

PROJECT: 22-1011 REST, KELLY CREEK PA 45 RESTORATION

Sponsor: Asotin Co Conservation Dist Program: Salmon State Projects Status: Preapplication

## Parties to the Agreement

### PRIMARY SPONSOR

Asotin County Conservation District

**Address** 720 Sixth St Ste B

**City** Clarkston **State** WA **Zip** 99403

**Org Type** District-Conservation

**Vendor #** SWV0010207-00

**UBI**

**Date Org created**

**Org Notes**

[link to Organization profile](#)

Org data updated

### SECONDARY SPONSORS

No records to display

### LEAD ENTITY

Snake River Salmon Rec Bd LE

### QUESTIONS

#1: List project partners and their role and contribution to the project.

## External Systems

### SPONSOR ASSIGNED INFO

**Sponsor-Assigned Project Number**

**Sponsor-Assigned Regions**

### EXTERNAL SYSTEM REFERENCE

Source	Project Number	Submitter
HWS	22-1011	AFitzgerald

# Project Application Report - 22-1011

## Project Contacts

Contact Name Primary Org	Project Role	Work Phone	Work Email
<u>Alice Rubin</u> Rec. and Conserv. Office	Project Manager	(360) 867-8584	<a href="mailto:alice.rubin@rco.wa.gov">alice.rubin@rco.wa.gov</a>
<u>Megan Stewart</u> Asotin Co Conservation Dist	Project Contact	(509) 552-8100	<a href="mailto:megan@asotinco.org">megan@asotinco.org</a>
<u>Brad Riehle</u> Asotin Co Conservation Dist	Alt Project Contact	(509) 552-8117	<a href="mailto:brad@asotinco.org">brad@asotinco.org</a>
<u>Ali Fitzgerald</u> Snake River Salmon Rec Bd LE	Lead Entity Contact	(509) 382-4115	<a href="mailto:ali@snakeriverboard.org">ali@snakeriverboard.org</a>

## Worksites & Properties

- # **Worksite Name**  
#1 Kelly Creek PA 45

Restoration	Property Name
✓	WDFW

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## Worksite Map & Description

Worksite #1: Kelly Creek PA 45

### WORKSITE ADDRESS

Street Address  
City, State, Zip

## Worksite Details

Worksite #1: Kelly Creek PA 45

### SITE ACCESS DIRECTIONS

From Asotin, take WA-129 south approximately 13.5 miles. Turn right on Onstot Road for approximately .5 miles. Turn right on Dwight Halsey road and travel approximately 3 miles to the end of the road.

### TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Steelhead-Snake River, Asotin Creek, Threatened	✓	✓	✓	Unknown

### Reference or source used

Asotin Geomorphic Assessment WDFW

### TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Unknown	

### Questions

#1: Give street address or road name and mile post for this worksite if available.

Closest public road - Dwight Halsey Road

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## Project Location

### RELATED PROJECTS

#### Projects in PRISM

PRISM Number	Project Name	Current Status	Relationship Type	Notes
15-1308 P	Asotin County Geomorphic-Watershed Assessment	Closed Completed	Earlier Phase	

#### Related Project Notes

#### Questions

#1: Project location. Describe the geographic location, water bodies, and the location of the project in the watershed, i.e. nearshore, tributary, main-stem, off-channel, etc.

This portion of Kelly Creek is identified as a Priority Restoration Reach located in the George Creek watershed which is listed as a major spawning area. The project begins at RM 0.0 and ends at RM 1.4. This is a tributary to George Creek.

#2: How does this project fit within your regional recovery plan and/or local lead entity's strategy to restore or protect salmonid habitat? Cite section and page number.

Northwest Marine Fisheries Service. 2017. ESA Recovery Plan for Snake River Spring/Summer Chinook Salmon (*Oncorhynchus tshawytscha*) & Snake River Basin Steelhead (*Oncorhynchus mykiss*). Portland, OR.  
This project is identified as a top priority and located in a minor spawning area for Steelhead and a priority restoration reach in the Snake River Salmon Recovery Plan and 3 yr workplan.

#3: Is this project part of a larger overall project?

Yes

#3a: How does this project fit into the sequencing of the larger project?

This project was identified in the Asotin County Conceptual Restoration Plan during the Geomorphic and Watershed Assessment that was completed for Asotin, George, Alpowa, Couse and Tenmile Creek watersheds in Asotin County in 2018.

#4: Is the project on State Owned Aquatic Lands? Please contact the Washington State Department of Natural Resources to make a determination. [Aquatic Districts and Managers](#)

No

## Property Details

Property: WDFW (Worksite #1: Kelly Creek PA 45)

✓Restoration

#### LANDOWNER

Name	Department of Fish and Wildlife (WDFW)
Address	PO Box 43135
City	Olympia
State	WA Zip 98504-3135
Type	State

#### CONTROL & TENURE

Instrument Type	Landowner Agreement
Timing	Proposed
Term Length	Fixed # of years
# Yrs	10
Expiration Date	12/31/2032
Note	

## Project Proposal

### Project Description

The Asotin County Conservation District is sponsoring the Kelly Creek PA 45 Instream Habitat Project to install large woody debris structures to promote overbank flow, increase complexity and improve sediment and water retention. PA 45 was identified as a Tier 2 project area in the Asotin County Conceptual Restoration Plan. The total reach length for the proposed project is 1.4 miles. The Kelly Creek PA 45 Instream Habitat project is located south of the City of Asotin, WA accessible by Dwight Halsey Road. The project begins at RM 0.0 and ends a RM 1.4. This portion of Kelly Creek is identified as a Priority Restoration Reach located in the George Creek MSA watershed.

### Project Questions

#1: Problem statement. What are the problems your project seeks to address? Include the source and scale of each problem. Describe the site, reach, and watershed conditions. Describe how those conditions impact salmon populations. Include current and historic factors important to understand the problems.

The lower portion of Kelly Creek supports the ESA listed Snake River summer steelhead. Project Area 45 covers a 1.4-mile section stream which was identified in the Asotin County Conceptual Restoration Plan.

The current geomorphic function is moderate due to limited geomorphic or structural element diversity. The channel is relatively simple with few side channels and overbank flow opportunities. Portions of the stream go subsurface resulting in decreased riparian vegetation.

The project area is owned by the Washington Department of Fish & Wildlife. This stream reach has deciduous dominated riparian vegetation and defined channel with limited floodplain opportunities. has allowed the vegetation to start to recover but overall, the site still lacks large woody debris needed to encourage natural stream processes and provide salmonid habitat.

The Asotin Conceptual Restoration Plan identifies the need for additional large woody debris throughout the project area to increase geomorphic complexity, promote overbank flows, and increase sediment and water retention. as priorities for this project area while protecting the existing riparian vegetation. Future restoration phases would include riparian planting.

#2: Describe the limiting factors, and/or ecological concerns, and limiting life stages (by fish species) that your project expects to address.

The primary limiting factors identified in the Asotin Conceptual Restoration Plan for PA 45 include flow, habitat diversity, and key habitat quantity for steelhead. Fish life stages identified for PA 45 included migration, spawning and rearing.

#3: What are the project goals? The goal of the project should be to solve identified problems by addressing the root causes. Then clearly state the desired future condition. Include which species and life stages will benefit from the outcome, and the time of year the benefits will be realized. **Example Goals and Objectives**

The goal of this project is to implement actions to address the management objectives that were identified in the Asotin County Conceptual Restoration Plan for PA 45. The project will improve geomorphic complexity, promote overbank flows and increase sediment and water retention. Sections of this reach do not support perennial stream flows which limits the stream function and has limited riparian establishment. The addition of LWD will provide structural elements throughout the project area to continue improving riparian and geomorphic stream function. This project area was listed as a Tier 3 project that would be likely longer to provide physical and biological response to address the limiting factors. This project would put the stream reach on a positive trajectory for recovery.

#4: What are the project objectives? Objectives support and refine biological goals, breaking them down into smaller steps. Objectives are specific, quantifiable actions the project will complete to achieve the stated goal. Each objective should be SMART (Specific, Measurable, Achievable, Relevant, and Time-bound). **Example Goals and Objectives**

The objective of this project is to install 80 to 120 LWD structures over approximately 3,700 feet of channel length to provide instream channel complexity, improve sediment and water retention, and promote overbank flows

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#5: Scope of work and deliverables. Provide a detailed description of each project task/element. With each task/element, identify who will be responsible for each, what the deliverables will be, and the schedule for completion.

### Pre-Funding Scope of Work:

We will be monitoring the site starting in April 2022 to identify stream conditions and flow changes from the high flows (runoff) and continue monitoring throughout the summer and fall as flows reduce and eventually go subsurface. This will provide us with valuable data that will inform the site plan that will be developed. The ACCD staff will take aerial video and photos utilizing the ACCD drone to document site and flow changes.

### Post-Funding Scope of Work:

Site investigation – Stream assessment and Identify structure placement

- September 2022 - March 2023

Develop Site Plan – Plan will identify structure locations and type including material and quantities needed. It will also include generic designs for PALS and BDAs and location specific designs for the engineered logs structures

- February – April 2023

Secure Permits – Utilize JARPA to secure HPA, Shoreline and other required permits for project

- January - April 2023

Construction Prep – Secure and stage materials

- May - July 2023 and 2024

Install Structures - Install structures during the instream work window

- July – September 2023 and 2024

Assess & Monitor Structures – Complete as-built design, GPS all structures and establish photo/video monitoring points. Site visits during and after high flow periods to assess and document effectiveness

- Late fall, winter and spring 2024 and 2025

Close Out – Complete documentation and final reporting for project closeout

Spring/Summer 2025

#6: What are the assumptions and physical constraints that could impact whether you achieve your objectives?

Assumptions and constraints are external conditions that are not under the direct control of the project, but directly impact the outcome of the project. These may include ecological and geomorphic factors, land use constraints, public acceptance of the project, delays, or other factors. How will you address these issues if they arise?

There is one landowner in the project area who has already provided support for this project to be developed. That landowner will be included in the review and development of the designs.

There has been significant recovery to the riparian vegetation throughout the project area and it will be a high priority to limit damage to the recovery riparian zones.

#7: How have lessons learned from completed projects or monitoring studies informed this project?

Over the past decade, the technique of using PALS and BDAs has been a popular method to improve instream conditions. There has been a great deal of success documented throughout the region. However, project implementors are finding that some of the initial structures were too small in scale. The recommendation being provided is to increase the size of the PALS that are being built to maximize the function of the structure. ACCD has utilized this strategy on Couse Creek and Tenmile during the past two years. We have several low tech projects planned based on recommendations in the Asotin County Conceptual Restoration Plan

#8: Describe the alternatives considered and why the preferred was chosen.

In the past heavy equipment was used for instream restoration projects. Since the Asotin Creek IMW introduced the use of low-tech Post Assisted Log Structures (PALS) and Beaver Dam Analogs (BDA,) the implementation of restoration projects in small streams shifted to utilizing techniques that have less disturbance to the stream and riparian vegetation.

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#9: How were stakeholders consulted in the development of this project? Identify the stakeholders, their concerns or feedback, and how those concerns were addressed.

This project was identified during the Asotin County Geomorphic and Watershed Assessment development. The conceptual restoration plan was developed as a result of the process and this project was included in the plan. Landowners were engaged throughout the Assessment and Conceptual Restoration Plan development through public meetings and onsite visits. There has been no opposition to the conceptual restoration plan that was developed for PA 45. This project is being proposed on public property and the landowner, WDFW, is willing to proceed with the development of a complete site plan and implementation of the project. There are no identified public safety concerns identified at this time. In the event there is a safety concern identified, ACCD will address the concerns while completing the site plan and designs.

#10: Does your project address or accommodate the anticipated effects of climate change?

Yes

#10a: How will your project be climate resilient given future conditions?

Kelly Creek has a current hydrologic regime is snow-rain dominated for these streams, however it is anticipated to shift to a rain dominated regime. This will likely decrease summer base flows and increase summer water temperatures. Healthy stream and riparian areas conditions are essential during climate change shifts since they provide a critical location in the ecosystem for habitat for both fish and wildlife. The restoration work proposed will improve the resiliency of the project area and overall watershed.

#10b: How will your project increase habitat and species adaptability?

This project will result in the implementation of structures and instream habitat rehabilitation increasing salmon and steelhead resiliency to climate change.

#11: Describe the sponsor's experience managing this type of project. Describe other projects where the sponsor has successfully used a similar approach.

The Asotin County Conservation District has been managing natural resource and habitat improvement projects for several years. We have built positive relationships with the landowners of Asotin County and have been successful in implementing projects from start to finish. Asotin County Conservation District also has great relationships with technical partners throughout the region and has utilized their expertise as needed.

#12: Will veterans (including the veterans conservation corps) be involved in the project? If yes, please describe.

No

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## Restoration Supplemental

#1: What level of design (per Appendix D) have you completed? Please attach.  
Conceptual

#1a: What level of design will be produced prior to construction?  
Preliminary

#2: Will (or did) a licensed professional engineer design the project?  
No

#2a: Describe the qualifications of the design team.

This project will consist of placing low-tech process base structures (PALS & BDA). The ACCD staff has been trained by Ecological Research, Anabranch and Cramer Fish teams on how to develop site plans for low-tech projects. The site plans are reviewed by SRFB and BPA environmental staff prior to implementation.

#3: Does the project include measures to stabilize an eroding stream bank?  
No

#4: Is the primary activity of the project invasive species removal?  
No

#5: Is the primary activity of the project riparian planting?  
No

#6: Describe the steps you will take to minimize the introduction of invasive species during construction and restoration. Consider how you will use un-infested materials and clean equipment entering and leaving the project area.

ACCD will require all equipment used by the contractor/crew to be cleaned and inspected prior to accessing the project site. There will be a dip station available for everyone to treat boots and waders prior to accessing the site. If there are any areas disturbed during construction, it will be seeded with a native grass mix.

#7: Describe the long-term stewardship and maintenance obligations for the project.

While we do not anticipate significant maintenance, we do plan on providing wood supplements to the PALS and BDAs over the 10-year project life. ACCD will conduct site evaluations annually to determine the function of the structures and what maintenance is needed. We will utilize the Washington Conservation Crew to conduct any maintenance work that is identified.

## Restoration Metrics

### Worksite: Kelly Creek PA 45 (#1)

Miles of Stream and/or Shoreline Treated or Protected (C.0.b)	1.40
Project Identified In a Plan or Watershed Assessment (C.0.c)	Northwest Marine Fisheries Service. 2017. ESA Recovery Plan for Snake River Spring/Summer Chinook Salmon (Oncorhynchus tshawytscha) & Snake River Basin Steelhead (Oncorhynchus mykiss). Portland, OR. Asotin County Watershed Assessment and Conceptual Restoration Plan
Priority in Recovery Plan	The project is identified as a top priority and located in a major spawning area for steelhead and a priority restoration reach in



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the Snake River Salmon Recovery Plan  
and 3 year workplan

Type Of Monitoring (C.0.d.1)	Implementation Monitoring
Monitoring Location (C.0.d.2)	Onsite

## INSTREAM HABITAT PROJECT

Total Miles Of Instream Habitat Treated (C.4.b)	1.40
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### Channel structure placement (C.4.d.1)

Total cost for Channel structure placement	\$70,800
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Material Used For Channel Structure (C.4.d.2)	Individual Logs (Anchored)
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Miles of Stream Treated for channel structure placement (C.4.d.3)	1.40
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Pools Created through channel structure placement (C.4.d.5)	60
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Number of structures placed in channel (C.4.d.7)	100
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## CULTURAL RESOURCES

### Cultural resources

Total cost for Cultural resources	\$8,000
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Acres surveyed for cultural resources	28.80
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## PERMITS

### Obtain permits

Total cost to Obtain permits	\$2,500
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Number of permits required for implementation of project

## ARCHITECTURAL & ENGINEERING

### Architectural & Engineering (A&E)

Total cost for Architectural & Engineering (A&E)	\$19,200
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## Overall Project Metrics

### COMPLETION DATE

Projected date of completion

7/31/2025

## Restoration Cost Estimates

### Worksite #1: Kelly Creek PA 45

Category	Work Type	Estimated Cost	Note
Cultural Resources	Cultural resources	\$8,000	
Instream Habitat Project	Channel structure placement (C.4.d.1)	\$70,800	
Permits	Obtain permits	\$2,500	
	Subtotal:	\$81,300	
Admin, Architecture, and Engineering		\$19,200	
	Total Estimate For Worksite:	\$100,500	

### Summary

Total Estimated Costs Without AA&E:	\$81,300
Total Estimated AA&E:	\$19,200
Total Estimated Restoration Costs:	\$100,500

## Cost Summary

	Estimated Cost	Project %	Admin/AA&E %
<u>Restoration Costs</u>			
Restoration	\$81,300		
Admin, Architecture, and Engineering	\$19,200		23.62 %
SUBTOTAL	\$100,500	100.00 %	
Total Cost Estimate	\$100,500	100.00 %	

## Funding Request and Match

### FUNDING PROGRAM

Salmon State Projects	\$70,000	69.65 %
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### SPONSOR MATCH

Other Monetary Funding	Grant - Federal		
Amount			\$30,500.00
Funding Organization			Bonneville Power Administration (BPA)
Grant Program			Fish & Wildlife Program
	Match Total:	\$30,500	30.35 %
	Total Funding Request (Funding + Match):	\$100,500	100.00 %

## Questions

#1: Explain how you determined the cost estimates

There have been several LWD projects completed throughout the region. Based on those project costs and the priorities for this project area the cost estimates were determined.

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## Cultural Resources

### Worksite #1: Kelly Creek PA 45

#1: Provide a description of the project actions at this worksite (acquisition, development and/or restoration activities that will occur as a part of this project)

The project will consist of implementing instream structures utilized low-tech installation methods. There has been a staging area identified where equipment and materials will be stored during the project implementation.

#2: Describe all ground disturbing activities (length, width and depth of disturbance and equipment utilized) that will take place in the Area of Potential Effect (APE). Include the location of any construction staging or access roads associated with your project that will involve ground disturbance.

Post-Assisted Log Structures (PALS):  
Woody material of various sizes will be pinned together with untreated wooden posts (<4" diameter) driven into the substrate. Untreated wooden posts will be pounded 2-3 feet into the stream bed using a hand-held pneumatic post-pounder. Approximately 4-15 posts per structure, plus the addition of woody debris (small trees and branches) woven between posts by hand.

Beaver Dam Analogue (BDA) Structures:  
A permeable, channel spanning structure with a constant crest elevation constructed with a mixture of woody debris and fill material to form a pond and mimic a natural beaver dam. BDAs will be installed in the stream bed and channels within the floodplain. Scouring of stream bed will be completed using hand-tools and buckets to build subsequent layers of substrate between 6"-12" into BDA formation. Fine woody debris and additional sediment will be woven by hand between and on top of layers. BDA installations are "post-assisted," and 4-20 treated wooden posts will be inserted into the stream bed using a hand-held pneumatic post-pounder. Depth of disturbance will be variable depending on location of structure, design, and woody materials characteristics, usually less than 2 feet of sediment will be moved to form layers of BDA.

Equipment to be used includes a hand-held pneumatic post-pounder and a generator to power it, chainsaw, handsaws, sledgehammers, shovels, and rock bars. An ATV will be used for staging materials on site.

#3: Describe any planned ground disturbing pre-construction/restoration work. This includes geo-technical investigation, fencing, demolition, decommissioning roads, etc.

None

#4: Describe the existing project area conditions. The description should include existing conditions, current and historic land uses and previous excavation/fill (if depths and extent is known, please describe).

Project Area 45 (PA-45) is located along Kelly Creek, which is a tributary to Pintler Creek. Kelly Creek enters Pintler Creek at RM 3.7 and the headwaters of Kelly Creek are in loess uplands, which are dominated by dryland farming. There is a defined channel, the substrate is coarse cobble and boulder, with deciduous dominated riparian vegetation along the lower mile and a half of Kelly Creek. The geomorphic function is moderate and the flow goes subsurface annually after spring floods. This project is located in the Asotin Creek Wildlife Area. Historically the land use was cattle/sheep grazing on rangeland, but it is currently managed for wildlife.

#5: Will a federal permit be required to complete the scope of work on the project areas located within this worksite?

Yes

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#5a: List the agency that will be issuing the permit and the date you anticipate applying for and receiving the permit. Will the federal permit cover ALL proposed ground disturbing activities included in the project?

US Army Corps of Engineers- Dredge/Fill (404)  
US Fish & Wildlife- ESA Compliance  
We anticipate applying for permits in January 2023 to have them secured prior to the 2023 work window. All ground disturbing activities that require federal permits will be covered by the permits that are secured.

#6: Are you utilizing Federal Funding to complete the scope of work? This includes funds that are being shown as match or not.

Yes

#6a: Please list the federal agency and funding sources.

BPA

#6b: Does the federal funding you are utilizing as match require you to receive state funding?

No

#7: Do you have knowledge of any previous cultural resource review within the project boundaries during the past 10 years?

No

#8: Is the worksite located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site?

Yes

#8a: Please name the area and specify when the site was established.

WDFW George Creek Wildlife Area Unit

#9: Are there any structures over 45 years of age within this worksite? This includes structures such as buildings, tidegates, dikes, residential structures, bridges, rail grades, park infrastructure, etc.

Unknown

## Project Permits

Permits and Reviews	Issuing Organization	Applied Date	Received Date	Expiration Date	Permit #
Archeological & Cultural Resources (EO 05-05)	DAHP				
Cultural Assessment [Section 106]	DAHP				
Endangered Species Act Compliance [ESA]	US Fish & Wildlife				
Hydraulics Project Approval [HPA]	Dept of Fish & Wildlife				

## Permit Questions

#1: Are you planning on using the federal permit streamlining process? **Limit 8**

Yes

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## Attachments

### Required Attachments

4 out of 6 done

- Applicant Resolution/Authorizations
- Cost Estimate ✓
- Landowner acknowledgement form
- Map: Restoration Worksite ✓
- Photo ✓
- RCO Fiscal Data Collection Sheet ✓

### PHOTOS (JPG, GIF)

Photos (JPG, GIF)



# 499288    # 499289

### PROJECT DOCUMENTS AND PHOTOS

Project Documents and Photos

File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
	02/03/2022	Photo	DSCF8018.JPG	MeganS	DSCF8018.jpg, 499289	✓
	02/03/2022	Photo	DSCF5165.jpg	MeganS	DSCF5165.jpg, 499288	✓
	02/02/2022	Map: Restoration Worksite	Map_PA 45.pdf	MeganS	Map_PA 45.pdf, 499202	✓
	01/31/2022	RCO Fiscal Data Collection Sheet	FiscalDataCollectionSheet 2022.pdf	MeganS	FiscalDataCollectionSheet 2022.pdf, 498930	
	01/21/2022	Cost Estimate	SRFB_Cost_Estimate - Kelly Creek PALS.xlsx	MeganS	SRFB_Cost_Estimate - Kelly Creek PALS.xlsx, 498142	✓

## Application Status

Application Due Date: 06/27/2022

Status Name	Status Date	Submitted By	Submission Notes
Preapplication	01/03/2022		

I certify that to the best of my knowledge, the information in this application is true and correct. Further, all application requirements due on the application due date have been fully completed to the best of my ability. I understand that if this application is found to be incomplete, it will be rejected by RCO. I understand that I may be required to submit additional documents before evaluation or approval of this project and I agree to provide them.

Date of last change: 02/04/2022



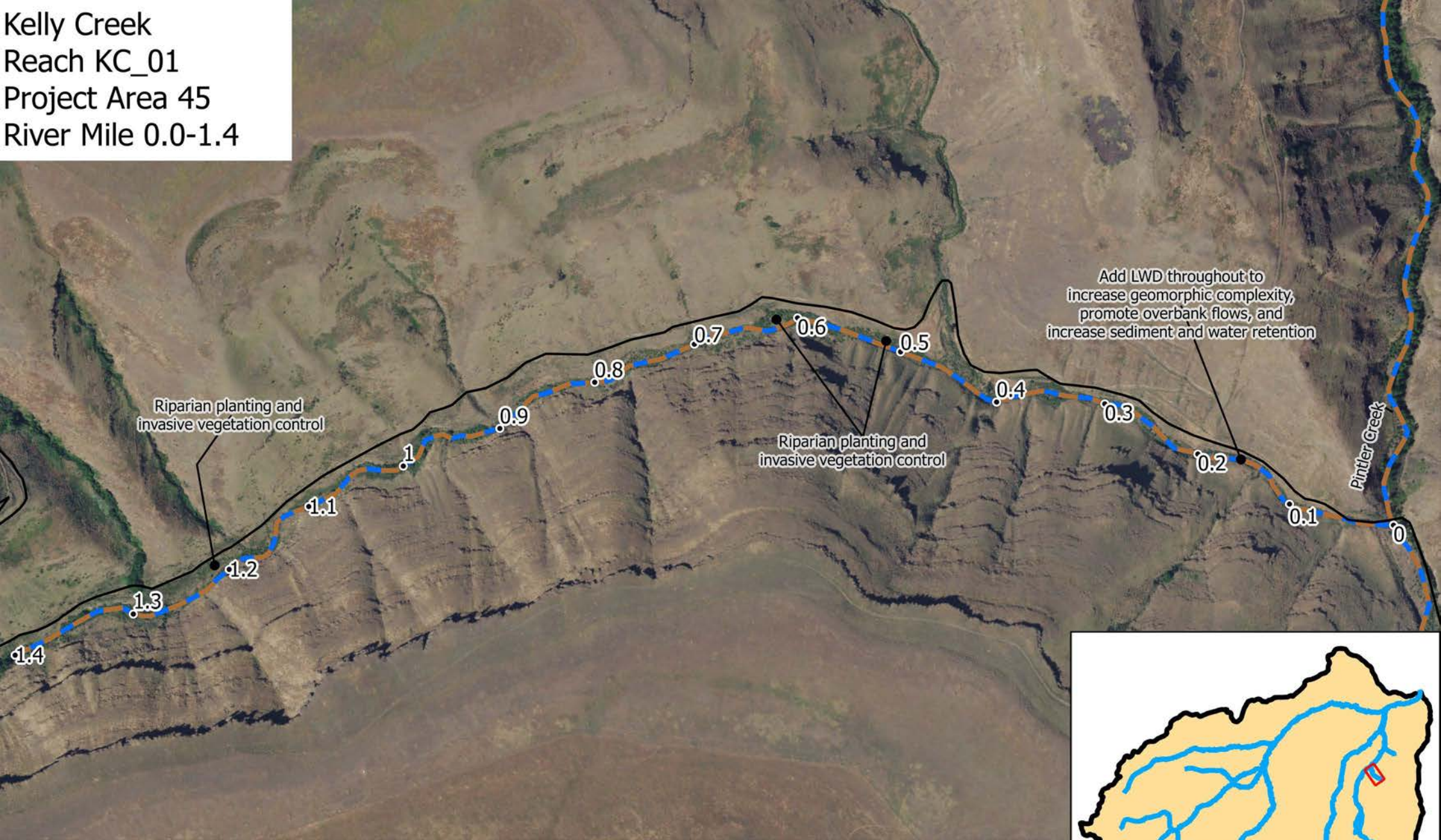
Asotin Co Conservation Dist, Kelly Creek PA 45 Restoration (K22-1011)  
Attachment #499289, D5CF8018.JPG



Asotin Co Conservation Dist, Kelly Creek PA 45 Restoration (#22-1011)

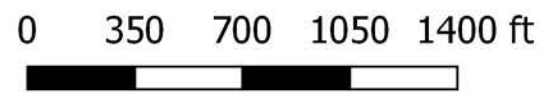
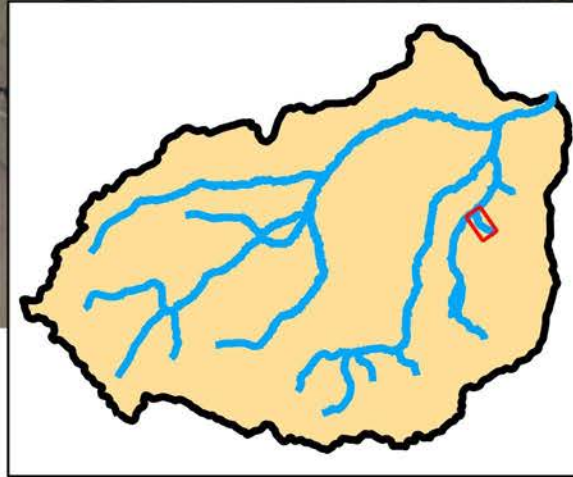
Attachment #499288, DSCF5165.jpg

Kelly Creek  
Reach KC\_01  
Project Area 45  
River Mile 0.0-1.4



**Legend**

◦ Mile Markers	— Levee
— Major Roads	— Side Channel
— Increase Complexity	□ Protect Processes





# RESTORATION

See SRFB Manual 5 for additional information regarding allowable costs.

				OVERALL PROJECT	GRANT REQUEST	MATCH				
				<i>Budget must account for all costs to complete the project</i>	<i>Enter only the amount of the grant request</i>	<i>The Grant Request and Match should equal the total project cost and Budget Check cell should be 0. Sponsors must account for all sources and types of match need to complete the project.</i>				
				Amount	Amount	Match in PRISM	Funding not reported in PRISM	Source (Grant, Cash, Materials, Labor, Volunteers, etc)	Match Type (federal, state, local)	
<b>Construction</b>										
Category (choose one)	Task Description	Qty	Rate							
Construction supervision	<i>Installation Oversight</i>	240.00	\$ 50.00	\$ 12,000	\$ 8,000	\$ 4,000		BPA	Federal	
Cultural resources	<i>Cultural Resource Survey</i>	1.00	\$ 8,000.00	\$ 8,000	\$ 4,000	\$ 4,000				
Permits	<i>Permits</i>	1.00	\$ 2,500.00	\$ 2,500	\$ 1,000	\$ 1,500				
Construction	<i>Stage Material/Site Prep</i>	4.00	\$ 4,000.00	\$ 16,000	\$ 8,000	\$ 8,000		BPA	Federal	
Equipment and equipment use	<i>Equipment - Post driver, generator, etc</i>	1.00	\$ 2,000.00	\$ 2,000	\$ 2,000	\$ -		BPA	Federal	
Construction	<i>LWD</i>	60.00	\$ 200.00	\$ 12,000	\$ 8,000	\$ 4,000		BPA	Federal	
Construction labor	<i>Installation</i>	6.00	\$ 4,000.00	\$ 24,000	\$ 16,000	\$ 8,000		BPA	Federal	
Materials	<i>Wood Posts</i>	480.00	\$ 10.00	\$ 4,800	\$ 3,800	\$ 1,000		BPA	Federal	
			\$ -	\$ -	\$ -	\$ -				
			\$ -	\$ -	\$ -	\$ -	\$ -			
			\$ -	\$ -	\$ -	\$ -	\$ -			
			\$ -	\$ -	\$ -	\$ -	\$ -			
			<b>STotal</b>	<b>\$ 81,300</b>	<b>\$ 50,800</b>	<b>\$ 30,500</b>	<b>\$ -</b>			

<b>Administrative, Architectural &amp; Engineering</b>										
Category	Task Description	Qty	Rate							
Administrative	<i>Grant Administration</i>	1.00	\$ 12,000.00	\$ 12,000.00	\$ 12,000	\$ -	\$ -			
Data collection	<i>Site Assessment</i>	72.00	\$ 50.00	\$ 3,600.00	\$ 3,600	\$ -	\$ -			
Final design	<i>Design/Engineering</i>	40.00	\$ 50.00	\$ 2,000.00	\$ 2,000	\$ -	\$ -			
Other	<i>As-Built /Reporting</i>	32.00	\$ 50.00	\$ 1,600.00	\$ 1,600	\$ -	\$ -			
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			\$ -	\$ -	\$ -	\$ -	\$ -			
			\$ -	\$ -	\$ -	\$ -	\$ -			
			\$ -	\$ -	\$ -	\$ -	\$ -			
			\$ -	\$ -	\$ -	\$ -	\$ -			
			<b>STotal</b>	<b>\$ 19,200</b>	<b>\$ 19,200</b>	<b>\$ -</b>	<b>\$ -</b>			

<b>Indirect Costs</b>										
Description	Approved Rate	Total Project Base								
Indirect	0.000%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
Indirect	0.000%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			
		<b>STotal</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>			

**AA&E Budget Check**  
*A&E maximum allowed in PRISM* \$ 24,390.00  
*A&E validation* 5,190

<b>GTOTAL</b>	<b>\$ 100,500</b>	<b>\$ 70,000</b>	<b>\$ 30,500</b>	<b>\$ -</b>
		<b>PRISM Project Total</b>	<b>\$ 100,500</b>	
	<b>RCO Percentage</b>	<b>Match Percentage</b>		
	<b>69.65%</b>	<b>30.35%</b>		