COLORADO
Colorado Water Conservation Board
Department of Natural Resources

1313 Sherman Street, Room 718
Denver, CO 80203

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Jared Polis, Governor

Dan Gibbs, DNR Executive Director

Rebecca Mitchell, CWCB Director

**TO:** Colorado Water Conservation Board Members

**FROM:** Andrea Harbin Monahan, Watershed and Flood Protection Section

**DATE:** July 19-20, 2023

**AGENDA ITEM:** Consent Agenda Item 3 – Clear Creek Whitewater Park – Change of Fiscal Agent

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**Staff Recommendation:**
Staff recommends changing the fiscal agent for the Clear Creek Whitewater Park project from Adams County to Mile High Flood District and reallocating the grant funds from the construction task to the design task.

**Background:**
An approximately 10-foot-high sheet pile drop structure currently exists in Clear Creek within the Burlington Northern Santa Fe (BNSF) right-of-way, upstream of Pecos Boulevard in Adams County. The primary purpose of the drop structure is to maintain the invert elevation of Clear Creek, thereby protecting upstream infrastructure, including the former BNSF bridge. This drop structure became redundant for the bridge owners in 2012 when RTD constructed the Northwest Electrified Segment (NWES) bridge in the BNSF right-of-way that enabled BNSF to also replace their existing bridge foundation with a deeper foundation. This drop structure is a dangerous impediment to boaters, tubers, and swimmers, and the possibility exists that this aging structure may completely fail under stress and cause significant uncontrolled degradation to the river and adjacent areas and threaten upstream utilities and landowners. BNSF supports removal of the old drop structure and replacement with several smaller low hazard drops upstream of the railroad right-of-way. After analyzing various alternatives with the Mile High Flood District and Adams County, a plan that includes instream recreation activities within the series of proposed low hazard drop structures was adopted.

**Discussion:**
Adams County submitted two applications for the Clear Creek Whitewater Park project for Water Plan Grants. $100,000 was approved at the November 2019 Board Meeting (agenda item 8t) and $100,000 was approved at the March 2021 Board Meeting (consent agenda item 3cc). Contracting for this project was delayed due to increasing construction costs and funding shortfalls. In an effort to move forward without deauthorizing these grants, staff has worked with the applicant to modify the budget, reallocating grant dollars from construction to design, which will allow the money to be spent sooner. Further, since Mile High Flood District is managing all other funding and contracts for this project, the applicant would like to

change the fiscal agent for this project from being Adams County to being the Mile High Flood District.

**Attachments:**
November 2019 Board Meeting Agenda
March 2021 Board Meeting Agenda
Clear Creek Whitewater Park Modified Budget
Clear Creek White Water Park Scope of Work

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# November 20 & 21, 2019 Board Meeting Agenda

A meeting of the CWCB will be held on Wednesday, November 20, 2019 commencing at 9:00 AM and continuing through Thursday, November 21, 2019. The meeting will be held at The DoubleTree Hotel 3203 Quebec St. Denver 80207.

The CWCB posts notice 30 days in advance of each regularly scheduled meeting. Notices for special meetings are posted on the website typically within five business days and not less than 24 hours of such a meeting. Notices of regular and special meetings may also be received by email. To receive notices by email please visit: https://dnrweb.state.co.us/DNR/DNRPortal/Login.aspx.

Although dates and times are indicated in this notice and in the following agenda, the CWCB may address and take action on noticed items in any order. Any known changes to the agenda will be announced at the beginning of the meeting. This notice, any late notice(s) of additional items, and briefing memos prepared for the CWCB will be posted at 1313 Sherman Street, Suite 721, Denver, CO 80203, and on our website at www.cwcb.state.co.us.

The CWCB's meetings are made available through live audio streaming on YouTube, although Board workshops are not. To listen to the proceedings, click the "Listen to the meeting LIVE!" link on the CWCB website homepage and select the link for the proper day and time. The link will be posted just prior to the start of the meeting.

The CWCB encourages citizens to express their views and provide feedback to the Board on the agenda items. This can be done by sending an email to viola.bralish@state.co.us by sending a letter to a Board member or to the Chair of the Board, or by attending the meeting. If you attend a meeting, simply fill out a comment sheet and give it to the Board Coordinator at the recording station. The Board will appreciate hearing your views when it reaches that agenda item. If you have any questions, need special accommodations as a result of a disability, or require further information on any CWCB activity, please contact Viola Bralish at 303-866-3441, ext. 3206. All programs, services, and activities of the CWCB are operated in compliance with the Federal Americans with Disabilities Act (ADA).

## Wednesday, November 20, 2019

| | |
|---|---|
| 9:00 – 9:02 | **CWCB Call to Order and Pledge of Allegiance** |
| 9:02 – 9:05 | **1. Review and Approve Agenda** |
| 9:05 – 9:07 | **2. Review and Approve September 18 & 19, 2019 Board Meeting Minutes** |
| 9:07 – 9:10 | **3. Approve and/or Remove Consent Agenda Items** |
| 9:10 – 9:15 | **Board Meeting Dates in 2020**<br>*Discussion on changing the dates for the March 2020 Meeting*<br>a. January 27 & 28 Westminster<br>b. March 18 & 19 TBD<br>c. May 20 & 21 Colorado Basin<br>d. July 15 & 16 North Platte Basin<br>e. September 16 & 17 South Platte Basin<br>f. November 18 & 19 Denver Metro |
| 9:15 – 10:15 | **4. Directors' Reports**<br>a. DNR Executive Director<br>b. IBCC Director<br>c. Agriculture Commissioner<br>d. CWCB Director<br>e. State Engineer<br>f. Division of Parks and Wildlife Director<br>g. Water Resource and Power Development Authority |
| 10:15 – 10:45 | **5. Potential Effects of Climate Change on Rainfall-Induced Floods**<br>*Watershed and Flood Protection Section* |
| 10:45 – 11:00 | **6. Colorado Water Plan Updates**<br>*Water Supply Planning Section* |
| 11:00 – 11:10 | **7. Statewide Water Education Action Plan (SWEAP)**<br>*WEco* |
| 11:10 – 11:25 | **Morning Break** |
| 11:25 – 12:55 | **8. Water Plan Grants Overview** |

**Water Plan Grants**

| Agenda Item | Category | Applicant | Name of Water Activity |
|---|---|---|---|
| **8 a-g Agriculture** | | | |
| **a** | Agriculture | Bookcliff, South Side and Mount Sopris Conservation Districts | Integrated Watershed Management Planning in the Middle Colorado River |
| **b** | Agriculture | Colorado Cattlemen's Association | Agriculture Watershed and Stream Management Planning Outreach & Technical Assistance |
| **c** | Agriculture | Colorado Master Irrigator | Colorado Master Irrigator Program – Republican River Basin |
| **d** | Agriculture | Colorado State University | Food Asset Mapping to Understand Agricultural Economic Development Opportunities that |

| | | | |
|---|---|---|---|
| | | | Reduce Water Consumption |
| **e** | Agriculture | Crawford Water Conservancy District | Lower Aspen Canal Piping Efficiency Project |
| **f** | Agriculture | Trout Unlimited, Inc. | Irrigation Efficiency and its Effects in Northwest Colorado |
| **g** | Agriculture | Webber Ditch Company | Webber Ditch Diversion and Piping Project |
| **8 h - s Engagement and Innovation Activities** | | | |
| **h** | Engagement & Innovation | 10.10.10, a Project of Colorado Nonprofit Development Center | Tackling Wicked Problems in Water and Climate |
| **i** | Engagement & Innovation | Coalition for the Poudre River Watershed | Engaging Stakeholders & Communities in the Poudre Through Citizen Science, Collaboration, & Outreach |
| **j** | Engagement & Innovation | Colorado Ag Water Alliance | Outreach and Capacity Building for Ag Water Projects |
| **k** | Engagement & Innovation | Colorado Mesa University | CMU Water Education Needs and Capacity Assessment |
| **l** | Engagement & Innovation | Colorado Open Lands | Sandhill Crane Water Education and Engagement |
| **m** | Engagement & Innovation | Dr. Terri Hogue, Colorado School of Mines | Water Engineering Education for the Next Generation (WE2NG), Research Experience for Teachers Program |
| **n** | Engagement & Innovation | For the Love of Colorado Coalition, a Program of the Keystone Policy Center | For the Love of Colorado Public Education Initiative |
| **o** | Engagement & Innovation | Lincoln Hills Cares | Replicable Youth-Driven Innovation Engine to Help Make the South Platte River Swimmable and Fishable |
| **p** | Engagement & Innovation | National Young Farmers Coalition | Young Farmers and Ranchers Water Leadership Pilot Program |
| **q** | Engagement & Innovation | Poudre Heritage Alliance (with CSU Water Resources Archive) | Water Legacy: Documenting Knowledge for Future Generations |
| **r** | Engagement & Innovation | Rio Grande Watershed Conservation & Education Initiative | Water in the Real World: Youth Education in the Rio Grande Watershed |
| **s** | Engagement & Innovation | Water Education Colorado | Statewide Water Education Action Plan Launch, Phase I Implementation and Essential Groundwork Actions |
| **8 t – v. Environmental and Recreation** | | | |
| **t** | Environmental and Recreation | Adams County Parks, Open Space & Cultural Resources | Clear Creek Whitewater Park |
| **u** | Environmental and Recreation | Center for Snow and Avalanche Studies | Colorado Dust on Snow Project |
| **v** | Environmental and Recreation | White River and Douglas Creek Conservation | White River Algae Study |

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# March 10 -11, 2021 Board Meeting Agenda

A meeting of the CWCB will be held on Wednesday, March 10, 2021 commencing at 9:00 AM and continuing through Thursday, March 11, 2021. The meeting will be held virtually on zoom.

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|---|---|---|---|
| **p.** | Southwest | Mountain Studies Institute/Upper San Juan Watershed Enhancement Partnership | San Juan Integrated Water Management Planning, Phase 3 |
| **q.** | Yampa | White River & Douglas Creek Conservation Districts | White River Integrated Water Initiative |
| **Change of Grantee** | | | |
| **r.** | Rio Grande | Conejos Water Conservancy District | Conejos Ground Water Monitoring and Analysis |

### 3. Water Plan Grants

| Agenda Item | Applicant | Name of Water Activity | Staff Recommendation |
|---|---|---|---|
| **Agriculture** | | | |
| **a** | Carson Pearson | Vouga Reservoir Dam Rehabilitation | No Funding Recommended |
| **b** | Colorado Open Lands | Acequia Conservation Initative; Protecting Colorado's Oldest Agricultural Communities - Phase II | Approve $45,000 |
| **c** | Colorado State University | Improving Irrigation Efficiency Through the Development of the Hydraulic Infrastructure at Irrigation Innovation Consortium Headquarters | Approve $157,384 |
| **d** | Dave Miller Mutual Ditch Company | Dave Miller Ditch Piping Project | No Funding Recommended |
| **e** | Florida Consolidated Ditch Company | Florida Canal Diversion Structure Rehabilitation Project - Phase II | Approve $125,000 |
| **f** | Grand Valley Water Users Association | Vinelands Power Plant | Approve $200,000 ($100,000 Ag and $100,000 Env/Rec) |
| **g** | Jack's Solar Garden LLC | Agrivoltaics Research | Approve $99,675 |
| **h** | Keep It Colorado | Colorado's Private Lands Conservation Plan | Approve $75,000 |
| **i** | Onward! A Legacy Foundation dba Montezuma Orchard Restoration Project | Sustainable Infrastructure to Support Restoration of Southwest Colorado's Orchard Culture and Economy | Approve $150,000 |
| **j** | River Network | Piloting Multi-Benefit Project Coordinators | Approve $133,170 |
| **k** | Root & Ratliff Ditch Company | Root & Ratliff Pipeline Project | No Funding Recommended |
| **l** | The Nature Conservancy | Maybell Headgate Replacement | Approve $168,114 |
| **m** | Trout Unlimited | Copeland Elk Creek Ditch Efficiency Improvement | No Funding Recommended |
| **n** | Trout Unlimited | Lawrence Ditch Diversion Improvement Project | No Funding Recommended |
| **o** | Upper Arkansas Conservation District | Upper Arkansas Watershed Resiliency Plan - Phase I | Approve $27,500 |
| **Conservation and Land Use** | | | |
| **p** | City of Thornton | Thornton Northern Properties Stewardship Plan | Approve $100,000 |

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|---|---|---|---|
| | | (NPSP): Land Use & Water Optimization Study | |
| **q** | City of Westminster | Reclaimed Water Feasibility Evaluation & Implementation Plan | No Funding Recommended |
| **r** | Denver Regional Council of Governments (DRCOG) | Regional Land Cover Project | Approve $101,103 |
| **s** | ULI Colorado | Advancing Water Smart Development | Approve $20,000 |
| **t** | WaterNow Alliance, a program of Multiplier | Advancing High Impact Water Efficiency Solutions in Colorado Communities | Approve $138,355 |
| **u** | Western Resource Advocates | Enabling Large-Scale Replacement of Non-Essential Turf | Approve $259,887 |
| **Engagement and Innovation** | | | |
| **v** | Colorado Cattlemen's Association | Agriculture Water User 2021 Priorities: Outreach, Technical Assistance, Infrastructure Inventory | No Funding Recommended |
| **w** | Independence Water & Sanitation | Regulation 84 Edible Crop Irrigation Public Education & Outreach | Approve $32,600 |
| **x** | Montezuma School to Farm Project | Montezuma CWP Education Initiative | Approve $95,000 |
| **y** | Open Water Foundation | River Basin Information Websites | No Funding Recommended |
| **z** | The Water Connection (Greenway Foundation) | Clean River Design Challenge | Approve $45,655 |
| **aa** | Trout Unlimited | Supporting Outreach & Engagement for the "Evaluating Conserved Consumptive Use in the Upper Colorado River" Project | Approve $50,000 |
| **bb** | Water Education Colorado | Statewide Water Education Action Plan Phase II & Water '22 | No Funding Recommended |
| **Environment and Recreation** | | | |
| **cc** | Adams County Parks | Clear Creek Whitewater Park | Approve $100,000 |
| **dd** | American Whitewater | Economic Impact of River Recreation | Approve $83,458 |
| **ee** | Boulder County | Watershed Health Toolkit & Planning Guide | No Funding Recommended |
| **ff** | Costilla County Conservancy District | Upper Culebra Watershed Assessment | Approve $107,224 |
| **gg** | Colorado Rio Grande Restoration Foundation | Conejos River Partnership Project - Phase II | Approve $272,000 |
| **hh** | Lefthand Watershed Oversight Group | Expanding & Implementing the St. Vrain Forest Health Partnership Plan | Approve $122,916 |
| **ii** | Middle Colorado Watershed Council | Middle Colorado Integrated Water Management Plan - Implementation Phase I | Approve $27,400 |
| **jj** | Town of Naturita | Naturita Town Park Revitalization Project | Approve $40,000 |
| **Storage and Supply** | | | |
| **kk** | Genesee Water & Sanitation District | Enlargement of Genesee Reservoir No. 1 | Approve $1,384,000 |

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## Water Plan Grant - Exhibit B
## Budget and Schedule

**Prepared Date: April 6, 2023**

**Name of Applicant: Mile High Flood District**

**Name of Water Project: Clear Creek Whitewater Park**

**Project Start Date: 8/2018**

**Project End Date: 9/2025**

| Task No. | Task Description | Task Start Date | Task End Date | Grant Funding Request | Match Funding | Total |
|---|---|---|---|---|---|---|
| 1 | Design | 8/2018 | 9/2025 | $200,000 | $1,790,000 | $1,990,000 |
| 2 | Construction | 9/2023 | 9/2025 | $0 | $19,875,743 | $19,875,743 |
| 3 | Project Maintenance and Monitoring | 9/2025 | Perpetual | N/A | N/A | N/A |
| | | | **Total** | $200,000 | $21,665,743 | $21,865,743 |

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## Water Plan Grant - Detailed Budget Estimate
## Fair and Reasonable Estimate

**Prepared Date: April 6, 2023**
**Name of Applicant: Mile High Flood District**
**Name of Water Project: Clear Creek Whitewater Park**

**Task 1 - Design**

| *Sub-task* | Unit | Quantity | Unit Cost | Total Cost | CWCB Funds | Matching Funds |
|---|---|---|---|---|---|---|
| **Merrick & Company - Prime** | | | | | | |
| Supporting Services - Senior PM | Hr | 1,300 | $ 220.00 | $ 286,000 | $ 200,000 | $ 86,000 |
| Supporting Services - Project Engineer | Hr | 3,100 | $ 165.00 | $ 511,500 | | $ 511,500 |
| Supporting Services - Senior Design Engineer | Hr | 2,420 | $ 150.00 | $ 363,000 | | $ 363,000 |
| Supporting Services - Design Engineer | Hr | 1,325 | $ 135.00 | $ 178,875 | | $ 178,875 |
| Supporting Services - Senior Drafting Techn. | Hr | 1,000 | $ 150.00 | $ 150,000 | | $ 150,000 |
| Supporting Services - Direct Expenses | LS | 1 | $ 120,604.00 | $ 120,604 | | $ 120,604 |
| **Subconsultants** | | | | | | |
| Landscape Architect - Wenk Associates | LS | 1 | $ 214,449.00 | $ 214,449 | | $ 214,449 |
| Environmental Permitting - CORVUS | LS | 1 | $ 26,690.00 | $ 26,690 | | $ 26,690 |
| Geomorphologist - 5 Smooth Stones | LS | 1 | $ 18,656.00 | $ 18,656 | | $ 18,656 |
| Surveyor | LS | 1 | $ 54,552.00 | $ 54,552 | | $ 54,552 |
| Geotech | LS | 1 | $ 16,748.00 | $ 16,748 | | $ 16,748 |
| Environmental - Pinyon | LS | 1 | $ 43,202.00 | $ 43,202 | | $ 43,202 |
| Potholing | LS | 1 | $ 5,724.00 | $ 5,724 | | $ 5,724 |
| **Task 1 Total** | | | | **$ 1,990,000** | **$ 200,000** | **$ 1,790,000** |

**Task 2 - Construction**

| Sub-task | Unit | Quantity | Unit Cost | Total Cost | CWCB Funds | Matching Funds |
|---|---|---|---|---|---|---|

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Clearing and Grubbing | AC | 20 | $ | 4,900.00 | $ | 98,000 | $ | - | $ 98,000 |
| Mobilization | LS | 1 | $ | 1,010,000.00 | $ | 1,010,000 | $ | - | $ 1,010,000 |
| Surveying | LS | 1 | $ | 160,000.00 | $ | 160,000 | $ | - | $ 160,000 |
| Traffic Control | LS | 1 | $ | 13,000.00 | $ | 13,000 | $ | - | $ 13,000 |
| Water Control | LS | 1 | $ | 1,530,000.00 | $ | 1,530,000 | $ | - | $ 1,530,000 |
| Project Sign | EA | 1 | $ | 750.00 | $ | 750 | $ | - | $ 750 |
| General BMP Maintenance | HOUR | 104 | $ | 365.00 | $ | 37,960 | $ | - | $ 37,960 |
| Concrete Washout Area | EA | 2 | $ | 2,000.00 | $ | 4,000 | $ | - | $ 4,000 |
| Inlet Protection | EA | 2 | $ | 500.00 | $ | 1,000 | $ | - | $ 1,000 |
| Sediment Control Log | LF | 8,950 | $ | 4.60 | $ | 41,170 | $ | - | $ 41,170 |
| Silt Fence | LF | 3,350 | $ | 3.00 | $ | 10,050 | $ | - | $ 10,050 |
| Stabilized Staging Area | SY | 575 | $ | 15.50 | $ | 8,913 | $ | - | $ 8,913 |
| Stream Crossing, Temporary, with Culvert | EA | 2 | $ | 18,000.00 | $ | 36,000 | $ | - | $ 36,000 |
| Vehicle Tracking Control | SY | 300 | $ | 33.00 | $ | 9,900 | $ | - | $ 9,900 |
| Street Maintenance | LS | 1 | $ | 17,000.00 | $ | 17,000 | $ | - | $ 17,000 |
| Tree Protection, Fence | LF | 500 | $ | 3.60 | $ | 1,800 | $ | - | $ 1,800 |
| Tree Protection, Beaver | LF | 120 | $ | 12.00 | $ | 1,440 | $ | - | $ 1,440 |
| Erosion Control Blanket, Straw | SY | 10,600 | $ | 7.85 | $ | 83,210 | $ | - | $ 83,210 |
| Abandon Pipe, Fill with Approved Material | LF | 355 | $ | 54.00 | $ | 19,170 | $ | - | $ 19,170 |
| | | | | | | | | | |
| Remove Sturctures and Obstructions (sheet pile drop structure, sheet pile wall, existing spillway, abandoned piers and abutment, picnic tables, gravel trail, gravel parking lot) | LS | 1 | $ | 410,000.00 | $ | 410,000 | $ | - | $ 410,000 |
| Remove Fence | LF | 135 | $ | 10.00 | $ | 1,350 | $ | - | $ 1,350 |
| Remove Pipe | LF | 380 | $ | 44.00 | $ | 16,720 | $ | - | $ 16,720 |
| Remove Concrete Sidewalk / Trail | SY | 3,810 | $ | 8.50 | $ | 32,385 | $ | - | $ 32,385 |
| Remove Sign | EA | 1 | $ | 75.00 | $ | 75 | $ | - | $ 75 |
| Remove Tree (>8") | EA | 150 | $ | 1,115.00 | $ | 167,250 | $ | - | $ 167,250 |
| Remove Inlet | EA | 1 | $ | 800.00 | $ | 800 | $ | - | $ 800 |
| Geotextile | SY | 265 | $ | 4.25 | $ | 1,126 | $ | - | $ 1,126 |
| Earthwork, Excavation and Fill On-Site | CY | 54,100 | $ | 15.40 | $ | 833,140 | $ | - | $ 833,140 |
| Earthwork, Excavation and Haul Offsite | CY | 0 | $ | - | $ | - | $ | - | $ - |
| Earthwork, Imported Fill | CY | 0 | $ | - | $ | - | $ | - | $ - |
| Topsoil, Excavate, Stockpile, and Replace | CY | 0 | $ | - | $ | - | $ | - | $ - |
| Topsoil, Imported, Upland | CY | 16,150 | $ | 45.00 | $ | 726,750 | $ | - | $ 726,750 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Aggregate Base Course | CY | 4 | $ | 100.00 | $ | 400 | $ - | $ 400 |
| Boulder Edging, Single Row, Grouted, 36-Inch Boulders | LF | 100 | $ | 230.00 | $ | 23,000 | $ - | $ 23,000 |
| Boulder, Feature, 36-Inch | EA | 50 | $ | 650.00 | $ | 32,500 | $ - | $ 32,500 |
| Boulder, Feature, 48-Inch | EA | 50 | $ | 950.00 | $ | 47,500 | $ - | $ 47,500 |
| Filter Material, Granular | CY | 36 | $ | 122.00 | $ | 4,392 | $ - | $ 4,392 |
| Riprap with Bedding, Type VL | CY | 5 | $ | 193.00 | $ | 965 | $ - | $ 965 |
| Riprap with Bedding, Type M | CY | 20 | $ | 193.00 | $ | 3,860 | $ - | $ 3,860 |
| Soil Riprap, Type VL | CY | 780 | $ | 98.00 | $ | 76,440 | $ - | $ 76,440 |
| Soil Riprap, Type M | CY | 1,385 | $ | 100.00 | $ | 138,500 | $ - | $ 138,500 |
| Soil Riprap, Type H | CY | 570 | $ | 101.00 | $ | 57,570 | $ - | $ 57,570 |
| Flared End Section, Reinforced Concrete Pipe (RCP), 18-Inch Diameter | EA | 1 | $ | 2,600.00 | $ | 2,600 | $ - | $ 2,600 |
| Reinforced Concrete Pipe (RCP), Class III, 18-Inch Diameter | LF | 51 | $ | 100.00 | $ | 5,100 | $ - | $ 5,100 |
| Storm Inlet, Type C, Single, <5 Foot Depth | EA | 1 | $ | 8,000.00 | $ | 8,000 | $ - | $ 8,000 |
| Underdrain Pipe, Common Trench | LF | 220 | $ | 40.00 | $ | 8,800 | $ - | $ 8,800 |
| Concrete Coating | SF | 170 | $ | 5.00 | $ | 850 | $ - | $ 850 |
| Concrete Sidewalk / Trail, 6-Inch Thick - Grey (non-colored); includes 226 LF of thickened edge = 19 CY | SF | 28,800 | $ | 9.00 | $ | 259,200 | $ - | $ 259,200 |
| Concrete Flatwork, 4-Inch Thick to 6-Inch Thick (i.e. sediment collection pad and concrete pads) | SY | 115 | $ | 91.00 | $ | 10,465 | $ - | $ 10,465 |
| Concrete, Reinforced Cutoff Wall | CY | 30 | $ | 1,400.00 | $ | 42,000 | $ - | $ 42,000 |
| Concrete, Sculpted | CY | 215 | $ | 1,325.00 | $ | 284,875 | $ - | $ 284,875 |
| Concrete, Structural, Bridge Abutment | CY | 50 | $ | 1,140.00 | $ | 57,000 | $ - | $ 57,000 |
| Concrete, Structural, Footing / Headwall / Wingwall | CY | 175 | $ | 1,310.00 | $ | 229,250 | $ - | $ 229,250 |
| Grout | CY | 1,320 | $ | 440.00 | $ | 580,800 | $ - | $ 580,800 |
| Retaining Wall, Modular Block (Landscape Block, Harvested) | SF | 125 | $ | 65.00 | $ | 8,125 | $ - | $ 8,125 |
| Sheet Pile Cap, Concrete | LF | 290 | $ | 154.00 | $ | 44,660 | $ - | $ 44,660 |
| Sheet Pile, Steel, Heavy | SF | 9,880 | $ | 44.00 | $ | 434,720 | $ - | $ 434,720 |
| Trail, Crusher Fines, 6-Inch Thick | SF | 15,100 | $ | 5.50 | $ | 83,050 | $ - | $ 83,050 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Parking Lot, Asphalt, 6-Inch Thick | SF | 30,160 | $ | 6.00 | $ | 180,960 | $ - | $ 180,960 |
| Striping, Pavement Lot | LS | 1 | $ | 6,500.00 | $ | 6,500 | $ - | $ 6,500 |
| Bridge, Pedestrian | LF | 100 | $ | 3,000.00 | $ | 300,000 | $ - | $ 300,000 |
| Fence, Chain Link Fabric, > 4-Feet Tall | LF | 320 | $ | 40.00 | $ | 12,800 | $ - | $ 12,800 |
| Fence, Construction | LF | 3,190 | $ | 3.25 | $ | 10,368 | $ - | $ 10,368 |
| Cottonwood Poles | EA | 57 | $ | 183.00 | $ | 10,431 | $ - | $ 10,431 |
| Mulch, Hydromulch | AC | 20 | $ | 4,350.00 | $ | 87,000 | $ - | $ 87,000 |
| Plug, Wetland | EA | 37,915 | $ | 4.15 | $ | 157,347 | $ - | $ 157,347 |
| Seeding, Riparian, Broadcast | SF | 195,460 | $ | 0.10 | $ | 19,546 | $ - | $ 19,546 |
| Seeding, Wetlands, Broadcast | SF | 109,220 | $ | 0.15 | $ | 16,383 | $ - | $ 16,383 |
| Seeding, Upland, Broadcast | SF | 534,300 | $ | 0.10 | $ | 53,430 | $ - | $ 53,430 |
| Shrub / Planting, 1 Gallon | EA | 0 | $ | - | $ | - | $ - | $ - |
| Shrub / Planting, 5 Gallon | EA | 1,400 | $ | 71.00 | $ | 99,400 | $ - | $ 99,400 |
| Soil Preparation and Fine Grading | AC | 20 | $ | 4,550.00 | $ | 91,000 | $ - | $ 91,000 |
| Tree, Deciduous, 2-Inch Diameter | EA | 61 | $ | 835.00 | $ | 50,935 | $ - | $ 50,935 |
| Willow Stakes | EA | 5,442 | $ | 11.00 | $ | 59,862 | $ - | $ 59,862 |
| Plastic Pipe / PVC, 4-Inch Diameter | LF | 495 | $ | 48.00 | $ | 23,760 | $ - | $ 23,760 |
| | | | | | | | | |
| Utility Coordination (Includes dewatering for fiber optic lowering) | LS | 1 | $ | 460,000.00 | $ | 460,000 | $ - | $ 460,000 |
| UC1 - Railroad Flaggers | DAY | 60 | $ | 2,700.00 | $ | 162,000 | $ - | $ 162,000 |
| UC2 - Earthwork Excavation - Potential Non-Hazardous Contaminated Material and Over-Excavation | CY | 12,580 | $ | 11.50 | $ | 144,670 | $ - | $ 144,670 |
| UC3 - Sort and Screen Excavated Non-Hazardous Contaminated Material | CY | 12,580 | $ | 8.60 | $ | 108,188 | $ - | $ 108,188 |
| UC4 - Haul Off Site, Non-Hazardous Contaminated Material | CY | 12,580 | $ | 65.00 | $ | 817,700 | $ - | $ 817,700 |
| | | | | | | | | |
| UC5 - Sorted and Screened Fill Placement On-Site | CY | 0 | $ | - | $ | - | $ - | $ - |
| UC6 - Earthwork Excavation, and Haul Off Site, Hazardous Contaminated Material | CY | 0 | $ | - | $ | - | $ - | $ - |
| | | | | | | | | |
| UC7 - Certified Asbestos Building Inspector (CABI) | DAY | 60 | $ | 1,450.00 | $ | 87,000 | $ - | $ 87,000 |
| | | | | | | | | |
| UC8 - Harvest Site, Riprap, Cobble, and Core Rock | CY | 1,780 | $ | 34.00 | $ | 60,520 | $ - | $ 60,520 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| UC9 - Harvest Parking Lot Boulders | EA | 32 | $ 200.00 | $ 6,400 | $ | - | $ | 6,400 |
| UC10 - Harvest Landscape Block | EA | 22 | $ 150.00 | $ 3,300 | $ | - | $ | 3,300 |
| UC11 - Riprap, Void-Permeated Type VL | CY | 565 | $ 147.00 | $ 83,055 | $ | - | $ | 83,055 |
| UC12 - Riprap, Void-Permeated Type L | CY | 265 | $ 148.00 | $ 39,220 | $ | - | $ | 39,220 |
| UC13 - Riprap, Void-Permeated Type M | CY | 3,940 | $ 148.00 | $ 583,120 | $ | - | $ | 583,120 |
| UC14 - Riprap, Void-Permeated Type H | CY | 80 | $ 149.00 | $ 11,920 | $ | - | $ | 11,920 |
| UC15 - Riprap with Bedding, Type M, Harvested | CY | 630 | $ 125.00 | $ 78,750 | $ | - | $ | 78,750 |
| UC16 - Surface Boulders to be Grouted, Imported | CY | 1,990 | $ 315.00 | $ 626,850 | $ | - | $ | 626,850 |
| UC17 - Surface Boulders to be Grouted, Harvested | SY | 0 | $ - | $ - | $ | - | $ | - |
| UC18 - Surface Boulders, Ungrouted, Imported | SY | 500 | $ 315.00 | $ 157,500 | $ | - | $ | 157,500 |
| UC19 - Surface Boulders, Ungrouted, Harvested | SY | 0 | $ - | $ - | $ | - | $ | - |
| UC20 - Core Rock to be Grouted, Imported | CY | 970 | $ 113.00 | $ 109,610 | $ | - | $ | 109,610 |
| UC21 - Core Rock to be Grouted, Harvested (Includes Harvested Riprap Type H and rock downstream of existing drop structure) | CY | 980 | $ 62.00 | $ 60,760 | $ | - | $ | 60,760 |
| UC22 - River Cobble, Harvested (Cobble Beach and Containment Row Terraces) | CY | 175 | $ 100.00 | $ 17,500 | $ | - | $ | 17,500 |
| UC23 - Grouted Boulder Wall (Uplands) | SY | 145 | $ 500.00 | $ 72,500 | $ | - | $ | 72,500 |
| UC24 - Grouted Boulder Wall (Access Point #6) | SY | 75 | $ 500.00 | $ 37,500 | $ | - | $ | 37,500 |
| UC25 - WaveShaper System For Drop 7 | LS | 1 | $ 285,000.00 | $ 285,000 | $ | - | $ | 285,000 |
| UC26 - WaveShaper System For Drop 8 | LS | 1 | $ 355,000.00 | $ 355,000 | $ | - | $ | 355,000 |
| UC27 - Solar Power System | LS | 1 | $ 40,000.00 | $ 40,000 | $ | - | $ | 40,000 |
| UC28 - Start Up and Tuning | LS | 1 | $ 30,000.00 | $ 30,000 | $ | - | $ | 30,000 |
| UC29 - Tuning Block - Rectangular | EA | 140 | $ 680.00 | $ 95,200 | $ | - | $ | 95,200 |
| UC30 - Tuning Block - Cylindrical | EA | 20 | $ 680.00 | $ 13,600 | $ | - | $ | 13,600 |
| UC31 - Tuning Block - Shoulder | EA | 20 | $ 680.00 | $ 13,600 | $ | - | $ | 13,600 |
| UC32 - Protective Canopy | LS | 1 | $ 145,000.00 | $ 145,000 | $ | - | $ | 145,000 |
| UC33 - H Pile | LF | 330 | $ 122.00 | $ 40,260 | $ | - | $ | 40,260 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| UC34 - Steel Coating | SF | 710 | $ | 9.00 | $ | 6,390 | $ | - | $ | 6,390 |
| UC35 - Lunkers | EA | 12 | $ | 2,450.00 | $ | 29,400 | $ | - | $ | 29,400 |
| UC36 - Plastic Pipe / PVC, 2-Inch Diameter | LF | 455 | $ | 26.00 | $ | 11,830 | $ | - | $ | 11,830 |
| UC37 - Pipe Arch | CY | 85 | $ | 505.00 | $ | 42,925 | $ | - | $ | 42,925 |
| UC38 - Hydraulic Controls Vault | EA | 1 | $ | 21,000.00 | $ | 21,000 | $ | - | $ | 21,000 |
| UC39 - Junction Vaults | EA | 2 | $ | 5,900.00 | $ | 11,800 | $ | - | $ | 11,800 |
| UC40 - Bioretention Growing Media | CY | 120 | $ | 136.00 | $ | 16,320 | $ | - | $ | 16,320 |
| UC41 - Restrictor Plate | EA | 1 | $ | 2,800.00 | $ | 2,800 | $ | - | $ | 2,800 |
| UC42 - Pre-Fabricated Shelter | EA | 3 | $ | 29,000.00 | $ | 87,000 | $ | - | $ | 87,000 |
| UC43 - Portolet Enclosure | EA | 1 | $ | 42,000.00 | $ | 42,000 | $ | - | $ | 42,000 |
| UC44 - Deciduous Tree, <1.0-Inch Caliber | EA | 47 | $ | 840.00 | $ | 39,480 | $ | - | $ | 39,480 |
| UC45 - Access Gate, Steel | EA | 1 | $ | 4,000.00 | $ | 4,000 | $ | - | $ | 4,000 |
| UC46 - Picnic Table | EA | 5 | $ | 5,100.00 | $ | 25,500 | $ | - | $ | 25,500 |
| UC47 - Bike Rack | EA | 4 | $ | 815.00 | $ | 3,260 | $ | - | $ | 3,260 |
| UC48 - Bench | EA | 3 | $ | 2,950.00 | $ | 8,850 | $ | - | $ | 8,850 |
| UC49 - Trash Receptacle | EA | 2 | $ | 3,250.00 | $ | 6,500 | $ | - | $ | 6,500 |
| UC50 - Stone Slab Bench | EA | 5 | $ | 5,950.00 | $ | 29,750 | $ | - | $ | 29,750 |
| UC51 - High Water Sign | EA | 1 | $ | 1,250.00 | $ | 1,250 | $ | - | $ | 1,250 |
| | | | | | | | | | | |
| UC52 - Remove, Store, Seal and Set Reclaimed Logs | EA | 11 | $ | 735.00 | $ | 8,085 | $ | - | $ | 8,085 |
| UC53 - Store and Reset Barricade Boulder | EA | 33 | $ | 600.00 | $ | 19,800 | $ | - | $ | 19,800 |
| UC54 - Parking lot Solar Light | EA | 1 | $ | 10,500.00 | $ | 10,500 | $ | - | $ | 10,500 |
| UC55 - Seeding - MHFD Rain Garden Mix | SF | 3,420 | $ | 0.15 | $ | 513 | $ | - | $ | 513 |
| UC56 - Seeding - Low-Grow Upland Mix | SF | 100,230 | $ | 0.16 | $ | 16,037 | $ | - | $ | 16,037 |
| UC57 - Seeding - Shade Tolerant, Broadcast | SF | 15,640 | $ | 0.14 | $ | 2,190 | $ | - | $ | 2,190 |
| UC58 - Sidewalk Chase | EA | 1 | $ | 2,780.00 | $ | 2,780 | $ | - | $ | 2,780 |
| UC59 - Concrete Curb Stops | EA | 22 | $ | 79.00 | $ | 1,738 | $ | - | $ | 1,738 |
| UC60 - Concrete Warning Strip | SF | 240 | $ | 53.00 | $ | 12,720 | $ | - | $ | 12,720 |
| UC61 - Concrete Curb Ramp | EA | 2 | $ | 1,650.00 | $ | 3,300 | $ | - | $ | 3,300 |
| | | | | | | | | | | |
| Additional Contaminated Soil Management | LS | 1 | $ | 1,785,000.00 | $ | 1,785,000 | $ | - | $ | 1,785,000 |
| Engineering Construction Phase Services | LS | 1 | $ | 1,590,000.00 | $ | 1,590,000 | $ | - | $ | 1,590,000 |
| Contingency (15%) | LS | 1 | $ | 2,390,000.00 | $ | 2,390,000 | $ | - | $ | 2,390,000 |
| | | | | | | | | | | |
| **Task 2 Total** | | | | | **$** | **19,875,743** | **$** | **-** | **$** | **19,875,743** |

| | | | |
|---|---|---|---|
| **TOTAL** | $ 21,865,743 | $ 200,000 | $ 21,665,743 |

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Last Updated: April 2023

## Colorado Water Conservation Board

# Water Plan Grant Application

## Instructions

To receive funding for a Water Plan Grant, applicant must demonstrate how the project, activity, or process (collectively referred to as "project") funded by the CWCB will help meet the measurable objectives and critical actions in the Water Plan. Grant guidelines are available on the CWCB website.

If you have questions, please contact CWCB at (303) 866-3441 or email the following staff to assist you with applications in the following areas:

| | |
|---|---|
| Water Storage Projects | Matthew.Stearns@state.co.us |
| Conservation, Land Use Planning | Kevin.Reidy@state.co.us |
| Engagement & Innovation Activities | Ben.Wade@state.co.us |
| Agricultural Projects | Alexander.Funk@state.co.us |
| Environmental & Recreation Projects | Chris.Sturm@state.co.us |

**FINAL SUBMISSION: Submit all application materials in one email to *waterplan.grants@state.co.us***
**in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents. In the subject line, please include the funding category and name of the project.**

## Water Project Summary

| | |
|---|---|
| Name of Applicant | Mile High Flood District |
| Name of Water Project | Clear Creek Whitewater Park |

| | |
|---|---|
| CWP Grant Request Amount | $100,000 |
| Other Funding Sources BNSF Railway | $4,250,000 |
| Other Funding Sources 2019 CWCB Grant | $100,000 |
| Other Funding Sources MHFD | $3,250,000 |
| Other Funding Sources Adams OS Grant | $4,500,000 |
| Applicant Funding Contribution | $9,765,743 |
| Total Project Cost | $21,865,743 |

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| Applicant & Grantee Information |
|---|
| Name of Grantee(s) **Mile High Flood District** |
| Mailing Address **12575 W Bayaud Avenue, Lakewood, CO 80228** |
| FEIN **84-0599780** |
| Organization Contact **Brooke Seymour** |
| Position/Title **Planning and Floodplain Management Director** |
| Email **bseymour@mhfd.org** |
| Phone **(303) 455-6277** |
| Grant Management Contact **Same as Organization Contact** |
| Position/Title |
| Email |
| Phone |
| Name of Applicant (if different than grantee) **Same as Grantee** |
| Mailing Address |
| Position/Title |
| Email |
| Phone |

| Description of Grantee/Applicant |
|---|
| Provide a brief description of the grantee's organization (100 words or less). |
| The Mile High Flood District (MHFD) was established by the Colorado legislature in 1969 to assist local governments in the Denver metropolitan area with multi-jurisdictional drainage and flood control challenges. MHFD covers Denver, parts of the six surrounding counties, and 35 incorporated cities and towns. MHFD focuses its resources on over 1,600 miles of major streams and serves a population of approximately 3 million.<br><br>MHFD applies a holistic watershed approach to address stormwater and minimize impacts from flooding in our community. MHFD's mission/vision is to protect people, property, and our environment through preservation, mitigation, and education. |

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| Type of Eligible Entity (check one) | |
|---|---|
| | **Public (Government):** Municipalities, enterprises, counties, and State of Colorado agencies. Federal agencies are encouraged to work with local entities. Federal agencies are eligible, but only if they can make a compelling case for why a local partner cannot be the grant recipient. |
| x | **Public (Districts):** Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises. |
| | **Private Incorporated:** Mutual ditch companies, homeowners associations, corporations. |
| | **Private Individuals, Partnerships, and Sole Proprietors:** Private parties may be eligible for funding. |
| | **Non-governmental organizations (NGO):** Organization that is not part of the government and is non-profit in nature. |
| | **Covered Entity:** As defined in Section 37-60-126 Colorado Revised Statutes. |

| Type of Water Project (check all that apply) | |
|---|---|
| | Study |
| x | Construction |
| | Identified Projects and Processes (IPP) |
| | Other |

| Category of Water Project (check the primary category that applies and include relevant tasks) | | |
|---|---|---|
| | | |
| | Water Storage - Projects that facilitate the development of additional storage, artificial aquifer recharge, and dredging existing reservoirs to restore the reservoirs' full decreed capacity and Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap..<br>*Applicable Exhibit A Task(s):* | |
| | Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning.<br>*Applicable Exhibit A Task(s):* | |
| | Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website.<br>*Applicable Exhibit A Task(s):* | |
| | Agricultural - Projects that provide technical assistance and improve agricultural efficiency.<br>*Applicable Exhibit A Task(s):* | |
| x | Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation.<br>*Applicable Exhibit A Task(s):* | |
| | Other | Explain: |

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| Location of Water Project | |
|---|---|
| Please provide the general county and coordinates of the proposed project below in **decimal degrees**. The Applicant shall also provide, in Exhibit C, a site map if applicable. | |
| County/Counties | **Adams** |
| Latitude | 39.80 |
| Longitude | -105.01 |

| Water Project Overview |
|---|
| Please provide a summary of the proposed water project (200 words or less). Include a description of the project and what the CWP Grant funding will be used for specifically (e.g., studies, permitting process, construction). Provide a description of the water supply source to be utilized or the water body affected by the project, where applicable. Include details such as acres under irrigation, types of crops irrigated, number of residential and commercial taps, length of ditch improvements, length of pipe installed, and area of habitat improvements, where applicable. If this project addresses multiple purposes or spans multiple basins, please explain.<br>The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule. |
| A 10-ft high drop structure in Clear Creek within BNSF right-of-way, upstream of Pecos Street. The purpose of the drop structure is to maintain the invert elevation of Clear Creek to protect the upstream BNSF bridge, but is no longer necessary since BNSF installed a deeper foundation. Because the existing drop structure is hazardous, the project will replace the drop with a series of smaller, low-hazard drops. The drops will be boatable and include two high performance wave features followed by a series of rapid drops promoting low-flow recreation. The additional drops will improve water quality in the area through oxygenation as the water passes over the structures and will improve fish passage. Additional stream improvements include reducing the size of Little Dry Creek Lake to meet water rights requirements and replacing the lake discharge pipes with open channel. Upland improvements include extending Adams County's trail system, wetland vegetation, and park amenities. Additionally, this site is a historic landfill; the project will remove disturbed solid waste and provide a cap at the park to reduce exposures for property users. This project will require major engineering within Clear Creek; CWCB grant funding would assist the project partners with final design. |

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| Measurable Results | | |
|---|---|---|
| To catalog measurable results achieved with the CWP Grant funds, please provide any of the following values as applicable: | | |
| | New Storage Created (acre-feet) | |
| | New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive | |
| | Existing Storage Preserved or Enhanced (acre-feet) | |
| 1500 ft of Clear Creek 440 ft of proposed open channel with base flows for Little Dry Creek Lake outfall | Length of Stream Restored or Protected (linear feet) | |
| | Efficiency Savings (indicate acre-feet/year OR dollars/year) | |
| 1.2 acres of proposed dedicated wetlands (required for wetland disturbance mitigation) | Area of Restored or Preserved Habitat (acres) | |
| | Quantity of Water Shared through Alternative Transfer Mechanisms | |
| | Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning | |
| 500-1000 Per Day | Number of Coloradans Impacted by Engagement Activity | |
| | Other | Explain: |

| Water Project Justification |
|---|
| Provide a description of how this water project supports the goals of Colorado's Water Plan, the most recent Statewide Water Supply Initiative, and the applicable Roundtable Basin Implementation Plan and Education Action Plan. The Applicant is required to reference specific needs, goals, themes, or Identified Projects and Processes (IPPs), including citations (e.g. document, chapters, sections, or page numbers).<br><br>The proposed water project shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan Framework for State of Colorado Support for a Water Project (CWP, Section 9.4, pp. 9-43 to 9-44;) |

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This collaborative project supports each of "Colorado's Water Values" as given in Chapter 1 of the Colorado Water Plan. The replacement of the dangerous and outdated drop structure with several smaller navigable drops is a safety and infrastructure improvement on this section of Clear Creek, greatly reducing the risk of drownings and serious injuries. The project will also provide for long-term channel stabilization and protect upstream infrastructure, such as the sanitary sewer line crossing near the upstream limit of the project, due to the failing condition of the existing drop structure. The project will provide stabilization in the river in a way that allows for low-hazard recreational use of the waterway. Additionally, this site is a historic landfill; the project will remove disturbed solid waste and provide a cap of clean material at the park to reduce future exposures for property users. Through creation of a new recreational area in a part of Clear Creek that has been historically neglected, the Clear Creek whitewater park supports new recreation and tourism uses. The project area is within one-half mile of the new Clear Creek at Federal rail station. Adams County expects the area around the rail station to be revitalized with a mixture of high density residential and commercial uses. The Clear Creek Whitewater Park will be an important feature as there are few existing parks nearby. Additionally, this series of smaller drops will provide enhanced oxygenation in Clear Creek, providing water quality and environmental benefits. Removal of this one large drop greatly improves navigability on Clear Creek. The existing structure must be portaged around and is a hazard to unwary boaters. The South Platte Basin Implementation Plan calls for multi-purpose projects that "address associated recreational and environmental benefits" to support its environmental and recreational goals. Among these goals is Environmental & Recreational Measurable Outcome #2, "Protect and Enhance Economic Values to Local and Statewide Economies Derives from Environmental and Recreational Water Uses, Such as Fishing, Boating, Waterfowl Hunting, Wildlife Watching, Camping and Hiking." The Clear Creek Whitewater Park be a region-wide recreational attraction that will bring clear economic benefits to this part of Adams County, which is largely industrial but beginning to redevelop. The removal of the large, unsafe drop and addition of the smaller whitewater features will also render this section of Clear Creek navigable to boaters, making much more of the waterway available for recreation than before.

Environmental & Recreational Measurable Outcome #3, "Protect, Maintain, and Improve Conditions of Streams, Lakes, Wetlands, and Riparian Areas to Promote Self-Sustaining Fisheries and Functional Riparian and Wetland Habitat to Promote Long-Term Sustainability," also sees progress as a result of this project. 1.2 acres of wetlands will be established in what is now Little Dry Creek Lake as a part of the project. River habitat and water quality will be improved, as the series of small drops that will be installed will provide a higher level of oxygenation to the creek.

## Related Studies

Please provide a list of any related studies, including if the water project is complementary to or assists in the implementation of other CWCB programs.

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Adams County *Clear Creek Corridor Master Plan*, Adopted 2018

Urban Drainage and Flood Control District: *Major Drainageway Planning, Phase A: Development of Alternate Plans for Clear Creek:* Adopted 2007

Urban Drainage and Flood Control District: *Major Drainageway Planning, Phase B: Development of Alternate Plans for Clear Creek:* Adopted 2007

Urban Drainage and Flood Control District and Adams County: *Clear Creek at BNSF Bridge Downstream of Federal Boulevard: Alternatives Analysis Report* :2016.

## Previous CWCB Grants, Loans or Other Funding

List all previous or current CWCB grants (including WSRF) awarded to both the Applicant and Grantee. Include: 1) Applicant name; 2) Water activity name; 3) Approving RT(s); 4) CWCB board meeting date; 5) Contract number or purchase order; 6) Percentage of other CWCB funding for your overall project.

Applicant: Mile High Flood District

Water Activity: Clear Creek Whitewater Park

Approving RTs: None

CWCB Board Meeting Date: November 20-21, 2019

Project Funding Percentage: 0.05%

## Taxpayer Bill of Rights

The Taxpayer Bill of Rights (TABOR) may limit the amount of grant money an entity can receive. Please describe any relevant TABOR issues that may affect your application.

This project has no TABOR issues.

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| Submittal Checklist | |
|---|---|
| **x** | I acknowledge the Grantee will be able to contract with CWCB using the Standard Contract. |
| Exhibit A | |
| **x** | Statement of Work(1) |
| x | Budget & Schedule(1) |
| **x** | Engineer's statement of probable cost (projects over $100,000) |
| **x** | Letters of Matching and/or Pending 3rd Party Commitments(1) |
| Exhibit C | |
| **x** | Map (if applicable)(1) |
| | Photos/Drawings/Reports |
| **x** | Letters of Support (Optional) |
| | Certificate of Insurance (General, Auto, & Workers' Comp.) (2) |
| | Certificate of Good Standing with Colorado Secretary of State(2) |
| | W-9(2) |
| | Independent Contractor Form(2) (If applicant is individual, not company/organization) |
| Engagement & Innovation Grant Applicants ONLY | |
| | Engagement & Innovation Supplemental Application(1) |

(1) Required with application.
(2) Required for contracting. While optional at the time of this application, submission can expedite contracting upon CWCB Board approval.

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# ENGAGEMENT & INNOVATION GRANT FUND SUPPLEMENTAL APPLICATION

## Introduction & Purpose

Colorado's Water Plan calls for an outreach, education, public engagement, and innovation grant fund in Chapter 9.5.

The overall goal of the Engagement & Innovation Grant Fund is to enhance Colorado's water communication, outreach, education, and public engagement efforts; advance Colorado's water supply planning process; and support a statewide water innovation ecosystem.

The grant fund aims to engage the public to promote well-informed community discourse regarding balanced water solutions statewide. The grant fund aims to support water innovation in Colorado. The grant fund prioritizes measuring and evaluating the success of programs, projects, and initiatives. The grant fund prioritizes efforts designed using research, data, and best practices. The grant fund prioritizes a commitment to collaboration and community engagement. The grant fund will support local and statewide efforts.

The grant fund is divided into two tracks: engagement and innovation. The Engagement Track supports education, outreach, communication, and public participation efforts related to water. The Innovation Track supports efforts that advance the water innovation ecosystem in Colorado.

## Application Questions

*The grant fund request is referred to as "project" in this application.

| Overview (answer for both tracks) |
|---|
| In a few sentences, what is the overall goal of this project? How does it achieve the stated purpose of this grant fund (above)? |
| |
| Who is/are the target audience(s)? How will you reach them? How will you involve the community? |
| |
| Describe how the project is collaborative or engages a diverse group of stakeholders. Who are the partners in the project? Do you have other funding partners or sources? |
| |

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| Overview (answer for both tracks) |
|---|
| Describe how you plan to measure and evaluate the success and impact of the project? |
| |
| What research, evidence, and data support your project? |
| |
| Describe potential short- and long-term challenges with this project. |
| |

Please fill out the applicable questions for either the Engagement Track or Innovation Track, unless your project contains elements in both tracks. If a question does not relate to your project, just leave it blank. Please answer each question that relates to your project. Please reference the relevant documents and use chapters and page numbers (Colorado's Water Plan, Basin Implementation Plan, PEPO Education Action Plan, etc.).

| Engagement Track |
|---|
| Describe how the project achieves the education, outreach, and public engagement measurable objective set forth in Colorado's Water Plan to "significantly improve the level of public awareness and engagement regarding water issues statewide by 2020, as determined by water awareness surveys." |
| |
| Describe how the project achieves the other measurable objectives and critical goals and actions laid out in Colorado's Water Plan around the supply and demand gap; conservation; land use; agriculture; storage; watershed health, environment, and recreation; funding; and additional. |
| |
| Describe how the project achieves the education, outreach, and public engagement goals set forth in the applicable Basin Implementation Plan(s). |

| |
|---|
| |
| Describe how the project achieves the basin roundtable's PEPO Education Action Plans. |
| |

| Innovation Track |
|---|
| Describe how the project enhances water innovation efforts and supports a water innovation ecosystem in Colorado. |
| |
| Describe how the project engages/leverages Colorado's innovation community to help solve our state's water challenges. |
| |
| Describe how the project helps advance or develop a solution to a water need identified through TAP-IN and other water innovation challenges. What is the problem/need/challenge? |
| |
| Describe how this project impacts current or emerging trends; technologies; clusters, sectors, or groups in water innovation. |
| |

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| Colorado Water Conservation Board |
|---|
| **Water Plan Grant - Exhibit A** |

| Statement Of Work | |
|---|---|
| **Date:** | **April 4, 2023** |
| **Name of Grantee:** | **Mile High Flood District** |
| **Name of Water Project:** | **Clear Creek Whitewater Park** |
| **Funding Source:** | **BNSF/MHFD/Adams County** |

**Water Project Overview:**

An approximate 10-foot high existing sheet pile drop structure currently exists in Clear Creek within the BNSF right-of-way, upstream of Pecos Boulevard. The primary purpose of the drop structure is to maintain the invert elevation of Clear Creek, thereby protecting upstream infrastructure including the former BNSF bridge spread footings in the river. This drop structure became redundant for the bridge owners in 2012, when RTD constructed the Northwest Electrified Segment (NWES) bridge in the BNSF right-of-way that enabled BNSF to also replace their existing bridge foundation with a deeper foundation. Because this drop structure is potentially hazardous and an undesirable liability, BNSF approached Adams County about removing the drop structure and relocating it outside of BNSF right-of-way. Not only is this drop a dangerous impediment to boaters, tubers, or swimmers, but the possibility exists that this aging structure (exhibiting signs of failure) may completely fail under stress, and cause significant uncontrolled degradation to the river and adjacent areas and threaten upstream utilities and landowners. BNSF supports removal of the old drop structure and replacement with several smaller low-hazard drops upstream of the railroad Right-of-Way. After analyzing various alternatives with Mile High Flood District and Adams County, a plan that includes instream recreation activities within the series of proposed low-hazard drop structures was adopted.

The proposed project now involves a series of drop structures, situated in such a way as to be easily traversed by boat, board, or tube. The first two will be “high-performance” structures that can be used to create a surfable wave much like those found at River Run Park in Englewood. Because such waves will only be available in high-flow situations such as the spring runoff, the remaining structures will be constructed primarily for low-flow situations, and will be intended for activities such as tubing and paddle-boarding. This will broaden the appeal of the park to a much wider variety of users, and will also ensure that activities can take place for much more time each year, instead of the short window provided by the spring runoff. The project will involve substantial engineering work both in the bed of Clear Creek and the Little Dry Creek Lake outfall, just north of the project site. The surface area of Little Dry Creek Lake will be reduced so that the permanent pool and wetland areas will be within the limits of the 1980 lake footprint to comply with water rights regulations. The Little Dry Creek Lake spillway will be modified due to the resulting lowering of the Clear Creek channel bed. The pipe outlet of Little Dry Creek into Clear Creek will be replaced with an open channel. The two (2) existing 30-inch storm sewer pipes conveying base flows from Little Dry Creek Lake will be plugged and a proposed berm blocking the existing spillway will redirect Little Dry Creek flood flows to a proposed spillway channel that outfalls into Clear Creek approximately 600 feet upstream of the current outfall location.

Substantial improvements to the upland portions of the project will also be undertaken. This will include an expanded trailhead and parking area, brought closer to the creek for greater accessibility for visitors carrying boats, tubes, or paddleboards. The park area to the north of Clear Creek will be landscaped, and new trails will be built to provide access to Clear Creek, as well as shelters and streamside viewing areas.

**Project Objectives:**

- Remove the hazardous sheet pile drop structure in BNSF right-of-way
- Install low-hazard, navigable drops with a whitewater recreation component
- Install "surf wave" structures
- Improve trailhead access for boaters & other users with parking & trails

Last Updated: April 2023

| Tasks |
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| **Task 1 – Project Planning & Design** |
| Description of Task: |
| The Clear Creek Whitewater Park project has come about because of an opportunity presented to us by BNSF Railway that aligns with master plans for Clear Creek that have been created by Adams County and the Mile High Flood District. The team required a preliminary design to define the project scope, prepare a preliminary budget, and submit a Section 404 Individual Permit application for the proposed improvements on Clear Creek. The preliminary design initiated the County to identify funding sources and serves as a basis for final design and permitting.<br><br>At this time, the 90% design package has been prepared and reviewed and the team is working to produce the final construction documents. |
| Method/Procedure: |
| MHFD and Adams County have contracted with Merrick & Company, Inc. to assist with planning and design of the whitewater park area. A 90% design package has been prepared to date that includes construction documents and specifications. A contractor was brought on board in August 2019 to assist in finalizing the construction plans and budget. Adams County, Merrick, and MHFD are in the process of acquiring the necessary permits from USACE, FEMA, BNSF, and others. The 404 permit and 401 certification and CLOMR have already been obtained. MHFD and Merrick are also working to obtain easements from each of the entities that will be affected by the project. |
| Deliverable: |
| Project plan, construction documents, schedule and budget. |

Last Updated: April 2023

| Tasks |
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| **Task 2 – Construction** |
| Description of Task: |
| Once design is complete and funding has been secured, the project partners will begin construction of the Clear Creek Whitewater Park. Construction will happen in one phase due to the expense involved in performing construction tasks in the waterway. Major construction tasks include Clear Creek water control during construction and prioritizing all improvements within the BNSF right-of-way, including the sheet pile drop structure removal.<br><br>Construction is anticipated to begin September 2023. |
| Method/Procedure: |
| The project team has hired Concrete Express Incorporated (CEI) to perform construction tasks. CEI has the necessary experience and expertise and will assist the team during the design phase as well as handling construction tasks. |
| Deliverable: |
| Completion of construction work at Clear Creek Whitewater Park. Old drop structure removed, surf wave structures installed, small "tubing" drops installed, new trailhead parking and access trails complete. Upland improvements including new landscaping, access trails and shelters complete.<br>• Increased safety at project site due to removal of old 8' drop structure.<br>• Improved access to Clear Creek and high-quality recreational experience.<br>• Water quality improvements from increased number of drops. |

Last Updated: April 2023

| Tasks |
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| **Task 3 – Project Maintenance and Monitoring** |
| Description of Task: |
| Following completion of the project, Adams County will operate the Clear Creek Whitewater Park as a public trailhead and recreational facility. The County will continue to ensure a low-hazard and enjoyable recreational atmosphere. There will also be the more commonplace needs of maintenance of the upland and trail facilities, landscaping, and parking area. Required cleanup including sediment and debris removal is expected after high flow events when the river water overtops the banks. The riverbanks shall be monitored for erosion and scoured areas may require additional bank protection/armoring. Regular maintenance is expected on the surf wave features. The park area will require high flood warnings for users to avoid recreating in the river during high flow events. |
| Method/Procedure: |
| Adams County and MHFD will employ its staff and security officers to inspect and maintain the site as needed. Signage will be provided to inform users of potential safety issues during high flow events. |
| Deliverable: |
| • A stabilized reach of Clear Creek that is accessible to the public and has minimal safety hazards<br>• Flood warning signage<br>• Security route/schedule<br>• Maintenance plans |

Last Updated: April 2023

## Budget and Schedule

This Statement of Work shall be accompanied by a combined Budget and Schedule that reflects the Tasks identified in the Statement of Work and shall be submitted to CWCB in excel format.

## Reporting Requirements

**Progress Reports:** The applicant shall provide the CWCB a progress report every 6 months, beginning from the date of issuance of a purchase order, or the execution of a contract. The progress report shall describe the status of the tasks identified in the statement of work, including a description of any major issues that have occurred and any corrective action taken to address these issues.

**Final Report:** At completion of the project, the applicant shall provide the CWCB a Final Report on the applicant's letterhead that:

- Summarizes the project and how the project was completed.
- Describes any obstacles encountered, and how these obstacles were overcome.
- Confirms that all matching commitments have been fulfilled.
- Includes photographs, summaries of meetings and engineering reports/designs.

The CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

## Payment

Payment will be made based on actual expenditures and must include invoices for all work completed. The request for payment must include a description of the work accomplished by task, an estimate of the percent completion for individual tasks and the entire Project in relation to the percentage of budget spent, identification of any major issues, and proposed or implemented corrective actions.

Costs incurred prior to the effective date of this contract are not reimbursable. The last 10% of the entire grant will be paid out when the final deliverable has been received. All products, data and information developed as a result of this contract must be provided to CWCB in hard copy and electronic format as part of the project documentation.

## Performance Measures

Performance measures for this contract shall include the following:
(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Water Plan Grant Guidelines, the CWCB will pay out the last 10% of the budget when the Final Report is completed to the satisfaction of CWCB staff. Once the Final Report has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.
(b) Accountability: Per Water Plan Grant Guidelines full documentation of project progress must be submitted with each invoice for reimbursement. Grantee must confirm that all grant conditions have been complied with on each invoice. In addition, per Water Plan Grant Guidelines, Progress Reports must be submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment.

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| Performance Measures |
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| (c) Monitoring Requirements: Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.<br>(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement. |