Planning Assistance to States PAS P&G Principles and Guidelines P&R Principles and Requirements P&S Plans and Specifications P&S Principles and Standards **PCA** Pollution Control Agency

PCA Project Cooperation Agreement
PCX Planning Center of Expertise

PDT Project Delivery Team

PED Preconstruction Engineering and Design

PgMP Program Management Plan

PILT Payments In Lieu of Taxes
PIR Project Implementation Report

PL Public Law

PMP Project Management Plan PORT Public Outreach Team

PPA Project Partnership Agreement

PPT Program Planning Team

QA/QC Quality Assurance/Quality Control

RCRA Resource Conservation and Recovery Act

RCP Regional Contingency Plan

RCPP Regional Conservation Partnership Program

RDB Right Descending Bank

RED Regional Economic Development

RIFO Rock Island Field Office (now IIFO - Illinois-Iowa Field Office)

RM River Mile

RP Responsible Party

RPEDN Regional Planning and Environment Division North

RPT Reach Planning Team

RRAT River Resources Action Team

RRCT River Resources Coordinating Team

RRF River Resources Forum
RRT Regional Response Team
RST Regional Support Team
RTC Report to Congress

S. Senate

SAV Submersed Aquatic Vegetation SDWA Safe Drinking Water Act

SEMA State Emergency Management Agency

SET System Ecological Team

SMART Specific, Measurable, Attainable, Risk Informed, Timely

SONS Spill of National Significance

SOW Scope of Work

SRF State Revolving Fund

SWCD Soil and Water Conservation District

T&E Threatened and Endangered TEUs twenty-foot equivalent units

TIGER Transportation Investment Generating Economic Recovery

TLP Traditional License Process
TMDL Total Maximum Daily Load
TNC The Nature Conservancy
TSP Tentatively selected plan
TSS Total Suspended Solids
TVA Tennessee Valley Authority
TWG Technical Work Group

UMESC Upper Midwest Environmental Sciences Center

UMIMRA Upper Mississippi, Illinois, and Missouri Rivers Association

UMR Upper Mississippi River

UMRBA Upper Mississippi River Basin Association UMRBC Upper Mississippi River Basin Commission

UMRCC Upper Mississippi River Conservation Committee
UMRCP Upper Mississippi River Comprehensive Plan
UMR-IWW Upper Mississippi River-Illinois Waterway

UMRNWFR Upper Mississippi River National Wildlife and Fish Refuge

UMRR Upper Mississippi River Restoration Program [Note: Formerly known as

Environmental Management Program.]

UMRR CC Upper Mississippi River Restoration Program Coordinating Committee

UMRS Upper Mississippi River System

UMWA Upper Mississippi Waterway Association

USACE U.S. Army Corps of Engineers

USCG U.S. Coast Guard

USDA U.S. Department of Agriculture USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey VTC Video Teleconference WCI Waterways Council, Inc.

WES Waterways Experiment Station (replaced by ERDC)

WHAG Wildlife Habitat Appraisal Guide
WHIP Wildlife Habitat Incentives Program

WIIN Water Infrastructure Improvements for the Nation Act

WLM Water Level Management

WLMTF Water Level Management Task Force

WQ Water Quality

WQEC Water Quality Executive Committee

WQTF Water Quality Task Force WQS Water Quality Standard

WRDA Water Resources Development Act

WRP Wetlands Reserve Program

WRRDA Water Resources Reform and Development Act