

WATER RESOURCES WATERSHED PLAN IMPLEMENTATION AND FLOW ACHIEVEMENT

Organization: Chelan County - Natural Resource Department

WRPIFA-1517-ChCoNR-00047

General Information

Project Title	WRIA 45 Mission Creek Flow Improvement
Project Short Description	The Mission Creek Flow Improvement Project will complete an Appraisal Study and Preliminary Designs (30%) for a project that would convert Mission Creek water users over to a regional irrigation system resulting in significant stream flow improvements for Mission Creek. The appraisal study will include property owner coordination, geologic and topographic assessments, engineering and costs analysis, permitting review and project benefit analysis.
Project Long Description	<p>Mission Creek is the smallest tributary to the Wenatchee River but is home to approximately 21% of the Wenatchee Watershed's population including the City of Cashmere and continues to experience growth. The uppermost portion of the watershed is mostly U.S. Forest Service-managed and some privately owned forest. The lower watershed is dominated by commercial agriculture and urban development. The creek has a long history of very low stream flow and water quality issues including 303(d) listings for in-stream flow, DDT/DDE, fecal coliform, temperature, dissolved oxygen and pH.</p> <p>Limited water availability for out-of-stream uses and low stream flows in the Mission Creek Watershed were identified as high priority issues by the Wenatchee Watershed Planning Unit (WWPU) in their 2006 Wenatchee Watershed Plan. This plan made recommendations that resulted in the updated Wenatchee Instream Resource Protection Program (WAC 173-545) that established minimum instream flows and set aside a reservation of water for future development (reserve). In this rule, The Mission Creek Subbasin is subject to an interim reserve of 0.03 cfs that is estimated to be depleted soon. Chelan County and the WWPU have conducted water storage assessments and engaged local stakeholders to help identify viable solutions to the water supply issues in Mission Creek. Groundwater and surface water monitoring have also been done to characterize stream hydrology conditions as well. Though opportunities are somewhat limited, they do exist to make targeted improvements in stream flow, habitat and water quality as well as provide options for out-of-stream domestic uses.</p> <p>This application describes water resource improvement projects that have been identified to reside within the intersection of substantial flow benefits and practical feasibility. The final product of this project will be an Appraisal Study and set of Preliminary Designs that will identify the best option to convert/exchange Mission Creek water users from surface diversions and shallow wells to a regional system that would not draw from Mission Creek flows. One conversion option that has shown early promise is a pipeline extension of the Icicle Irrigation District system to provide Mission basin irrigators with an alternate watering source and augment flows within Mission Creek. Chelan County Natural Resources Department has recently been awarded a Department of Ecology Centennial Grant titled "Mission Creek Water Quality Restoration, Phase 1" that explores this option. This proposal, WRIA 45 Mission Creek Flow Improvement, would be used as match and in conjunction with the Centennial funding to maximize improvements in Mission Creek on a holistic level.</p>

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General Information

Total Cost \$250,000.00* Total Eligible Cost \$250,000.00*

Effective Date 7/1/2015 Expiration Date 6/30/2017

Ecology Program Water Resources

Project Category* Infrastructure and Water Management Construction (Efficiency Improvements)
Surface and Sub Surface Storage Feasibility Study and Construction
Water Acquisition or Water Bank/Exchange Development
Water Measuring Devices
✓ Other

Will Environmental Monitoring Data be collected? No

Overall Goal The overall goal of this project is to produce a comprehensive Appraisal Study and set of Preliminary Designs that will identify the best option and necessary steps to move Mission Creek water users to a regional system that does not pull flows from the Mission basin, and in doing so improves flow within Mission Creek.

Recipient Contacts

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Other recipient signatures on printed agreement

Recipient Contacts

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When done, click the **SAVE** button

After SAVE, a new row will appear

Name

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Name and Title textboxes

When done, click the **SAVE** button

After SAVE, the row will be deleted

Title

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Location Information

Statewide * Yes No

Ecology Region * Central 100%
Click here to view map:

County * CHELAN 100%
Click here to view map:

Congressional District * District 08 100%
Click here to view map:

Legislative District * District 12 100%
Click here to view map:

WRIA * 45 - Wenatchee 100%
Click here to view map:

Ecology Region Statewide 100%

County Statewide 100%

Congressional District Statewide 100%

Legislative District Statewide 100%

WRIA Statewide 100%

Latitude (expressed in decimals)

Longitude (expressed in decimals)

Facility Site ID

Facility Site Link

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Scope of Work - Task 1 Project Admin: 1

Task Number	1		
Task Title	Project Administration/Management	Task Cost	\$20,000.00
Task Description	<p>A. The RECIPIENT will administer the project. Responsibilities will include, but not be limited to: maintenance of project records; submittal of requests for reimbursement and corresponding backup documentation, progress reports and recipient closeout report (including photos); compliance with applicable procurement, contracting, and interlocal agreement requirements; application for, receipt of, and compliance with all required permits, licenses, easements, or property rights necessary for the project; and submittal of required performance items.</p> <p>B. The RECIPIENT must manage the project. Efforts will include: conducting, coordinating, and scheduling project activities and assuring quality control. Every effort will be made to maintain effective communication with the RECIPIENT's designees; the DEPARTMENT; all affected local, state, or federal jurisdictions; and any interested individuals or groups. The RECIPIENT must carry out this project in accordance with any completion dates outlined in this agreement.</p>		
Task Goal Statement	Properly managed project that meets agreement and Ecology administrative requirements.		
Task Expected Outcomes	<p>* Timely and complete submittal of requests for reimbursement, quarterly progress reports and recipient closeout report.</p> <p>* Properly maintained project documentation</p>		
Recipient Task Coordinator	Mary Jo Sanborn		

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 After SAVE a new row will appear
 Repeat these steps for each deliverable

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Deliverable #	Description	Due Date	Received?	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
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Scope of Work - Task 1 Project Admin: 1

Only)

- 1.1 Progress Reports
 - 1.2 Recipient Closeout Report
- Task Number 2

Task Title Conversion Evaluation Task Cost \$20,000.00*

Task Description The RECIPIENT will develop a Technical Memorandum that contains an evaluation of the options to convert Mission Creek water users to a regional system such as the Icicle Irrigation District, the City of Cashmere, or to groundwater wells leaving more water in Mission Creek and its tributaries. This study will include an evaluation of parcels/water users located near regional water purveyor's service areas to determine feasibility of source conversion. Use of aerial photos and site reconnaissance will estimate flow benefits. The technical memorandum will summarize results including permit requirements to accomplish service area modifications (e.g., water right transfers, well consolidation) and will define project requirements to guide and appraisal study and preliminary design.

Task Goal Statement Gain a clear understanding of the best opportunities for water resource improvements in Mission Creek.

Task Expected Outcomes Technical Memorandum summarizing opportunities for converting Mission Creek water users to another source.

Recipient Task Coordinator Pete Cruickshank
06/30/17

Deliverables

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After SAVE a new row will appear
Repeat these steps for each deliverable

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Deliverable #	Description	Due Date	Received? (ECY Use)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
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Scope of Work - Additional Tasks: 2 - Conversion Evaluation

2.1	Technical Memorandum containing multiple options and evaluations to convert Mission Creek water users to a regional system	Only)		
Task Number	3			
Task Title	Appraisal Study and Design		Task Cost	\$210,000.00*
Task Description	<p>Building on the outcome of Task 2, The RECIPIENT will evaluate the project alternative that would convert Mission Creek irrigation water users to a regional system, resulting in water savings for Mission Creek. An appraisal study will be completed that includes the following elements.</p> <p>A. Water Rights Evaluation: Document current water rights for Mission Creek irrigators, evaluate water right place of use information, and regional water system service areas. Evaluate water right transferring needs and processing requirements.</p> <p>B. Landowner, Right-of-Way, and Easement Coordination: The RECIPIENT will identify public and private land as well as rights-of-way that may be impacted by this project. Discussion and coordination will be done with private and public landowners, and water right holders. Complete a right-of-way investigation for pipeline and delivery alignments and evaluate any potential easement issues. A summary of potential property, right-of-way, and easement issues will be done.</p> <p>C. Geologic review topographic survey of potential pipeline alignments: A geologic review of proposed pipeline alignments will be performed by an engineering geologist. This review will include a review of existing geologic maps, field inspection, and an evaluation of slope stability issues. A topographic survey will be completed for the proposed pipeline alignment.</p> <p>D. Engineering Analysis: This analysis will include determination of pipe sizing and specifications, hydraulic</p>			

Scope of Work - Additional Tasks: 3 - Appraisal Study and Design

pressure analysis, and delivery system design (including vents, potential connection locations and the need for flow control devices). This task will result in 30% design drawings.

E. Preliminary Evaluation of Probably Project Costs and Construction Feasibility: A calculation of initial probable project costs will be done, including capital and any potential long-term costs.

F. Environmental Review and Permitting Fatal Flaw Evaluation: A preliminary review of environment resources and permitting requirements will be conducted to identify potential impacts or requirements that could be considered as "fatal flaws".

G. Detailed Instream Flow Benefit Analysis: Complete a detailed analysis of instream flow benefits resulting from the conversion of water use from Mission Creek to an out-of-basin source, such as the Icicle Irrigation District. The analysis will describe the location, timing and quantity of flow improvements resulting from the implementation of this project. Project benefits to stream habitat and fish life will be evaluated based on existing survey data (i.e. WDFW's PHABSIM and steelhead distribution data).

Task Goal Statement

Have sufficient information to determine whether to pursue finalize design and construction of the project, with a clear understanding of project costs and benefits. Project results are increased stream flow and opportunities for modest out-of-stream domestic use.

Task Expected Outcomes

Appraisal Study and 30% design

Recipient Task Coordinator
06/30/17

Mary Jo Sanborn

Deliverables

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When done, click the SAVE button
After SAVE a new row will appear
Repeat these steps for each deliverable

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Deliverable #	Description	Due Date	Received? (ECY Use)	EIM Study ID	EIM System Link	Latitude	Longitude	Location Address
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Scope of Work - Additional Tasks: 3 - Appraisal Study and Design

- 3.1 Appraisal Study Only)
- 3.2 30% Design

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Scope of Work Summary

Task Title	Task Cost
Project Administration/Management	\$20,000.00
Conversion Evaluation	\$20,000.00
Appraisal Study and Design	\$210,000.00
	\$250,000.00
 Total Eligible Costs (from the General Information Form)	
\$250,000.00	

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Budget Proposal

Estimate your proposal's total budget needs by task and by element for FY 16, FY17 and beyond.

FY 16 - July 1, 2015 to June 30, 2016

FY 17 - July 1, 2016 to June 30, 2017

Total Eligible Costs (from General Information form)
\$250,000.00

By Task

Task Title	Task Cost	*FY 16	*FY 17	Additional Fiscal Years	Total
Project Administration/Management	\$20,000.00	\$10,000.00	\$10,000.00		\$20,000.00
Conversion Evaluation	\$20,000.00	\$10,000.00	\$10,000.00		\$20,000.00
Appraisal Study and Design	\$210,000.00	\$105,000.00	\$105,000.00		\$210,000.00
Total	\$250,000.00	\$125,000.00	\$125,000.00	\$0	\$250,000.00

By Element

Element	*FY 16	FY 17	Additional Fiscal Years	Total
Salaries - 1	\$0	\$0	\$0	\$0
Benefits - 1	\$0	\$0	\$0	\$0
Salaries and Benefits Combined - 1	\$16,000.00	\$16,000.00	\$0	\$32,000.00
Contracts	\$104,000.00	\$104,000.00	\$0	\$208,000.00
Travel	\$500.00	\$500.00	\$0	\$1,000.00
Equipment - 2	\$0	\$0	\$0	\$0
Goods/services - 3	\$500.00	\$500.00	\$0	\$1,000.00
Overhead - 4	\$4,000.00	\$4,000.00	\$0	\$8,000.00
Total	\$125,000.00	\$125,000.00	\$0	\$250,000.00

If you receive a grant, you are responsible for procuring professional, personal, or other services using sound business judgment and good administrative procedures consistent with applicable state, and local laws, orders, regulations, and permits. This includes issuance of invitation of bids, requests for proposals, selection of contractors, award of sub-agreements, and other related procurement matters.

- 1 Fill in either the "Salaries" field and the "Benefits" field or fill in the "Salaries and Benefits Combined" field
- 2 Upload an itemized list of all equipment and explain why the equipment is needed. Equipment is defined as tangible property other than land, buildings, improvements other than buildings, or infrastructure, which is used in operations and with a useful life of more than one year. Examples are furnishings, equipment, and software.

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Budget Proposal

3 Upload an itemized list of all Goods and Services

4 Overhead cannot exceed 25% of salaries/benefits

Upload Documents

Click the Browse button

Select your file

Click Save, your file will appear in the List of uploaded documents

Repeat for each file

To Delete a file, select the Delete checkbox next to the file and click SAVE

_Upload/19085-Mission_Creek_Goods_Cost.pdf

Additional Comments

Instream Flow or Habitat Benefits

- * Briefly describe anticipated instream flow or habitat benefits as a result of funding this project proposal:

Increased flow within Mission Creek will directly address current TMDL 303 (d) listings for in-stream flow, temperature and DO. In doing so juvenile rearing habitat for ESA listed species Spring Chinook and Steelhead will be greatly improved.

242 of 1000

Resources currently committed to ensure long-term performance of the proposal

- * Who will be responsible for long-term operations and maintenance of the project?

The regional water system to which Mission Creek water users switch to, likely Icycle Peshastin Irrigation District

115 of 1000

- * Have operations and maintenance costs been identified? Yes No

- * Summarize the estimated costs on an annual basis below if possible at this time:

The annual costs associated with switching Mission Creek water users to a regional system would be absorbed by the district distributing their water, and paid for by annual assessment.

184 of 1000