



Last Updated: June 2018

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
Conservation, Land Use Planning
Engagement & Innovation Activities
Agricultural Projects
Environmental & Recreation
Projects

Anna.Mauss@state.co.us
Kevin.Reidy@state.co.us
Ben.Wade@state.co.us
Alexander.Funk@state.co.us
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	Upper Platte & Beaver Canal Company	
Name of Water Project	Diversion Structure Replacement, Phase 1	
CWP Grant Request Amount		\$ 37,500.00
Other Funding Sources _____		\$
Other Funding Sources _____		\$
Other Funding Sources _____		\$
Applicant Funding Contribution		\$ 37,500.00
Total Project Cost		\$ 75,000.00



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Name of Grantee(s)	Upper Platte and Beaver Canal Company
Mailing Address	PO Box 205 Brush, CO 80723
FEIN	84-0405195
Organization Contact	Heather Kalous
Position/Title	Secretary, Upper Platte & Beaver Canal Company
Email	upbcccompany@gmail.com
Phone	(970) 842-2552
Grant Management Contact	Matt Harris
Position/Title	Project Manager
Email	matt@harrisec.com
Phone	(970) 542-0423
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).	
<p>The Upper Platte and Beaver Canal Company (UPBCC) is a mutual ditch company and non-profit corporation, established in 1888. The UPBCC is comprised of 100 stakeholders that carry a total of 1,187 shares of stock. The UPBCC operates and maintains a diversion structure on the South Platte River that it shares with another ditch company that diverts water from the opposite side of the river. The UPBCC delivers water diverted from the river to an estimated 10,000 acres in Morgan County via its canal system. The water is typically used to irrigate corn, alfalfa, beans, sugar beets, and wheat.</p>	



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

Type of Water Project (check all that apply)	
<input checked="" type="checkbox"/>	Study
<input type="checkbox"/>	Construction
<input type="checkbox"/>	Identified Projects and Processes (IPP)
<input type="checkbox"/>	Other

Category of Water Project (check the primary category that applies and include relevant tasks)		
<input type="checkbox"/>		
<input type="checkbox"/>	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.. <i>Applicable Exhibit A Task(s):</i>	
<input type="checkbox"/>	Conservation and Land Use Planning - Activities and projects that implement long-term strategies for conservation, land use, and drought planning. <i>Applicable Exhibit A Task(s):</i>	
<input type="checkbox"/>	Engagement & Innovation - Activities and projects that support water education, outreach, and innovation efforts. Please fill out the Supplemental Application on the website. <i>Applicable Exhibit A Task(s):</i>	
<input checked="" type="checkbox"/>	Agricultural - Projects that provide technical assistance and improve agricultural efficiency. <i>Applicable Exhibit A Task(s): 1</i>	
<input checked="" type="checkbox"/>	Environmental & Recreation - Projects that promote watershed health, environmental health, and recreation. <i>Applicable Exhibit A Task(s):</i>	
<input type="checkbox"/>	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	Morgan County
Latitude	40.274699°
Longitude	-103.833983°

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.

The UPBCC proposes to replace its deteriorating diversion structure on the South Platte River with a new concrete structure that includes an extensive Obermeyer inflatable spillway for enhanced sediment control, flood passage and operational efficiency. The existing concrete structure has outlived its useful life, is subject to significant seepage, structural instability due to erosion of the underlying shale bedrock, and undermining caused by scour. The proposed project is divided in two phases. Phase 1 will consist of the final engineering design and preparation of documentation required for bidding and construction. Construction will be completed in Phase 2.

The UPBCC's diversion structure was constructed over 80 years ago, is structurally compromised and in danger of failing. As the livelihoods of its shareholders are dependent on the UPBCC's ability to divert water into its canal, the importance of the project cannot be over emphasized. The UPBCC is committed to pursuing an economically feasible and robust design for the new structure. The CWP grant funds requested will greatly relieve the financial burden to the UPBCC's shareholders to complete the project.



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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:		
N/A	New Storage Created (acre-feet)	
N/A	New Annual Water Supplies Developed or Conserved (acre-feet), Consumptive or Nonconsumptive	
N/A	Existing Storage Preserved or Enhanced (acre-feet)	
N/A	Length of Stream Restored or Protected (linear feet)	
\$16,000/yr	Efficiency Savings (indicate acre-feet/year OR dollars/year)	
N/A	Area of Restored or Preserved Habitat (acres)	
N/A	Quantity of Water Shared through Alternative Transfer Mechanisms	
N/A	Number of Coloradans Impacted by Incorporating Water-Saving Actions into Land Use Planning	
N/A	Number of Coloradans Impacted by Engagement Activity	
	Other	Explain:

Water Project Justification
<p>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).</p> <p>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;)</p> <p>The Upper Platte and Beaver Diversion Structure Replacement Project is consistent with the following goals of the Colorado Water Plan (CWP Section 10, pgs. 3-4):</p> <ul style="list-style-type: none"> • Supports a vibrant agricultural economy; • Improves the efficiency of water delivery infrastructure and • Promotes a strong and healthy environment by improving water quality in the South Platte River and enhancing in-channel accessibility for aquatic habitat. <p>The project supports the Colorado Water Plan's identified Agricultural Critical Actions to (CWP Section 10, pg. 10):</p> <ul style="list-style-type: none"> • Maintain agricultural viability; and • Support agricultural water conservation and efficiency. <p>By providing more efficient and effective means of sediment and erosion control, this project supports Watershed Health, Environment and Recreation critical actions (CWP Section 10, pg. 12):</p> <ul style="list-style-type: none"> • Enhance Environmental and Recreational Economic Values; • Protect Healthy Environments;

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- Promote Protection and Restoration of Water Quality.

This project also meets the following draft Vision Goals identified in the SWIS 2010 (ES-28):

- Meet agricultural demands;
- Optimize existing and future water supplies by minimizing non-beneficial consumptive use;
- Promote cost-effectiveness by achieving benefits at the lowest cost;
- Provide operational flexibility and coordinated infrastructure

The project supports the following South Platte Basin Roundtable goals (SP-BIP, Section 1, pgs. 29-30):

- Ensure that irrigated agriculture remains a viable statewide economic driver;
- Meet Colorado's Environmental and Recreational Needs by:
 - maintaining or increasing the amount of river miles available to river and flatwater boaters;
 - improving fish habitat by promoting connectivity; and,
 - improving watershed health through sedimentation and erosion control

The Upper Platte and Beaver Diversion Structure Replacement Project will contribute to the improved management of 37,600 acre-feet/year of water diverted annually from the South Platte River, maximizing the efficiency and control of water used to support approximately 11,500 irrigated acres of land in Morgan County, Colorado. These figures include the ditch company on the north side of the river that diverts water using the same structure. The proposed project will produce multi-purpose benefits; stakeholders downstream will likewise derive a benefit from the UPBCC's more efficient diversion of water. The automated response capability of the new spillway gate to fluctuations in river stage will allow water that would have otherwise been diverted into the UPBCC's ditch during abrupt spikes in flow, or during the natural diurnal cycle, to remain in the river. The new spillway gate will increase in-channel flood water passage, promote sediment control and enhance river connectivity for aquatic species and recreationalists.

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.

NONE.

Previous CWCB Grants, Loans or Other Funding



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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.

No previous or current CWCB grants have been awarded to the Upper Platte and Beaver Canal Company.

Water Project Loan

Upper Platte and Beaver Canal Company
Hospital Road Recharge Facility and Bridge Widening Project
CWCB Approval: July 17, 2014
Contract No.: CT2015-101
CWCB Loan provided 90% of project costs

Water Project Loan

Upper Platte and Beaver Canal Company
Diversion Structure Rehabilitation Project
CWCB Approval: March 21, 2002
Contract No.: C150096
CWCB Loan provided 90% of project costs

Water Project Loan

Upper Platte and Beaver Canal Company
Badger Creek Well Augmentation Project
CWCB Approval: May, 2003
Contract No.: C150144
CWCB Loan provided 90% of project costs

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.

NONE.



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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⁾
	Engineer's statement of probable cost (projects over \$100,000)
X	Letters of Matching and/or Pending 3 rd Party Commitments ⁽¹⁾
Exhibit C	
X	Map (if applicable) ⁽¹⁾
X	Photos/Drawings/Reports
	Letters of Support (Support letter from Basin Roundtable encouraged)(Optional)
	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⁾

(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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Colorado Water Conservation Board

Water Plan Grant - Exhibit A

Statement Of Work

Date:	July 30, 2018
Name of Grantee:	Upper Platte and Beaver Canal Company
Name of Water Project:	Diversion Structure Replacement – Phase 1
Funding Source:	CWCB

Water Project Overview:

The Upper Platte and Beaver Canal Company (UPBCC) diverts water from the South Platte River for both irrigation and augmentation purposes. Water deliveries are made through the Upper Platte and Beaver Canal to recharge sites and irrigation lands lying south of the river and east of the City of Fort Morgan, Colorado. UPBCC delivers irrigation water to approximately 10,000 acres of irrigated land and also operates a recharge and augmentation plan that provides augmentation water for wells used for agricultural irrigation. The UPBCC shares its diversion structure with the Deuel and Snyder Improvement Company (DSIC), which diverts water from the north side of the river and has a service area of approximately 1,500 irrigated acres.

The UPBCC proposes to replace its deteriorating diversion structure on the South Platte River with a new concrete structure that includes an extensive Obermeyer inflatable spillway for enhanced sediment control, flood passage and operational efficiency. The existing concrete structure has outlived its useful life, is subject to significant seepage, structural instability due to erosion of the underlying shale bedrock, and undermining caused by scour. The proposed project is divided in two phases. Phase 1 will consist of the final engineering design and preparation of documentation required for bidding and construction. Construction will be completed in Phase 2.

Project Objectives:

Objectives of the proposed work:

- Determine the final placement of a new diversion structure;
- Evaluate the subsurface conditions of the shale bedrock and define geotechnical design data; and
- Finalize design and prepare documents required for construction

Design goals:

- Improve water delivery system efficiency;
- Improve in-channel flood passage;
- Promote continuity of the river channel for aquatic habitat and recreationalists; and
- Promote watershed health by enhancing sediment control.



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Tasks
Task 1 – Engineering
Description of Task:
Complete final engineering design for the new structure and prepare drawings and specifications for a competitive bidding process and construction.
Method/Procedure:
An engineer will be contracted to complete project design. The engineer will subcontract with a geotechnical engineering firm to direct the subsurface exploration of the proposed dam site and perform an analysis to produce design data and recommendations required to complete the foundation design. Engineer will prepare a complete set of construction drawings and specifications required to bid and build the project (Phase 2)
Deliverable:
The grantee shall provide CWCB with copies of: <ul style="list-style-type: none">• Design data;• Drawings and specifications for bidding and construction.



Tasks	
Task 2 –	
Description of Task:	
Method/Procedure:	
Deliverable:	

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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

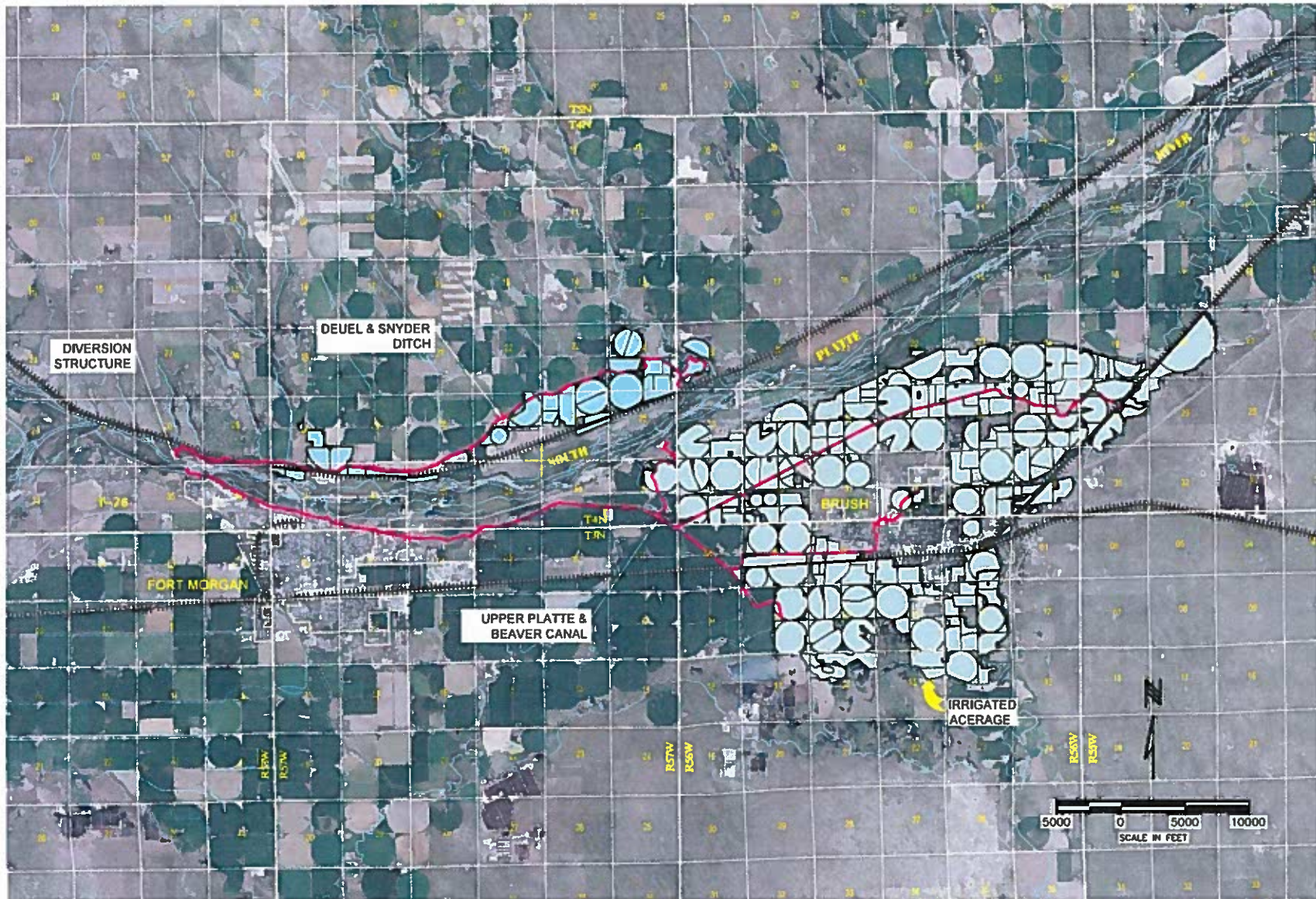
(c) **Monitoring Requirements:** Grantee is responsible for ongoing monitoring of project progress per Exhibit A. Progress shall be detailed in each invoice and in each Progress Report, as detailed above. Additional inspections or field consultations will be arranged as may be necessary.

(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.



Budget and Schedule

Project End Date: February, 2018Page 1 of 2



HARRIS ENGINEERING CONSULTANTS, INC.
21484 County Road T.5
Fort Morgan, CO 80701
(970) 543-0423

SCALE: 1" = 5000'

DRAWN: MCH

CAD FILE: 16001 UPBCC MAP VX.DWG

UPPER PLATTE & BEAVER CANAL Co DIVERSION STRUCTURE REPLACEMENT PROJECT SERVICE AREA

DATE: JULY 30, 2018

FIGURE 1

REV