

SEELEY LAKE MISSOULA COUNTY SEWER DISTRICT

Statement of Qualifications - Wastewater Engineering Services

APRIL 2022





engineers • surveyors • planners • scientists

1 Engineering Place
Helena, MT 59604
406.442.3050 • office
www.m-m.net

April 7, 2022
Seeley Lake Missoula County Sewer District
PO Box 403
Seeley Lake, MT 59868

Re: RFQ - Design of Wastewater Collection & Treatment System or Series of Systems

Dear Seeley Lake Missoula County Sewer District Board of Directors,

Developing cost-effective solutions that provide wastewater treatment, collection and disposal is a daunting challenge for any community. Add to that challenges of protecting the water quality of the aquifer and Seeley Lake, a key community recreation and economic resource, and you have a unique challenge that could feel impossible. Wrestling with this challenge for several years, you are now looking for an engineer that could provide a fresh set of eyes and new ideas on how to approach the treatment, collection and disposal components of this project. Delivering an affordable solution for residents of the district is what we believe we can help with.

Getting to know your community's deeper needs and interests helps us develop the best solution for Seeley Lake. We certainly don't know all the specifics of your project, so our statement of qualifications is intended to give you a broad overview of our firm, project team experience and information on the solutions we have developed for other communities facing similar challenge.

Our firm will provide the following benefits:

Broad Experience: Our firm's and project team member's vast project experience in wastewater treatment, collection and disposal allows us to look at a wide range of options to provide cost effective solutions. Providing an honest assessment of whether it is right for you.

Record of Creating Solutions Tailored to Individual Clients: Each project and community has its own desires and goals. Projects of this size also require working with a variety of regulatory agencies. At times, these agencies can feel unrealistic in their requirements. Achieving the project goals while working with the regulatory agencies is not easy, but is something we are quite successful at. This is due to your dedication to develop solutions specific to each project. Morrison-Maierle works hand in hand with community stakeholders to understand current project drivers and long-term operational requirements to develop a solution that is right for you.

*Morrison-Maierle is
an Equal Opportunity
Employer-Minority/
Female/Disability/
Veteran*



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Successful History of Funding Solutions: There is no doubt in our mind that the right solutions exist to provide cost-effective treatment, collection and disposal for the residents that also indirectly improves the water quality of the groundwater aquifer and Seeley Lake. However, we understand that funding both the project construction and long-term operation are essential to get the project constructed and not create a maintenance burden down the road. We have worked with nearly all funding sources that might be a potential for your project.

Thank you for the opportunity to provide our statement of wastewater treatment, collection and disposal qualifications. We look forward to speaking with you about your project and understanding where you would like to take the project. Please do not hesitate to call, text or email with questions or if you need additional information.

Sincerely,

A handwritten signature in blue ink that reads "Jason C. Mercer". The signature is fluid and cursive, with a long horizontal stroke at the end.

Jason Mercer, PE
Vice President, Water and Wastewater Market Group Leader
Morrison-Maierle
406.438.1182
jmerc@mm-m.net

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Morrison-Maierle General Information

Founded in 1945, we have been creating solutions to build better communities in Montana, Wyoming and the northwest United States for seventy-five years. Our drive comes from making our clients' projects a success. Morrison-Maierle is motivated not only by our history of achievement and outstanding work environment, but also by the opportunity to partner with the Board and residents to achieve cost effective solutions for wastewater treatment, collection and disposal.

Brief History

John Morrison Sr. and Joe Maierle met while working for the Bridge Division of the Montana Highway Department in the 1930s. Back then, in many parts of the state, transportation was nothing more than single-lane, dirt roads.

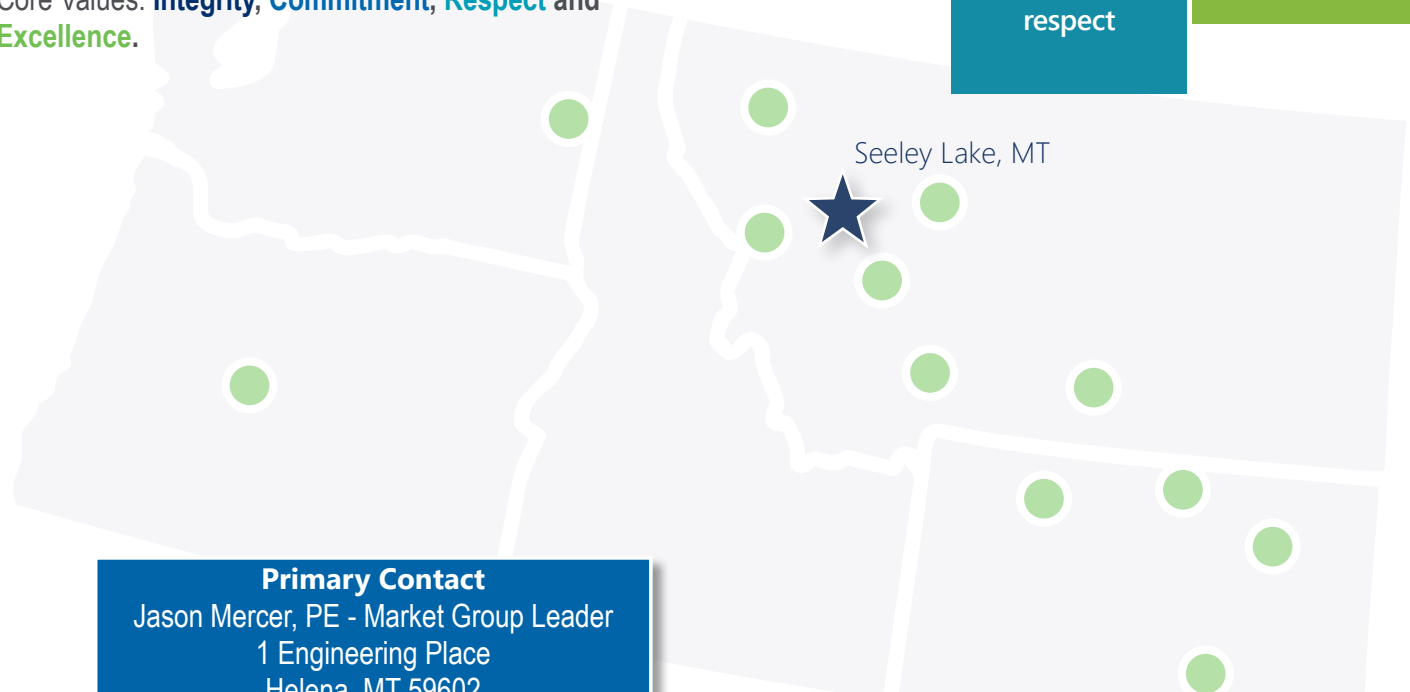
Conversations and collaborations at work made John and Joe realize they shared a common goal - they wanted to create solutions to help pull communities "out of the mud." So they put their passion to the test, and in 1945 built a start-up business housed in John's home.

From day one at Morrison-Maierle, John and Joe decided their main goal was client satisfaction and the way they were going to achieve their goal was to create solutions that helped them build better communities. They approached their business like they built engineering projects - one step at a time and with integrity, commitment, respect, and excellence. These four words became our building blocks and symbolize the way projects are designed and clients are served today. As a result, Morrison-Maierle has been creating solutions for 75 years.

From two engineers with deep commitments to communities, Morrison-Maierle has grown into a regional firm with 12 offices based in Montana and owned by every employee. Our legacy goes directly back to John and Joe and their vision for Morrison-Maierle.

Core Values and Mission

Morrison-Maierle's Core Purpose is "We create solutions that build better communities." It's founded on our four Core Values: **Integrity**, **Commitment**, **Respect** and **Excellence**.



Primary Contact
Jason Mercer, PE - Market Group Leader
1 Engineering Place
Helena, MT 59602
jmercerc@m-m.net
406.495.3488 Direct
406.438.1182 Cell

Morrison-Maierle
100% Employee Owned/S-Corp
Headquartered in Helena, Montana

Principals / Officers of Morrison-Maierle (Ordered by Last Name)

NAME/ TITLE	OFFICE	PROFESSIONAL REGISTRATION	YRS EXP	AREA OF SPECIALTY
Carl J. Anderson, PE <i>Vice President Chief Operating Officer</i>	Billings	MT, CO, WY	38	Water/ Wastewater
Scott T. Bell, PE <i>Vice President, Airport Market Group Leader</i>	Bozeman	MT, WY, AK	38	Airports
Randy P. Bomar, PE <i>Vice President, Wyoming Operations Manager</i>	Sheridan	WY	34	Transportation
Jill Cook, PE <i>Vice President Billings Operations Manager</i>	Billings	MT	15	Water/Wastewater
Letha C. Ebelt, PHR <i>Vice President, Human Resources Director</i>	Helena	PHR	26	Human Resources
Travis J. Eickman, PE <i>Vice President, Bozeman Operations Manager</i>	Bozeman	MT, WY	27	Airports
Brett C. Etzel <i>Vice President, Chief Information Officer</i>	Spokane	N/A	24	Information Technology
Casey Hanson, PE <i>Vice President, Director of Technical Services</i>	Billings	MT	24	Water/Wastewater
Deborah A. Johnston, PE <i>Vice President, Industrial Market Group Leader</i>	Missoula	MT, ID, WA, CO, AK, NV	28	Civil
Ryan C. Jones, PE <i>Kalispell Operations Manager</i>	Kalispell	MT	18	Water/ Wastewater
Kurt W. Keith, PE <i>Vice President, Chief Client Services Officer</i>	Bozeman	MT, CA, WA, AK, NV	32	Structural
Sonya Leckner <i>Chief Financial Officer, Secretary/Treasurer</i>	Helena	N/A	29	Finance
Jason C. Mercer, PE <i>Vice President, Water/Wastewater Market Group Leader</i>	Helena	MT, AZ	25	Water/Wastewater
Scott B. Murphy, PE, BCEE <i>President, Chief Executive Officer</i>	Helena	MT, MN, CA	39	Water/Wastewater
Kenneth W. Salo, PE <i>Senior Vice President</i>	Helena	MT, ND, SD, WY, UT	44	Natural Resources
John R. Schunke, PE <i>Vice President</i>	Bozeman	MT, ID, ND	47	Development
Shaun Shea, PE <i>Vice President, Missoula Operations Manager</i>	Missoula	MT	24	Airports

Broad Wastewater System Experience

Over our 76 years of history, Morrison-Maierle has collaborated with communities across Montana on diverse wastewater needs. Our wastewater experience ranges from centralized wastewater treatment facilities with regional wastewater collection system to small custom decentralized wastewater collection and treatment systems. Finding the right solution for you will require us to get to know you and your desires, needs and goals for the project. This section highlights our firms recent work experience for wastewater planning, funding support, wastewater collection design, wastewater treatment design, effluent management, bid and construction administration, and post construction support services.

In addition to a dedicated water and wastewater staff focused on projects of a similar scope of services, many of the following projects included internal support from mechanical, structural and electrical engineers, surveyors, environmental scientists and hydrogeologists. Additionally, several of these projects required Morrison-Maierle external support from architects, geotechnical engineers, bond council, and funding grant administrators.



Morrison-Maierle Recent Firm Experience

Project, Location & Year

	Collection System		Treatment			Effluent Management			Planning, Design and Construction					
	Low Pressure	Gravity	Lagoon Treatment	Mechanical Treatment	Decentralized Onsite Level II Treatment	Surface Water Permitting (MPDES)	Groundwater Permitting (MGWPCS)	Emerging Technologies, Water Reuse	Preliminary Engineering Report	Design	Operational Support	Funding Support	Bid Administration	Construction Administration
YellowStone Club Wastewater Disposal Big Sky, MT (1995-present)				▲			▲	▲	▲	▲				
Lockwood Phase 1 Sewer Subdistrict, Five Projects Yellowstone Co, MT (2008-2016)	▲	▲							▲	▲		▲	▲	▲
Lockwood Phase 2 Sewer Subdistrict Yellowstone Co, MT (2015-2018)		▲							▲	▲		▲	▲	▲
Plains WWTP Relocation Plains, MT (2020-2022)			▲						▲			▲	▲	▲
Four Corners Belgrade, MT				▲			▲	▲	▲	▲				
Bigfork Bay Sewer Improvements Bigfork, MT (2020-2021)	▲	▲							▲	▲		▲	▲	▲
Cabinet Heights Sewer Improvements Libby, MT (2009-2010)	▲	▲							▲	▲		▲	▲	▲
Ridge Run Stadium Kalispell, MT (2021-2022)		▲			▲		▲			▲				▲
Corvallis County Sewer District Corvallis, MT (2021-2022)		Review	Review				Review		▲			▲		
Crow Agency, Phase 1 WW Improvements Project Crow Agency, MT (2007-2009)		▲							▲	▲		▲	▲	▲
Crow Agency, Phase 2 WW Improvements Project Crow Agency, MT (2009-2012)		▲	▲			▲			▲	▲		▲	▲	▲
Crow Agency, Phase 3 WW Improvements Project Crow Agency, MT (2012-2015)		▲							▲	▲		▲	▲	▲
Deer Lodge Wastewater Treatment Improvements Deer Lodge, MT (2009-present)				▲		▲			▲	▲	▲	▲	▲	▲
Winnett Wastewater Facility Improvements Winnett, MT (2011 -present)		▲	▲			▲			▲	▲				
Sun Prairie Village Wastewater System Upgrades Great Falls, MT			▲			▲			▲	▲		▲	▲	▲
Hot Springs Wastewater Improvements Project Hot Spring, MT (2018-2019)		▲	▲		▲				▲	▲		▲	▲	▲
Valier Phase II Wastewater Systems Improvements Valier, MT (2015-2021)		▲	▲			▲			▲	▲		▲	▲	▲

Yellowstone Club Wastewater Treatment Big Sky, MT

Yellowstone Club (YC) is a resort located near Big Sky in Madison County. There are a range of wastewater treatment solutions in the resort including individual and community septic systems, Level II treatment, and a centralized sequencing batch reactor (SBR) wastewater treatment plant. Initial developments were more dispersed and utilize septic systems. A Level II trickling filter plant with tertiary filtration and disinfection ran for over 10 years to handle wastewater generated from the base area. The Level II portion of treatment was replaced by an SBR treatment plant in 2016. In recent years, most development has occurred at greater density close to wastewater collection infrastructure that conveys to the SBR plant.

The existing SBR wastewater treatment plant has reached its capacity due to growth. A new expansion to the facility is under construction to increase average day capacity from 0.05 MGD to 0.15 MGD. The improvements include concrete basins and equipment for two sequencing batch reactor trains and two aerobic digesters. A new building will house the treatment basins and equipment. Site improvements include a new inlet gravity sewer main, propane tanks, access road, storm drainage, and grading to fit the sloped topography. The SBR treatment plant expansion includes structural, electrical, controls, plumbing, and mechanical components. Downstream of the SBR treatment plant is an existing tertiary filtration and disinfection building. Improvements to that building include adding filtration disks in existing tanks, a completely new filtration train tank, and converting to sodium hypochlorite chemical feed upgrading capacity to match the SBR.

Effluent disposal from the treatment plant has occurred historically by golf course irrigation limited by agronomic rates. Effluent from the YC SBR and Big Sky Water & Sewer District is held in an effluent storage pond near the golf course. For over a decade, snowmaking has been studied and recently received permitting from Montana DEQ for implementation on ski runs. Piping, pump stations, and valve infrastructure was designed and permitted using a package snowmaking equipment supplier system. A new effluent storage pond is being added to hold the volumes generated between golf course irrigation and snowmaking usage times.

Services for this project included the following:

- Wastewater facility feasibility and planning.
- Design and permitting of 0.05 MGD and 0.1 MGD SBR treatment plants.
- Snowmaking layout design and permitting.
- Effluent storage pond design and permitting.
- Construction inspection, certification, record documents.
- Start-up and operational support.

Community Size:

~ 800 (Resort Use)

Construction Cost:

\$4.5 Million

Contact:

Brian Ashe, Director of Development
Yellowstone Club
406.995.7385



Lockwood Water & Sewer District Phase 1, 2, & 3 Billings, MT

Morrison Maierle has been working with the Lockwood Water and Sewer District on effort to install central sewer in this unincorporated area of Yellowstone Country since 1998. In terms of planning, we have produced numerous planning reports, assisted with funding applications, public relations, outreach and education, as well as providing engineering assistance through the boundary setting and bond election stages. These efforts have resulted in successful voter approval, design, bidding and construction of Phase 1 and Phase 2 Sewer.

Phase 1 was constructed in a series of 5 projects, consisting of 70,000 lineal feet of 8 to 30-inch collection and interceptor sewer, a sewer lift station with controls, and dual 12-inch force mains suspended from an MDT bridge to convey the flows to the City of Billings wastewater treatment plant. Morrison Maierle provided design, bidding, permitting, environmental, survey, and construction administration and construction observation. Completion of this interceptor provided sewer to the major commercial and industrial areas of the community, allowing for improved opportunity for economic development in the area. Increased development and redevelopment has been experienced.

The Phase 2 project extended sewer and replaced waterlines in previously developed residential areas of LWSD, consisting of approximately 43,000 lineal feet of 8 to 12-inch gravity sewer, and 6,000 feet of waterline replacement which is being completed from the community's water CIP to allow for efficient construction. Morrison Maierle provided design, bidding, permitting, environmental, survey, and construction administration and construction observation.

We have completed the planning for the Phase 3 Sewer Subdistrict and are currently assisting the District through the bond election process. The proposed Phase 3 project includes approximately 70,000 lineal feet of sewer main installation, extending the system to more residential users. The \$26 M project is fully funded with a grant/loan combination, and we are working with the District to continue to apply for additional grant funding for the project to lower costs to rate payers.

Services provided also included assistance to the District in meeting requirements of funding agencies, coordination with local and state agencies with regulatory authorities, and holding public meetings to inform and garner public support and keep the community informed about the projects. For all projects, Morrison Maierle initiated discussions early with Yellowstone County and MDT to discuss impacts to County and MDT rights of way. We coordinated with the County to complete full width restoration of county streets where appropriate and to optimize use of all stakeholder funds available to maximize the benefit and minimize the costs to the public.

Services for this project included the following:

- Design and construction administration for sewer system in Lockwood community to provide service to commercial and industrial areas.
- Wastewater PER Update.
- Bonding assistance.
- Environmental Assessment.

Community Size:

~ 6,800

Construction Cost:

\$45 Million

Contact:

Mike Ariztia, District Manager

406.259.4120



Town of Plains Wastewater Treatment Plant Lagoons Relocation

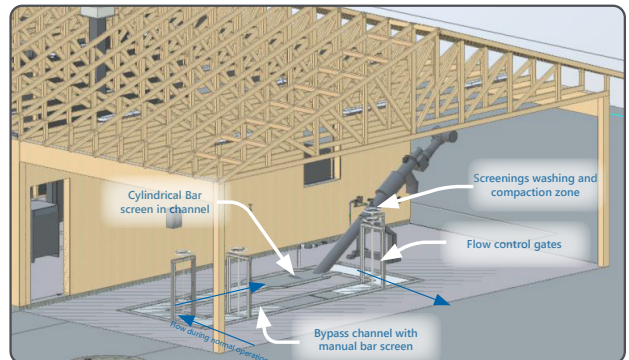
Plains, MT

The Town of Plains existing lagoon facility is threatened by a migrating Clark Fork River; therefore, the Town needed a fast-paced design to relocate the lagoon facility outside any flood plains and beyond the channel migration zone. An amended PER completed by others identified a suitable site and preferred treatment technologies. A three-cell aerated lagoon treatment system with continuation of surface water discharge to the Clark Fork River was the preferred alternative.

Throughout the design, Morrison-Maierle worked closely with the Town staff to preselect the equipment best suited for local conditions and operator preferences. Energy savings for a blower operation were considered, as well as operator labor requirements for daily operation and intermittent maintenance for all evaluated equipment. The preselection resulted in the ability to directly design around the selected aeration equipment, blowers, and UV disinfection system.

Services provided as part of this design effort included:

- Design of a completely new WWTP including process calculations, site civil, structural, mechanical, and electrical design by Morrison-Maierle with architectural and geotechnical services provided by sub-contractors.
- Coordination with MDEQ regarding project review & approval of deviation.
- Bid Administration.
- Construction Oversight and Administration.



Community Size:

~ 1161 Population; 116,000 Gallons per day

Construction Cost:

\$6.1 Million

Contact:

Dan Rowan, Mayor
406.826.6411

Four Corners County Water & Sewer District

Bozeman, MT

The Four Corners Water and Sewer District is located approximately eight miles west of Bozeman, Montana in Gallatin County. It currently provides public water and wastewater service to a population of over 5,000. Wastewater infrastructure includes collection systems, lift stations and force mains, two treatment facilities, and groundwater disposal.

Preliminary engineering reports, design reports, and other documents were prepared for the District as required for funding agencies and permitting for a new water reclamation facility (WRF). Design, bidding, construction, and post-construction services have been completed and subsequent SBR phases are under permitting review. This project included wastewater lift stations, headworks with a cylindrical basket screen, sequencing batch reactors (SBR), UV disinfection, non-potable water system, chemical feed systems, odor control, aerobic digestion, and a sludge dewatering press. Services for the project included the following:

- Project planning and preliminary design services.
- Coordination with MDEQ for compliance with regulatory requirements.
- Design of the WRF including site civil, structural, mechanical, and electrical design by Morrison-Maierle with architectural and geotechnical services provided by sub-contractors.
- Bidding and construction services.

Community Size:

~ 5,000

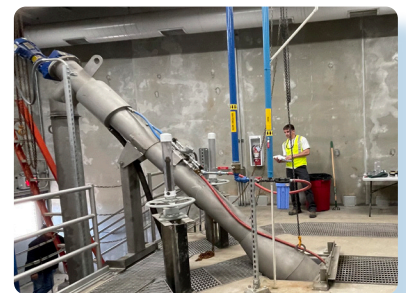
1.2 Gallons per day: Initial WRF flow 400,000 gpd
with expansions to 1,200,000 gpd

Construction Cost:

\$12.5 M

Contact:

Phil George, District Manager
406.585.4166



Moonlight Basin Wastewater Treatment

Big Sky, MT

Moonlight Basin is a growing resort area in Big Sky. It has an established water and sewer utility that is managing existing infrastructure and planning for the future. Historically, their wastewater treatment and disposal utilized forest irrigation in a non-public area. As the resort grows, land use conflicts with forest irrigation and the golf course irrigation potential were initial constraints of future effluent disposal planning. Upon completion of a wastewater treatment and effluent disposal study, it was determined that Class A-1 effluent, as defined by Montana DEQ-2, Appendix B, would be implemented for wastewater treatment design of new facilities. Effluent disposal in the near term will be unrestricted golf course irrigation, but opportunities for groundwater, surface water, and snow making disposals could be developed further with the high-quality effluent.

The challenge of this project was the design, permitting, and construction of a Membrane Bio-Reactor (MBR) treatment plant to produce Class A-1 reuse effluent (first in Montana) meeting strict Turbidity, Total Nitrogen, and Total Coliform limits.

Services for the project included the following:

- Treatment and effluent disposal feasibility study.
- Preselection of MBR equipment.
- Design and permitting of 0.1 MGD MBR treatment plant.
- Construction inspection, certification, record documents.
- Start-up and operational support.

Community Size:

~ 1,000 (Resort Use)

Construction Cost:

\$8.6 M

Contact:

Pete Adams, Plant Operator

406.580.1527



Bay Sewer Replacement Project

Bigfork, MT

The Bay Sewer Main was a critical sewer main that ran through a narrow corridor along the shore of Bigfork Bay in Flathead Lake. It served Bigfork's downtown business district along with several homes in the area. The main had numerous "bellies" (or low points) that trapped grease and other solids, leading to several close calls with overflows to Flathead Lake. Further complicating the situation, the main was not accessible to cleaning equipment due to construction of new developments along the lake blocking an old access road.

Morrison-Maierle prepared a Preliminary Engineering Report that evaluated several alternatives to complete the project. The final solution abandoned the existing gravity sewer main running along Flathead Lake and installed a new low-pressure sewer, pumping wastewater up to the public right-of-way. The low-pressure sewer was directional drilled to limit surface disruption.

Services for the project included the following:

- 1,500 feet of 8" PVC gravity sewer pipe.
- Removal of the old lift station.
- Funding assistance (SRF, Coal Severance Tax, WRDA, TSEP, RRGL).

Community Size:

~ 4,668

Construction Cost:

\$3.3 Million

Contact:

Julie Spencer, Manager

(406) 837-4566

bfws@montanasky.net



Cabinet Heights Sewer Project

Libby, MT

In 2004, Morrison-Maierle was selected to provide wastewater engineering services for the City of Libby's Cabinet Heights Sewer Project. The Cabinet Heights area, which consisted of approximately 100 homes that utilized on-site wastewater treatment and disposal systems, had a history of drainfield failures.

In 2004, the Preliminary Engineering Report prepared by Morrison-Maierle documented a 42 percent failure rate of on-site sewer systems in the area. Also, the Lincoln County Department of Environmental Health tested water seeping from the adjacent hillside to Cabinet Heights. The test found nitrate levels exceeding 10mg/L as well as the existence of fecal coliform bacteria. To address these problems, Morrison-Maierle recommended that a gravity sewer main be extended into the Cabinet Heights area from the existing City of Libby collection system and that the existing on-site wastewater treatment and disposal systems be abandoned.

Services for the project included the following:

- 13,500 feet of 8-inch gravity sewer main.
- 5,800 feet of gravity service lines.
- 1,870 feet of 6-inch force main.
- E-One Grinder Stations and service lines.
- New sewage lift station.

Community Size:

~ 2,775

Construction Cost:

\$3.2 Million



Chico Hot Springs Wastewater Treatment Pray, MT

Chico Hot Springs is a resort facility accommodating hotel lodging, convention center, restaurant and snack bar dining, a bar, swimming pools, and spa activities. The resort has historically operated a septic tank and subsurface disposal systems which has been expanded as needed to serve resort growth. Advanced Pump & Equipment (APE) and Morrison-Maierle have been working with Chico resort on their drain field improvements and operations. We identified BOD5 and TSS treatment improvements that could reduce high loading in the influent to preserve infiltration capacity and reliability in the drain field zones. The BOD5 and TSS treatment improvements were installed in 2016. Level II trickling filter treatment was identified as a solution to reduce nitrates within the nutrient loading allowed in the MGWPCS permit and will allow increased hydraulic use of the drain fields based on non-degradation calculations. The second phase of treatment was installed in 2021. The overall treatment improvements will allow Chico to consider growth of facilities with wastewater system capacity to handle some additional flows up to 24,500 gpd. The constructed project includes buried wastewater tanks with aeration, anoxic, settling, and pumping sections, pumping systems, and eight Level II trickling filters.

Services for the project included the following:

- Wastewater treatment system design including process modeling.
- Montana DEQ permitting.
- Construction observation, certification, and record documents.

Community Size:

~ 160

Construction Cost:

\$0.4 Million Estimate

Contact:

Kyle Woodlief
Peak Water Services
406.922.1721



Ridge Run Stadium Wastewater Treatment Kalispell, MT

Located north of Kalispell and without potential service connections to the City of Kalispell's municipal wastewater system, Ridge Run Stadium is requiring the construction of an advanced onsite wastewater treatment and disposal system. The stadium will be home to a new Pioneer Professional Baseball team starting in June of 2022. In addition to baseball games, the facility is being designed with a full restaurant and is anticipated to host concerts, trade shows and other large community gatherings. Seating capacity of the facility will be +/- 3,500 and will have peak single event wastewater flows of +/- 12,600 gallons per day. Wastewater characteristics are anticipated to be high strength, as classified by the State of Montana.

During initial design, an alternative analysis was completed that compared a small package membrane bioreactor (MBR) with a trickling media filter (Orenco Advantex). Based on capital costs and capabilities of the Advantex treatment system to meet future permit conditions, the project owner elected to proceed with final design and approvals for the Advantex treatment system.

Services for the project included the following:

- Wastewater treatment system design for high strength wastewater
- Montana DEQ permitting
- Groundwater Pollution Elimination Permitting

Community Size:

~ 3500 Person Capacity

Construction Cost:

\$0.8 Million Estimate

Contact:

Chris Kelly
Range Rider Baseball
406.519.4115

Team Qualifications

Understanding that Seeley Lake Sewer District is looking for a team capable of tackling the wide ranging needs for wastewater planning, design, permitting, bid and construction administration and post construction operation support, Morrison-Maierle presents a team of key engineers that are eager to collaborate with the District Board and Manager. Our team is vast in experience and we truly do understand that this project is your community's. Roles and time commitments from our staff will be shaped from early conversations with you. Based on the direction of preferred alternatives for both the collection system and treatment system(s), Morrison-Maierle will pull from the list of key team members listed in this section. Supporting this staff are over 40 additional engineers and technicians in Montana that are dedicated to finding wastewater solutions that enhance health environments for communities similar to Seeley Lake.

As project scopes are further designed after initial planning phases, Morrison-Maierle will utilize sub-consultants to meet the needs of preferred alternatives. These sub-consultant services will likely include a project architect, geotechnical engineer, grant administrator, and bond council. Morrison-Maierle has working relationships with multiple firms in each anticipated project need and will review qualifications of each sub-consultant brought onboard with the District after preferred alternatives are known.

Morrison-Maierle Staff Experience

Key Staff & Location	Project Management			Sewer Collection				Wastewater Treatment			Permitting			Construction		
	Project Management	Funding Administration	Community Engagement	Gravity Collection	Low Pressure Sewer (Septic Tank Effluent Pump)	Low Pressure Sewer (Grinder Pump)	Lift Station Design	Lagoon Treatment	Mechanical Treatment	Onsite Advanced Treatment	Surface Water Permitting (MPDES)	Groundwater Permitting (MGWPCS)	Emerging Technologies, Water Reuse	Bidding Administration	Construction Administration	Operational Startup Assistance
Eric Blanksma Helena, MT	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲		▲	▲	▲	▲	▲
Jeff Cicon Kalispell, MT	▲	▲	▲	▲		▲	▲			▲				▲	▲	
Jill Cook Billings, MT	▲	▲	▲	▲	▲	▲	▲	▲						▲	▲	▲
Pat Eller Bozeman, MT											▲	▲	▲	▲	▲	▲
Rika Lashley Helena, MT							▲	▲	▲	▲	▲	▲	▲	▲		▲
Aaron McConkey Missoula, MT	▲	▲	▲	▲	▲	▲	▲			▲		▲		▲	▲	▲
Jason Mercer Helena, MT	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
James Nickelson Bozeman, MT	▲	▲	▲	▲	▲	▲	▲			▲	▲	▲	▲	▲	▲	
Stephanie Seymanski Billings, MT	▲	▲	▲	▲			▲			▲				▲	▲	
Mason Tuttle Bozeman, MT				▲	▲		▲			▲					▲	▲

Appendix Resumes

Eric Blanksma is a project manager and senior water/wastewater engineer. He has prepared preliminary engineering reports, facility plans, and basis of design reports for planning, design, and permitting reviews. His wastewater experience includes treatment processes, equalization basins, headworks screening and grit removal, aerobic digestion, solids handling dewatering and disposal, UV disinfection, effluent disposal, odor control, lift stations, and collection systems. Eric provides expertise for process instrumentation and control for complex plant projects. His experience includes planning, design, construction administration, and operational support.

APE - Chico Hot Springs Level II Wastewater, Pray, MT

Role: Project Manager and Lead Design Engineer

- Design and permitting for wastewater treatment system.
- Review shop drawings for wastewater treatment equipment and pumps.
- Perform construction inspection and witness hydrostatic tests.
- Complete DEQ certification with record drawings and O&M.

MB MT Acquisition - Moonlight Basin WWTP #2, Big Sky, MT

Role: Project Manager and Lead Design Engineer

- Preliminary design including equipment preselection process.
- Headworks screening, influent pump station, flow splitting gates, non-potable water pumping system, UV disinfection, and chemical feed systems.
- Membrane batch reactor ultrafiltration treatment process.
- Class A-1 effluent storage and reuse.

Yellowstone Mountain Club, WWTP Phases 1 and 2- Big Sky, MT

Role: Project Manager and Lead Design Engineer

- Phase 1 included sequencing batch reactor treatment (SBR) process including headworks, mixed liquor basins with aeration and mixing, aerobic sludge digestion, and post equalization.
- Phase 2 includes SBR basins, secondary effluent pumping systems, tertiary cloth media filtration, and disinfection.

Four Corners W&S District - Water Reclamation Facility, Bozeman, MT

Role: Quality Assurance

- Wastewater infrastructure includes collection systems, lift stations and force mains, two treatment facilities, and groundwater disposal.
- Included wastewater lift stations, headworks with screening, sequencing batch reactors (SBR), UV disinfection, non-potable water system, chemical feed systems, odor control, aerobic digestion, and a sludge dewatering press.

City of Boulder - Wastewater Treatment Facility, Boulder, MT

Role: Design Engineer

- Design of a new mechanical wastewater treatment facility.
- Abandonment of aging lagoon treatment system.
- Improvements to the existing collection system.

River Rock County Water & Sewer District, WWTF – Belgrade, MT

Role: Design Engineer, Construction Administration and Operational Support

- Membrane bioreactor (MBR) treatment process with headworks, EQ, MLE process, ultrafiltration, UV disinfection, and MGWPCS discharge.
- Lift station modifications and conversion from aerated lagoon system.



- **21 Years Experience**
- **Helena Office**

Education

Civil Engineering BS,
2001; Montana State
University

Registration

MT PE 14850
MT Certified 1C WW
Operator

Expertise

- Lift Stations and
Force mains
- On-Site Wastewater
- Sewer Collection
- Wastewater
Treatment Plants
- Effluent Disposal

Professional History

2002-Present:
Morrison-Maierle,
Water/Wastewater
Engineer

2001-2002: Boeing
Company, Engineer

2000 - 2001: Fluidyne,
Inc., Engineering
Department

2000: City of Bozeman,
Engineering
Department

Jeff Cicon is a Professional Engineer and Land Surveyor Intern with the State of Montana. He is a Project Manager at Morrison-Maierle, specializing in water and wastewater planning and design, Preliminary Engineering Reports, stormwater planning and design, site grading, permitting, and the preparation of construction plans and specifications. He also has extensive surveying experience in construction staking, topographical mapping, and legal surveying

Bay Sewer Main Replacement Project – Bigfork, MT

Role: Project Manager

- Oversaw the production of plans, specifications, and design report replacement of an existing sewer main.
- The project will remove a failing gravity sewer main along Bigfork Bay and replace it with a pressure sewer system.
- The existing lift station is to be removed from service and replaced with new lift station in a more accessible location.
- The project includes numerous easement acquisitions from private property owners.

Hot Springs Wastewater Improvements Project – Hot Springs, MT

Role: Project Manager

- \$1.1 million project that provided improvements to the existing lagoons, lift station, and collection system based on the recommendations in the PER.
- This project was funded by a combination of grants and loans through USDA-Rural Development and TSEP.
- Lagoon improvements included new control valves, a flow monitoring system, and dechlorination system.
- Improvements to the lift station included a new vertical auger to prevent debris from entering the lift station pumps and ultimately the lagoons.
- Improvements to the collection system included rehabilitating or replacing gravity sewer lines and manholes suspected of infiltration.

Eagle Bend North and South Lift Station Improvements – Bigfork, MT

Role: Project Manager

- Project included the rehabilitation of the existing lift stations in the Eagle Bend Subdivision in Bigfork.
- A liner was placed inside the existing wet well to prevent infiltration due to high groundwater in the area.
- A packaged system from Gorman Rupp replaced the existing grinder pumps and controls.
- The new pumps were installed with variable frequency drives to allow for future expansion in the area.
- Backup generators that ran off natural gas were included in the project.

Cabinet Heights Sewer Project – Libby, MT

Role: Project Engineer

- \$3.2 million project that provided sanitary sewer to 105 residences previously on septic systems, many of which were failing.
- This project was funded by a combination of grants and loans through USDA-Rural Development, TSEP, DNRC-RRGL, and WRD.



- 14 Years Experience
- Kalispell Office

Education

Civil Engineering BS,
2007; Montana State
University

Registration

MT PE 23787
MT LSI 18625
ID PE 18387
WA PE 57456

Expertise

- Construction Staking
- Easement Acquisition
- Preliminary Engineering Reports
- Site Plans
- Stormwater Planning & Design
- Topographical Mapping
- Water and Waster Planning & Design

Training

- CPR/Obstructed Airway/AED

Professional History

2008-Present:
Morrison-Maierle, Civil
Engineer
Land Surveyor Intern

2007 - 2008: Hyalite
Engineers, PLLC, Civil
Engineer\Engineer
Intern

Jill Cook is a senior engineer with experience in planning, design, and construction of water and wastewater facilities. She has served as a Project Engineer and Project Manager on a wide variety of collection, distribution, pumping and treatment projects. She has a strong background in preparation of Master Plans and Preliminary Engineering reports to meet funding requirements and to assist communities in maximizing their success in securing state and federal funding. Jill has broad experience working on complex projects with numerous funders, state and federal regulatory and permitting agencies to bring projects to a successful completion in accordance with requirements of numerous participating stakeholders. She has been involved with both rehabilitation of water and sewer systems and developing new systems in previously unserved but already developed areas. Wastewater experience includes collection, lift stations and treatment. Jill places a high priority on excellent client service

Lockwood Water and Sewer District (LWSD), Phase 1 Sewer Subdistrict Sewer Project, - Lockwood, Montana

Role: Project Engineer/Assistant Project Manager

- Responsibilities included participation in preparation of a Master Facilities Plan Update as well as a Basis of Design Report for this five phased, \$20 million dollar project to provide a central sewer system to Lockwood, which was fully developed but previously unsewered.
- Provided design services, bidding assistance and construction administration services for 70,000 lineal feet of 8" thru 30" sanitary sewer, two lift stations, a sampling and valving building, installation of dual force mains suspended from an MDT bridge, a low pressure sewer system in an EPA Superfund Site, and extensive coordination with the City of Billings, Yellowstone County, EPA, DEQ, MDT, MRL/BNSF, state and federal funders, business owners, and numerous other stakeholders.

LWSD, Phase 2 Sewer Subdistrict Sewer/Water Project - Lockwood, Montana

Role: Project Manager

- Master plan preparation, public education and outreach, bonding and identifying and securing grant and loan funding for this \$9.6 M sewer project.
- Design, permitting, bidding and construction phase services to install approximately 43,000 lf of gravity sewer and 7,000 lf of waterline.
- Coordination with numerous involved parties including Yellowstone County, MT DEQ SRF Program, TSEP, RRGL and USDA-Rural Development.
- Partnered with Yellowstone County and other utilities to replace additional asphalt roadway and utilities adjacent to the planned project.
- The partnership cost effectively provides the Phase 2 area with expansion of the central sewer system, road improvements and new natural gas mains.

LWSD, Phase 3 Sewer Subdistrict Sewer - Lockwood, Montana

Role: Project Manager

- Assisted LWSD with planning, public education and outreach.
- Currently working on establishing a subdistrict and preparing for bond election, including conducting public meetings, working with bond counsel.
- Our planning documents were used to secure full funding including grants and loans for this \$26 M sewer project to serve additional residential areas.



- **17 Years Experience**
- **Billings Office**

Education

BS Civil Engineering;
1999, University of Wyoming

Registration

Professional Engineer:
MT No. 19585; 2009

Expertise

- Water Supply Treatment & Distribution
- Wastewater Collection, Pumping & Treatment
- Master Planning

Professional Associations

American Society of Civil Engineers-former President, MT Eastern Branch
American Water Works Association
Billings Engineers Club: Board of Directors and former President

Professional History

2007-Present, Morrison-Maierle, Inc., Senior Engineer
1999-2001, State of Wyoming, Dept. of Transportation Hydraulic Engineer

Mr. Eller has experience in groundwater characterization, supply and well design throughout Montana, Arizona, Idaho, Utah, Wyoming, North Dakota and South Dakota. He provides groundwater services to municipal, development, and agricultural clients. Mr. Eller has experience in groundwater and geological investigations for groundwater supplies, water quality assessments, aquifer characterizations, groundwater and surface water interaction, well construction design and well head protection. He is experienced in all types of production and monitoring well drilling practices. He is experienced in measurement of discharge of small streams. He regularly performs water rights research, interacts with ditch companies, ditch riders, landowners, and the DNRC. He has extensive knowledge on permitting of new water rights, and changing existing water rights. Mr. Eller provides geologic services to the Open-cut Mining industry in resource mapping, exploration, reclamation design and permitting.

City of Helena – Wastewater Effluent Disposal Feasibility Study - MT

Role: Geologist

- Hydrogeological characterization of Helena Valley with focus on areas for disposal of large volumes of municipal generated wastewater effluent.
- Disposal volumes of 2.0 to 4.0 MGD were evaluated for multiple sites.
- Initial overall study identified multiple locations for groundwater disposal.
- Provided preliminary design for infiltration percolation and rapid infiltration designs.
- Preliminary assessment of non-degradation and groundwater discharge permitting compliance.
- Alternatives analysis for disposal including wetland disposal, irrigation with storage and discharge to the Missouri River.

AgVictus, Hydrogeologic Assessment & Well Replacement – Fillmore, UT

Role: Geologist

- Completed hydrogeologic assessment and recommendations report on a 7,000 acre farm to overcome both groundwater quality and quantity issues on the farm.
- Completed eight test wells and four new 18-inch diameter production wells using air rotary techniques with dual rotary technology.
- Wells were tested at 2,000 to 4,000 gpm and fitted with 2,000 to 3,500 gpm vertical turbine pumps.
- Wells were completed in alluvial sediments of Lake Bonneville below overlying basalt flows using vee-wire screens with natural development.
- Completed a WATERCAD model of the water system including 26 wells, 12 booster stations, 51 separate irrigation systems, and over 30 miles of pipeline.

P&S Montana Farms – Wastewater Disposal Permitting, Bozeman, MT

Role: Geologist

- Effluent disposal design and permitting.
- On-site infiltration testing.
- Non-degradation Analysis.
- Groundwater monitoring well installation oversight and sampling.
- Groundwater discharge permitting through MT DEQ.
- EPA Class V Injection permitting.



- **24 Years Experience**
- **Bozeman Office**

Education

Geology BS, 1997;
Montana State
University

Registration

WY PG PG-3921
ID PG PGL-1595
UT PG 9520092-2250
OR PG G2430

Training

- Financial Management Training
- Aquifer Test Analysis Training
- Open-cut mine training

Professional Associations

American Water Resources Association

National Ground Water Association

American Institute of Professional Geologists

Professional History

1998-Present:
Morrison-Maierle,
Geologist

Rika Lashley is an environmental engineer who works in Morrison-Maierle's Helena office. Her experience includes planning, design, and construction of wastewater conveyance and treatment systems with an emphasis on wastewater process design including biological nutrient removal. Specific focus areas include wastewater treatment systems assessment and planning, BioWin process modeling, effluent mixing zone studies, MPDES Permitting, and land application of biosolids. Rika is particularly passionate about wastewater process design and analysis.

Bigfork - PER Update and Sewer Modeling - Bigfork, MT

Role: Environmental Engineer

- Treatment system capacity evaluation with respect to seasonal flows and loads due to tourism.

City of Deer Lodge - WWTP Improvements, Deer Lodge, MT

Role: Project Engineer

- Facility planning, design, and construction of an activated sludge plant.
- Capacity to remove nutrients as mandated by tightening regulations.
- Ongoing coordination with DEQ addressing MPDES permit compliance issues.
- Floodplain and environmental permitting.
- Work to coordinate multiple state and federal agencies.

Corvallis-Ravalli County Sewer District- WW Treatment Facility Improvements PER, Corvallis, MT

Role: Lead Design Engineer

- Evaluate existing treatment system including lagoon treatment and I/P cell capacity.
- Plan for new headworks and UV disinfection system.
- Plan for lift station rehabilitation.
- Review of groundwater discharge permit conditions and future permit requirements.

Gardiner Park Co Water & Sewer - 2020 Gardiner Wastewater Imp - Design, MT

Role: Design Engineer

- Treatment system capacity evaluation with respect to seasonal flows and loads due to tourism.
- Process design upgrades to accommodate current and projected summer and winter wastewater flows and loads.

Town of Plains - Design/Construction New WWTP Facility, Plains, MT

Role: Lead Design Engineer

- Design of a new lagoon-based WWTP on a greenfield site obtained by the Town of Plains.
- Utilized a operator centric process for selection of the new headworks, aeration, UV disinfection systems and building materials for the treatment building.

Sun Prairie-WWTF Upgrades, Cascade County, MT

Role: Lead Design Engineer

- Cell 1 aeration equipment replacement.
- New nitrification reactor on deep pier foundation.



- **16 Years Experience**
- **Helena Office**

Education

Environmental Engineering BS, 2005; South Dakota School of Mines and Technology

Social Work BS, 1997; Winona State University

Registration

MT PE 20188

Expertise

- BioWin Modeling
- BNR Facility Design
- Lift Station Design
- MPDES Permitting
- Wastewater Process Design
- Wastewater Treatment Planning

Training

- Mixing Zone and Cormix Mixing Model Training
- EnviroSim BioWin Process Modeling

Professional History

2006-Present:
Morrison-Maierle,
Water/Wastewater
Engineer

A market group leader in the Missoula Office, Aaron partners primarily with municipalities and public sector developments to provide solutions that enhance utility service, transportation connections and site integration. He is dedicated to finding durable solutions that fit the landscape and reduce long term operation and maintenance for water, sewer and stormwater utilities. With a career history as both as a municipal engineer and consulting engineer, he understands the importance of relationships and trust needed between the citizens and municipalities.

City of Missoula - Reserve Street Lift Station, Missoula, MT

Role: Construction Manager

- Evaluation of lift station replacement alternatives for an existing lift station located in the heart of the collection system.
- Upgraded the existing two pump system to a four-pump system for greater flexibility in handling changing flows due to growth.
- Lowered electrical usage by the lift station with use of multi-pumps.
- Design, construction administration and start-up assistance.

Corvallis-Ravalli County Sewer District- WW Treatment Facility Improvements PER, Corvallis, MT

Role: Water/Wastewater Engineer

- PER for improvements at the existing treatment system to include a new headworks, aeration for cell 1 and 2 and UV treatment building.
- Evaluate existing treatment system including lagoon treatment and I/P cell capacity.
- Plan for new UV disinfection system.
- Plan for lift station rehabilitation.
- Review of groundwater discharge permit conditions and future permit requirements.

City of Missoula - Grant Creek Lift Station Replacement, Missoula, MT

Role: Construction Engineer

- Evaluation of alternatives to consider complete abandonment of the existing lift station with a gravity main or rehabilitation of the existing lift station.
- Detailed present worth analysis to aid in the decision-making process.
- Design, surveying, permitting, right-of-way and construction administration services for a new gravity trunk main that crossed Grant Creek, Montana.

Town of Plains - Design/Construction New WWTP Facility, Plains, MT

Role: Water/Wastewater Engineer

- Design of a new lagoon based WWTP on a greenfield site obtained by the Town of Plains.
- Utilized an operator centric process for selection of the new headworks, aeration, UV disinfection systems and building materials for the treatment building.
- Sized system to accommodate growth within the 20-year planning horizon.
- Designed new influent and effluent connections to utilize existing force main and discharge piping.
- Balanced earthwork requirements for the new site which required subexcavation and recompaction of the existing materials.
- Provided funding and permitting support to the Town Engineer.



- 17 Years Experience
- Missoula Office

Education

Civil Engineering BS,
2005; Montana State
University

Registration

MT PE 17068

Expertise

- Funding Strategies
- Groundwater Treatment
- Onsite Sewer Treatment
- Preliminary Engineering Report
- Pumping Stations
- Sanitary Sewer Collection Planning
- Sanitary Sewer Collection Rehabilitation
- School Site Plans
- Sewer Lift Station
- Storm Drain Systems
- Storm Water Flow Control
- MCEP/CDBG Grant Administration

Professional History

2015-Present:
Morrison-Maierle, Civil
Engineer

Jason Mercer is a senior project manager with experience in managing planning, design and construction projects for municipal water and wastewater systems. His background includes all phases of water and wastewater projects, including facility planning, computer modeling, public involvement, preliminary and final design, funding approaches, land acquisition and right-of-way negotiations, bidding services and construction administration. His experience includes pumping and lift stations, water and wastewater treatment, distribution and collection, storage and disposal systems. Jason serves as our overall market leader for water and wastewater services within Montana and Wyoming.

Town of Plains - Design/Construction New WWTP Facility, Plains, MT

Role: Project Manager

- Design of a new lagoon based WWTP on a greenfield site obtained by the Town of Plains.
- Utilized a operator centric process for selection of the new headworks, aeration, UV disinfection systems and building materials for the treatment building.
- Sized system to accommodate growth within the 20-year planning horizon.
- Designed new influent and effluent connections to utilize existing force main and discharge piping.

City of Missoula - Reserve Street Lift Station, Missoula, MT

Role: Project Manager

- Evaluation of lift station replacement alternatives for an existing lift station located in the heart of the collection system.
- Upgraded the existing two pump system to a four-pump system for greater flexibility in handling changing flows due to growth.
- Lowered electrical usage by the lift station with use of multi-pumps.
- Design, construction administration and start-up assistance.

City of Missoula - Grant Creek Lift Station Replacement, Missoula, MT

Role: Project Manager

- Evaluation of alternatives to consider complete abandonment of the existing lift station with a gravity main or rehabilitation of the existing lift station.
- Detailed present worth analysis to aid in the decision-making process.
- Design, surveying, permitting, right-of-way and construction administration services for a new gravity trunk main that crossed Grant Creek, Montana Department of Transportation and Montana Rail Link properties.

City of Deer Lodge - WWTP Improvements, Deer Lodge, MT

Role: Quality Assurance/Quality Control

- A series of several projects which included facility planning, design, and construction of an activated sludge plant.
- New plant replaced an aging and failing four-cell lagoon system.
- Design and construction of new WWTP within footprint of one of the existing lagoon basins.

Bullhead City-WWTP Section 10 Headworks, Bullhead City, AZ

Role: Project Manager

- Design of headworks improvements for its 4.0 MGD Section 10 WWTP.
- Rehabilitation of the influent pump station and new rotary drum influent screening facility for the headworks at the Section 10 WWTP.



- 25 Years Experience
- Helena Office

Education

Civil Engineering BS,
1996; North Dakota
State University

Registration

AZ PE 44470
MT PE 14867

Expertise

- Construction Administration
- Design
- Equipment Selection
- Headworks
- Project Management

Professional Associations

American Society of
Civil Engineers

American Water Works
Association

Society of Marketing
Professional Services

Water Environment
Federation

Professional History

1997-Present:
Morrison-Maierle, Vice
President / WWW
Market Group Leader

James Nickelson is a senior engineer with experience in planning, design and construction of civil infrastructure as well as project management. He has expertise in water/wastewater, street/road, irrigation and stormwater projects. James also has expertise in land development entitlement permitting. Other areas of expertise include project financing, capital planning, and construction administration. James has managed a number of large projects and administrated construction contracts with values up to \$50,000,000 including major upgrades to the City of Bozeman's Water Treatment Plant and their Water Treatment Plant. He provides budgeting and administration services for a \$2,000,000 annual maintenance and capital improvement program for Rural Improvement Districts in Gallatin County.

Water Reclamation Facility Expansion, Bozeman – MT

Role: Project Manager

- Construction engineering services.
- Site design and permitting for a \$54,000,000 expansion of the City of Bozeman's Water Reclamation Facility.

Moon Light Basin. - Wastewater Treatment and Effluent Disposal, Big Sky - MT

Role: Project Manager

- Preliminary engineering study to provide additional wastewater treatment capacity.
- Investigate various methods of effluent disposal including rapid infiltration, deep well injection and surface water discharge among other options.

Rural Improvement District Project, Gallatin County – MT

Role: Project Engineer

- Administration assistance for the operation of water and wastewater systems in Gallatin County.

Utility Solutions, LLC. - Groundwater Discharge Permit (MGWPCS), Bozeman - MT

Role: Quality Assurance/Senior Technical Services

- Discharge Quality permit Assurance/Senior to dispose of Technical wastewater Services effluent in infiltration/percolation basins, rapid infiltration basins, and spray irrigation.

Utility Solutions, LLC. - Rapid Infiltration Effluent Disposal, Bozeman - MT

Role: Quality Assurance/Senior Technical Services

- Design & construction engineering services for a rapid infiltration effluent disposal system.



- **37 Years Experience**
- **Bozeman Office**

Education

Civil Engineering MS,
1992; Colorado State
University

Civil Engineering BS,
1987; Montana State
University

Registration

MT PE 9063

Expertise

- Community
Wastewater Systems
- Discharge
Permitting
- Grading Plans
- Hydraulics
- Onsite Wastewater
Systems
- Public Water Supply
Systems
- Pump Stations
- Sewer Design
- Stormwater
- Wastewater
Planning
- Water Design
- Water System
Modelling

Professional History

2000-Present:
Morrison-Maierle,
Senior Engineer
Water/Wastewater
Group Office Leader

Stephanie Seymanski is a senior civil engineer with experience in the planning and design of water, wastewater, and storm water facilities. Her design experience includes work on various water, sewer, storm water, site development, and street projects. Stephanie's project experience includes project management; preparation of reports, design drawings and specifications; preparation of preliminary engineer reports (PERs) for both water and wastewater facilities; coordination with governmental agencies for funding and permitting; and construction administration.

Bigfork Water Sewer District – Bay Sanitary Sewer Improvements, Bigfork, MT

Role: Project Engineer

- The project replaced a failing sewer main along Bigfork Bay.
- 1,500 feet of gravity sewer main replacement.
- 16 new E-One Grinder Stations with 1,100 feet of low-pressure sewer.
- New Gorman Rupp lift station, backup generator, and a 4 inch force main.
- Funding Sources: WRDA, TSEP, DNRC-RRGL,SRF, Coal Severance Tax, and local funds.

Crow Tribe of Indians – Phase 3C Wastewater Improvements, Crow Agency, MT

Role: Project Engineer

- Replaces sewer mains in dire need of replacement and lift station critical to the south end of Crow Agency.
- Extensive client coordination AWWWA & Crow Tribe and multiple funding agency coordination, including USDA RD, MDOC(TSEP & Coal Board, EPA, IHS, and DNRC(RRGI and ARPA).
- Permitting including MDT utility permit, revocable permits, and easements through BIS, and BNSF permitting.
- Pre-design including design survey, lift station siting study, and preliminary design drawing layouts.
- Final design including sewer main and lift station improvements, and specifications.
- Bidding, construction administration, staking and project closeout.

Gardiner Park Water & Sewer - 2022 Gardiner Wastewater Improvements & Design, Gardiner, MT

Role: Project Manager

- Wastewater Treatment Facility improvements including removal and disposal of sludge, liner removal and replacement, aeration upgrades, and building and controls upgrades.
- Sewer main cured-in-place-pipe rehabilitation.
- Project funded by RRGL grant, SRF loan, resort tax proceeds, and National Park Service funding.

Lockwood Sanitary Sewer District 2020 -2022 PER Update & Bonding Assistance, Billings, MT

Role: Project Engineer & Project Manager

- Preparation of PER Update to secure MCEP and RRGL grants and USDA RD and SRF loans. Preparation of Environmental Assessment for USDA RD purposes.
- Assistance during for Special Assessment/Bonding process.
- Preparation of boundary legal descriptions and exhibits.



- **29 Years Experience**
- **Billings Office**

Education

Civil Engineering BS,
1993; Montana State
University

Registration

MT PE 11215
WY PE 10001

Expertise

- Preliminary
Engineering Reports
- Storm Water
- Utility and Stream
Permitting
- Wastewater
- Water

Professional Associations

American Society of
Civil Engineers

Water Environment
Federation

Professional History

2002-Present:
Morrison-Maierle,
Water/Wastewater
Engineer

1996 - 2001: Spectrum
Engineering, Project
Engineer

Mason Tuttle is a civil design engineer with experience in design and permitting for a variety of land development projects. His early experience in civil construction inspection and testing provides a solid, practical background to draw from as a designer. Mason's technical skills and experience include technical report writing, design calculations, drafting design drawings and specifications. Mason has established strong professional relationships with state and local agencies while working through a wide variety of challenging land development design and permitting projects. Mason has extensive experience with onsite wastewater treatment, water supply, and stormwater management serving clients in rural communities throughout Montana.

Four Corners W&S District - Water Reclamation Facility, Bozeman, MT

Role: Civil Engineer

- Four Corners Water and Sewer District (District) is a County water and sewer district located approximately eight miles west of Bozeman, Montana in Gallatin County.
- Preliminary engineering reports, design reports, and other documents were prepared for the District as required for funding agencies and permitting for a new water reclamation facility (WRF).
- Topographic mapping, preliminary site layout and preliminary meetings with MDEQ.
- Wastewater infrastructure includes collection systems, lift stations and force mains, two treatment facilities, and groundwater disposal.
- Design, bidding, construction, and post-construction services.

437 Main - Blunderbuss DEQ COSA Rewrite, Bozeman, MT

Role: Civil Engineer

- Engineering design services for public onsite water supply and wastewater treatment and disposal.
- DEQ coordination and permitting for public systems.

Stillwater County Fairgrounds Facility Improvement, Columbus, MT

Role: Civil Engineer

- Fairgrounds complex design on a previously undeveloped 24.5-acre site in Stillwater County, near Columbus, MT.
- 71,000 sf multi-use Events Center.
- 10,000 sf Public Works building.
- Outdoor rodeo arena, with planning for future building enclosure.
- Significant on- and off-site utility design.

Xanterra - Canyon G-Loop Redevelopment, Yellowstone Park, WY

Role: Civil Engineer

- Repurposing of an outdated camping area with new RV sites and modular employee single-family housing units.
- Installation of new water and sewer system. New water pump station for domestic and fire protection.
- Responsible for site civil work, including water, sewer, grading, road alignment, and preparation of permit applications and contract documents.



- **8 Years Experience**
- **Bozeman Office**

Education

Civil Engineering BS,
2014; Montana State
University

Business
Administration BS,
1998; University of
Montana

Registration

MT PE 60594

Expertise

- AutoCAD Civil3D
Drafting
- DEQ Submittals
- Lift Station Design
- Onsite Wastewater
Treatment
- Sewer Infrastructure
Design
- Site Civil Design
- Site Grading
- Site Utility Design
- Soil Compaction
Testing
- Storm Drainage
Design
- Water Infrastructure
Design
- WaterCad Modeling

Professional History

2013-Present:
Morrison-Maierle, Civil
Engineer Intern



Morrison
Maierle

engineers ▪ surveyors ▪ planners ▪ scientists