



## 2023 319 Application Form - General and Focus Watershed

### General Information

Project Name Takima Park Riparian Enhancement and Fisheries Protection

Sponsor Name City of Missoula

Registered with the Secretary of State? ☒

Registered with SAM? ☒

UEI # NBMKDLVHBMF1

Does your organization have liability insurance? ☒

Primary Contact Tracy Campbell

Signatory Jordan Hess

Title Superintendent

Title Mayor

Address 1345 West Broadway St

Address 435 Ryman St

City Missoula State ☒ Zip Code 59802

City Missoula State ☒ Zip Code 59802

Phone Number 406-830-5455

Phone Number 406-552-6005

Email Address campbellTL@ci.missoula.mt.us

Email Address hessJ@ci.missoula.mt.us

Signature 

Signature 

#### Technical and Administrative Qualifications

The City of Missoula Public Works & Mobility Department has many staff to lend technical and administrative support for this project: e.g., professional engineers, administrative assistants, environmental scientist, outreach program specialist, and communications specialist. The City Parks & Recreation Department has expertise in ecosystems services, plant propagation, habitat restoration and public outreach. The Missoula Valley Water Quality District has specialists in geohydrology, water chemistry, and water quality monitoring.

**Budget Summary:** *\*Fields outlined in **black** on this page will auto-populate from other sections of the application form. Fields outlined in **red** on this page will not auto-populate. You must manually input the information for fields outlined in **red**.*

|                                  | 319 Funding Request | Non-Federal Match | Other Funding | Total Cost |
|----------------------------------|---------------------|-------------------|---------------|------------|
| Education and Outreach Project   |                     |                   |               |            |
| Administration                   |                     |                   |               |            |
| <b>Project 1 Name</b>            |                     |                   |               |            |
| Project Planning                 |                     |                   |               |            |
| Landowner Agreements             |                     |                   |               |            |
| Project Implementation           |                     |                   |               |            |
| Project Effectiveness Monitoring |                     |                   |               |            |
| <b>Total</b>                     |                     |                   |               |            |
| <b>Project 2 Name</b>            |                     |                   |               |            |
| Project Planning                 |                     |                   |               |            |
| Landowner Agreements             |                     |                   |               |            |
| Project Implementation Project   |                     |                   |               |            |
| Effectiveness Monitoring         |                     |                   |               |            |
| <b>Total</b>                     |                     |                   |               |            |
| <b>Project 3 Name</b>            |                     |                   |               |            |
| Project Planning                 |                     |                   |               |            |
| Landowner Agreements             |                     |                   |               |            |
| Project Implementation Project   |                     |                   |               |            |
| Effectiveness Monitoring         |                     |                   |               |            |
| <b>Total</b>                     |                     |                   |               |            |
| <b>Project 4 Name</b>            |                     |                   |               |            |
| Project Planning                 |                     |                   |               |            |
| Landowner Agreements             |                     |                   |               |            |
| Project Implementation Project   |                     |                   |               |            |
| Effectiveness Monitoring         |                     |                   |               |            |
| <b>Total</b>                     |                     |                   |               |            |
| <b>Grand Total</b>               |                     |                   |               |            |

## Education and Outreach

Developing good projects often requires a considerable amount of time and effort up front to build relationships and trust with individual landowners and stakeholder groups. It also requires adequate training for project sponsor staff (e.g., technical training, project management, public procurement, technical writing, etc). To promote the development of future projects, DEQ is encouraging project sponsors to use up to \$5,000 in 319 funding for education and outreach to develop and capitalize on critical relationships and to improve organizational capacity. DEQ also encourages applicants to incorporate on-the-ground projects into education and outreach efforts through on-site demonstrations and project tours. 319 funding may not be used to pay for food and beverages, or for honorariums and gifts.

Activity (method of delivery)

Target Audience

Goals

Effectiveness Evaluation

Activity (method of delivery)

Target Audience

Goals

Effectiveness Evaluation

Activity (method of delivery)

Target Audience

Goals

Effectiveness Evaluation

| 319 Funding<br>Request | Non-Federal<br>Match | Other<br>Funding* | Total   |
|------------------------|----------------------|-------------------|---------|
| _____                  | _____                | _____             |         |
| Match Source _____     |                      |                   | Secured |
| Match Source _____     |                      |                   | Secured |
| Match Source _____     |                      |                   | Secured |

*\*Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

## Project Administration

Project administration includes book keeping, invoicing, interim/annual/final report preparation, office supplies, rent, communications, etc. 319 funding applied to this task must not exceed 10% of the total amount of 319 funding requested, or \$12,000, **whichever is lower**. Like all other tasks, payment is by reimbursement for actual expenses incurred.

| 319 Funding Request | Non-Federal Match | Other Funding* | Total Cost |
|---------------------|-------------------|----------------|------------|
| _____               | _____             | _____          |            |
| Match Source _____  |                   |                | Secured    |
| Match Source _____  |                   |                | Secured    |

*\*Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

# Project 1

# Project Form

A separate Project Form (***including providing separate attachments***) must be submitted for each project included in your application. Use the following examples to help determine when to lump and when to split projects. For additional assistance, contact Mark Ockey at [mockey@mt.gov](mailto:mockey@mt.gov) or 406-444-5351.

## Splitting Examples (fill out multiple Project Forms)

- Stream restoration work occurring on two separate streams, on parcels owned by two separate individuals
- Two projects with significantly different sets of project partners
- Two projects that address substantially different pollution sources (e.g., one project moves a corral off of a streambank, and another removes mine tailings, with both projects being on the same property)

## Lumping Examples

- Contiguous stream restoration work spanning multiple land parcels
- 3 projects that address similar sources of pollution on a single land parcel (e.g., moving a corral off a stream, implementing a grazing management plan, and relocating a manure storage facility out of the floodplain, all on the same ranch)

**Project 1 Name**

**Project 1 - Problem Description**

Select the watershed restoration plan (WRP) that your project will help implement.

Letter of support from author entity attached? *(If no, explain why below.)*

Waterbody name from the 2020 List of Impaired Waters

Probable causes of impairment to be addressed

Waterbody name from the 2020 List of Impaired Waters

Probable causes of impairment to be addressed

Name of healthy waterbody to be protected

Description of identified threat to non-impairment status

Name of healthy waterbody to be protected

Description of identified threat to non-impairment status



## **Detailed Problem Description**

Provide a detailed description of the nonpoint source pollution problem you are attempting to address. Be sure to include the following:

- Identify the primary types of pollution
- Identify the primary sources of the pollution
- Identify the root causes of the pollution
- Describe any previous work done to address the problem (who, what, where, when)
- Describe the impacts of the problem (who, what, where)

## Project 1 - Solution Description

Provide a detailed description of the solution you are proposing to implement to address the nonpoint source pollution problem described in the previous section. Be sure to include the following:

- Describe the range of options available for solving the problem, including a no-action alternative
- Describe the practices you intend to design and/or implement to solve the problem (what, where, when, how much or how many)
- Explain why the chosen alternative is the best alternative
- Describe any pre-project planning that has already taken place (e.g., design work, permitting consultation, Endangered Species Act consultation, wetland delineations, landowner agreements, community outreach)
- Describe the anticipated maintenance needs (what, where, who, how long)

## **Project 1 - Goals and Effectiveness Evaluation**

List the specific, measurable nonpoint source goals for your project.

Explain how you will determine whether the you have met the goals described above. Identify any data you intend to collect, calculations you'll make, or methods you intend to use.

## Project 1 - Location

|                |          |           |
|----------------|----------|-----------|
| Upstream End   | Latitude | Longitude |
| Downstream End | Latitude | Longitude |
| Centerpoint    | Latitude | Longitude |
| Upstream End   | Latitude | Longitude |
| Downstream End | Latitude | Longitude |
| Centerpoint    | Latitude | Longitude |
| Upstream End   | Latitude | Longitude |
| Downstream End | Latitude | Longitude |
| Centerpoint    | Latitude | Longitude |

List the 12-digit Hydrologic Unit Code(s) (HUCs) in which the project area is located

**Detailed Project site map(s)** Attach a map or set of maps showing the location and size of proposed activity. The map scale must be between 1:1,000 and 1:12,500. The map(s) must have an aerial photo background (e.g., USDA NAIP photography, Google Earth imagery, etc.). The map(s) must show the latitude, longitude, site name, and landowner for the activity site. The map(s) should also identify waterbodies affected by the pollution that the activity is designed to address.

**Other Attachments** - *(These documents are not required, but may be submitted to provide more specific details about a project or to demonstrate adequate planning and preparation; please, however, be respectful of the amount of time it will take an application reviewer to find relevant information within a document and use excerpts where appropriate; do not attach WRPs, TMDLs or other large-scale planning documents)*

## Project 1 - Partners

Identify each of the project partners and describe their contribution to the project. Include landowners, land managers, project designers, funders, and your own organization. Indicate whether each partner, other than your organization, has provided a letter of support. (*Note: each landowner must provide a letter of support.*)

Landowner

## Contributions to Project

Letter of Support Attached?

## Project Partner

## Contributions to Project

Letter of Support Attached?

## Project 1 - Budget

Use the space below to outline your project budget.

**Project Planning** This includes costs for surveying, engineering, permitting, procurement, construction oversight, and overall coordination of the proposed project. This does not include things like reporting, book keeping, communications, office space, or utilities, which are all covered in the Project Administration budget.

| 319 Funding Request | Non-Federal Match | Other Funding* | Total Cost |
|---------------------|-------------------|----------------|------------|
|                     |                   |                |            |
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |

*\*Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

**Landowner Agreements** This includes costs for developing and managing landowner agreements. The landowner agreement(s) must verify that Contractor and DEQ staff may access the project site, at reasonable times and with prior notification, for the purposes of project planning, implementation, and post-implementation monitoring. The agreement(s) must ensure appropriate operation and maintenance of all structures, vegetation, and management measures for the life of the project. If grazing will be allowed within the project area, the agreement(s) must include a sustainable management plan for livestock grazing, designed to protect and enhance riparian function.

| 319 Funding Request | Non-Federal Match | Other Funding* | Total Cost |
|---------------------|-------------------|----------------|------------|
|                     |                   |                |            |
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |

*\*Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

**Project Implementation** This includes costs for all materials, labor, equipment, and as-built surveys associated with implementing the plans developed under the Project Planning task. If you are requesting funding for design only, leave this task blank.

| 319 Funding Request | Non-Federal Match | Other Funding* | Total Cost |
|---------------------|-------------------|----------------|------------|
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |

*\*Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

**Project Effectiveness Monitoring** This includes costs for developing and implementing a reasonable method or set of methods for evaluating and reporting on the effectiveness of the project in achieving NPS pollution goals. It includes preparation and implementation of a monitoring plan, and preparation of a monitoring report. If the project goals include reducing sediment, nitrogen and/or phosphorus, this task will also include calculation of annual load reduction estimates. Photo-point monitoring is also a standard requirement for this task. If you are requesting funding for design only, you may either leave this task blank or request funding for plan development and pre-project monitoring.

| 319 Funding Request | Non-Federal Match | Other Funding* | Total Cost |
|---------------------|-------------------|----------------|------------|
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |
| Match Source        |                   |                | Secured    |

*\*Use this space to record any funding that will be used to support creation of the task deliverables, but will not be reported as match. The purpose of this information is to give application reviewers a clearer understanding of the total amount of funding required to complete a task.*

# Project 1 - Project Timeline

| Task Description | 3Q   | 4Q   | 1Q   | 2Q   | 3Q   | 4Q   | 1Q   | 2Q   | 3Q   | 4Q   | 1Q   | 2Q   |
|------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                  | 2023 | 2023 | 2024 | 2024 | 2024 | 2024 | 2025 | 2025 | 2025 | 2025 | 2026 | 2026 |



## **Project 1 - Bigger Picture Benefits**

### **Environmental Justice**

Explain how your project incorporates disadvantaged community populations and priorities, Tribal and community leader engagement, or socioeconomic barriers in the context of equal protection and access to a healthy environment.

### **Climate Change/Resilience**

How will your project improve climate change resilience for communities, native plants, wildlife, or ecosystems?

### **Impacts to Downstream Human, Plant and Animal Communities**

What sort of an impact will your project have on downstream human, plant or animal communities?

# Map

## Takima Park

### Resource Enhancement Project

- |  |         |  |              |
|--|---------|--|--------------|
|  | Outfall |  | Gravity Main |
|  | Manhole |  | Pattee Creek |
|  | Drywell |  | Takima Park  |
|  | Inlet   |  | Streets      |
|  | Culvert |  |              |



Site Name: **Takima Park**  
 Site Landowner: City of Missoula  
 Site Coordinates:  
 46.837250, -113.991415



# Letters of Support





# MISSOULA CONSERVATION DISTRICT

Missoula Conservation District  
3550 Mullan Rd. Suite 106  
Missoula, MT 59808

October 4, 2022

Attn: Montana Department of Environmental Quality  
Re: Letter of Support – City of Missoula Department of Public Works & Mobility | Stormwater

Dear MT DEQ:

Over the past year, the Missoula Conservation District and the City of Missoula Stormwater Utility have been partnering to restore riparian vegetation along Pattee Creek with hopes that it helps keep water temperatures cool and sediment out to the stream. The Missoula Conservation District is concerned about the degradation of water quality in Pattee Creek and the ultimate impacts to the Bitterroot River.

The Missoula Conservation District is in full supportive of the city of Missoula's Storm Water Utility's proposal to improve stormwater quality at Takima Park, where Pattee Creek is heavily influenced by the populated portion of Missoula's south hills neighborhood. Pattee Creek is a hard stream for the Conservation District to protect by simply enforcing the Montana Natural Streambed and Land Preservation Act. It will take diverse partnerships to achieve any restoration goals. Next year, the Conservation District has plans to work with landowners to promote voluntary conservation efforts working with our Big Sky Watershed Corp Member. The work of Missoula's Storm Water Utility's to improve stormwater quality at Takima Park will help build community support, while directly affecting the water quality in Pattee Creek.

We ask that Montana Department of Environmental Quality please be a part of this partnership and financially support the City of Missoula Stormwater Utility's Takima Park proposal through 319 Nonpoint Source Program funding.

Sincerely,

Radley Watkins  
Resource Conservationist



#### **Board of Directors**

Charlie Larson  
President

Ed Snook  
Vice President

Scott Ziegenfuss  
Secretary

Doug Nation  
Treasurer

Laura Carrasco

Debbie Gantz

Alex Hibala

Estelle Shuttleworth

Jim Striebel

#### **Agriculture Advisors**

Dan Huls

Dan Severson

#### **Executive Director**

Heather Barber

#### **Community Engagement**

Alex Ocanas

#### **Administration**

Emily Dubrawski

PO Box 1247  
178 S 2<sup>nd</sup> St  
Hamilton, MT 59840

(406) 375-2272

brwaterforum.org

DEQ 319 Panel

October 5, 2022

Dear Panel Members,

The Bitter Root Water Forum is writing to offer its support of the Department of Public Works & Mobility Pattee Creek project.

This letter was requested from us as the authors of the Bitterroot WRP. Though we were only recently introduced to the proposed project, it appears to be inline with the goals as stated in the Pattee Creek portion of the WRP (authored by the Clark Fork Coalition).

Regards,

A handwritten signature in cursive script that reads "Heather Barber".

Heather Barber  
Executive Director

**Clean Water for the Bitterroot**



**Missoula City-County Health Department**

**WATER QUALITY DISTRICT**

301 W Alder | Missoula MT 59802-4123

[www.missoulacounty.us/wqd](http://www.missoulacounty.us/wqd)

Phone | 406.258.4890

Fax | 406.258.4781

October 7, 2022

319 Review Committee

Montana Department of Environmental Quality

P.O. Box 200901

Helena, MT 59620

RE: Takima Park

Dear 319 Review Committee,

The Missoula Valley Water Quality District is a local government agency whose mission is to protect and improve surface and groundwater quality within the Missoula valley. The District is deeply interested in stormwater quality as it is known to be a leading cause of surface water degradation nationally and is certainly a concern in urban environments. As such, the District supportive of the city of Missoula's proposal to improve stormwater quality at Takima Park, a junction and discharge point of stormwater from Missoula's south hills neighborhoods into Pattee Creek.

The Water Quality District has been studying surface water quality in Pattee Creek for a number of years, including annual sampling of Total Suspended Solids (TSS), Nutrients and chlorides. We have seen marked impacts from stormwater runoff through the project section of Pattee Creek with some of the highest levels of TSS and Chloride detected within the District. The District is pleased to work with the City of Missoula in efforts to combat this trend. Please accept this letter as strong support for the City's application.

Thank you for the opportunity to demonstrate our support for this project.

Sincerely,

A handwritten signature in cursive script, appearing to read "Ellen Evans".

Environmental Health Manager/Hydrogeologist

Missoula Valley Water Quality District

[eevans@missoulacounty.us](mailto:eevans@missoulacounty.us)