

# Exhibit A

Statement Of Work	
<b>Date:</b>	<b>June 30, 2023</b>
<b>Name of Grantee:</b>	<b>Town of Lyons</b>
<b>Name of Water Project:</b>	<b>St Vrain Creek Restoration-Lyons Valley Park</b>
<b>Water Project Overview:</b>	
<p>This project consists of completing the design for the Lyons Valley Park streambank. The Lyons Valley Park (LVP) streambank restoration project area, located along the St. Vrain Creek just downstream from McConnell Drive Bridge and McConnell Ponds in the Town of Lyons, CO, where the Grantee was significantly impacted in the 2013 floods. The flood caused a great deal of streambank erosion and sedimentation that impacted residences, businesses, structures, buildings, and stream health.</p> <p>Directly above the south bank of this area of St Vrain Creek east of McConnell Drive are existing houses and an affordable housing development currently being constructed. The south stream bank downstream of the McConnell Bridge suffered significant erosion damage when the creek channel shifted south during the 2013 flood. The creek channel has since returned to its pre-flood location, further north, however the bank remains a steep drop off and appears to continue to erode back to the south.</p> <p>The south bank of St Vrain Creek, east of McConnell Drive and within the Grantee’s town limits, is approximately 1,700 feet in length, most of which has been stabilized and restored. The section directly downstream of McConnell drive was completed as part of the McConnell Ponds and McConnell Drive Bridge reconstruction. The area just west of the proposed project area was completed in 2020 as a standalone streambank stabilization project.</p>	
<b>Project Objectives:</b>	
<p>The Grantee and Grantee’s consultants will complete the design for the restoration of the streambank to pre-flood condition. The proposed streambank restoration area is approximately 400 linear feet of stream, extending east from the east end of the restoration project that was completed in 2020. The proposed project area is approximately 0.3 – 0.4 acres, depending upon the width of bank determined to require stabilization and restoration. The design scope will include but will not be limited to 100% design, environmental assessments and clearances/permitting, hydraulic modeling, topographic survey, and an engineer’s estimate.</p>	

Tasks
<b>Task 1 – Project Initiation &amp; Stakeholder Engagement</b>
Description of Task:
<p>The Grantee will accomplish these items listed above by completing public involvement and agency coordination. One goal of this task is to inform and keep the residents of Lyons up to date on the progress of the project. Another goal is to engage and involve the interested stakeholder agencies and organizations during the planning and design of the project.</p>
Method/Procedure:

The Grantee will lead the project initiation and stakeholder engagement. Engagement will include public involvement meetings with the general public as well as a targeted approach to the surrounding neighbors. It will also include project updates on the Town’s website. The Town will coordinate and communicate with the other agency stakeholders for involvement during the planning and design of the streambank restoration.

Deliverable:

The Grantee will provide CWCB Staff with meeting agendas and minutes.

### Tasks

#### **Task 2 – Topographic Survey**

Description of Task:

The Grantee and Grantee’s Consultant will accomplish this item listed above by completing a topographic survey of the project area. This will include all features within the proposed work area and extending 50’ – 100’ beyond the project limits. This will also include surveying the features along the existing cross sections in the Colorado Hazard Mapping Program (CHAMP) model throughout the project area and beyond as determined during the evaluation of the hydraulic model.

Method/Procedure:

The topographic survey will be completed with personnel in the field using established vertical benchmarks and horizontal datum. All the existing features within and near the proposed work boundary will be surveyed to establish a basemap for design. This basemap will be used during the design to determine slope match points, estimate construction quantities, and identify features to be protected or in potential conflict with the proposed improvement.

Deliverable:

The Grantee will provide CWCB Staff with a basemap of the surveyed topographic and site features.

### Tasks

#### **Task 3 – Hydraulic Modeling of Proposed Bank Improvements to St Vrain Creek**

Description of Task:

The Grantee and Grantee’s consultant will accomplish this item listed above by completing hydraulic modeling that will evaluate the impacts of the proposed improvements to the existing floodplain, adding the proposed improvements to the model, and running it to evaluate the results. The goal of this task is to ensure that the proposed design of the streambank improvements complies with the requirements of Lyons Municipal Code Section 18-13 for the alteration of a watercourse and to obtain a no-rise certification that is required to advance to the construction phase of the project. The goal is to design the proposed improvements and obtain a no-rise certification, so the modeling and streambank design will work closely together to achieve this.

Method/Procedure:

The Grantee’s consultant will create model plans to evaluate the flood impacts of the proposed project as a part of the floodplain development permit process. The models are the effective, duplicate effective, corrected effective (if necessary), and proposed conditions. A brief description of each model follows:

- Effective—the CHAMP model as received from the Town of Lyons.
- Duplicate Effective—the CHAMP model inputs exactly as configured in the Effective model saved as a new plan.
- Corrected Effective Model – addresses identified errors and incorporates more detailed topographic information.

<ul style="list-style-type: none"> <li>Proposed conditions—the proposed geometry of the project. All other inputs are identical to the effective and duplicate effective models.</li> </ul>
Deliverable:
The Grantee will provide CWCB staff with the model files and data (electronic files), a summary report that summarizes the analysis of the proposed streambank improvements and any impacts to the existing floodplain, and a no-rise certification to be included with the floodplain development permit application.

Tasks
<b>Task 4 – Design of the Streambank Restoration Improvements and the Preparation of Bidding Documents</b>
Description of Task:
The Grantee and Grantee’s consultant will accomplish these items listed above by completing the design of the streambank restoration improvements. This will be the process to evaluate and determine the preferred improvements to stabilize the streambank. The design process will work in coordination with the hydraulic modeling to identify long-term stability solutions that also can achieve a no-rise certification. The design process will also include the preparation of bidding documents for the eventual advertisement for bid and construction of the improvements.
Method/Procedure:
In conjunction with the Grantee’s staff and appropriate stakeholders, the Grantee’s consultant will develop proposed bank improvements, using the section upstream of this area as a basis. The proposed bank section will be hydraulically modeled to evaluate the no-rise status. Analysis will be completed to ensure proper riprap sizing and section design to provide stability and protection against scour.  Details will be designed that include erosion protection, permanent vegetation establishment and other pertinent construction details. Plans for the purpose of bidding and constructing the improvements in the future will be prepared, along with the applicable technical specifications. In addition, Opinions of Probable Costs for construction (OPC) will be prepared. Design milestones will include submittals for review at approximately 50% and 90% design completion.
Deliverable:
The Grantee will provide CWCB Staff with: <ul style="list-style-type: none"> <li>Preliminary plans and an OPC for review and comment (50% Design)</li> <li>Draft final plans, specifications, and OPC for review and comment (90% Design)</li> <li>Bid Documents – plans and specifications and final OPC/engineer’s estimate</li> </ul>

Tasks
<b>Task 5 – Environmental Clearance</b>
Description of Task:
The Grantee and Grantee’s consultant will identify and complete the required environmental clearances and permitting to complete the project. A detailed environmental services scope will be developed with the Grantee’s consultant to ensure all required clearances are completed and all applicable permits are obtained.
Method/Procedure:

Desktop methods and field activities will both be used to complete the environmental clearances:

- 404 Permitting and Aquatic Resources: A wetland specialist will perform a wetland delineation of the site and provide all associated reports and permits with the US Army Corps of Engineers. The bank stabilization efforts will require 404 permitting.
- Biological Resources: A wildlife biologist will conduct a field analysis for noxious weeds, migratory birds, state listed, and threatened and endangered (T&E) species presence. Active nest sites will be noted, and specifications will be created to ensure compliance with the Migratory Bird Treaty Act (MBTA). It is not anticipated that any federally listed T&E species for Colorado species of concern will be found in the project area due to corridor development.

Deliverable:

The grantee will provide CWCB Staff with documentation of permit application submittals.

### Tasks

#### Task 6 – Project Management

Description of Task:

The Grantee will serve as the Project Manager.

Method/Procedure:

The Grantee will manage the design project and stakeholder outreach.

Deliverable:

The Grantee will provide CWCB Staff with a summary of this task.

### Budget and Schedule

This Budget and Schedule reflects the tasks identified in the Statement of Work.

Task No.	Task Description	Estimated Task Start Date	Estimated Task End Date	Grant Funding	Match Funding	Total
1	Project Initiation & Stakeholder Engagement	11/01/2023	02/01/2023	\$ 3,000.00	\$ 1,000.00	\$ 4,000.00
2	Topographic Survey	12/15/2023	02/01/2023	\$ 6,000.00	\$ 2,000.00	\$ 8,000.00
3	Hydraulic Modeling of Proposed Bank Improvements to St Vrain Creek	03/01/2024	09/01/2024	\$ 8,000.00	\$ 3,000.00	\$ 11,000.00
4	Design of the Streambank Restoration Improvements and the Preparation of Bidding Documents	02/01/2024	11/01/2024	\$ 47,000.00	\$ 23,000.00	\$ 70,000.00
5	Environmental Clearance	05/01/2024	11/01/2024	\$ 9,000.00	\$ 5,000.00	\$ 14,000.00
6	Project Management	01/31/2024	12/31/2024	\$ 2,000.00	\$ 1,000.00	\$ 3,000.00
<b>Total</b>				<b>\$ 75,000.00</b>	<b>\$ 35,000.00</b>	<b>\$ 110,000.00</b>

## 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. 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 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 purchase order 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 purchase order must be provided as part of the project documentation.

## Performance Measures

Performance measures for this purchase order 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. Per 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 will be closed without any further payment.

(b) Accountability: Per 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 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. 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 purchase order.