

**Water Supply Reserve Fund  
Water Activity Summary Sheet  
September 16-17, 2020  
Agenda Item 19(b)**

**Applicant & Grantee:** Lower Arkansas Valley Water Conservancy District  
**Water Activity Name:** Headgate 199 Lining  
**Water Activity Purpose:** Agricultural-Implementation  
**County:** Otero  
**Drainage Basin:** Arkansas  
**Water Source:** Arkansas River  
**Amount Requested:** \$18,000 Arkansas Basin Account  
\$180,000 Statewide Account  
\$198,000 Total Request

**Matching Funds:** Basin Account Match = \$18,000

- 10% of statewide request (meets 10% min)

Applicant Match (cash) = \$252,000

- 140% of the statewide request (meets 10% min)

Total Match (Basin request & Applicant Match) = \$270,000

- 150% of the statewide request (meets 50% min)

<b>Staff Recommendation:</b>
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Staff recommends approval of up to \$18,000 from the Arkansas Basin Account, and up to \$180,000 from the Statewide Account to help fund the project: Headgate 199 Lining.
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**Water Activity Summary:** WSRF Funds, if approved will assist the Lower Arkansas Valley Water Conservancy District (Lower Ark) control selenium and nutrient loading to the Arkansas River by lining approximately 2,500 feet of the existing Catlin Canal adjunct to Headgate 199. Preceding the lining activities Lower Ark will engage local producers, residents, and stakeholders to identify resource concerns and perform any technical analysis and surveys to implement the project. Following the lining activity Lower Ark will work with producers to enroll in a Rule 10 irrigation improvement plan.

**Discussion:** This effort will assist the Arkansas Basin Roundtable address their concerns regarding water delivery as called for in the Arkansas Basin Implementation Plan. In addition, this effort will assist Colorado achieve the goal of maintaining agricultural viability and promote protection and restoration of water quality as called for in Chapter 10 of Colorado's Water Plan

**Issues/Additional Needs:** None.

**Eligibility Requirements:** The application meets requirements of all eligibility components.

**Evaluation Criteria:** Staff has determined this activity satisfies the Evaluation Criteria.

<b>Funding Sources/Match</b>	<b>Cash</b>	<b>In-kind</b>	<b>Total</b>	<b>Status</b>
Lower Ark Valley Water Conservancy District	\$252,000	\$0	\$252,000	Secured
Sub-total	\$252,000	\$0	\$252,000	
WSRF Arkansas Basin Account	\$18,000	\$0	\$18,000	Secured
Sub-total	\$270,000	\$0	\$270,000	
WSRF Statewide Account	\$180,000	\$0	\$180,000	
<b>Total Project Costs</b>	<b>\$450,000</b>	<b>\$0</b>	<b>\$450,000</b>	

**CWCB Project Manager:** Rachel Pittinger

# Arkansas Basin Roundtable

July 23, 2020

**Via Electronic Mail: [sam.stein@state.co.us](mailto:sam.stein@state.co.us)**

Mr. Sam Stein  
Colorado Water Conservation  
Board 1313 Sherman Street,  
Room 721  
Denver, CO 80203

Re: Water Supply Reserve Fund Grant Application: Lower Arkansas Valley Water Conservancy District Lateral 199 Lining

Dear Sam:

At its July 8, 2020 meeting, the Arkansas Basin Roundtable (ABRT) approved support of the Lower Arkansas Valley Water Conservancy District Lateral 199 Lining grant application for \$18,000 in Basin funds and \$180,000 in Statewide Funds.

The applicant is providing \$252,000 in matching funds. This project supports the goals of the Colorado Water Plan and the Arkansas Basin Implementation Plan by utilizing water supply management for meeting the water gaps in the Basin. According to the most recent technical update from the Colorado Water Conservation Board, the Arkansas Basin is faced with an agricultural gap of 600,000 ac-ft. of water per year. The lining of the lateral will provide for efficient use of ag water as well as potential benefits to water quality.

This project fully supports the Colorado Water Plan in trying to meet the gap of water supply and infrastructure on agricultural projects and has the added benefit of water quality improvements to downstream users. In section 6 of the Colorado Water Plan, it identifies the goals of water efficiency to reduce overall future water needs and the development of meaningful agricultural viability statewide. This project meets both of these goals by becoming more efficient with water through a given reach of lateral, and qualifying the impacts downstream through irrigation efficiency and Rule 10.

The ABRT approved supporting this application by consensus and there were no dissenting views. Should you have any questions or concerns, please feel free to contact me either by telephone, 719-668-8028, or by email, [mshea@csu.org](mailto:mshea@csu.org).

/s/ Mark Shea  
Chair

Copy via email: Applicant; Abby Ortega, Needs Assessment Chair



Last Update: July 31, 2018

<b>Colorado Water Conservation Board</b>
<b>Water Supply Reserve Fund Grant Application</b>

Instructions
<p>All WSRF grant applications shall conform to the current <a href="#">2016 WSRF Criteria and Guidelines</a>.</p> <p>To receive funding from the WSRF, a proposed water activity must be recommended for approval by a Roundtable(s) <b>AND</b> the Colorado Water Conservation Board (CWCB). The process for Roundtable consideration and recommendation is outlined in the 2016 WSRF Criteria and Guidelines. The CWCB meets bimonthly according to the schedule on page 2 of this application.</p> <p>If you have questions, please contact the WSRF Grant Program Manager (for all Roundtables):</p> <p style="text-align: center;">Craig Godbout <a href="mailto:craig.godbout@state.co.us">craig.godbout@state.co.us</a> 303-866-3441 x3210 (office) 303-547-8061 (cell)</p>

WSRF Submittal Checklist (Required)	
X	I acknowledge this request was recommended for CWCB approval by the sponsoring roundtable.
X	I acknowledge I have read and understand the <a href="#">2016 WSRF Criteria and Guidelines</a> .
X	I acknowledge the Grantee will be able to contract with CWCB using the <a href="#">Standard Contract</a> . <sup>(1)</sup>
Application Documents	
X	Exhibit A: Statement of Work <sup>(2)</sup> ( <i>Word – see Template</i> )
X	Exhibit B: Budget & Schedule <sup>(2)</sup> ( <i>Excel Spreadsheet – see Template</i> )
X	Letters of Matching and/or Pending 3 <sup>rd</sup> Party Commitments <sup>(2)</sup>
X	Map <sup>(2)</sup>
X	Photos/Drawings/Reports
X	Letters of Support
Contracting Documents <sup>(3)</sup>	
X	Detailed/Itemized Budget <sup>(3)</sup> ( <i>Excel Spreadsheet – see Template</i> )
	Certificate of Insurance <sup>(4)</sup> ( <i>General, Auto, &amp; Workers' Comp.</i> )
	Certificate of Good Standing <sup>(4)</sup>
	W-9 Form <sup>(4)</sup>
N/A	Independent Contractor Form <sup>(4)</sup> ( <i>If applicant is individual, not company/organization</i> )
	Electronic Funds Transfer (ETF) Form <sup>(4)</sup>

(1) Click "Grant Agreements". For reference only/do not fill out or submit/required for contracting

(2) Required with application if applicable.

(3) Additional documentation providing a Detailed/Itemized Budget maybe required for contracting. Applicants are encouraged to coordinate with the CWCB Project Manager to determine specifics.

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

Last Update: July 31, 2018

Schedule		
CWCB Meeting	Application Submittal Dates	Type of Request
January	December 1	Basin Account; BIP
March	February 1	Basin/Statewide Account; BIP
May	April 1	Basin Account; BIP
July	June 1	Basin Account; BIP
September	August 1	Basin/Statewide Account; BIP
November	October 1	Basin Account/BIP

Desired Timeline	
Desired CWCB Hearing Month:	September
Desired Notice to Proceed Date:	March 1, 2021

Water Activity Summary	
Name of Applicant	Lower Arkansas Valley Water Conservancy District
Name of Water Activity	Headgate 199 Lining
Approving Roundtable(s)	Basin Account Request(s) <sup>(1)</sup>
Arkansas Basin	\$18,000
Basin Account Request Subtotal	\$ 18,000
Statewide Account Request <sup>(1)</sup>	\$ 180,000
Total WSRF Funds Requested (Basin & Statewide)	\$ 198,000
Total Project Costs	\$ 450,000

(1) Please indicate the amount recommended for approval by the Roundtable(s)



Last Update: July 31, 2018

Grantee and Applicant Information	
Name of Grantee(s)	Lower Arkasnas Valley Water Conservnacy District (Lower Ark)
Mailing Address	801 Swink Ave., Rocky Ford, CO 18067
FEIN	48-1298144
Grantee's Organization Contact <sup>(1)</sup>	Mike Weber
Position/Title	Staff Engineer
Email	<a href="mailto:mweber@lowerark.com">mweber@lowerark.com</a>
Phone	719-254-5115
Grant Management Contact <sup>(2)</sup>	Jay Winner
Position/Title	General Manager
Email	<a href="mailto:jwinner@lowerark.com">jwinner@lowerark.com</a>
Phone	719-254-5115
Name of Applicant (if different than grantee)	
Mailing Address	
Position/Title	
Email	
Phone	

**(1)** Person with signatory authority

**(2)** Person responsible for creating reimbursement invoices (Invoice for Services) and corresponding with CWCB staff.

Description of Grantee
Provide a brief description of the grantee's organization (100 words or less).
<p>Lower Ark was formed in 2002 by a vote of the people representing the counties of Bent, Crowley, Otero, Pueblo, and Prowers with the mission to protect water rights in the Arkasnas River Valley. Since the inceptiaon, Lower Ark has taken on conservation easements, Rule 10 augmenetiaton, water quality load reduction, assistance with Super Ditch, and most recently soil health- all with the intentiaon of maintaining water rights in the area. Lower Ark has six full-time employees and three consultants and works with local schools to hire summer interns each year.</p>



Last Update: July 31, 2018

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.
X	<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> are eligible for funding from the Basin Accounts but not for funding from the Statewide Account.
	<b>Non-governmental organizations:</b> broadly, any organization that is not part of the government
	<b>Covered Entity:</b> as defined in <a href="#">Section 37-60-126 Colorado Revised Statutes</a>

Type of Water Activity (check one)	
	Study
X	Implementation

Category of Water Activity (check all that apply)	
	Nonconsumptive (Environmental)
	Nonconsumptive (Recreational)
X	Agricultural
	Municipal/Industrial
	Needs Assessment
	Education & Outreach
	Other
	Explain:

Location of Water Activity	
Please provide the general county and coordinates of the proposed activity below in <b>decimal degrees</b> . The Applicant shall also provide, in Exhibit C, a site map if applicable.	
County/Countries	Otero
Latitude	37° 59'21.89"
Longitude	-103° 37'43.54"



Last Update: July 31, 2018

### Water Activity Overview

Please provide a summary of the proposed water activity (200 words or less). Include a description of the activity and what the WSRF funding will be used for specifically (e.g. studies, permitting, construction). Provide a description of the water supply source to be utilized or the water body affected by the activity. 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, area of habitat improvements. 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, and Schedule.

Lower ark has been assessing the benefit of best management practices for controlling selenium and nutrient loading to the Arkansas River. One of these best management practices is lateral lining or sealing and analyzing data from NRCS, Lower Ark has identified headgate 199 on the Catlin Canal as an ideal location to expand on this work. NRCS quantified the seepage of the lateral at 25% for a reach of about one-half mile long. Headgate 199 is approximately 5% of the Catlin Canal by volume. Lower Ark started exploring this area as a possible target for lining or piping in 2019, and was able to secure a grant through the Colorado Department of Public Health and Environment for a portion of the lining. Then Lower Ark invited SilverBack Industries and AssestGuard to visit the project site and asked the two to provide a cost estimate for the polyurea lining. This came in at \$50.00/linear foot with a tested lifetime of 40 years and a case study from northeast Colorado. This will be the first lateral lining with polyurea performed by Lower Ark. This new technology will help with bank stabilization, delivery of water, and sediment control. The producers involved are willing to accept all Rule 10 responsibility associated.

### Measurable Results

To catalog measurable results achieved with WSRF funds please provide any of the following values.

	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)	
2500	Length of Pipe/Canal Built or Improved (linear feet)	
	Other	Explain:



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### Water Activity Justification

Provide a description of how this water activity supports the goals of [Colorado's Water Plan](#), the most recent [Statewide Water Supply Initiative](#), and the respective [Roundtable Basin Implementation Plan and Education Action Plan](#) <sup>(1)</sup>. 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).

For applications that include a request for funds from the Statewide Account, the proposed water activity shall be evaluated based upon how well the proposal conforms to Colorado's Water Plan criteria for state support (CWP, Section 9.4, pp. 9-43 to 9-44;) (Also listed pp. 4-5 in [2016 WSRF Criteria and Guidelines](#)).

This project fully supports the Colorado Water Plan in trying to meet the gap of water supply and infrastructure on agricultural projects and has the added benefit of water quality improvements to downstream users. In section 6 of the Colorado Water Plan, it identifies the goals of water efficiency to reduce overall future water needs and the development of meaningful agricultural viability statewide. This project meets both of these goals by becoming more efficient with water through a given reach of lateral, and qualifying the impacts downstream through irrigation efficiency and rule 10. In addition, this project will allow for delivery of water from the headgate to the farm without worry about erosion on the banks or sedimentation build up. This project is an example of applying water goals directly from the water plan to meet a need in the local basin. The Colorado Water Plan also mentions the need to assess water quality and identifies efforts to clean up the water before delivery to downstream users. This is not identified as a gap or a measurable task, but merely a goal and this project aligns with those principles.

The Ark Basin Roundtable identifies delivery of water as a concern during the 2015 BIP and this is a great infrastructure upgrade from earthen ditches developed in the 1800's. This work will prove essential in supplying water for future production in a valley that is known for rural living.

(1) Access Basin Implementation Plans or Education Action Plans from Basin drop down menu.



Last Update: July 31, 2018

**Matching Requirements: Basin Account Requests**

**Basin (only) Account** grant requests require a 25% match (cash and/or in-kind) from the Applicant or 3<sup>rd</sup> party and shall be accompanied by a **letter of commitment** as described in the 2016 WSRF Criteria and Guidelines (submitted on the contributing entity's letterhead). Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind)
Total Match	\$
If you requested a Waiver to the Basin Account matching requirements, indicate the percentage you wish waived.	

**Matching Requirements: Statewide Account Requests**

**Statewide Account** grant requests require a 50% match as described in the 2016 WSRF Criteria and Guidelines. A minimum of 10% match shall be from Basin Account funds (cash only). A minimum of 10% match shall be provided by the applicant or 3<sup>rd</sup> party (cash, in-kind, or combination). The remaining 30% of the required match may be provided from any other source (Basin, applicant, or 3<sup>rd</sup> party) and shall be accompanied by a **letter of commitment**. Attach additional sheet if necessary.

Contributing Entity	Amount and Form of Match (note cash or in-kind):
Lower Arkansas Valley Water Conservancy District	\$252,000 (cash)
Ark Basin Roundtable	\$18,000 (cash)
Total Match	\$270,000
If you requested a Waiver to the Statewide Account matching, indicate % you wish waived. (Max 50% reduction of requirement).	



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**Related Studies**

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

Lower Ark completed a similar project for water quality under the Fort Lyon canal in 2018 and is in the process of quantifying the selenium and nutrient reductions back to the river, however they have seen bank stabilization through the process which has led to less erosion and upkeep on the lateral. This project was a conversion of open irrigation ditch to an underground pipe, but the concept of sealing off earthen ditch to limit seepage, maintain banks, and help with erosion is still applicable. Lower Ark has been monitoring this project for nitrate, phosphate, and selenium loading back to the river as a means to mitigate high concentrations in the Arkansas river. This work is water quality related, with infrastructure upgrades, and water efficiency.

NRCS is in the process of completing a similar project along headgate 205 of the Catlin Canal where one mile of open ditch is being converted to underground pipe. Lower Ark has been monitoring this site for water quality benefits as well and have shown seepage reductions of 20% from the work that has been performed. Lower Ark has also shown that a 10% reduction in nitrate can be achieved in this area, and a 25% reduction in selenium with values dropping from 25 µg/L to 16 µg/l in the downstream drainage.

While neither of the above projects have been funded directly by CWCB, they fit the agricultural needs of the basin. The aging infrastructure and lack of development have limited the work that can be performed. This type of bank stabilization, water delivery infrastructure upgrade is needed in the basin to ensure the viability of agriculture while trying to be conservative and also abide by irrigation efficiency rules.

**Previous CWCB Grants**

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

See Exhibit C

**Tax Payer Bill of Rights**

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

Lower Ark is not restricted by TABOR



Last Update: March 17, 2020

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<b>Colorado Water Conservation Board</b>	
<b>Water Supply Reserve Fund</b>	
<b><u>Exhibit A - Statement of Work</u></b>	
<b>Date:</b>	<b>June 24, 2020</b>
<b>Water Activity Name:</b>	<b>Headgate 199 Lining</b>
<b>Grant Recipient:</b>	<b>Lower Arkansas Valley Water conservancy District</b>
<b>Funding Source:</b>	<b>Arkansas Basin and State WSRF</b>
<b>Water Activity Overview:</b> (Please provide brief description of the proposed water activity (no more than 200 words). Include a description of the overall water activity and specifically what the WSRF funding will be used for. (PLEASE DEFINE ALL ACRONYMS).)	
<p>Lower ark has been assessing the benefit of best management practices for controlling selenium and nutrient loading to the Arkansas River. One of these best management practices is lateral lining or sealing and while analyzing data from the NRCS, Lower Ark has identified headgate 199 on the Catlin Canal as an ideal location to expand on this work. NRCS quantified the seepage of the lateral at 25% for a reach of about one-half mile long. Headgate 199 is approximately 5% of the Catlin Canal by volume. Lower Ark started exploring this area as a possible target for lining or piping in 2019, and was able to secure a grant through Colorado Department of Public Health and Environment for a portion of the lining. Then, Lower Ark invited SilverBack Industries and AssestGuard to visit the project site, and to provide a cost estimate for the polyurea lining. The estimate came in at \$50.00/linear foot with a tested lifetime of 40 years and a case study from northeast Colorado. This will be the first lateral lining with polyurea performed by Lower Ark. This new technology will help with bank stabilization, delivery of water, and sediment control. The producers involved are willing to accept all Rule 10 responsibility associated.</p> <p>Lower Ark = Lower Arkansas Valley Water Conservancy District NRCS = Natural Resources Conservation Services</p>	
<b>Objectives:</b> (List the objectives of the project. (PLEASE DEFINE ACRONYMS).)	
<ol style="list-style-type: none"> <li><b>1. Completing of Survey and Resource Concerns on the Site</b></li> <li><b>2. Install 2500 linear feet of poly urea liner in headgate 199</b></li> <li><b>3. Compliance within Irrigation Improvement Rules for 2500 linear feet</b></li> </ol>	



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<b>Tasks</b>
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
<b><u>Task 1 – Project Survey Development and Resource Concerns Analysis</u></b>
Description of Task:
<p>Lower Ark has identified the project as a high need area for lining; has secured funds from other resources and talked to stakeholders; the canal company, and local producers for moving forward on the project. This task will identify resource concerns with local producers, residents, and stakeholders then perform any technical analysis and surveys to implement the project. Lower Ark has already been surveying the ditch and has preliminary data on the project and would just have to survey or design any changes to the lateral that would be adjoining pipeline or divide boxes. In speaking with the producers, there was a concern about the way the lateral traverses, however should this be entertained, the finalization would take place after a survey and any design work that would be required for small fittings or applications leading into the liner. The liner itself will not require a design as it is just being laid on an existing ditch bank system.</p>
Method/Procedure:
<p>Lower Ark will host local meetings, phone calls, and public hearings with Otero county to ensure execution of work is ready to be performed and that all resource concerns are addressed. Following all final plans, Lower Ark will survey the ditch and any changes that are recommended using either a laser level or Trimble survey equipment. Designs of small fittings will occur in AutoCAD with final plans provided by SilverBack.</p>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
<p>To address all resource concerns; a survey of the pre- and post-lining project; and any design of the project.</p>
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
<p>A list of any resource concerns, meetings performed, and all survey and designs required by the project.</p>



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<b>Tasks</b>
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
<b><u>Task 2 – Project Implementation</u></b>
Description of Task:
Lower Ark will work with SilverBack Linings to install the liner on the ditch ensuring that all banks are secured, and banks are covered with the liner to prevent erosion. Any transitions into and out of fittings, such as divide boxes, earthen ditch, or pipeline will need to be properly secured.
Method/Procedure:
Using the technology described in the case study provided in Exhibit D, the liner will be installed and supplemented with pre, during, and post-installation photos for documentation.
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
A lined earthen ditch.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
Progress photos with a progress report following all project work.



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<b>Tasks</b>
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)
<b><u>Task 3 – Irrigation Efficiency Rules Modeling</u></b>
Description of Task:
<p>Following the installation of the liner, Lower Ark will work with the producers to enroll in a rule 10 irrigation improvement rule plan. The producers are aware of this and know of the obligations required for this work. A similar project performed on headgate 205 showed a 7 acre-foot deficit to the river that was covered in the Lower Ark non-Fort Lyon Rule 10 plan. The producers each paid a pro-rata share of water to cover this deficit. This is known, as four of the producers are also producers on headgate 199 and fully understand the process behind this.</p>
Method/Procedure:
<p>Lower Ark will use maps to model the project for insertion into a Rule 10 plan. The effective date of this will be in 2021 and all augmentation will be covered by the producers moving forward.</p>
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)
A full compliance with the Rule 10 requirements.
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)
A map of the completed project and a letter from the producers showing they agree to comply with all irrigation efficiency rules.



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<b>Tasks</b>	
Provide a detailed description of each task using the following format: (PLEASE DEFINE ACRONYMS)	
<b><u>Task 4 – Project Oversight</u></b>	
Description of Task:	
Lower Ark will be administering the work on this grant and will be responsible for all six-month reports, final reporting, progress photos, invoicing, and local involvement.	
Method/Procedure:	
Lower Ark will document all work completed on the project including any changes, challenges, or other obstacles from beginning to end.	
Grantee Deliverable: (Describe the deliverable the grantee expects from this task)	
A fully completed project that is implemented on-time and within budget.	
CWCB Deliverable: (Describe the deliverable the grantee will provide CWCB documenting the completion of this task)	
Six-month reports and a final report on the project work.	





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### Budget and Schedule

**Exhibit B - 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](#). A separate [excel formatted](#) Budget is required for engineering costs to include rate and unit costs.

### Reporting Requirements

**Progress Reports:** The grantee 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 grantee shall provide the CWCB a Final Report on the grantee'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.

### Payments

Payment will be made based on actual expenditures, must include invoices for all work completed and must be on grantee's letterhead. 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.

The CWCB will pay the last 10% of the entire water activity 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 water activity and purchase order or contract will be closed without any further payment. Any entity that fails to complete a satisfactory Final Report and submit to CWCB within 90 days of the expiration of a purchase order or contract may be denied consideration for future funding of any type from CWCB.

### Performance Requirements

Performance measures for this contract shall include the following:

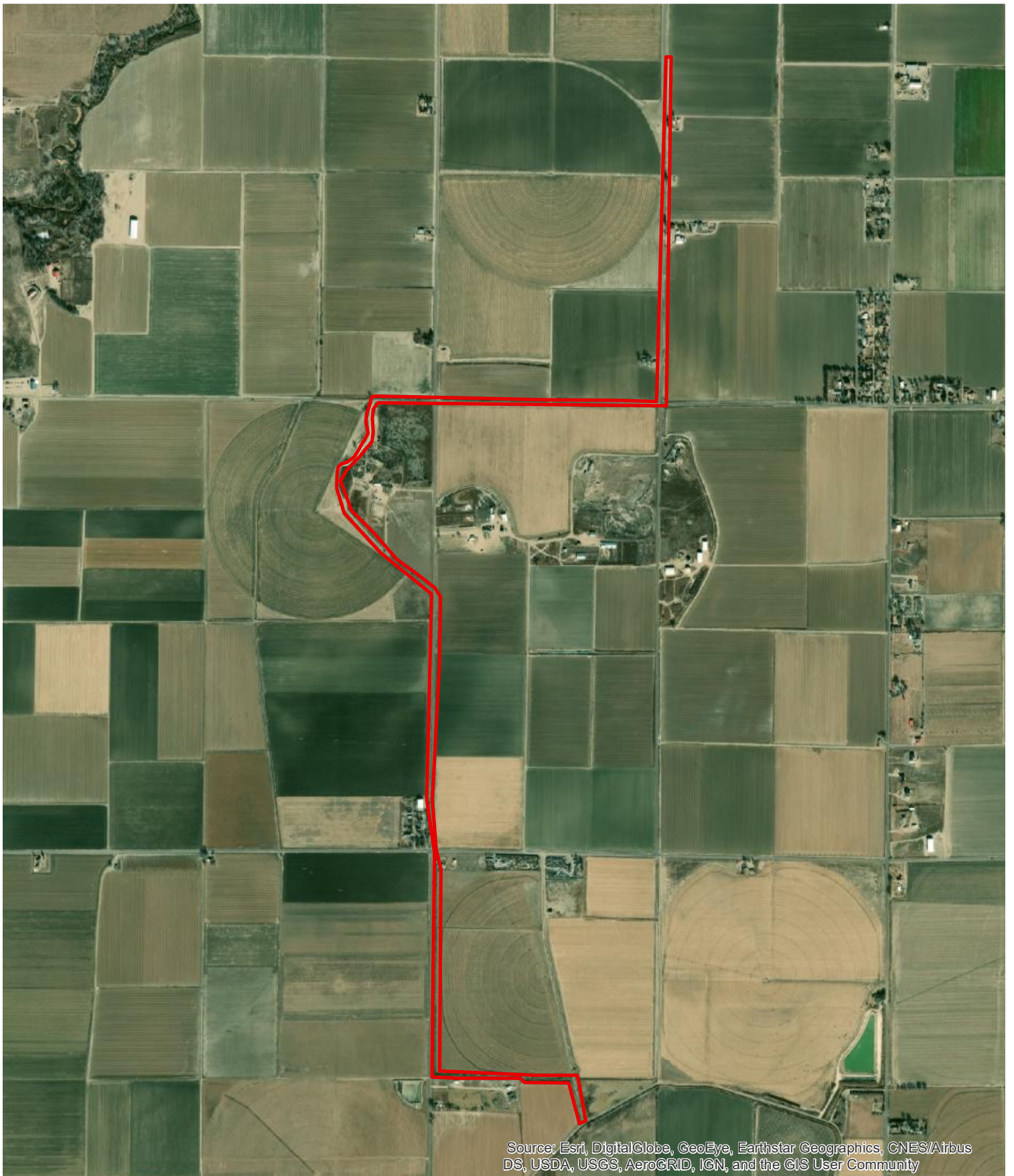
(a) Performance standards and evaluation: Grantee will produce detailed deliverables for each task as specified. Grantee shall maintain receipts for all project expenses and documentation of the minimum in-kind contributions (if applicable) per the budget in Exhibit B. Per Grant Guidelines, the CWCB will pay out the last 10% of the budget when the final deliverable is completed to the satisfaction of CWCB staff. Once the final deliverable has been accepted, and final payment has been issued, the purchase order or grant will be closed without any further payment.

(b) Accountability: Per the 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 the 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.

(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.

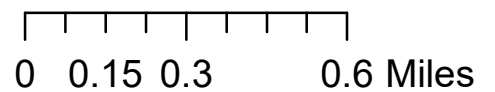
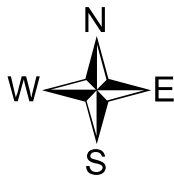
(d) Noncompliance Resolution: Payment will be withheld if grantee is not current on all grant conditions. Flagrant disregard for grant conditions will result in a stop work order and cancellation of the Grant Agreement.





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Otero County  
Catlin Canal  
Headgate 199



**Exhibit C**