

Copper Mountain Recreation Complex Kid's Fishing Pond Project

**Montana Natural
Resource Damage
Program**

**Small Restoration
Project Grant
Proposal**

November 2016



Project Sponsor:

**George Grant Chapter of Trout Unlimited
P.O. Box 563
Butte, MT 59703**



Submitted To:

**Montana Natural Resource Damage Program
65 East Broadway
Butte, MT 59701**

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Project Sponsor Contact Information

George Grant Chapter of Trout Unlimited
P.O. Box 563
Butte, MT 59703
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Project Summary and Maps

The George Grant Chapter of Trout Unlimited (GGTU) is pleased to present this NRDP Small Restoration Project Grant application for the Copper Mountain Recreation Complex Kid's Fishing Pond Project.

Copper Mountain Recreation Complex is a park constructed in 1999 at the site of the former Clark Smelter. The 30-acre park includes a playground, baseball and football fields, volleyball courts, picnic areas, walking trails, a golf driving range, and pavilions used by the public. Figures 1-3 show the Copper Mountain Recreation Complex.



The smelter and mining waste is capped by an engineered cap comprised of clay and soil. An irrigation holding pond engineered to retain irrigation water piped from Silver Lake is located on the south side of the park. The pond prevents seepage of water through the cap. GGTU proposes to modify the pond so it can be used as a kid's fishing pond in addition to an irrigation pond. The 1.3-acre pond will serve as a great local opportunity for the kid of Butte to fish at a location that is already a draw for many kids of Butte.

Project Goals & Objectives

The Copper Mountain Recreation Complex Kid's Fishing Pond Project goal is to provide local fishing opportunities for the kids of Butte that were lost to past mining activities by developing the existing irrigation pond at the Copper Mountain Recreation Complex into a kid's fishing pond that can be used for irrigation as well.

GGTU has worked together with Butte Silver-Bow (BSB) and Montana Fish, Wildlife, and Parks (MFWP) to determine the following project objectives that will fulfill the project goals:

- Deepen the pond to a suitable depth for fish,
- Line the pond to prevent seepage into mine waste under the cap,
- Reshape and contour the shoreline to include shoreline features that make fishing from shore easier for kids,

- Construct American Disabilities Act (ADA) compliant fishing area,
- Construct a trail around the pond that connects to the existing trail network,
- Construct picnic areas, and
- Complete restoration of impacted vegetation.

The pond is located at excellent location that many Butte residents frequently use and could be easily integrated into the park system. The pond has an outstanding water resource from Silver Lake that will be used to feed the pond.

Project Benefits

The Copper Mountain Recreation Complex Kid's Fishing Pond will help replace local fishing opportunities for Butte kids that were lost due to past mining activities

Project Implementation

GGTU will hire engineering firm to complete a site evaluation and design of the new pond. A development plan will be prepared to provide the road map to successfully design and build the pond that will fulfill the project goals. Development tasks will include:

- Site survey,
- Pond design,
- Permitting,
- Pond excavation,
- Constructing pond liner,
- Reshaping and contouring shoreline features such as points,
- Isolation of operational infrastructure from the public,
- Trail construction integrated into existing trails,
- Construct ADA compliant fishing area,
- Reclamation of impacted vegetation, and
- Picnic area construction.

Review of the development tasks, US Fish and Wildlife Service National Wetlands Inventory, Federal Emergency Management Agency (FEMA) National Flood Hazard Database, and applicable regulations indicate the project will need the following permits.

- US Army Corps of Engineers Wetland Permit (404 Permit),
- Montana Storm Water Pollution Prevention Plan (SWPPP) Permit, and
- BSB Storm Water Permit.

Implementation of the development tasks will require coordination between GGTU, BSB, and MFWP. GGTU has met with and received support from all the stakeholders. Project support letters are in Appendix A.

Once NRDP grant funds are secured, GGTU will hire an engineering firm to complete the design and development plan, secure necessary permits, prepare bid documents, put the project out to bid, and provide construction management. GGTU will involve all stakeholders and the public while developing the plan to ensure all stakeholder's requirements are fulfilled before finalizing the plan.

Project Budget

GGTU developed conceptual costs for completing the pond. The conceptual costs are based on limited site visits, historical review, and preliminary conversations with BSB, MFWP, and EPA. The conceptual costs only serve as a means to determine approximate construction costs and may change based upon further site evaluation and design. Input from project stakeholders and the public may also affect what amenities are provided as part of the project. Costs will be refined once the site evaluation is complete and will be provided in the development plan. The following table summarizes the kid's pond conceptual cost estimate.

Table 1. Conceptual Project Costs – Copper Mountain Recreation Complex Kid's Fishing Project

Task	Estimated Quantity	Units	Unit Cost	Total Cost
Mob/Demob	1	LS	\$6,000	\$6,000
Site Survey	1	LS	\$6,000	\$6,000
Engineering and Design	1	LS	\$30,000	\$30,000
Pond Excavation	12,000	CYDS	\$2.00	\$24,000
Hauling Mine Waste to Repository	2,000	CYDS	\$20.00	\$40,000
Imported Fill to Replace Mine Waste	2,000	CYDS	\$28.00	\$56,000
Liner Preparation	73,000	SFT	\$0.20	\$14,600
Liner Installation	73,000	SFT	\$1.17	\$85,410
Backfilling Pond and Grading Shoreline	12,000	CYDS	\$5.00	\$60,000
Wetland Sod Installation	1	LS	\$20,000	\$20,000
Riparian Restoration	2	ACRE	\$3,000.00	\$6,000
Trail Construction	830	SYDS	\$7.00	\$5,810
Collecting and Hauling Site Debris to Landfill (loose)	40	CYDS	\$35	\$1,400
Paved Trail Surfacing	480	SYDS	\$27	\$12,720
Benches	3	EA	\$650	\$1,950
Picnic Tables	3	EA	\$1,300	\$3,900
Garbage Cans	3	EA	\$350	\$1,050
Chain Link Fence Installation	350	LFT	\$35	\$12,250
Permitting	1	LS	\$10,000	\$10,000
Total				\$397,090
Insurance and Bonding (5%)				\$19,855
Construction Management (10%)				\$39,709
Completion Total				\$416,945
Contingency (10%)				\$41,694
Grand Total				\$458,639

The total conceptual cost is approximately \$459K; as a result, multiple sources of funding must be secured in order to fully implement the project. The NRDP Small Projects Grant is the first grant GGTU is working to secure. GGTU has limited funds to provide as a match. Other sources of funding and grant programs that may be appropriate for the Copper Mountain Recreational Complex Kid's Fishing Pond Project are:

- BNRC restoration funds allocated to Recreational Development.
- Superfund Advisory and Redevelopment Trust Authority (SARTA). This a \$50K maximum grant that GGTU may apply for in 2017 and funds will be available in 2018.
- Montana Department of Natural Resources (DNRC) Renewable Resource Grant and Loan (RRGL) Program. This a \$125 maximum grant. GGTU may apply in May 2018. Funds will be available July 2019. Only local government entities are eligible for this grant so BSB and GGTU would have to be joint applicants.
- Montana Department of Natural Resources (DNRC) Reclamation and Development Grants Program (RGDP). This a \$500K maximum grant. GGTU may apply in May 2018. Funds will be available July 2019. Only local government entities are eligible for this grant so BSB and GGTU would have to be joint applicants.
- MFWP Community Pond Program. Program funding can vary, but grants are typically \$25,000 maximum. GGTU may apply in February 2017 and funds may be available in 2017.

GGTU will use the NRDP Small Restoration Projects Grant to complete site evaluation, the development plan, and to move forward securing additional funding through other grant applications. Any remaining NRD Small Restoration Project grant funds will be used for construction. GGTU is willing to donate \$5K and BSB has indicated a willingness to contribute to the project.

Project Schedule

The schedule will be driven primarily by the available grant cycles and securing additional funding for construction. The RRGL and RGDP grant programs are biennial programs, so funding will not be available until July 2019 and construction won't be complete until fall 2019 or summer 2020. The maximum grant values are not guaranteed, so if grant funding is less than expected project tasks would have to be adjusted, removed, or additional delays may be necessary.

Monitoring Activities

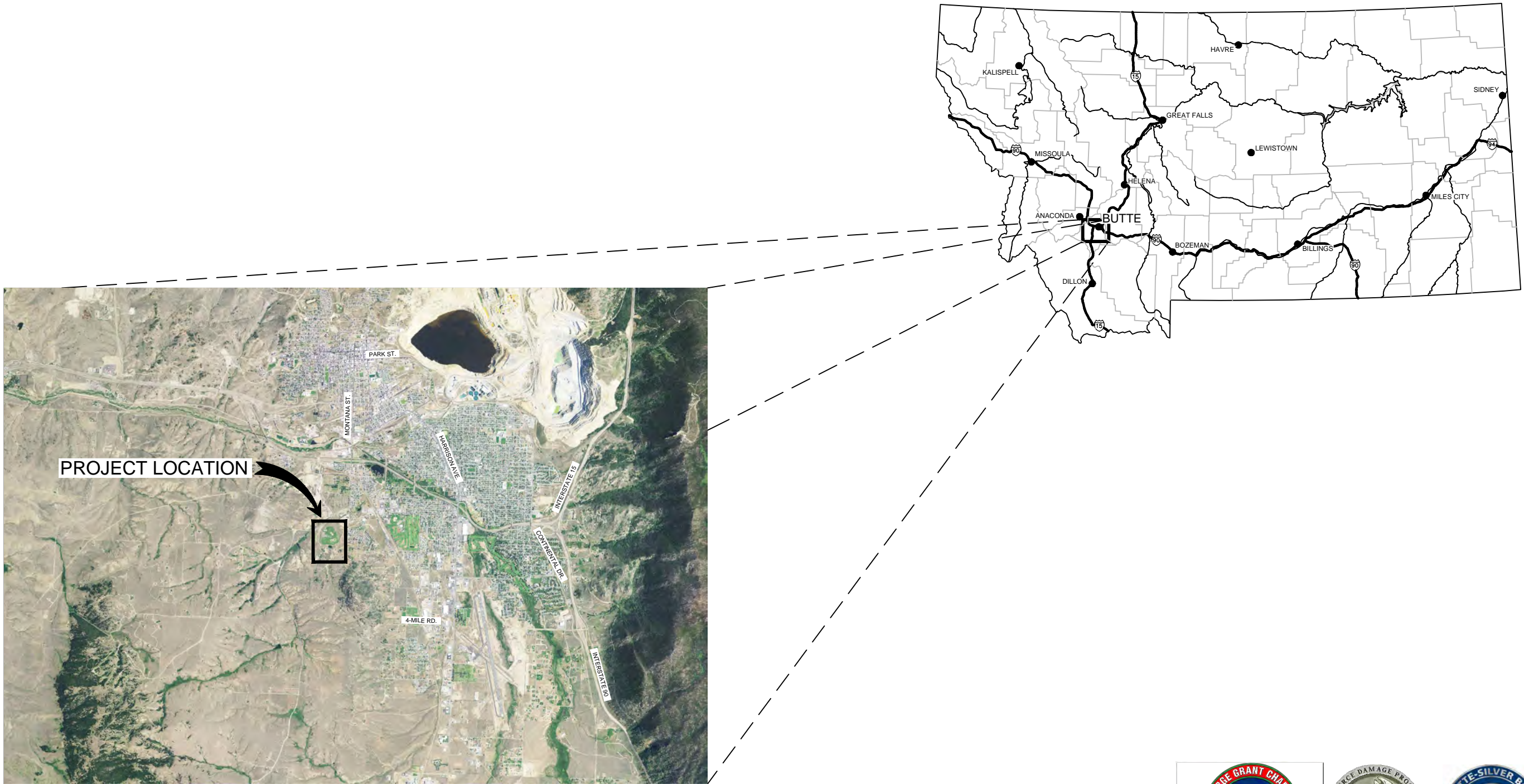
Monitoring activities will include regular operational and maintenance (O&M) inspections by BSB personnel. MFWP will also regularly monitor reservoir fish populations to determine how they will manage the pond in a sustainable manner.

Conclusion

GGTU is excited to move forward with the Copper Mountain Recreation Complex Kid's Fishing Pond Project and feels that this project fits squarely within NRDP funding priorities. The Copper Mountain Kid's Fishing Pond will provide Butte's kids a great fishing opportunity at one of Butte's best parks for years to come.

FIGURES

COPPER MOUNTAIN RECREATION COMPLEX
KID'S FISHING POND PROJECT
LOCATED IN SILVER BOW COUNTY, MONTANA



COPPER MOUNTAIN
RECREATION COMPLEX
KID'S FISHING POND PROJECT

PROJECT NAME: COPPER MOUNTAIN KID FISHING POND PROJECT
LOCATION: SILVER BOW COUNTY, MONTANA
FILE NO. SC-T101-B5BCOPPERMTN.dwg

OB NO: BSBCOPPERMTN
DATE: 11/15/16
RAFTER: DAS
CHECKED BY: JT

SHEET
FIG1

LOCATION MAP



WATERENVTECH.COM

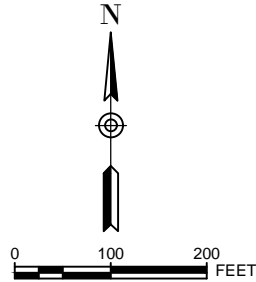
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TIMBER BUTTE ROAD

COPPER MOUNTAIN RECREATIONAL COMPLEX

PROPOSED
FISHING POND



COPPER MOUNTAIN
RECREATION COMPLEX
KID'S FISHING POND PROJECT



Water & Environmental
TECHNOLOGIES
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PROPOSED FISHING
POND AREA

[illegible]

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JOB NO: BSBCOPPERMTN
DATE: 11/15/16
DRAFTER: DAS
CHECKED BY: JT

SHEET
FIG3

APPENDIX A

Support Letters



November 15, 2016

Montana Natural Resource Damage Program
65 East Broadway
Butte, MT 59701

RE: Support for the Copper Mountain Recreation Complex Kid's Fishing Pond Project

To whom it concerns:

As the fisheries biologist for Montana Fish, Wildlife & Parks (FWP) in the Upper Clark Fork basin, I would like to express my support for the Copper Mountain Recreation Complex Kid's Fishing Pond Project proposed by the George Grant Chapter of Trout Unlimited. Currently, Butte has one pond at Skyline Park that provides youth fishing opportunity. While this relatively new pond is small, it receives a lot of use. Constructing an additional kid's pond on the opposite side of town would spread out use and provide additional opportunity. The irrigation pond at the Copper Mountain Recreation Complex would be a good place to have a kid's fishing pond because it is already part of an established public recreation area, has a good source of clean, cold water, and more importantly from a fisheries perspective, it is isolated from any connected streams or floodplains. Montana Fish Wildlife & Parks provides native, westslope cutthroat trout for Skyline Pond and would also be able to provide these same fish for the pond at the Copper Mountain Recreation Complex. However, it is likely that these two community ponds would be all the department could supply into the future. With that said, I believe a kid's fishing pond at the Copper Mountain Recreation Complex would be a good addition to the community of Butte, and I look forward to assisting with the planning and implementation of this project.

Sincerely,

Jason Lindstrom
Fisheries Biologist
Montana Fish, Wildlife & Parks
P.O. Box 24
Anaconda, MT 59711

Phone: (406) 529-8058
Email: jlindstrom@mt.gov

126 W. GRANITE
BUTTE, MT 59701



OFFICE: (406) 497-6515
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November 15, 2016

Montana Natural Resource Damage Program
65 East Broadway
Butte, MT 59701

Re: Copper Mountain Recreation Complex Kid's Fishing Pond Project

To Whom It May Concern,

The Copper Mountain Recreation Complex is one of Butte Silver-Bow's (BSB) main parks that provides recreational features such as baseball fields, football fields, a playground, and public pavilions. BSB currently operates a retention pond supplied by Silver Lake for park irrigation. BSB fully supports the George Grant Chapter of Trout Unlimited (GGTU) proposal to modify the irrigation pond so it may be used as a kid's fishing pond. BSB feels this is great project to provide additional fishing opportunities for Butte kids and we are excited to work with GGTU to make this project a reality.

Sincerely,

David Schultz, P.E.
BSB Public Works Director