

Proposal to provide
Engineering consulting services



Submitted by Barr Engineering Co.
July 27, 2023

The logo for Barr Engineering Co., consisting of the word "BARR" in a bold, white, sans-serif font, set against a solid blue rectangular background.

July 27, 2023

Mr. Joe Barten
Lower Mississippi River Watershed Management Organization
Dakota County Soil and Water Conservation District
4100 220th Street West, Suite 102
Farmington, Minnesota 55024

Re: Proposal to provide engineering consulting services

Dear Mr. Barten and managers:

Barr Engineering Co. is pleased to submit our proposal to the Lower Mississippi River Watershed Management Organization (LMRWMO) for engineering consulting services. We have assisted the LMRWMO since 1987, giving us a thorough understanding of your watershed's history and physical environment as well as the unique challenges and opportunities posed to your organization. We look forward to continuing to provide the technical expertise and assistance you need to achieve your goals and successfully implement your recently adopted 2023 watershed management plan. Some of the benefits of working with Barr include:

Commitment to working with you for the long haul. Having served the LMRWMO for more than 30 years, our team understands your organization's approach to watershed management as well as your expectations. We have observed the evolution of the LMRWMO and your priorities, which were most recently documented in the development of your 2023 watershed management plan. We are committed to providing you with cost-effective and quality service from a core team that has served you for more than 10 years, which means that you can count on continuity of team members and a commitment to getting the work done right the first time, on schedule, and within budget. The dedication of our core team to your organization will continue to provide continuity during board transitions.

Multidisciplinary team with a wide breadth of knowledge to address any of your challenges. With over 1,000 engineers, scientists, and technical experts company-wide, we have the expertise and capacity to solve your most challenging problems, both in terms of size and complexity. We can draw from a variety of disciplines, and our depth and breadth of staff is unmatched locally, allowing you to easily access additional personnel should your projects require it.

Focus on tailored solutions. We approach your projects with consideration for your specific organizational goals, objectives, and responsibilities, which leads to solutions tailored to your challenges. We specialize in customizing our project approach and project team—solving your problems as if they were our own—to provide solutions that meet your specific needs.

Credibility. We have worked hard to establish a reputation as experts in water resources management, and the LMRWMO can benefit from Barr's experience. Our continued watershed management work throughout the state and our strong working relationship with governmental agencies (such as the Minnesota Board of Water and Soil Resources, Minnesota Pollution Control Agency, Metropolitan Council, and Minnesota Department of Natural Resources) can also benefit the LMRWMO by allowing our core

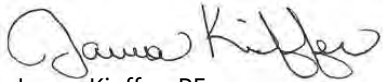
team to keep abreast of current grant opportunities, changing regulatory programs, management trends, and evolving water resource issues.

Stakeholder engagement and consensus building. We understand that engaging stakeholders and building consensus are critical to gaining project buy-in, building community capacity to practice water resources stewardship, and implementing solutions supported by all partners. Barr works hard to design and facilitate meaningful stakeholder involvement seeking all voices, confirming that accurate information is shared openly and that opportunities exist for a true exchange of ideas to address stakeholder needs, build consent, and establish trust. Our efforts often include working closely with watershed managers, cities, counties, regulators, and state and federal agencies as well as residents and lake associations.

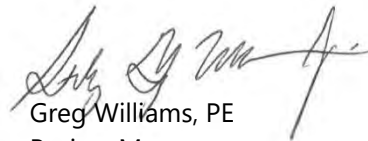
Pursuing grant opportunities. Our staff is experienced in applying for and securing grant funding for organizations like yours to implement your projects and programs, such as those secured for water quality improvements to Lake Augusta and Sunfish Lake, Thompson Lake, and Cherokee Heights ravine. We will continue to track and report possible grant funding options and can assist with grant applications for watershed and stormwater management, stream and ravine stabilization, flood control, ecological restoration, and brownfields redevelopment. With the transition to Watershed-based Implementation Funding, we will continue to assist your organization and partners in putting forward competitive, high-value projects for selection.

We appreciate the opportunity to share our qualifications and look forward to continuing to serve as your engineering consultant. If you have any questions, please feel free contact us.

Sincerely,



Janna Kieffer, PE
Vice President, Principal in Charge
952-832-2785
jkieffer@barr.com



Greg Williams, PE
Project Manager
952-832-2945
gwilliams@barr.com

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About Barr

Barr's roots began with Adolph Meyer, a renowned hydrologist of the early 20th century. Doug Barr began work with Mr. Meyer in the 1950s and built a practice of his own while learning from this skilled hydrologist. By the time the company was incorporated as an employee-owned firm in 1966, it had 16 employees. Today, Barr Engineering Co. has over 1,000 employees located in Minnesota, North Dakota, Missouri, Michigan, Utah, Colorado, Nevada, Saskatchewan, and Alberta.

Our commitment to water resources remains strong. More than 100 of our Minneapolis-based engineers and scientists are engaged in water resources engineering and design, stormwater management, wetland management, limnology, and landscape ecology. Our breadth and depth of experience means we can provide an innovative solution to any water resources challenge we encounter.

Strong commitment to watershed management organizations

Since the early 1960s, we have worked with more than 20 watershed management organizations and have served several of them continuously for more than 40 years. This gives us an in-depth understanding of the challenges watershed organizations face and has enabled us to be at the forefront of innovation in water resource management. We have honed our expertise in the areas of:

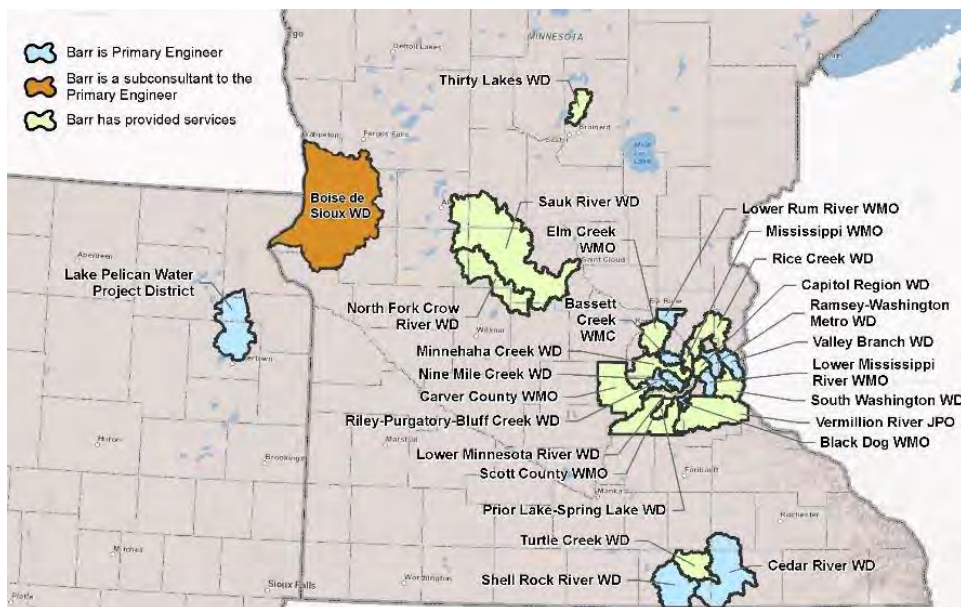
- Watershed planning
- Public involvement and stakeholder engagement
- Surface water quality, including water chemistry, aquatic plants, fisheries, invasive species, and total maximum daily loads (TMDLs)
- Stream management and restoration
- Stormwater management, including traditional and non-traditional best management practices (BMPs), low-impact development, rate and volume modeling, and permit review
- Water level, flood risk, and floodplain management, including policy, feasibility studies, and climate resiliency
- Groundwater management
- Wetland management, including Minnesota Wetland Conservation Act and other state and federal regulations
- Erosion prevention and sediment control
- Feasibility studies and capital improvements
- Funding assistance and grant administration



We currently serve as primary consultant (*) or as part of a select consultant pool for the following watershed management organizations: (The dates in parentheses indicate when we began working with each.)

- Nine Mile Creek Watershed District (1960)*
- Bassett Creek Watershed Management Organization (1969)*
- Valley Branch Watershed District (1969)*
- Riley-Purgatory-Bluff Creek Watershed District (1969)*
- Ramsey-Washington Metro Watershed District (1975)*
- Lower Mississippi River Watershed Management Organization (1987)*
- Lower Rum River Water Management Organization (1987)*
- Sauk River Watershed District (1990)
- Black Dog Watershed Management Organization (1996)*
- Lake Pelican Water Project District (1998)*
- Capitol Region Watershed District (2000)
- Cedar River Watershed District (2007)
- Shell Rock River Watershed District (2008)

We also provide services to many other water management organizations, as illustrated in the following map.



Barr and LMRWMO

Barr has served as engineer for the LMRWMO since 1987. During the past 36 years, we have helped your organization address flooding, water quality, intercommunity stormwater drainage, and planning issues. We understand that you rely on Barr as a trusted advisor to provide the managers with information and interpretation necessary to make good resource-management decisions. We also understand that, as a joint powers organization, cooperative relationships with your member cities and partners are critical to efficiently achieving your goals. As your engineer, our staff members assist the administrator in promoting a collaborative atmosphere for discussion while maintaining a clear understanding of your goals and priorities.

Over the past decade in particular, we have appreciated the opportunity to assist the LMRWMO in leveraging increased public funding to address major water quality issues. We look forward to maintaining and strengthening our relationship as resource issues, stakeholder priorities, regulatory environments, and funding sources continue to evolve.

Key Barr team members

Barr uses a team approach to serving clients and managing their projects, meaning that we match the expertise of our personnel to the unique requirements of each job. Brief descriptions of qualifications are provided below for key staff members who can best serve your needs. In addition to the staff listed here, you have access to the more than 120 additional water resources staff members.

Janna Kieffer, PE

Vice President, Senior Water Resources Engineer

Janna joined Barr in 2002 after earning a master's degree in civil engineering. She serves as a principal, project manager, and technical expert for watershed management organizations and municipal clients. Her work includes watershed planning, hydrologic and hydraulic modeling, water quality modeling, lake management studies, BMP performance assessments, engineering feasibility studies, and stormwater analyses for low-impact development sites. Janna has worked with the LMRWMO since 2008.

Other project experience:

- Overseeing the LMRWMO watershed restoration and protection strategy (WRAPS) project and managing the stakeholder engagement process.
- Managing the Cherokee Heights culvert analysis and erosion control feasibility study for the LMRWMO.
- Assisting the LMRWMO in applying for and securing Clean Water Fund grants to address water quality in Thompson Lake, Sunfish Lake, Lake Augusta, and Pickerel Lake
- Developing performance standards and a BMP credit calculator to promote low-impact development through the minimal impact design standards (MIDS) project for the Minnesota Pollution Control Agency (MPCA).
- Conducting and managing stormwater modeling projects, including Atlas 14 precipitation updates.
- Developing a storm sewer failure risk assessment in Minnetonka to plan and prioritize system inspections, maintenance, and replacement.
- Developing a pond inventory and maintenance program for the City of Minnetonka and overseeing pond sediment characterization for numerous cities.
- Completing diagnostic feasibility studies for numerous lakes in the Twin Cities, including analysis of water quality problems and identification and conceptual design of stormwater BMPs.



Role

Principal in charge

Education

MS, Civil Engineering,
Mississippi State University

BS, Engineering,
Civil Specialty,
Colorado School of
Mines

Registration

Professional Engineer:
Minnesota, Michigan

2023 billing rate: \$200

Greg Williams, PE

Senior Water Resources Engineer

Greg has 17 years of experience providing water resource services to watershed management organizations, cities, and industrial clients. He specializes in watershed management planning and hydrologic, hydraulic, and water quality modeling of urban and rural watersheds. His experience enables him to synthesize input from clients and other stakeholders to find solutions to challenging problems related to water quality, hydrology, and resource management. Greg has served as engineer for the LMRWMO since 2015.

Work with the LMRWMO:

- Assisting the LMRWMO in updating its 2023-2033 watershed management plan adopted February 2023.
- Reviewing city local water management plans for consistency with LMRWMO and state requirements.
- Updating hydrologic and hydraulic modeling and the associated allowable-flow cost breakdown for the Seidls Lake lift station project.
- Helping the LMRWMO apply for and secure two Clean Water Fund grants to address water quality in Thompson Lake, Sunfish Lake, and Lake Augusta.
- Developing and evaluating different cost allocation methods for water quality improvement projects among contributing communities (i.e., "allowable-load" methods).

Other project experience:

- Helping the City of Edina develop a Clean Water Strategy including a prioritization of city waterbodies for management actions.
- Assisting the South Washington Watershed District update stormwater management design manual for developers.
- Managing watershed management plan updates for the Black Dog Watershed Management Organization (2022), Bassett Creek Watershed Management Commission (2025), Lower Rum River Watershed Management Organization (2021), and Valley Branch Watershed District (202
- Helping the City of Inver Grove Heights develop a framework for managing flood risk of landlocked basins.
- Managing the development of three comprehensive watershed management plans for the Cedar River, Zumbro River, and Lower Minnesota River West watersheds through the Minnesota Board of Water and Soil Resources' (BWSR) One Watershed, One Plan (1W1P) program.
- Helping the City of Edina model and evaluate flood risk mitigation options for prioritized areas in the city.
- Writing 2018 updates to water plans for the cities of Apple Valley, Golden Valley, Hastings, Lakeville, and Richfield.
- Writing portions of the most recent watershed management plan updates for the Riley-Purgatory-Bluff Creek Watershed District (2018), Nine Mile Creek Watershed District (2017), Ramsey-Washington Metro Watershed District (2017, Valley Branch Watershed District (2015), and Bassett Creek Watershed Management Commission (2015).
- Assisting the Riley-Purgatory-Bluff Creek Watershed District in developing and implementing a process for prioritizing project implementation.



Role

Project manager

Education

MSCE, Civil and Environmental Engineering,
University of Washington

BCE, Civil Engineering,
University of Minnesota

Registration

Professional Engineer:
Minnesota

2023 billing rate: \$165

Greg Wilson, PE

Senior Water Resources Engineer

Greg Wilson has 33 years of experience in water resources management. His expertise includes water quality modeling, TMDL/WRAPS preparation and reporting, 1W1P and nine-element planning, geographic information systems (GIS), limnology, hydrology and hydraulics, National Pollutant Discharge Elimination System (NPDES) and wetland permitting, design applications for water resources, watershed and lake management plans, stormwater pollution prevention plans, and public education and outreach.

Work with the LMRWMO:

- Managing a water quality improvement and outlet feasibility study for Lake Augusta. Updated and calibrated watershed and in-lake modeling to evaluate several watershed and lake water management options to improve water quality and alleviate high water levels. Published cost estimates and recommendations.
- Managing engineering services for in-lake aluminum-sulfate (alum) treatments for Lake Augusta and Sunfish Lake to improve the lake water quality, including sediment core collection and analysis, determination of an alum dosage plan, cost estimate development, preparation of contract documents, permitting, contract administration, and treatment oversight. He helped the LMRWMO meet BWSR project assurances for alum treatments and assisted with data analysis to delist Sunfish Lake.
- Managing technical work for the LMRWMO TMDL and WRAPS, including water quality and quantity monitoring and modeling, TMDL development, and water quality improvement options.
- Developing a feasibility study as a follow-up to the water quality modeling study for the Ivy Falls Creek, Interstate Valley Creek, and West/Central/East Highway 13 watersheds.

Other project experience:

- Managing 15 recent TMDL and WRAPS studies of Minnesota watersheds, including Little Rock Creek, Cedar and McMahan Lakes, Big Sandy Area Lakes, Wirth Lake, Lake Harriet, Lake St. Croix, Sand Creek, Bluff Creek, Deer Creek, Zumbro River, West Fork Des Moines River, Cedar River, Lower Mississippi River, Riley-Purgatory-Bluff Creek, and Nine Mile Creek.
- Completing GIS terrain analysis to target and prioritize implementation of conservation practice locations throughout the Cedar River and Zumbro River watersheds.
- Serving as project manager, technical resource, and primary author of the MPCA's *Detailed Assessment of Phosphorus Sources to Minnesota Watersheds*.
- Serving as project manager and technical resource for the development of a chloride source assessment model, detailed specifications document, and platform recommendations for interfacing with an updated version of the MPCA's Smart Salting Assessment tool.
- Serving as project manager, technical resource, and author of updated content for infiltration practices, vegetation, compost, bioretention media, and a TMDL toolkit for municipal separate storm sewer system (MS4) permit compliance in the MPCA's *Minnesota Stormwater Manual*, and currently conducting research on the efficacy of highway swales to reduce stormwater runoff volume as well as the application of spent lime to control internal phosphorus release from stormwater ponds.



Education

MS, Civil Engineering,
University of Minnesota

BS, Civil Engineering,
University of Minnesota

Registration

Professional Engineer:
Minnesota

2023 billing rate: \$190

Michael McKinney, PE

Senior Water Resources Engineer

Michael specializes in hydrologic and hydraulic modeling, water quality modeling, and project management. He has more than 10 years of experience in best management practice (BMP) design and stormwater infrastructure design and has developed numerous large, calibrated, water quality and hydraulic models. He is a proficient technical writer and researcher and has co-authored several stream and lake total maximum daily loads (TMDLs), stressor identification reports, manuals, project reports, and studies. Michael specializes in development of innovative modeling products and feasibility studies and has developed / co-developed studies related to flood risk analysis, infrastructure failure risk, pond sediment management prioritization, flood area prioritization, and street sweeping prioritization.

Work with the LMRWMO:

- Conducting cost allocation for the construction of emergency overflow from regional basin T-23.

Other project experience:

- Managing the development of intersection-scale XP-SWMM and P8 models for the 8,000-acre watershed to the Capitol Region Watershed District's Trout Brook interceptor. The calibrated models are currently being used to advise development studies, rank and prioritize flood areas, and will be used to complete flood mitigation feasibility studies.
- Managing the Nine Mile Creek Watershed District (NMCWD) Atlas 14 Risk and Resiliency Project. Calibrated models developed during this project are being used for a variety of applications, ranging from identifying large-scale flood mitigation opportunities along the corridor to developing a flood risk communication strategy.
- Developing a GIS-based water quality model (GIS WQM) for the City of Minneapolis, Minnesota. The empirical, annualized model can predict pollutant loading from land use based on land use density characteristics, estimate removal from BMPs, and track pollutant loading and impacts of treatment trains through all elements of the link-node routing network. The city is currently using the model for water quality evaluation and asset management.
- Performing water quality modeling and assisting with the development of several TMDL reports for the Valley Branch Watershed District and Ramsey-Washington Metro Watershed District.
- Developing an infrastructure failure-risk study for Hennepin County Railroad Authority (HCRRA). The study evaluated the likelihood and consequence of culvert crossing failure of Hennepin County-owned infrastructure.
- Developing a street-sweeping-prioritization study for Ramsey-Washington Metro Watershed District.
- Designing and developing a pond performance and assessment prioritization study for the Ramsey-Washington Metro Watershed District.



Education

MS, Environmental Engineering, University of Nebraska–Lincoln

BS, Biological Systems Engineering, University of Nebraska–Lincoln

Registration

Professional Engineer:
Minnesota

2023 billing rate: \$150

Our watershed management services

Barr has served as engineer for the LMRWMO since 1987. Our services have included watershed planning, flooding and water quality analyses, intercommunity stormwater management assistance, stream management and restoration assessments, and grant funding.

In the past 10 years, we have enjoyed assisting the LMRWMO with water quality projects. For the Watershed Restoration and Protection Strategies (WRAPS) study, we monitored lakes and Ivy Falls Creek, analyzed and diagnosed lake water quality problems, identified management practices in the upstream watersheds and within the lakes to improve water quality, and determined load and wasteload allocations.

Barr completed the Cherokee Heights culvert analysis and erosion-control feasibility study in 2015, which involved stormwater modeling analysis, assessment of erosion issues, geotechnical modeling, and conceptual design of options to reduce peak flows. We then helped secure the largest-at-the-time Clean Water Fund grant to reduce erosion and sediment loading to Pickerel Lake and the Mississippi River and worked with the LMRWMO and member cities to install hydrodynamic separators to treat runoff from 70 acres and stabilize the upper 300 feet of the Cherokee Heights ravine to improve water quality and protect Saint Paul parkland and visitors.

In 2015, Barr helped secure Clean Water Fund grant funding for the Thompson Lake stormwater improvement project and internal phosphorus load control for Lake August and Sunfish Lake. We designed and managed in-lake alum treatments for Lake Augusta and Sunfish Lake, performed in 2017, and collected post-alum treatment water quality monitoring data used for removing Sunfish Lake from the impaired waters list. In 2022, Barr completed the Lake Augusta Water Quality Improvement and Outlet Feasibility study for the LMRWMO and City of Mendota Heights. The study evaluated sources of phosphorus loading and potential management actions.

We understand that as a joint powers organization, the LMRWMO relies on cooperative relationships with its member cities and stakeholders to achieve its goals. We strongly believe that stakeholder participation results in better project outcomes. Throughout the WRAPS, water quality projects, and recent watershed management plan update, Barr worked closely with stakeholders—including city staff and representatives, LMRWMO board members, agencies, citizens, and other local government representatives—to understand concerns and gather feedback. These projects demonstrate the range and depth of Barr's services, which are further described on the following pages.



Watershed planning and management

Barr has provided engineering expertise to watershed management organizations and federal, state, and municipal clients for more than 50 years, and our water resources staff has grown to include more than 100 water resources engineers and scientists. Whether you have a single concern or need help with multiple complex watershed issues, we can provide workable, affordable, and environmentally sound solutions. We've written dozens of watershed management plans and updates and have also helped more than 50 municipalities develop local water management plans.

Barr recently assisted the LMRWMO board of managers in updating its fourth-generation plan, which was adopted in February 2023. Throughout the process, Barr provided the managers with the information and experience needed to confidently develop a plan including prioritized, targeted, and measurable actions. Barr worked with the managers and member cities to adopt more stringent water quality standards in prioritized "regulatory watersheds."

We can also help secure grants to fund projects, including brownfields redevelopment, watershed and stormwater management, and flood control. We have helped prepare winning applications for public and private clients, including the LMRWMO, with awards ranging from \$10,000 to \$10 million.

Our services include:

- Coordinating closely with administrator, managers, municipalities, regulatory agencies, and other stakeholders
- Tracking grant opportunities and assisting with grant applications
- Conducting project cost allocation analyses
- Developing rules and regulations for watershed management organizations
- Preparing watershed management plans and amendments
- Conducting gap analyses for watershed management organizations
- Reviewing local watershed management plans for conformance with watershed management organization plans
- Coordinating and facilitating stakeholder involvement
- Preparing annual reports
- Reviewing development and redevelopment plans and projects
- Providing administrative support



Jenna Kieffer
Senior Water
Resources Engineer



Greg Williams
Senior Water
Resources Engineer



Karen Chandler
Senior Water
Resources Engineer



Louise Heffernan
Water Resources
Engineer

Water quality studies, TMDLs, and project implementation

Barr conducts surface water quality studies and develops management plans for lakes, streams, and wetlands to achieve goals specific to those water bodies. We are an MPCA-approved contractor for the TMDL program and have more than 30 TMDL studies or WRAPS projects currently in progress or recently completed. Many are large-scale and/or multiple-impairment studies.

Barr also helps our clients identify, design, and implement water quality improvement projects. From 2016 to 2020, we assisted the LMRWMO in performing in-lake alum treatments of Sunfish Lake and Lake Augusta to reduce internal phosphorus loading. We have conducted follow-up monitoring to assess project performance and next steps.

In 2022, Barr completed the Lake Augusta Water Quality Improvement and Outlet Feasibility study for the LMRWMO and City of Mendota Heights. The study evaluates sources of phosphorus loading and potential management actions.

Barr also develops lake and stream monitoring programs for watershed management organizations and municipalities that are specific to the monitoring objectives and designed to establish baseline information on water quality and quantity, track trends and identify changes over time, and support more detailed analyses of the health of the water bodies.

Our services include:

- Completing lake and stream diagnostic feasibility studies to determine the causes of poor water quality and evaluate the feasibility and benefit of various practices to improve lake and stream water quality
- Completing TMDL/WRAPS studies for clients and the MPCA, including the development of TMDL reports and implementation plans
- Conducting water quality modeling to identify sources of pollutants and prioritize improvement efforts
- Collecting, analyzing, and reporting on water chemistry and biological data for lakes, including survey and assessment of impacts from rough fish
- Managing and monitoring aquatic plants
- Designing and managing in-lake aluminum sulfate (alum) treatments to improve lake water quality
- Designing stormwater BMPs to improve downstream water quality



Greg Wilson
Senior Water
Resources Engineer



Keith Pilgrim
Senior Water
Resources Scientist



Joe Bischoff
Senior Aquatic
Ecologist



Katie Turpin-Nagel
Water Resources
Engineer



Kevin Menken
Senior Environmental
Engineer

Stakeholder education and engagement

Barr helps water management organizations educate their boards and stakeholders about water-related issues. Whether it's facilitating a public meeting about policies or plans, making presentations to boards, or conducting BMP "how-to" workshops, we can employ education as a component of design projects or an independent service. We use a community-based approach that is inclusive, transparent, and open—providing everyone an opportunity to listen, learn, and participate. We understand that the best solutions often come from stakeholders, which leads to greater acceptance and buy-in.

Barr is experienced in facilitating in-person, virtual, and hybrid engagement activities. Recent examples include stakeholder engagement performed for the LMRWMO's watershed management plan update and Lake Augusta Water Quality Improvement and Outlet Feasibility study.

Our public participation methods and techniques include:

- Focus group meetings and interviews
- Steering and advisory committee facilitation
- Public presentations and open houses
- Public input surveys
- Design charrettes and workshops
- Community walkabouts
- Citizen photograph surveys
- Web-based communication

Our education services include:

- Presentations
- Seminars and brochures on innovative stormwater BMPs
- Educational workshops
- Detailed maps and instructions
- Attractive, easy-to-understand interpretive signage
- Materials that are accessible to lay people as well as useful for experts



Fred Rozumalski
Landscape Architect
& Ecologist



Karen Chandler
Senior Water
Resources Engineer



Brendan Dougherty
Senior Landscape
Architect



Katie Turpin-Nagel
Water Resources
Engineer



Elli Boehm
Landscape Designer

Stormwater and floodplain management

Local and state regulatory agencies have increased their regulation of stormwater, resulting in increased focus on stormwater BMPs that reduce the rate and volume of runoff and the associated pollutant loading. Our knowledge of and experience with alternative and innovative stormwater practices allows us to suggest creative solutions to stormwater problems on challenging sites, such as the hydrodynamic separators used upstream of the Cherokee Heights ravine.

When it comes to urban stormwater best management practices, we wrote the book—the Metropolitan Council’s *Minnesota Urban Small Sites BMP Manual*. This served as a model for the *Minnesota Stormwater Manual* published by the MPCA. Barr was also the primary consultant to the MPCA for the MIDS project, which included developing stormwater performance standards and a BMP credit calculator to promote the implementation of low-impact development.

Changing trends in precipitation amounts and intensities place increasing pressure on stormwater infrastructure and cities and watershed management organizations tasked with protecting public safety and property. Barr’s experience in hydrologic and hydraulic modeling, risk assessment, and regulatory policy maintains our position at the forefront of floodplain management issues.

Our services include:

- Evaluating stormwater management systems using computer models to estimate watershed runoff and flow through detailed storm sewer networks
- Inventorying and evaluating sediment accumulation in stormwater ponds, including surveying ponds, collecting sediment samples, evaluating laboratory results of sediment samples, and obtaining necessary permits for sediment removal projects
- Installing and operating stormwater flow and water quality equipment
- Designing and overseeing construction of stormwater management infrastructure, including storm sewers, stormwater treatment BMPs, stormwater detention ponds, flood protection measures, and dams
- Assisting municipalities and other MS4 operators with meeting their NPDES permitting requirements
- Conducting hydrologic and hydraulic modeling
- Conducting flood insurance studies
- Mapping floodplains and completing map revisions
- Assisting communities with levy certification
- Assisting with floodplain permitting
- Conducting dam failure analyses
- Designing flood control structures



Michael McKinney
Senior Water
Resources Engineer



Tyler Olsen
Water Resources
Engineer



Michelle Kimble
Senior Civil Engineer



Brandon Barnes
Water Resources
Engineer



Joe Wain
Vice President,
Senior Water
Resources Engineer

Stream and ravine restoration and protection

The LMRWMO's watershed management plan, developed with assistance from Barr, places a renewed emphasis on watershed streams and Mississippi River direct drainages. We understand these areas will be a focus of several LMRWMO studies and projects over the next 10 years and look forward to assisting the LMRWMO with these efforts.

Barr is a leader in implementing ecological methods for stream restoration, habitat preservation, and erosion control. Our approach involves understanding the physical, chemical, and biological characteristics of a stream or riparian area. We gather data from a variety of sources—including our own TMDL or diagnostic studies—then analyze the information to identify problem sources and solutions. Our stream and ravine stabilization projects within the Twin Cities area have included:

Streams

- Battle Creek
- Fish Creek
- Minnehaha Creek
- Nine Mile Creek
- Purgatory Creek
- Raleigh Creek
- Riley Creek
- Shingle Creek
- Valley Creek

Ravines

- Battle Creek Regional Park (Saint Paul)
- Carver ravine (Woodbury)
- Cook/Gannon landslide (Richmond)
- DeMontreville ravine (Lake Elmo)
- Fish Creek ravine (Maplewood and Saint Paul)
- Glen Place ravine (St. Louis Park)
- Industrial Park ravine (Hastings)
- Lake Rebecca/County Road 42 (Hastings)
- Mississippi River lower gorge (Minneapolis)
- Mississippi River bluff (Minneapolis)
- Riley Creek lower valley (Eden Prairie)
- Utica ravine (Savage)
- West 110th Street eroding ravine (Bloomington)

Our services include:

- Evaluating and designing stream and ravine stabilization measures and overseeing construction
- Conducting ecological use classification of stream systems
- Developing erosion control management plans for creek systems
- Installing and operating automated stream monitoring equipment for flow and water quality
- Performing biotic index monitoring and fish surveys



Tom MacDonald
Senior Water
Resources Engineer



Jessica Olson
Senior Water
Resources Engineer



Kallie Doeden
Water Resources
Engineer



Peter Hinck
Senior Water
Resources Engineer

Ecological planning and low-impact development design

Barr understands the interaction between the natural and built environment. Using this as a basis for design, we look for affordable and long-term solutions that blend traditional engineering practices with an ecologically sound approach that strives to balance ecological function, watershed characteristics, and hydrologic conditions with the ways people use the site. During the development review process, we encourage the use of innovative stormwater management techniques where appropriate—such as iron-enhanced sand filtration.

Within the LMRWMO, this work has included consideration of water reuse in the initial design of improvements to Thompson Lake Park and the use of ecologically integrated practices in the Cherokee Heights ravine stabilization project.

Since 2010, we have been working on major portions of the MPCA's MIDS project, including coordinating with stakeholder groups to provide information to set voluntary statewide stormwater management performance goals and developing a credit system for quantifying BMP performance.

Our services include:

- Designing development and redevelopment sites using low-impact design principles
- Designing low-impact development stormwater BMPs (rain gardens, infiltration and filtration systems)
- Master planning for stormwater and natural resources management
- Lakescaping to improve shoreline stability and habitat
- Conducting environmental reviews
- Managing fish and wildlife
- Planning greenways



Fred Rozumalski
Senior Landscape
Architect



Matt Metzger
Senior Civil Engineer



Brendan Dougherty
Senior Landscape
Architect



Nathan Campeau
Vice President,
Senior Water
Resources Engineer



Katie Kramarczuk
Water Resources
Scientist

Wetland management

Barr has been involved in administration of the Wetland Conservation Act since the law's inception in 1991. We have developed an in-depth knowledge of the law and its administration, as we have provided wetland services since development of the law and through the four major amendments adopted since the permanent rules went into effect in 1993. Our team includes five Minnesota-certified wetland delineators with a combined total of more than 45 years of experience.

Our services include:

- Delineating wetland boundaries and identifying wetland classifications
- Developing wetland inventories and function and value assessments
- Monitoring wetlands and training others to monitor wetlands
- Designing and implementing wetland restoration plans
- Completing wetland mitigation planning and permitting
- Assisting local government units administer the Minnesota Wetland Conservation Act
- Evaluating wetland hydrology and potential impacts of hydrologic modifications



Mark Jacobson
Senior Environmental
Scientist



Karen Wold
Senior Environmental
Scientist



Jessica Butler
Senior Ecologist



Matt Danzl
Senior Ecologist

Summary of Barr’s services to watershed organizations

Watershed organization	Watershed planning and management	Stormwater management and review of development plans	Stream and ravine stabilization and protection	Water quality studies and implementation	Capital improvement program assistance and flood control projects	Stream and lake monitoring	Innovative stormwater management
Bassett Creek	•	•	•	•	•	•	•
Black Dog	•	•		•	•	•	•
Capitol Region	•	•	•	•	•	•	•
Carver County	•	•		•			•
Cedar River	•	•		•	•	•	•
Elm Creek	•	•		•	•		
Lake Pelican	•	•		•	•		•
Lower Mississippi	•	•	•	•	•	•	•
Lower Rum River	•	•	•	•	•		
Mississippi	•		•		•		•
Nine Mile Creek	•	•	•	•	•	•	•
North Fork Crow River	•		•				
Ramsey-Washington	•	•	•	•	•	•	•
Prior Lake-Spring Lake	•	•		•	•	•	
Riley-Purgatory-Bluff Creek	•	•	•	•	•	•	•
Sauk River	•	•	•	•	•	•	
Scott	•	•	•	•	•	•	•
Shell Rock River	•	•	•	•	•	•	•
Thirty Lakes	•	•					
Turtle Creek	•	•		•			
Valley Branch	•	•	•	•	•	•	•
Zumbro	•		•	•	•	•	

References

Randy Anhorn, Administrator
Nine Mile Creek Watershed District

12800 Gerard Drive
 Eden Prairie, Minnesota 55346
 952-835-2078
ranhorn@ninemilecreek.org

Tina Carstens, Administrator
Ramsey-Washington Metro Watershed District

2665 Noel Drive
 Little Canada, Minnesota 55117
 952-792-7960
tina@rwmwd.org

Ed Marchan, President
Valley Branch Watershed District

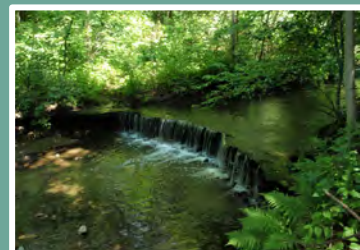
3800 Laverne Avenue North
 Lake Elmo, Minnesota 55042
 651-436-8627
emarchan@vbwd.org

Daryl Jacobson, Administrator
Black Dog Watershed Management Organization

100 Civic Center Parkway
 Burnsville, MN 55337
 (952) 895-4574 (phone)
daryl.jacobson@burnsvillemn.gov

Laura Jester, Administrator
Bassett Creek Watershed Management Commission

16145 Hillcrest Lane
 Eden Prairie, Minnesota 55346
 952-270-1990
laura.jester@keystonewaters.com



2023 fee schedule

Barr's fee schedule, presented below, summarizes the range of billing rates for each of our staffing categories. In many cases, these billing rates represent a wide range, based on varying levels of experience and expertise of staff within these categories. When building a team for LMRWMO projects, appropriate staff members will be selected with consideration for both applicable experience and billing rates to ensure that the LMRWMO receives high-value services for a reasonable cost. The billing rates below will be effective through 2023.

Description	Rate* (U.S. dollars)
Principal/Vice President	\$170-315
Consultant/Advisor	\$205-300
Engineer/Scientist/Specialist IV	\$175-200
Engineer/Scientist/Specialist III.....	\$145-170
Engineer/Scientist/Specialist II.....	\$120-140
Engineer/Scientist/Specialist I	\$80-115
Technician IV	\$155-200
Technician III.....	\$125-150
Technician II.....	\$95-120
Technician I.....	\$70-90
Support Personnel III	\$155-200
Support Personnel II.....	\$95-150
Support Personnel I.....	\$70-90

Rates for litigation support services will include a 30% surcharge.

A ten-percent (10%) markup will be added to subcontracts for professional support and construction services to cover overhead and insurance surcharge expenses.

Invoices are payable within 30 days of the date of the invoice. Any amount not paid within 30 days shall bear interest from the date 10 days after the date of the invoice at a rate equal to the lesser of 18 percent per annum or the highest rate allowed by applicable law.

Meals will be reimbursed on a per diem basis. For travel destinations within the continental U.S. (CONUS) the per diem rate will be as published by the U.S. Internal Revenue Service (IRS) based on the High-Low method. For travel destinations outside the CONUS list, the per diem rate will be as published by the U.S. Department of State for foreign per diem rates. Full day per diem rates will be pro-rated on travel days.

All other reimbursable expenses including, but not limited to, costs of transportation, lodging, parking, postage, shipping and incidental charges will be billed at actual reasonable cost. Mileage will be billed at the IRS-allowable rate.

Materials and supplies charges, printing charges, and equipment rental charges will be billed in accordance with Barr's standard rate schedules.

*Rates do not include sales tax on services that may be required in some jurisdictions.

Principal/Vice president category: includes consultants, advisors, engineers, scientists, and specialists who are officers of the company.

Consultant/advisor category: includes experienced personnel in a variety of fields. These professionals typically have advanced background in their areas of practice and include engineers, engineering specialists, scientists, related technical professionals, and professionals in complementary service areas such as communications and public affairs.

Engineer/scientist/specialist categories: include registered professionals and professionals in training (e.g., engineers, geologists, and landscape architects), and graduates of engineering and science degree programs.

Technician categories: includes CADD operators, construction observers, cost estimators, data management technicians, designers, drafters, interns, safety technicians, surveyors, and water, air, and waste samplers.

Support personnel categories: includes information management, project accounting, report production, word processing, and other project support personnel.



CAMPBELL KNUTSON

PROFESSIONAL ♦ ASSOCIATION

Direct Dial: (651) 234-6201
E-Mail Address: jmonge@ck-law.com

July 17, 2023

Elliott B. Knetsch
Andrea McDowell Poehler
Soren M. Mattick
David S. Kendall
Jared D. Shepherd
Henry A. Schaeffer, III
Alina Schwartz
James J. Mongé, III
Jerome M. Porter
Leah C.M. Koch
Meagan K. Kelley
Benjamin J. Colburn
Cara A. McDonald
Jack S. Brooksbank
Cole A. Birkeland
Amy K.L. Schmidt

Joel J. Jamnik*
*Of Counsel

Thomas J. Campbell*
Roger N. Knutson*
*Retired

Lower Mississippi River Watershed Management Organization
c/o Joe Barten
Dakota County Soil and Water Conservation District
4100 220th St. West, Suite 102
Farmington, MN 55024

**RE: LOWER MISSISSIPPI RIVER WATERSHED MANAGEMENT
ORGANIZATION**

RESPONSE TO REQUEST FOR PROPOSALS FOR LEGAL SERVICES

Dear Mr. Barten:

In response to the solicitation of proposals from qualified firms to provide legal services to the Lower Mississippi River Watershed Management Organization (LMRWMO) for 2023-2025, Campbell Knutson, P.A., respectfully requests consideration by the Board. The following information is being provided to assist in your review:

1. NAME AND LOCATION OF FIRM. Our firm name is Campbell Knutson, *Professional Association*, Grand Oak Office Center I, 860 Blue Gentian Road, Suite 290, Eagan, Minnesota 55121. The firm is located off of Dodd Road in Eagan just south of I-494 and north of Highway 55.

2. NUMBER OF YEARS IN OPERATION AT EAGAN LOCATION. The firm has been located in the Eagan area since it was founded in 1986, and moved to its current location at the Grand Oak Office Center in July 2015.

3. EXPERIENCE WITH WATERSHED DISTRICTS. Campbell Knutson focuses on providing municipal clients with competent, prompt, and cost conscious service. The firm employs fifteen attorneys and twelve legal assistants. The firm's income is almost exclusively generated by the services we provide to cities and other government entities. Campbell Knutson currently represents five other watersheds in the seven-county area.

Grand Oak Office Center I
860 Blue Gentian Road
Suite 290
Eagan, Minnesota 55121
Main: 651-452-5000
Fax: 651-234-6237
www.ck-law.com

The firm has been active in every aspect of watershed law from drafting joint powers agreements, reviewing 509 Plans, advising clients on law and rule changes, reviewing grant applications, WCA administration, and assisting with improvement projects. Our practice of municipal law dovetails with our watershed practice. There is virtually no area of watershed law that we have not been involved with.

4. PROFESSIONAL STAFF AVAILABLE TO THE LMRWMO. We propose that James J. Mongé be the lead attorney for the LMRWMO and James will attend Board meetings as needed. Soren Mattick and Andrea Poehler would also be available to provide legal services to the LMRWMO.

5. QUALIFICATIONS/EXPERIENCE. James provides general municipal services for all of the firm's clients and is the lead city attorney for Shafer and Stacy and the attorney for the Eagan-Inver Grove Heights WMO, Elm Creek WMO, Lower Mississippi WMO, North Cannon River WMO, and Pioneer Sarah Creek WMO. Prior to joining the firm in 2015, James worked at the League of Minnesota Cities for 15 years. At the League, James served as Senior Land Use Litigator, Property/Casualty Litigator, and Research Attorney.

James has been a land use instructor for Government Training Services. He has also lectured to the League of Minnesota Cities and Continuing Legal Education classes for attorneys on various municipal law topics.

Individual resumés for James Mongé, Soren Mattick, and Andrea Poehler are enclosed for your information as well.

6. YEARS OF EXPERIENCE WITH WMO'S. Campbell Knutson has represented seven other watersheds since 1982 and was appointed as attorneys for the Pioneer-Sarah Creek Watershed Management Commission and the Elm Creek Watershed Management Commission in 1994. Campbell Knutson has represented the Lower Mississippi River WMO since 1986, the Eagan-Inver Grove Heights Watershed Management Organization since 2014, and the North Cannon River WMO since 2019. All of the attorneys at Campbell Knutson are involved in representing our municipal clients, and the firm is well known for its expertise in municipal government, watersheds, zoning, land use and planning.

7. OTHER WMO'S REPRESENTED BY THE FIRM AND CONTACT INFORMATION FOR EACH.

Black Dog Lake
Daryl Jacobson, Administrator
(612) 895-4574

July 17, 2023

Lower Mississippi River Watershed Management Organization

Eagan-Inver Grove Heights
Brian Watson, Administrator
(651) 480-7778

Elm Creek
Judie Anderson, Administrator
(763) 553-1144

North Cannon River
Ashley Gallagher, Administrator
(651) 480-7777

Pioneer-Sarah Creek
Amy Juntunen, Administrator
(763) 553-1144

8. HOURLY BILLING RATE FOR 2023 AND 2024. Campbell Knutson proposes to provide general legal services to the LMRWMO at the following rates for the fiscal years of 2023 and 2024:

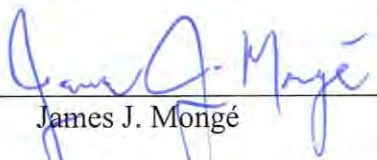
Attorneys	\$ 185.00/hour
Law Clerks	125.00/hour
Legal Assistants	110.00/hour

Services rendered are billed according to the actual time incurred, with a minimum increment of one-tenth of an hour. We would also bill for photocopies at \$.20 each and computerized research (Lexis/Nexus or Westlaw) at actual cost. The WMO would not be charged for any other items. For any of our work that the Commission passes through to developers we would bill in accordance with our firm's schedule of pass-through rates (generally \$200-300 per hour depending on the attorney, for example, James' current pass-through rate is \$250/hour).

We have enjoyed working with the WMO in the past and hope to work with you in the future. If you have any questions or require any additional information, please feel free to contact me.

Very truly yours,

CAMPBELL KNUTSON
Professional Association

By: 
James J. Mongé



JAMES J. MONGÉ III

Attorney

jmonge@ck-law.com
(651) 234-6201



CITY ATTORNEY FOR THE CITIES OF:
Shafer and Stacy

PROFESSIONAL EXPERIENCE

James joined the firm in 2015. From 2000-2015 James served as a Senior Land Use Litigator, Property/Casualty Litigator, and Research Attorney for the League of Minnesota Cities. From 1998-2000, James served as judicial law clerk for the Honorable Paul T. Benschhof in the Ninth Judicial District.

James has an extensive background in municipal law, including land use, open meeting law, data practices, and ordinance drafting. He also has significant litigation experience.

NOTABLE CASES

Sawh v. Lino Lakes, 823 N.W.2d 627 (Minn. 2012) (city's determination that dog was a dangerous animal did not violate owner's constitutional right to procedural due process and was supported by a substantial basis in the record).

Ortell v. City of Nowthen, 814 N.W.2d 40 (Minn. App. 2012) (city's denial of application for a variance upheld).

Wessman v. City of Mankato, 2011 Minn. App. Unpub. LEXIS 597 (trial court's dismissal of plaintiff's substantive due process and temporary regulatory taking claims affirmed).

Hess v. Fergus Falls, 2007 Minn. App. Unpub. LEXIS 1061 (city decision to vacate right of way upheld).

EDUCATION

Marquette University
Law School
J.D.

Boston College
B.A.

PROFESSIONAL MEMBERSHIPS

- Minnesota State Bar Association
- Wisconsin State Bar Association
- Ramsey County Bar Association
- Warren E. Burger Inn of Court

RECOGNITION

Super Lawyers
Rising Star, 2007 & 2008

BAR ADMISSIONS
Minnesota 1999

Wisconsin 1998

U.S. District Court,
District of Minnesota
2003



SOREN M. MATTICK

Shareholder

smattick@ck-law.com
(651) 234-6217



CITY ATTORNEY FOR THE CITIES OF:

Big Lake, Lindström, North St. Paul, Orono, St. Louis Park, Stillwater Township, and Zimmerman

PROFESSIONAL EXPERIENCE

Soren was an Assistant Rice County Attorney from 1997 to 2000, with primary responsibility for land use, waste management, and forfeiture issues.

PRACTICE AREAS

Soren joined the firm in 2001 after spending five years with the Rice County Attorney's office and is a shareholder of the firm. Soren provides general municipal services for all of the firm's clients and is the lead attorney for the cities of Big Lake, Lindström, North St. Paul, Orono, St. Louis Park, Zimmerman, and Stillwater Township. In addition, Soren handles all aspects of civil litigation on behalf of the firm's clients as well as code enforcement. He has been a land use instructor for Government Training Services.

PROFESSIONAL MEMBERSHIPS

- Minnesota State Bar Association
- Rice and Dakota County Bar Associations

EDUCATION

Hamline University Law School
J.D., 1997

Luther College, B.A.,
1994

BAR ADMISSIONS

Minnesota 1997



**ANDREA MCDOWELL
POEHLER**

Shareholder

apoehler@ck-law.com
(651) 234-6224



CITY ATTORNEY FOR:

Elko New Market, Farmington EDA, Plymouth HRA

PROFESSIONAL EXPERIENCE

Before joining the firm, Andrea clerked for the Honorable Jack Davies of the Minnesota Court of Appeals. Andrea has been a member of the firm since 1993 and a shareholder since 2000.

PRACTICE AREAS

Andrea attends Lakeville Planning Commission meetings and acts as an assistant city attorney for all of the firm's clients. Andrea specializes in the following areas of law:

- Real Estate
- Land Use
- Employment Law
- Housing and redevelopment authority law
- Economic development authority law

PRESENTATIONS & PUBLICATIONS

- Minnesota Continuing Legal Education Presenter, 2015
 - o Land Use Law
- *Land Use, The Complete Real Estate Lawyer's Quick Answer Book*, 2015

EDUCATION

William Mitchell
College of Law
J.D., cum laude, 1991

St. Olaf College, B.A.
(dual major in English
and Mathematics), 1986

**PROFESSIONAL
MEMBERSHIPS**

- Minnesota
Association of City
Attorneys
- Minnesota State Bar
Association, Public
Law Section & Real
Estate Section
- Sensible Land Use
Coalition
- American Planning
Association
- Dakota County Bar
Association
- 2016 Young Lawyer
Mentorship Program

BAR ADMISSIONS

Minnesota 1991

PETERSON COMPANY LTD.
CERTIFIED PUBLIC ACCOUNTANTS

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952.442.4408 | Fax: 952.442.2211 | www.pclcpas.com

July 17, 2023

Joe Barten
Lower Mississippi River Watershed Management Organization
4100 220th St West, Suite 102
Farmington, MN 55024

Dear Joe:

We appreciate the opportunity to respond to your request for an audit bid on your Organization for the fiscal year ending December 31, 2023 and December 31, 2024. The audit will be performed in compliance with all applicable audit standards.

It is anticipated that one day of field work will be required in your office. During this time and during the completion of the audit, we will be happy to answer your questions and assist with policies and procedures at no additional cost. The year-end audit fee will be \$4,300 for 2023 and \$4,400 for 2024.

Thank you for contacting us and we look forward to hearing from you.

Sincerely,

Samantha Hoskins

Samantha Hoskins, CPA
Peterson Company, Ltd.