

Last Updated: July 2017

## 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:

Supply and Demand Gap Projects	Gregory.Johnson@state.co.us
Water Storage Projects	Anna.Mauss@state.co.us
Conservation, Land Use Planning	Kevin.Reidy@state.co.us
Engagement & Innovation Activities	Mara.MacKillop@state.co.us
Agricultural Projects	Brent.Newman@state.co.us
Environmental & Recreation Projects	Linda.Bassi@state.co.us

Applicants interested in submitting an ‘Intent to Apply’ in the future are encouraged to check here ☐ and fill in all sections with the best information available at the time. Exhibits may be excluded.

This “Intent to Apply” will help CWCB prioritize Projects that are not ready for fully completed Water Plan Grant Application due to the initial timeframe and required deadlines.

**FINAL SUBMISSION:** Submit all application materials to [waterplan.grants@state.co.us](mailto:waterplan.grants@state.co.us) in the original file formats [Application (word); Statement of Work (word); Budget/Schedule (excel)]. Please do not combine documents.

#### Water Project Summary

Name of Applicant	Aurora–Colorado Springs Joint Water Authority	
Name of Water Project	Homestake Arkansas River Diversion Improvements	
CWP Grant Request Amount	\$300,000	
Other Funding Sources <u>Colorado Parks and Wildlife</u>	\$500,000	
Other Funding Sources _____	\$	
Applicant Funding Contribution	\$6,850,000	
Total Project Cost	\$7,650,000	

Last Updated: July 2017

Applicant & Grantee Information	
Name of Grantee(s)	Aurora-Colorado Springs Joint Water Authority
Mailing Address	1521 Hancock Expressway, MC 1821 Colorado Springs, CO 80947-1821
FEIN	84-0948245
Organization Contact	Ron Sanchez
Position/Title	Board Member
Email	<a href="mailto:rjsanchez@csu.org">rjsanchez@csu.org</a>
Phone	719-668-8611
Grant Management Contact	<u>Ron Sanchez</u>
Position/Title	Board Member
Email	<a href="mailto:rjsanchez@csu.org">rjsanchez@csu.org</a>
Phone	719-668-8611
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

Last Updated: July 2017

Description of Grantee/Applicant
Provide a brief description of the grantee's organization (100 words or less).
<p>The Aurora-Colorado Springs Joint Water Authority (Authority) is an authority formed as a water authority, a body corporate and politic, a separate governmental entity, a political subdivision and a public corporation of the State of Colorado, pursuant to Section 18(2) (a) and 2(b) of Article XIV, Constitution of the State, and to Section 29-1-204.2, Colorado Revised Statutes 1973, as amended (the "Act").</p> <p>The Authority is authorized under CRS to own, operate and maintain real and personal property and facilities in common with others, and to conduct joint, partnership, cooperative, or other operations with others, and to exercise all of the powers granted herein in joint, partnership, or cooperative efforts and operations with others.</p>

Last Updated: July 2017

Type of Eligible Entity (check one)	
	<b>Public (Government):</b> 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.
<b>X</b>	<b>Public (Districts):</b> Authorities, Title 32/special districts (conservancy, conservation, and irrigation districts), and water activity enterprises.
	<b>Private Incorporated:</b> Mutual ditch companies, homeowners associations, corporations.
	<b>Private Individuals, Partnerships, and Sole Proprietors:</b> Private parties may be eligible for funding.
	<b>Non-governmental organizations (NGO):</b> Organization that is not part of the government and is non-profit in nature.
	<b>Covered Entity:</b> As defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a> .

Type of Water Project (check all that apply)	
	Study
<b>X</b>	Construction
<b>X</b>	Identified Projects and Processes (IPP)
	Other

Category of Water Project (check all that apply and include relevant tasks)	
	Supply and Demand Gap Projects - Multi-beneficial projects and those projects identified in basin implementation plans to address the water supply and demand gap. <i>Applicable Exhibit A Task(s):</i>
	Water Storage Projects - Projects that facilitate the development of additional storage, artificial recharge into aquifers, and dredging existing reservoirs to restore the reservoirs' full decreed storage capacity. <i>Applicable Exhibit A Task(s):</i>
	Conservation and Land Use Planning Projects - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>
	Engagement & Innovation Projects - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application available on the website. <i>Applicable Exhibit A Task(s):</i>
	Agricultural Projects - Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s):</i>
<b>X</b>	Environmental & Recreation Projects – Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s): TASK 4 Construction</i>

Last Updated: July 2017

	Other	Explain:
--	-------	----------

Location of Water Project	
Please provide the general county and coordinates of the proposed project below in <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Chafee County
Latitude	39.026548
Longitude	-106.234907

Water Project Overview
<p>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.</p> <p>The Applicant shall also provide, in Exhibit A, a detailed Statement of Work, Budget, Other Funding Sources/Amounts and Schedule.</p> <p>The Homestake Arkansas River Diversion (ARD) below the town of Granite, Colorado on the Upper Arkansas River was constructed in 1965 as the original point of diversion for the Homestake Project. The ARD is a rockfill diversion dam with steel sheet pile and articulated concrete mat armoring at the crest. In the 1980s, the intake pipeline was extended to Twin Lakes and the ARD was retained as a backup facility. Since the 1980s, the diversion dam and intake have deteriorated including failure of portions of the articulated concrete armoring and erosion of the rockfill. In its current condition, the ARD presents a hazard to navigation due to exposed rebar and sheet pile and powerful hydraulic conditions on the downstream face. The current condition of this structure requires that recreational whitewater users portage to continue downriver.</p> <p>The ARD Improvements Project (Project) will reconstruct the diversion and intake to provide a robust and reliable river intake, provide fish passage for Brown and Rainbow Trout, and reduce risk to recreational users by minimizing entrapment risk and reducing retentive hydraulic conditions. In its current configuration, the Project includes a reconstructed lateral intake, diversion dam, spillway, an engineered fish passage, and appurtenant structures. The project will improve approximately 600 LF of river frontage, restore approximately 1.37 acres.</p> <p>The CWCB Grant funding is specifically for <b>a multi-objective project that includes a boat chute</b> that allows for improved navigability through this reach of the Arkansas River. The Authority has worked with CPW and AHRA to evaluate their desire for improved navigability of the ARD. To that end the Authority has invested significant funding to validate the results of typical engineering design and numerical modeling and commissioned a scaled physical model of the ARD with a boat chute to validate the technical feasibility of the project prior to requesting grant funding. To meet our fiduciary responsibility to our rate payers we are requesting on behalf of all stakeholders for grant funding to fund the difference in cost of an ARD with the minimum requirements of a fish passage and spillway and the cost of adding the boat chute. The boat chute comprises approximately 20% of the total project cost. The requested grant funding is less than 5% of the entire project cost that will be covered by the</p>

Last Updated: July 2017

### Water Project Overview

Authority.

### 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)
<b>600 LF</b>	Length of Stream Restored or Protected (linear feet)
	Efficiency Savings (indicate acre-feet/year OR dollars/year)
<b>1.37</b>	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
<b>X</b>	Other Explain: River Restoration will incorporate fish passage, improved river intake and spillway structure, portage, and navigable boat passage improvements

### Water Project Justification

Provide a description of how this water project supports the goals of [Colorado's Water Plan](#), the most



Last Updated: July 2017

### Water Project Justification

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;)

The proposed project supports 4 of the 5 goals of the [Colorado Water Plan Section 6.6: Environmental and Recreational Projects and Methods](#). As proposed, the project will rehabilitate a deteriorated river diversion structure used by the Homestake Water Project. The project will incorporate multi-objective improvements that reconstruct the original river intake and diversion structure and improves river navigability for fish and recreational boaters. A description of how the project meets the CWP goals are summarized below.

- **Promote restoration, recovery, sustainability, and resiliency of endangered, threatened, and imperiled aquatic- and riparian-dependent species and plant communities.**

In collaboration with Colorado Parks and Wildlife, the proposed project will restore a 600 foot section below the town of Granite and Clear Lake that provides for brown and rainbow trout passage along this stretch of the Arkansas River.

- **Protect and enhance economic values to local and statewide economies that rely on environmental and recreational water uses, such as fishing, boating, waterfowl hunting, wildlife watching, camping, and hiking.**

The proposed project enhances recreational opportunities at the site that include boat navigability and fish passage at the project site. This improvement will allow navigability along this reach of the Arkansas River between the towns of Granite and Buena Vista without having to portage around the project site during reasonable recreational flows. Implementing the fish passage will enhance fishing recreation upstream and downstream of the project with improved fish migration habitat in this reach of the Arkansas River. The project enhances economic opportunities for commercial rafting and fishing guide companies and fishing habitat that contributes to the economies of the region.

- **Support the development of multipurpose projects and methods that benefit environmental and recreational water needs as well as water needs for communities or agriculture.**

The multi-objective project improves operation of the intake and diversion which is owned and operated by Authority for the benefit of the Cities of Colorado Springs and Aurora. The incorporation of fish and boat passages benefits both the environmental and recreational needs of the Arkansas River basin communities. As a project that meets these needs, it was recognized in the Arkansas Basin Roundtable Basin Implementation Plan (April 2015) under Identified Projects & Processes in Chaffee County (ARK-2015-0024).

- **Understand, 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 and resiliency.**

The proposed project restores approximately 600 LF and 1.37 acres along the river as well as improves the overall condition of the river. The improvements will incorporate a fish passage, a boat passage, spillway diversion structure, and intake.

Last Updated: July 2017

## Water Project Justification

### 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.

#### **Recent Studies include the following:**

Homestake System Condition Assessment Project – Condition Assessment and Improvement Report for Transmission System Arkansas River Diversion, CH2M HILL, 2007

Homestake System Condition Assessment Project – Feasibility Study and Report: Rehabilitation Alternatives for Arkansas River Diversion Facility, CH2M HILL, 2008

Preliminary Design Report: Homestake System Arkansas River Diversion, Recreational Engineering and Planning, 2009

Homestake System Condition Assessment Project – Review of the Arkansas Headwaters Recreation Association Preliminary Design Report – Arkansas River Diversion, CH2M HILL, 2010

Arkansas River Diversion– Pre-Alternative Refinement Evaluation, Merrick & Company, 2014

Arkansas Basin Roundtable Basin Implementation Plan, 2015 April

ARD Hydro-technical Design Review Report (Technical Review of previous studies), SG1 Water Consulting Ltd., 2016

**\* ARD Basis of Design Report, SG1 Water Consulting Ltd., 2016**

**\* Basis of Design Report for Homestake Arkansas River Diversion Improvements (30% DRAFT), Deere and Ault Consultants, Inc., 2017**

**\* Assists in the implementation of Arkansas Basin Roundtable Basin Implementation Plan (April 2015), Identified Projects & Processes in Chaffee County (ARK-2015-0024)**





Last Updated: July 2017

### 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.

#### **Colorado Springs Utilities**

2014 The Species Grant CWCB Contract# C154224: \$500,000

1. Colorado Springs Utilities
2. 2014 The Species Grant CWCB, \$500,000
3. N/A
4. N/A
5. CWCB Contract No. C154224
6. 0%

2016 The North to North NRCS (75%) CWCB (12 ½%) grant Contract# CTGG12016-22: \$945,000

1. Colorado Springs Utilities
2. 2016 The North to North Wellington Gulch NRCS/CWCB Grant
3. N/A
4. N/A
5. CWCB Contract No. CTGG12016-22
6. 12.5%

#### **Aurora Water**

##### **Prairie Waters:**

1. City of Aurora
2. Prairie Waters Conveyance System  
Construction Fund Loan for \$75,750,000 at 3.75% interest  
Paid off in 2016 by the 2016 Water Revenue Refunding bonds issue
3. N/A
4. November 20, 2007
5. Loan Contract No.: C150243
6. 0%

##### **Lost Creek ASR Pilot Project:**

1. City of Aurora
2. Lost Creek Underground Storage Pilot Project  
\$100,000 CWCB Construction Fund Non-reimbursable Project Investment Grant
3. N/A
4. May 18, 2017
5. POGG1 PDAA 201700001081
6. 0%

Last Updated: July 2017

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.

None

Submittal Checklist	
X	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> .
Exhibit A	
X	Statement of Work <sup>(1)</sup>
X	Budget & Schedule <sup>(1)</sup> ( <i>Spreadsheet</i> )
X	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(1)</sup>
Exhibit C	
X	Map (if applicable) <sup>(1)</sup>
X	Photos/Drawings/Reports
X	Letters of Support (Support letter from Basin Roundtable encouraged)
X	Certificate of Insurance (General, Auto, & Workers' Comp.) <sup>(2)</sup>
	Certificate of Good Standing with Colorado Secretary of State <sup>(2)</sup>
X	W-9 <sup>(2)</sup>
	Independent Contractor Form <sup>(2)</sup> (If applicant is individual, not company/organization)
Engagement & Innovation Grant Applicants ONLY	
	Engagement & Innovation Supplemental Application <sup>(1)</sup>

(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 5, 2017

## Colorado Water Conservation Board

### Water Plan Grant - Exhibit A

#### Statement of Work

<b>Date:</b>	<b>10/01/2017</b>
<b>Name of Applicant:</b>	<b>Aurora Colorado Springs Joint Water Authority (ACJWA)</b>
<b>Name of Water Project:</b>	<b>Arkansas River Diversion</b>
<b>Funding Source:</b>	<b>Environmental and Recreation Program Grant</b>

**Water Project Overview:** Please provide a summary of the proposed water project (200 words or less). The same summary can be used from Page 5 of the CWP Grant Application.

The Homestake Arkansas River Diversion (ARD) below the town of Granite, Colorado on the Upper Arkansas River was constructed in 1965 as the original point of diversion for the Homestake Project. The ARD is a rockfill diversion dam with steel sheet pile and articulated concrete mat armoring at the crest. In the 1980s, the intake pipeline was extended to Twin Lakes and the ARD was retained as a backup facility. Since the 1980s, the diversion dam and intake have deteriorated including failure of portions of the articulated concrete armoring and erosion of the rockfill. In its current condition, the ARD presents a hazard to navigation due to exposed rebar and sheet pile and powerful hydraulic conditions on the downstream face. The current condition of this structure requires that recreational whitewater users portage to continue downriver.

The ARD Improvements Project (Project) will reconstruct the diversion and intake to provide a robust and reliable river intake, provide fish passage for Brown and Rainbow Trout, and reduce risk to recreational users by minimizing entrapment risk and reducing retentive hydraulic conditions. In its current configuration, the Project includes a reconstructed lateral intake, diversion dam, spillway, an engineered fish passage, and appurtenant structures. The project will improve approximately 600 LF of river frontage and restore approximately 1.37 acres.

**Objectives:** List the objectives of the project.

1. **Improve river user safety**
2. **Improve the reliability of the diversion facility**
3. **Improve structural stability of intake and diversion weir**
4. **Manage Sediment and debris at the intake**
5. **Provide upstream fish passage**
6. **Provide recreational boat passage**



Last Updated: July 5, 2017

Tasks
Provide a detailed description of each project task using the following format:
<b>Task 1 – Preliminary Design</b>
Description of Task:
Complete Basis of Design Report (30% Design) Report to refine design criteria for the Arkansas River Diversion structure that includes an intake, diversion weir, spillway, fish passage, and boat chute.
Method/Procedure:
Grantees Engineering Consultant will conduct the following analysis and design elements to refine requirements for final design. <ul style="list-style-type: none"><li>• Hydraulic and Hydrology Analysis</li><li>• Geomorphology and Sediment Transport Analysis</li><li>• Fish Passage Criteria Refinement and Design</li><li>• Boat Passage Criteria Refinement and Design</li><li>• Numerical Analysis</li><li>• Scaled Physical Modeling</li><li>• 30% Design and Cost Estimating</li></ul> One and two-dimensional analysis will be developed utilizing preliminary design criteria to refine design parameters to be developed for scaled physical modeling. Physical modeling will be conducted to analyze flow characteristics to validate design criteria to ensure technical feasibility of all design elements. Modifications to the scaled physical model to refine desirable flow characteristics during flow testing will be the basis for revising 30% Design drawings and Basis of Design Report.
Grantee Deliverable: Describe the deliverable the grantee expects from this task
Basis of Design Report and 30% Design Drawings.
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task
Grantee will provide an electronic copy of 30% Design and Basis of Design Report.

Tasks
Provide a detailed description of each project task using the following format:
<b>Task 2 – Final Design</b>



Last Updated: July 5, 2017

Tasks
Description of Task:
<p>Homestake Water Project/ACJWA Engineering Consultant will prepare contract documents that include final design drawings and specifications for the construction of the proposed project. The contract documents specify the requirements of the facility. Key components of the project include the following:</p> <ul style="list-style-type: none"><li>- Concrete intake structure with steel debris screen</li><li>- Grouted boulder spillway, diversion weir, divider wall</li><li>- Grouted boulder Fish passage</li><li>- Concrete and grouted boulder boat chute passage</li><li>- Short segments of steel pipeline</li><li>- Isolation valve</li><li>- Portage trails</li><li>- Site Restoration</li></ul>
Method/Procedure:
<p>This task will develop the basis of design from task 1 into construction contract documents. The design criteria developed in Task 1 define the requirements for fish passage, spillway, intake, and boat chute hydraulic characteristics under various flow conditions to ensure project objectives such as structure stability and fish passage are met. Grantee's Engineering Consultant will use BODR to develop 60%,90% and 100% progress design drawings with an anticipated completion date of March 2018. Refinement of design from conceptual to final will include one and two-dimensional numerical modeling, scaled physical modeling, and various engineering analyses and calculations to ensure project objectives are met.</p>
Grantee Deliverable: Describe the deliverable the grantee expects from this task
<p>Construction drawings and specifications suitable for bidding and construction that meet criteria defined in the Basis of Design Report.</p>
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task
<p>Grantee will provide an electronic copy of Final Design Report, Final Design Drawings and Specifications, and Contract Documents.</p>

## Tasks



Last Updated: July 5, 2017

Tasks
Provide a detailed description of each task using the following format:
<b>Task 3 – Easements and Permitting</b>
Description of Task:  Grantee will prepare supporting documents and applications in support of land acquisition and permitting applications for the project. Easement acquisition documents will be prepared that will encompass the foot print of the proposed structure and any ingress and egress requirements for portage around the proposed facility by river users. Permits to be acquired are those necessary to authorize the project to proceed and not those required by the contractor to complete the work which are included in Task 4.
Method/Procedure:  Grantee will assemble and submit required application and documentation to appropriate agencies in support of the following permits to be acquired:  Temporary Construction Easements Permanent Easements Chafee County 1041 Permit Chafee County Floodplain Development Permit USACE Section 404 Permit  Supporting studies and environmental surveys will be completed in support of the permitting requirements. Land surveying and legal descriptions will be prepared for easement acquisitions.
Grantee Deliverable: Describe the deliverable the grantee expects from this task
Grantee will provide executed copies of all permits required to authorize construction of the project. Grantee will provide copies of easement documents required for the project.
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task
Grantee will provide a summary map and letter describing all permits and easements necessary to authorize construction. Copies of easements and authorization letters will be prepared for CWCB records.



Last Updated: July 5, 2017

Tasks
Provide a detailed description of each task using the following format:
<b>Task 4 – Construction</b>
Description of Task:  Construction of the proposed facility is expected to span 2018 through 2020. A notice to proceed date is anticipated for July 2018 with in river construction occurring over two seasons: September 2018 through April 2019, and September 2019 through March 2020. Commissioning of the facility is scheduled for April 2020. Major work items are delineated as follows:  Mobilization Demobilization Dewatering and Temporary Structures Construction Diversion Intake Facility and Pipeline Fish Passage Spillway and Divider Wall Boat Chute
Method/Procedure:  Means and Methods of construction will be determined by the selected contractor and construct the proposed facility per the contract documents. The work is anticipated to occur over two fall - winter construction seasons to facilitate in-river construction of half the structure per season. The use of temporary cofferdams is anticipated to facilitate phased construction. The first season of construction will construct the main spillway, diversion weir and fish passage. The second year of construction will consist of the intake structure, pipeline and boat chute.  Work will be monitored for the duration of the project by the design engineer. Quality assurance and quality control will be ensured by the Owner's staff and oversight by an independent expert in recreational hydraulics. Work will be invoiced to the HWP/ACJWA as a percentage of work completed for the duration of the project. Each category of work described above will be further broken down by a schedule of values to track progress for major components of work associated with major categories of work above. Completion of work described in the schedule of values will be summarized as a percentage of work completed and invoiced to the Authority.
Grantee Deliverable: Describe the deliverable the grantee expects from this task
Grantee expects monthly payment application from the selected contractor to reflect percent complete progress of the project.
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task
Monthly construction progress updates will be provided to CWCB documenting construction progress and associated portion of the grant funding will be highlighted as part of the update and pay request.



Last Updated: July 5, 2017

Tasks
Provide a detailed description of each task using the following format:
<b>Task 5 – Construction Management and Closeout</b>
Description of Task:
Engineer will provide Engineering Services During Construction to ensure constructed work is in conformance to design plans and specifications and of good quality.
Method/Procedure:
Engineer will provide project management services in support of the constructed project. Services include: <ul style="list-style-type: none"><li>• Bidding assistance,</li><li>• Construction Contract Administration,</li><li>• Contract Change Management including: Change Orders, Work Change Directives, Claims, etc.</li><li>• Site and Construction Progress Meetings,</li><li>• Reviews of Submittals and Requests for Information (RFIs),</li><li>• Processing applications for payment</li><li>• Resident Project Representatives Services:<ul style="list-style-type: none"><li>○ Daily observation of construction activity,</li><li>○ review and monitoring of work schedules,</li><li>○ monitoring of contractor performance,</li><li>○ preparation of daily inspection reports,</li><li>○ review of materials, and</li><li>○ preparation of as-built documentation</li></ul></li><li>• Participation in substantial and final inspections and preparation of close out documentation.</li></ul> .
Grantee Deliverable: Describe the deliverable the grantee expects from this task
Deliverables will include:  Monthly Progress report Review of monthly pay application Construction completion report Electronic project record utilizing cloud based PM software.
CWCB Deliverable: Describe the deliverable the grantee will provide CWCB documenting the completion of this task
Grantee will provide construction completion report document, as-built drawing, and final pay application.





Last Updated: July 5, 2017

## 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. The CWCB may withhold reimbursement until satisfactory progress reports have been submitted.

**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 withhold disbursement the last 10% of the budget until 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.

Last Updated: July 5, 2017



**COLORADO**

Colorado Water  
Conservation Board

Department of Natural Resources

## Colorado Water Conservation Board

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

**Date: 10/1/2017**

**Name of Applicant: Aurora-Colorado Springs Joint Water Authority (Contact: Ron Sanchez)**

**Name of Water Project: Homestake Arkansas River Diversion Improvements**

Task No.	Task Description	Start Date <sup>(1)</sup>	End Date	Water Project Funding Category	Grant Funding Request	Match Funding	Total
1	Preliminary Design	1/1/2014	12/31/2016			\$249,300	\$249,300
2	Final Design	1/1/2017	3/31/2018			\$628,000	\$628,000
3	Land Acquisition and Permitting	10/1/2017	3/31/2018			\$275,000	\$275,000
4	Construction	7/1/2018	4/30/2020	Environmental/Rec	\$300,000	\$5,457,700	\$5,757,700
5	Constuction Management and Project Closeout	7/1/2018	6/1/2020			\$740,000	\$740,000
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
							\$0
<b>Total</b>					<b>\$300,000</b>	<b>\$7,350,000</b>	<b>\$7,650,000</b>

**(1)** Start Date for funding under \$100K, minimum 45 Days from Board Approval; Start Date for funding over \$100K, minimum 90 Days from Board Approval.

·Round values up to the nearest hundred dollars.

·Reimbursement eligibility commences upon the grantee's receipt of a Notice to Proceed (NTP)

·NTP will not be accepted as a start date. Project activities may commence as soon as grantee enters contract and receives formal NTP if prior to the listed "Start Date".

·The applicant shall provide a progress repost every 6 months, beginning from the date of contract execution.

·CWCB will withhold disbursement of the last 10% of the total grant amount until a Final Report is completed to the satisfaction of CWCB staff (2017 CWP Grant Guidelines).