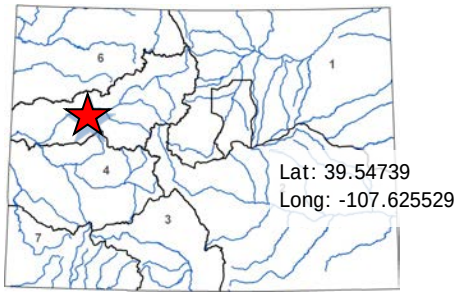
COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Water Plan Grant Application

Davis Point Pipeline
Grand River Ditch Company
July 2020 Board Meeting



LOCATION	
County/Counties:	Garfield
Drainage Basin:	Colorado

DETAILS	
Total Project Cost:	$175,043
Water Plan Grant Request:	$62,500
Recommended Amount:	$62,500
Other CWCB Funding:	$25,000 (WSRF)
Other Funding Amount:	$82,543
Applicant Match:	$5,000 (in-kind)
Project Type(s): Construction	
Project Category(Categories): Agricultural	
Measurable Result:	Agricultural water efficiency

The Grand River Ditch, also known as the Cactus Valley Ditch or Lower Cactus Valley Ditch, supplies irrigation water by a direct diversion from the Colorado River and serves 143 users, including the Town of Silt. The users are approximately 77% agricultural, and water from the ditch irrigated 1,508 acres within the service area. Irrigated acreage within the service areas includes nursery trees, hemp production, cattle ranching, and to grow hay and forage crops. Other uses include the raw water irrigation system employed by the Town of Silt and for augmentation. In 2018, the ditch began experiencing significant leaks up to 0.5 cfs. These significant leaks, combined with the inadequacy of temporary fixes, have caused stoppages in ditch delivery and post a long-term risk to the continued operation of the structure.

The Grand River Ditch Company is seeking WPVG funds to install a pipeline to make a permanent fix to the ditch system's degraded section. The project consists of approximately 825 feet of 48-inch pipe and related structures at the inlet of the pipe and returns to open ditch, as well as an additional structure utilized as a bypass or waste way. The United States Department of Agriculture - Natural Resources Conservation Service and applicant are providing cost-share for the project. The applicant is pursuing a WSRF grant, which has previously been approved by the Colorado River Basin Roundtable.

In addition to maintaining deliveries for both agricultural and municipal use, the project will further several Colorado Water Plan objectives, including enhancing system-efficiency for a significant portion of the ditch. The Grand River Ditch project also serves areas within the Silt Salinity Area. While no specific salinity loading amount is available, the project will likely result in reduced salt loading, which helps further interstate salinity objectives and improves water quality.

Staff recommends Board approval of $62,500 for the Davis Point Pipeline Project.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Last Updated: July 2019

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	Anna.Mauss@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	**GRAND RIVER DITCH COMPANY**
Name of Water Project	**Davis Point Pipeline**

CWP Grant Request Amount	$ 62,500
Other Funding Sources WSRF Basin Roundtable	$ 25,000
Other Funding Sources USDA EQIP	$ 59,043 incentive cash
Other Funding Sources NRCS Engineering	$ 23,500 in-kind assistance
Applicant Funding Contribution	$ 5,000 in-kind admin.
Total Project Cost	$175,043

Last Updated: July 2019

Applicant & Grantee Information
Name of Grantee(s) **GRAND RIVER DITCH COMPANY**
Mailing Address 3290 County Road 210
FEIN 84-0454346
Organization Contact **LeeRoy Chelewski**
Position/Title President, Board of Directors
Email ranch22bar@live.com
Phone 970-628-5053
Grant Management Contact **Linda S. Hansen**
Position/Title Secretary
Email lhansen@sopris.net
Phone 970-379-2276
Name of Applicant (if different than 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 Grand River Ditch Company is an incorporated ditch company in the State of Colorado; also known as the Cactus Valley Ditch or Lower Cactus Valley Ditch. The Company has an elected Board of Directors that manage the day-to-day business and operation of the ditch. The Ditch also has a hired "ditch walker" to manage flows of water to the users of the ditch and to do some limited maintenance work.

Last Updated: July 2019

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.
	Public (Districts): Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
X	**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.. *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. *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. *Applicable Exhibit A Task(s):*	
X	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. *Applicable Exhibit A Task(s):*	
	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. *Applicable Exhibit A Task(s):*	
	Other	Explain:

Last Updated: July 2019

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	Garfield County, Colorado
Latitude	39.54739
Longitude	-107.625529

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. The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.
This project lies within the I-70 and Colorado River corridor in central Garfield County, Colorado. The Ditch is approximately 14 miles long, starting about 3 miles west of New Castle, Colorado, on the north side of the Colorado River and ending about a mile east of Rifle, Colorado. The ditch company serves 143 users, including the Town of Silt. The users are approximately 77% agricultural. The Grand River Ditch provides water to irrigate 1,508 acres of land plus 246 acres utilized in gravel production from augmented shares. Irrigated acreage within the service area is primarily used for hobby farms, nursery trees, hemp production, cattle ranching and to grow hay and forage crops. Hay crops are used as cattle and horse feed, or are sold. Other uses include the raw water irrigation system employed by the Town of Silt, as well as use for extraction of a couple of gravel pits. This further increases the importance of continued delivery of water to all users, as 95% of the shareholders are located “down-ditch” from this project. Grand River Ditch is also known as the Cactus Valley Ditch or Lower Cactus Valley Ditch. Water for the Grand River Ditch is supplied by a direct diversion from the Colorado River delivered through an open ditch. Water Rights are for Ditch Number 82-A with Priority No. 142-B in Water District 39. Water Rights are for 50 CFS and were initially appropriated on September 24, 1888, and adjudicated on May 11, 1889. The ditch is approximately 14 miles long The Ditch is usually turned on or around 15th of April and runs until about the first of November, although the actual water right is year-round. In the fall of 2018, the ditch began experiencing significant leaks in a portion of the ditch which follows along Davis Point Road east of Silt. The terrain is composed of soil containing a large amount of rock; movement of the soil/rock has opened large “holes’ in the ditch bed, resulting in

leakage below the ditch and loss of water. Temporary "fixes" have included installation of bentonite/cement products to fill and seal the holes. Continued leaks in 2019 made it imperative that a longer-term solution be sought.

Initial consideration was given to installation of a myriad of possible linings, but due to the nature of the sharp rocks inherent throughout the ditch bed, that solution was discarded as it would not pose a long-term solution. Without controlling the seepage from the ditch, the bank will continue to saturate below the ditch bed, having the potential to continuously repeat the damage.

The Grand River Ditch Company desires to install a pipeline to make a permanent fix of this section. Proposed work is anticipated to take place in the fall of 2020, following shutdown of ditch operations.

The project consists of approximately 825 feet of 48 Inch pipe and related structures at the inlet into the pipe and return to open ditch, as well as an additional structure utilized as a bypass or wasteway.

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)	
	Length of Stream Restored or Protected (linear feet)	
	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
	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	
	Number of Coloradans Impacted by Engagement Activity	
X	Other	Ditch/water delivery improvement via installation of pipeline

Last Updated: July 2019

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).

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;)

Grand River Ditch Company is planning to install practices that will correct or improve current water issues. Ditch improvement via installation of pipeline will reduce water losses in an unstable ditch bed along an existing portion of the ditch and resulting water seepage/"blow-out" damage, as well as reduce salts and other contaminants from getting to the underground flow reaching the Colorado River. The project will promote sustaining area agriculture and municipal use by reducing water loss and promoting more effective use of water supply.

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.

A number of studies are available from previous projects involving the installation of several siphons. These reports were developed by the Soil Conservation Service (now NRCS).

Most of the area served by the Grand River Ditch is within the Silt Salinity Area. The Silt Salinity Program provides cost share to individual land users to install practices to reduce the salts entering the Colorado River. There is a report analyzing the water quality and amounts of salts produced within the area.

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.
In 2010-2011, Grand River Ditch Company obtained funding for installation of 1600 feet of 60" pipe at the head of the ditch. Of the initial loan approval in the amount of $518,130, $360,301.23 was actually disbursed, Of that amount, $25,000 was received as a grant from Colorado River Basin Roundtable, $243,328.00 as a grant from the Colorado Statewide WSRF funds, and the remaining $91,973.23 as a loan from the CWCB under Contract C150311. As of this date, that loan has been paid down to $26,981.58.

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.
Grand River Ditch Company is not a taxing entity.

GSubmittal 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)
	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)
X	Photos/Drawings/Reports
X	Letters of Support (Optional)
X	Certificate of Insurance (General, Auto, & Workers' Comp.) (2)
X	Certificate of Good Standing with Colorado Secretary of State(2)
X	W-9(2)
	Independent Contractor Form(2) (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application(1)

Last Updated: July 2019

(1) Required with application.

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

Last Updated: July 2019

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?

Last Updated: July 2019

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.

Last Updated: July 2019

Colorado Water Conservation Board
Water Plan Grant - Exhibit A

Statement Of Work	
Date:	**January 13, 2020**
Name of Grantee:	**GRAND RIVER DITCH COMPANY**
Name of Water Project:	**Davis Point Pipeline**
Funding Source:	**Colorado Water Plan**

Water Project Overview:

Install pipeline to reduce water loss, erosion and salinity in an unstable ditch bed. Approximately 825 ft. of 48 pipeline will be installed.

Concrete inlet, water control (wasteway) and outlet boxes will be installed to control and ensure water appropriately enters and exits the pipeline eliminating erosion and water loss in an unstable ditch bed.

Project Objectives:

Project is proposed to eliminate significant “leaks” in a portion of the ditch which follows along Davis Point Road east of Silt. The terrain is comprised of soils containing a large amount of rock; movement of the soil/rock has repeatedly open large “holes” in the ditch bed, resulting in leakage below the ditch and loss of water. Temporary “fixes” have included installation of bentonite/concrete products to fill and seal the holes. Installation of the pipeline will eliminate the current seepage, which is believed to cause the present shifting of the soil.

Last Updated: July 2019

Tasks
Task 1 – Engineering of pipeline and related structures
Description of Task:
Secure an engineer that has the skills, knowledge and abilities to design, draw and oversee the contruction of the pipeline, structures and reclamation work.
Method/Procedure:
Natural Resources Conservation Services engineers will design and prepare mechanical drawings to adequate detail that a construction company can build and install all work to meet the NRCS standards and specifications for the pipeline, related structures and other work. Note: Only preliminary work has been complete to date.
Deliverable:
Design sheets and mechanical drawings, along with standards and specifications.

Last Updated: July 2019

Tasks
Task 2 –Concrete inlet box structure
Description of Task:
Complete needed grading and shaping of the site to ensure the structure can be formed, reinforced and poured according to standards and specifications. Work will be completed in a safe and in quality manner. Site will be smoothed, graded and finished in a professional manner.
Method/Procedure:
Tasks will include the forming of the structure, obtaining of the engineer's approval of forming before proceeding to the pouring of concrete. Ensure the engineer is on site at the time of the pour. Ensure the concrete meets standards and specifications. Forms shall be removed in a timely manner; process shall allow adequate time for concrete curing. Final backfill, grading and shaping shall be completed.
Deliverable:
Complete structure that will function as designed to property have water flow into pipeline.

Repeat for Task 3, Task 4, Task 5, etc.

Last Updated: July 2019

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

Performance Measures
submitted at least once every 6 months. A Final Report must be submitted and approved before final project payment. (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. (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.

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Colorado Water Conservation Board

Water Plan Grant - Exhibit B
Budget Template Instructions

**** Please select the most appropriate budget template for your project from the worksheet tabs below. A general budget template is provided, as well as templates for studies, construction, and engineering projects.****

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Colorado Water Conservation Board

Water Plan Grant - Exhibit B
Budget and Schedule

Prepared Date: January 21, 2020

Name of Applicant: GRAND RIVER DITCH COMPANY

Name of Water Project: Davis Point Pipeline

Project Start Date: Fall, 2020

Project End Date: Fall, 2020

Task No.	Task Description	Task Start Date	Task End Date	Grant Funding Request	Match Funding	Total
1	Engineering of pipeleine and related structures	15-May-20	1-Nov-20		$23,500 NRCS In-kind	$23,500
2	Concrete inlet box structure	1 Nov 20	15 Dec 20		$9,500 EQIP	$9,500
3	Install 825 ft. of 48" HDPE Pipe	1 Nov 20	15 Dec 20	$62,500 CWP*	30543 EQIP	$118,043
4	Concrete Structure for water control	1 Nov 20	15 Dec 20		$9,500	$9,500
5	Concrete outlet box structure	1 Nov 20	15 Dec 20		$9,500	$9,500
6	Preparation of all final paperwork	15 Dec 20	31 Jan 21		$5,000	$5,000
						$0
						$0
						$0
						$0
	* $25,000 request submitted to WSRF					$0
						$0
						$0
			Total	$62,500 CWP	$87,543	$175,043

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Colorado Water Conservation Board

Water Plan Grant - Detailed Budget Estimate
Fair and Reasonable Estimate

Prepared Date:
Name of Applicant:
Name of Water Project:

EXAMPLE A: Study or Project Coordination

Task 1 - [TASK NAME]

Sub-task	Item	Hourly Rate	# Hours	Sub-total	Item Cost	Item Quantity	Sub-total	Total	CWCB Funds	Matching Funds
Focus Groups										
	Participant Stipend			$ -	$ 50.00	20.00	$ 1,000.00	$ 1,000.00	$ 250.00	$ 750.00
	Catering			$ -	$ 15.00	20.00	$ 300.00	$ 300.00	$ 75.00	$ 225.00
	Feedback Survey			$ -	$ 0.50	20.00	$ 10.00	$ 10.00	$ 2.50	$ 7.50
	Staff Time	$ 40.00	10	$ 400.00				$ 400.00	$ 100.00	$ 300.00
Develop Exhibit										
	Exhibit Designer	$ 50.00	100	$ 5,000.00			$ -	$ 5,000.00		
	Staff Time Project Manager	$ 50.00	30	$ 1,500.00			$ -	$ 1,500.00		
	Staff Time Administrative	$ 35.00	20	$ 700.00			$ -	$ 700.00		
	Film Production (filming, editing, production)			$ -	$ 5,000.00	1.00	$ 5,000.00	$ 5,000.00		
				$ -			$ -	$ -		
TOTAL								**$ 13,910.00**		
Other Direct Costs (see below)								**$ 2,469.00**		
OVERALL TOTAL								**$ 16,379.00**		

Other Direct Costs

Item:	Copies & Printing (Black & White)	Copies & Printing (Color)	Materials and Final Report Production	Lodging and Meals	Travel Expenses (Airfare and Car Rental)	Mileage	Total
Units:	**No.**	**No.**	**Lump Sum**	**Per Diem**	**Lump Sum**	**Miles**	
Unit Cost:	**$0.10**	**$0.50**		**$ 100.00**		**$0.535**	
Project Initiation	150	100		2		400	$479
Report, Conclusions and Recommendations	150	150	$ 1,900	0		0	$1,990
Total Units:	300	250	1,900	2	0	400	
Total Cost:	$30	$125	$1,900	$200	$0	$214	**$2,469**

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Colorado Water Conservation Board

Water Plan Grant - Detailed Budget Estimate
Fair and Reasonable Estimate

Prepared Date:
Name of Applicant:
Name of Water Project:

EXAMPLE C: Construction

Task 1 - Construction

Sub-task	Unit	Quantity	Unit Cost	Total Cost	CWCB Funds	Matching Funds
Mobilization	LS	1	$ 50,000	$ 50,000	$ 10,000	$ 40,000
Coffer Dam	EA	1	$ 100,000	$ 100,000	$ 20,000	$ 80,000
Cut	CY	20,000	$ 4	$ 80,000	$ 16,000	$ 64,000
Fill	CY	18,000	$ 8	$ 144,000	$ 28,800	$ 115,200
Erosion Control	LS	1	$ 40,000	$ 40,000	$ 8,000	$ 32,000
18-inch HDPE	LF	500	$ 50	$ 25,000	$ 5,000	$ 20,000
18-inch Valve	EA	1	$ 10,500	$ 10,500	$ 2,100	$ 8,400
Etc…						

Task 2 - ?

TOTAL				$ 449,500.00	$ 89,900	$ 359,600

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Colorado Water Conservation Board

Water Plan Grant - Detailed Budget Estimate
Fair and Reasonable Estimate

Prepared Date:
Name of Applicant:
Name of Water Project:

EXAMPLE B: Engineering

Task 1 - Engineering	**Water Consultants**					Subcontracts							
Sub-task	Senior Principal Engineer	Senior Water Resources Engineer/ Consultant	Water Resources Engineer	Geologist/ Water Resources Analyst	**Subtotal**	Geotechnical	Environmental and Cultural Resources	(Other)	**Subtotal**	Project Total	**CWCB Funds**	**Matching Funds**
	$ 190	$ 160	$ 130	$ 100		Lump sum	Lump Sum					
	Estimated Hours					Cost per						
Project Initiation / Stakeholder identification	12	32		16	**$ 9,000**				**$ -**	$9,000		
Water Rights Evaluation	24	24	80	30	**$ 21,800**			$ 12,000	**$ 12,000**	$33,800		
Geotechnical	24			36	**$ 8,160**	$ 27,000			**$ 27,000**	$35,160		
Permitting		32		40	**$ 9,120**				**$ -**	$9,120		
Survey	4	24		8	**$ 5,400**				**$ -**	$5,400		
Design of XXX	160	60	100		**$ 12,640**				**$ -**	$12,640		
Preparation of construction documents (bid docs, specs)	40	10	30									
Project Management	20	30		24	**$ 11,000**				**$ -**	$11,000		
Report, Conclusions, & Recommendations	40	54	16	40	**$ 22,320**			$ 3,000	**$ 8,500**	$30,820		
Task 2 - ?												
TOTAL										**$146,940**		

COLORADO
Colorado Water Conservation Board
Department of Natural Resources

Last Updated: July 2019

Colorado Water Conservation Board
Water Plan Grant - Exhibit A

Statement Of Work	
Date:	**January 13, 2020**
Name of Grantee:	**GRAND RIVER DITCH COMPANY**
Name of Water Project:	**Davis Point Pipeline**
Funding Source:	**Colorado Water Plan**

Water Project Overview:

Install pipeline to reduce water loss, erosion and salinity in an unstable ditch bed. Approximately 825 ft. of 48 pipeline will be installed.

Concrete inlet, water control (wasteway) and outlet boxes will be installed to control and ensure water appropriately enters and exits the pipeline eliminating erosion and water loss in an unstable ditch bed.

Project Objectives:

Project is proposed to eliminate significant "leaks" in a portion of the ditch which follows along Davis Point Road east of Silt. The terrain is comprised of soils containing a large amount of rock; movement of the soil/rock has repeatedly open large "holes" in the ditch bed, resulting in leakage below the ditch and loss of water. Temporary "fixes" have included installation of bentonite/concrete products to fill and seal the holes. Installation of the pipeline will eliminate the current seepage, which is believed to cause the present shifting of the soil.

Last Updated: July 2019

Tasks
Task 1 – Engineering of pipeline and related structures
Description of Task:
Secure an engineer that has the skills, knowledge and abilities to design, draw and oversee the contruction of the pipeline, structures and reclamation work.
Method/Procedure:
Natural Resources Conservation Services engineers will design and prepare mechanical drawings to adequate detail that a construction company can build and install all work to meet the NRCS standards and specifications for the pipeline, related structures and other work. Note: Only preliminary work has been complete to date.
Deliverable:
Design sheets and mechanical drawings, along with standards and specifications.

Last Updated: July 2019

Tasks
Task 2 –Concrete inlet box structure
Description of Task:
Complete needed grading and shaping of the site to ensure the structure can be formed, reinforced and poured according to standards and specifications. Work will be completed in a safe and in quality manner. Site will be smoothed, graded and finished in a professional manner.
Method/Procedure:
Tasks will include the forming of the structure, obtaining of the engineer's approval of forming before proceeding to the pouring of concrete. Ensure the engineer is on site at the time of the pour. Ensure the concrete meets standards and specifications. Forms shall be removed in a timely manner; process shall allow adequate time for concrete curing. Final backfill, grading and shaping shall be completed.
Deliverable:
Complete structure that will function as designed to property have water flow into pipeline.

Repeat for Task 3, Task 4, Task 5, etc.

Last Updated: July 2019

Tasks
Task 3 – Installation of 825 ft. of 48" HDPE Pipe
Description of Task:
Purchase required HDPE pipe and fittings necessary to install the pipeline. Properly grade, excavate, place and cover the pipe to standard drawings and specifications. Note: If a problem occurs during installation, the engineer will be contacted and consulted.
Method/Procedure:
Contract with a quality, respected contractor with adequate equipment to install the pipeline to engineer's standards and specifications.
Deliverable:
Have a quality pipeline installed that meets required standards and specifications; certification that work is properly completed and meets the standards and specifications.

Last Updated: July 2019

Tasks
Task 4 –Structure for water control
Description of Task:
Install concrete structure for water control (wasteway).
Method/Procedure:
Tasks will include the forming of the structure, obtaining of the engineer's approval of forming before proceeding to the pouring of concrete. Ensure the engineer is on site at the time of the pour. Ensure the concrete meets standards and specifications. Forms shall be removed in a timely manner; process shall allow adequate time for concrete curing. Final backfill, grading and shaping shall be completed.
Deliverable:
Complete structure that will function as designed to property have wasteway exit from the pipeline.

Repeat for Task 3, Task 4, Task 5, etc.

Last Updated: July 2019

Tasks
Task 5 – Concrete outlet box structure
Description of Task:
Complete needed grading and shaping of the site to ensure the structure can be formed, reinforced and poured according to standards and specifications. Work will be completed in a safe and in quality manner. Site will be smoothed, graded and finished in a professional manner.
Method/Procedure:
Tasks will include the forming of the structure, obtaining of the engineer's approval of forming before proceeding to the pouring of concrete. Ensure the engineer is on site at the time of the pour. Ensure the concrete meets standards and specifications. Forms shall be removed in a timely manner; process shall allow adequate time for concrete curing. Final backfill, grading and shaping shall be completed
Deliverable:
Complete structure that will function as designed to property have water flow from pipeline into open ditch..

Last Updated: July 2019

Tasks
Task 6 –Preparation of all final paperwork
Description of Task:
Collect all necessary invoices, photos, certifications and prepare a completion report for all funding entities.
Method/Procedure:
.Gather and organize, in a logical manner, all items necessary to produce a quality final report.
Deliverable:
Proper documentation to receive cost share funds and promote implementation of quality conservation work.

Repeat for Task 3, Task 4, Task 5, etc.

TOWN OF SILT Est. 1915

231 N. 7th Street / P.O. Box 70 / Silt, CO 81652
Phone: 970-876-2353 / Fax: 970-876-2937

To whom it may concern,

In regards to the piping of the Cactus Valley Ditch proposed, by the Grand River Ditch Company, the Town of Silt is in full support of this project. The Cactus Valley Ditch is a main source of irrigation water to the Town of Silt and its residences. By allowing this project to procced it will help eliminate possible Ditch failures and avoid any complete stoppage of water flow that adversely effects the whole community.

Sincerely,

Trey H. Fonner
Public Works Director
Town of Silt