

PROJECT: 22-1007 REST, COUSE CREEK PA 78 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 | 22-1007 | AFitzgerald |

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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 | alice.rubin@rco.wa.gov |
| <u>Megan Stewart</u> Asotin Co Conservation Dist | Project Contact | (509) 552-8100 | megan@asotinco.org |
| <u>Brad Riehle</u> Asotin Co Conservation Dist | Alt Project Contact | (509) 552-8117 | brad@asotinco.org |
| <u>Ali Fitzgerald</u> Snake River Salmon Rec Bd LE | Lead Entity Contact | (509) 382-4115 | ali@snakeriverboard.org |

Worksites & Properties

- # Worksite Name
- #1 Couse Creek - PA 78

| Restoration | Property Name |
|-------------|---------------|
| ✓ | Scheibe |

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Worksite Map & Description

Worksite #1: Couse Creek - PA 78

WORKSITE ADDRESS

Street Address
City, State, Zip

Worksite Details

Worksite #1: Couse Creek - PA 78

SITE ACCESS DIRECTIONS

The Couse Creek PA 78 Stream Restoration Design Project is located south of the City of Asotin, WA along Couse Creek Road. The project begins at RM 0.1 and ends are RM 1.4. Private Property

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

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.

Project starts where Couse Creek Road meets Snake River Road and ends at RM 1.4

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Project Location

RELATED PROJECTS

Projects in PRISM

| PRISM Number | Project Name | Current Status | Relationship Type | Notes |
|--------------|---|------------------|-------------------|-------|
| 20-1054 P | Couse Creek PA 78 Design | Active | Earlier Phase | |
| 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.

Couse Creek is listed as an minor spawning area and Priority Protection Reach that flows directly into the Snake River. The project begins at RM 0.1 and ends are RM 1.4.

#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: Scheibe (Worksite #1: Couse Creek - PA 78)

✓Restoration

LANDOWNER

Name Ron Scheibe
Address 14614 Montgomery Ridge Rd
City Anatone
State WA Zip 99401
Type Private

CONTROL & TENURE

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

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Project Proposal

Project Description

The Asotin County Conservation District is sponsoring the Couse Creek PA 78 Stream Restoration Project. PA 78 was identified as a Tier 1 project in the Asotin County Conceptual Restoration Plan. The conceptual plan for PA 78 includes improving access to flood channels, controlling invasive vegetation encroachment, and organizing boulder clusters and add large woody debris to increase complexity. The design project was approved during the 2020 SRFB grant round and this project would result in the implementation of that design.

The Couse Creek PA 78 Stream Restoration Project is located south of the City of Asotin, WA along Couse Creek Road. The project begins at RM 0.1 and ends are RM 1.4. Couse Creek is listed as an mSA and Priority Restoration Reach that flows directly into the Snake River.

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.

Project Area 78 (PA-78) begins at RM 0.1 of the mainstem of Couse Creek and ends near an unnamed ephemeral tributary at RM 1.4. Couse Creek Road follows the stream on river left for the entire project area. Channel confinement is variable and heavily influenced by fans from adjacent steep hillsides. The hillsides contribute substantial amounts of colluvium that the stream does not have the power to move during regular water flow events.

The geomorphic function in PA-78 is moderate, primarily due to low geomorphic diversity and excessive colluvium deposits. Large boulders provide the primary source for hydraulic and geomorphic diversity. The floodplain is narrow; however, flood channels do exist but not accessed regularly.

Riparian function is generally moderate, and most sections have departed little from historic estimates. Invasive vegetation is encroaching into the valley bottom in sections of the project area.

The project area has been in the Conservation Reserve Enhancement Program for 15 years and was re-enrolled for an additional 15 years in October 2016. This has allowed the vegetation to recover and start to mature in the project area.

Improving access to flood channels to improve floodplain connectivity has been identified and controlling invasive vegetation encroachment, adding LWD and boulder clusters to the channel and floodplain are restoration actions that have been identified as a priority in this project area in the Asotin Conceptual Restoration Plan. This project seeks to funding for the implementation of the designs that are being development (funded by SRFB 2020 grant round Project 20-1054) to enhance fish habitat through this 1.3-mile reach.

#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 78 include flow, habitat diversity, sediment load, temperature and key habitat quantity for steelhead. Fish life stages identified for PA 78 included migration, spawning, rearing and holding.

#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 develop construction ready designs for PA-78 to address the management objectives that were identified in the Asotin Conceptual Restoration Plan. The project was designed to increase access to flood channels which will improve floodplain connection, promote riparian function and provide instream habitat complexity through the placement of large wood structures (low tech structures such as PALS as well as engineered structures) and boulder clusters, to enhance juvenile Snake River steelhead habitat for all life stages. This project area is in relatively good condition and was listed as a Tier 1 project that would be likely to provide an immediate physical and biological response to address the limiting factors.

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#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 objectives for this project include:

- improve access to 1,000 feet of flood/side channel habitat to support juvenile rearing and overwintering habitat
- provide over 3 acres of floodplain connectivity with a target of overbank flows at the 2-year flow reoccurrence
- install 75 to 100 LWD structures and boulder clusters over approximately 5,000 feet of channel length to provide instream channel complexity and promote overbank flows
- control invasive vegetation and upland vegetation encroachment on 5 to 8 acres to improve the riparian condition
- plant 1,000 native trees and shrubs and 5 to 8 acres of native grass

#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.

Deliverables associated with development of the design package and environmental compliance requirements are underway utilizing funds from Bonneville Power Administration and RCO SRFB Grant 20-1054.

The Asotin County Conservation District will complete the following deliverables for this project that will lead to the implementation of the fish passage restoration and barrier removal.

Construction Bid – Jan 2023

- The construction bid process initiated to select a contractor for the construction of the project.

Hire a Contractor – Feb 2023

- The bid process completed and contract signed with successful firm.

Secure Permits – May 2023

- Permits finalized, uploaded in PRISM and packaged to be available onsite during construction

Start Construction – July 2023

- Construction requiring in-water work completed during the approved work window in accordance with the permits issued.

Finish Construction – March 2025

- Site rehab and revegetation completed during plant dormancy.

Project Completion – July 2025

- All aspects of the project including permit reports and site visits, billing and reporting will be completed, and the project closed out.

Project

#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 private landowner in the project area and he has already provided support for this project to be developed. He 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?

The scope and goals of the project are straightforward. We are confident in the ability of ACCD to manage this project. We will be working closely with partners that have extensive experience with similar projects to provide guidance and expertise. The consultant firm that developed the designs will also provide engineer oversight during construction. ACCD staff provided management of large habitat projects that included notching Headgate Dam and installing a roughened channel and replacement of a fish passage barrier on Cottonwood Creek. This project also calls for the implementation of low-tech habitat structures. The ACCD technical staff have managed projects on Couse and Tenmile Creeks that have resulted in nearly 200 PALS and BDA structures. Those experiences will ensure this project is completed successfully.

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

There were multiple alternatives considered that built off the initial conceptual restoration plan for the project area. Those alternatives were presented during an early phase of the design process after the selected consultant conducted the initial site evaluation and review the conceptual restoration plan that had been developed for the project area. All alternatives were reviewed by SRFB, BPA, technical partners, and the landowner before determining which option would achieve the desired goals and protect infrastructure while taking into consideration the cost of the project.

#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 06. The landowner was willing to proceed with the development of a design and has consulted throughout the development of the design. There were no public safety concerns identified for this project area.

#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?

Many streams in Asotin County, including Tenmile Creek, originate in the Blue Mountains and the 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.

#2: Will (or did) a licensed professional engineer design the project?

#3: Does the project include measures to stabilize an eroding stream bank?

#4: Is the primary activity of the project invasive species removal?

#5: Is the primary activity of the project riparian planting?

#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.

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

Restoration Metrics

Worksite: Couse Creek - PA 78 (#1)

| | |
|---|---|
| Miles of Stream and/or Shoreline Treated or Protected (C.0.b) | 1.30 |
| 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 minor spawning area for steelhead and a priority restoration reach in 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) | 1.30 |
| Channel structure placement (C.4.d.1) | |
| Total cost for Channel structure placement | \$190,200 |
| Material Used For Channel Structure (C.4.d.2) | Individual Logs (Anchored) Rocks/Boulders (Unanchored) |
| Miles of Stream Treated for channel structure placement (C.4.d.3) | 1.30 |
| Pools Created through channel structure placement (C.4.d.5) | 25 |
| Number of structures placed in channel (C.4.d.7) | 75 |

RIPARIAN HABITAT PROJECT

| | |
|--|------|
| | 1.30 |
|--|------|

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| | |
|---|------|
| Total Riparian Miles Streambank Treated (C.5.b.1) | 1.30 |
|---|------|

| | |
|--|-----|
| Total Riparian Acres Treated (C.5.b.2) | 8.0 |
|--|-----|

Planting (C.5.c.1)

| | |
|-------------------------|---------|
| Total cost for Planting | \$5,000 |
|-------------------------|---------|

| | |
|---|--|
| Species Of Plants planted in riparian (C.5.c.2) | |
|---|--|

| | |
|-------------------------------------|-----|
| Acres Planted in riparian (C.5.c.3) | 5.0 |
|-------------------------------------|-----|

| | |
|---------------------------------------|--|
| Miles of streambank planted (C.5.c.4) | |
|---------------------------------------|--|

| | |
|------------------------|-----|
| Average Riparian Width | 140 |
|------------------------|-----|

| | |
|--|----------------------|
| Site Potential Tree Height at 200 years (SPTH-200) | 131 Black Cottonwood |
|--|----------------------|

Riparian Plant removal / control (C.5.h.1)

| | |
|--|----------|
| Total cost for Plant removal / control | \$15,000 |
|--|----------|

| | |
|---|--|
| Species of Plants Treated/Removed in riparian (C.5.h.2) | |
|---|--|

| | |
|---|-----|
| Acres of riparian treated for plant removal/control (C.5.h.3) | 8.0 |
|---|-----|

| | |
|---|------|
| Miles of streambank treated for plant removal/control (C.5.h.4) | 1.30 |
|---|------|

ARCHITECTURAL & ENGINEERING

Architectural & Engineering (A&E)

| | |
|--|----------|
| Total cost for Architectural & Engineering (A&E) | \$24,800 |
|--|----------|

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Overall Project Metrics

COMPLETION DATE

Projected date of completion

07/31/2025

Restoration Cost Estimates

Worksite #1: Couse Creek - PA 78

| Category | Work Type | Estimated Cost | Note |
|--------------------------------------|--|----------------|------|
| Instream Habitat Project | Channel structure placement (C.4.d.1) | \$190,200 | |
| Riparian Habitat Project | Planting (C.5.c.1) | \$5,000 | |
| | Riparian Plant removal / control (C.5.h.1) | \$15,000 | |
| | Subtotal: | \$210,200 | |
| Admin, Architecture, and Engineering | | \$24,800 | |
| | Total Estimate For Worksite: | \$235,000 | |

Summary

| | |
|-------------------------------------|-----------|
| Total Estimated Costs Without AA&E: | \$210,200 |
| Total Estimated AA&E: | \$24,800 |
| Total Estimated Restoration Costs: | \$235,000 |

Cost Summary

| | Estimated Cost | Project % | Admin/AA&E % |
|--------------------------------------|----------------|-----------|--------------|
| <u>Restoration Costs</u> | | | |
| Restoration | \$210,200 | | |
| Admin, Architecture, and Engineering | \$24,800 | | 11.80 % |
| SUBTOTAL | \$235,000 | 100.00 % | |
| Total Cost Estimate | \$235,000 | 100.00 % | |

Funding Request and Match

FUNDING PROGRAM

| | | |
|-----------------------|-----------|---------|
| Salmon State Projects | \$164,500 | 70.00 % |
|-----------------------|-----------|---------|

SPONSOR MATCH

Other Monetary Funding Grant - Federal

Amount \$70,500.00

Funding Organization Bonneville Power Administration (BPA)

Grant Program Fish & Wildlife Program

Match Total: \$70,500 30.00 %

Total Funding Request (Funding + Match): \$235,000 100.00 %

Questions

#1: Explain how you determined the cost estimates

Engineer's estimate developed during design phase of the project

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Cultural Resources

Worksite #1: Couse Creek - PA 78

#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)

Recommendations for PA-78 include improving access to flood channels, controlling invasive vegetation encroachment, organizing boulders into cluster or ribs between RM 0.1 and 0.3, and adding LWD PALS, ELJ and BDA structures to the channel and floodplain throughout. Improve access to flood channels and promote overbank flow.

#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.

Instillation of Engineered Log Jams (ELJs) will require excavation of stream beds and stream banks using excavation equipment to assist with the embedment of large logs, root-wads, and trees into cobble substrate, depth and with will be specific to each structure. Typically, 4 ft deep and 30 ft in length.
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.
Equipment to be used includes excavators, backhoe, 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).

PA-78 begins at the Snake River Road bridge crossing and RM 0.1 and ends near an unnamed ephemeral tributary at RM 1.4. Couse Creek Road follows the stream on river left for the entire project area. Channel confinement is variable and heavily influenced by fans from adjacent steep ephemeral hillslopes. The adjacent hillslopes contribute substantial amounts of colluvium that the stream does not have the competence to move during regular flood events. The geomorphic function in PA-78 is moderate, primarily due to low geomorphic diversity, limited floodplain access, and excessive colluvium deposits. Large boulders from colluvial inputs provide the primary source for hydraulic and geomorphic diversity, which is typical in fan controlled reach types. The floodplain is inherently narrow; however, flood channels do exist and are not accessed regularly. The channel substrate is poorly sorted and heavily armored by large cobble. Riparian function is generally moderate, and most sections have departed little from historic estimates. Invasive vegetation is encroaching into the valley bottom, particularly between RM 0.4-0.6 and RM 1.0-1.3.

#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?

Yes

#7a: Summarize the previous cultural resource review; including lead agency and date of review, reference name and numbers, etc. If RCO, include the prior phase grant number. NOTE: Do not provide any site-specific information considered confidential. Attach previous surveys or other reference documents.

Cultural Resource Survey for CREP project for Asotin County Conservation District. Principal Investigator: Pat Baird, Nez Perce Cultural Resource Program. Aug 23, 2016

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

No

#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.

No

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 | | | | |
| Dredge/Fill Permit [Section 10/404 or 404] | Army Corps of Eng. | | | | |
| Endangered Species Act Compliance [ESA] | US Fish & Wildlife | | | | |
| Hydraulics Project Approval [HPA] | Dept of Fish & Wildlife | | | | |
| Water Quality Certification [Section 401] | County/Dept of Ecy. | | | | |

Permit Questions

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

Yes

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Attachments

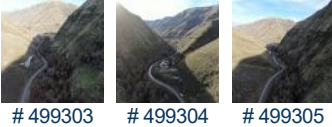
Required Attachments

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)



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 | DJI_0011.JPG | MeganS | DJI_0011.jpg, 499305 | ✓ |
| | 02/03/2022 | Photo | DJI_0010.JPG | MeganS | DJI_0010.jpg, 499304 | ✓ |
| | 02/03/2022 | Photo | DJI_0005.JPG | MeganS | DJI_0005.jpg, 499303 | ✓ |
| | 02/02/2022 | Map: Restoration Worksite | Maps_PA 78.pdf | MeganS | Maps_PA 78.pdf, 499219 | ✓ |
| | 01/31/2022 | RCO Fiscal Data Collection Sheet | FiscalDataCollectionSheet 2022.pdf | MeganS | FiscalDataCollectionSheet 2022.pdf, 498929 | |
| | 01/21/2022 | Cost Estimate | SRFB_Cost_Estimate - Couse Creek PA 78 Restoration.xlsx | MeganS | SRFB_Cost_Estimate - Couse Creek PA 78 Restoration.xlsx, 498151 | ✓ |

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: 02/09/2022



Asotin Co Conservation Dist; Couse Creek PA 78 Restoration (#22-1007)

Attachment #499304, DJI_0010.JPG



Asotin Co Conservation Dist; Couse Creek PA 78 Restoration (#22-1007)

Attachment #499305, DJI_0011.JPG



Asotin Co Conservation Dist; Couse Creek PA 78 Restoration (#22-1007)

Attachment #499303, DJI_0005.JPG

Couse Creek
 Reach CO_01
 Project Area 78
 River Mile 0.1 to 0.7



Organize boulders between RM 0.1 and 0.3 to increase complexity

Add high density LWD between RM 0.3 and 0.7 to increase complexity and promote overbank flow

Control invasive vegetation and upland vegetation encroachment

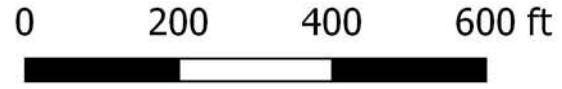
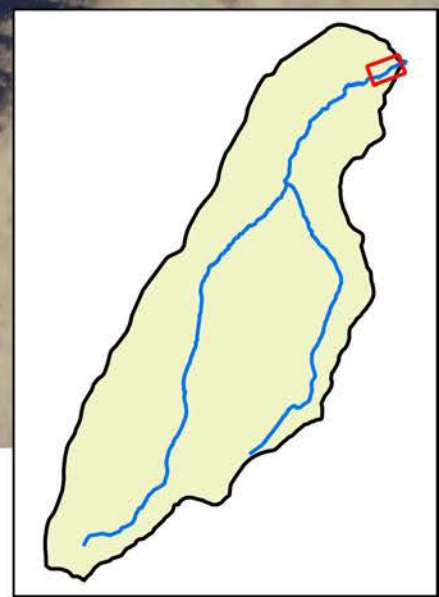
Couse Creek Rd

Improve access to flood channels

Improve access to floodchannel

Legend

- Mile Markers
- Major Roads
- Increase Complexity
- Levee
- - - Side Channel
- Protect Processes
- Connected Floodplain
- Disconnected Floodplain

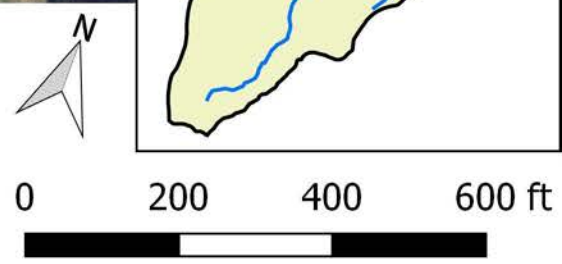


Couse Creek
 Reach CO_01
 Project Area 78
 River Mile 0.7 to 1.4



Legend

| | |
|-----------------------|---------------------------|
| ● Mile Markers | --- Side Channel |
| — Major Roads | □ Protect Processes |
| — Increase Complexity | ■ Connected Floodplain |
| — Levee | ■ Disconnected Floodplain |



RESTORATION

See SRFB Manual 5 for additional information regarding allowable costs.

| | | | | OVERALL PROJECT | GRANT REQUEST | MATCH | | | | |
|-----------------------------|---|----------|-------------|---|--|---|-------------------------------|---|------------------------------------|--|
| | | | | Budget must account for all costs to complete the project | Enter only the amount of the grant request | 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. | | | | |
| | | | | Amount | Amount | Match in PRISM | Funding not reported in PRISM | Source (Grant, Cash, Materials, Labor, Volunteers, etc) | Match Type (federal, state, local) | |
| Construction | | | | | | | | | | |
| Category (choose one) | Task Description | Qty | Rate | | | | | | | |
| Construction supervision | Installation Oversight | 240.00 | \$ 50.00 | \$ 12,000 | \$ 10,000 | \$ 2,000 | | BPA | Federal | |
| Construction | Transport Material | 15.00 | \$ 500.00 | \$ 7,500 | \$ 5,000 | \$ 2,500 | | BPA | Federal | |
| Construction | Stage Material/Site Prep | 3.00 | \$ 4,000.00 | \$ 12,000 | \$ 9,000 | \$ 3,000 | | BPA | Federal | |
| Construction labor | Installation | 4.00 | \$ 8,000.00 | \$ 32,000 | \$ 23,000 | \$ 9,000 | | BPA | Federal | |
| Materials | Wood Posts | 600.00 | \$ 10.00 | \$ 6,000 | \$ 3,000 | \$ 3,000 | | BPA | Federal | |
| Equipment and equipment use | Equipment - Post driver, generator, etc | 1.00 | \$ 2,500.00 | \$ 2,500 | \$ 1,500 | \$ 1,000 | | BPA | Federal | |
| Materials | Roadwads/Trees | 108.00 | \$ 650.00 | \$ 70,200 | \$ 50,200 | \$ 20,000 | | BPA | Federal | |
| Equipment and equipment use | Engineered Structure Placement | 32.00 | \$ 1,500.00 | \$ 48,000 | \$ 30,000 | \$ 18,000 | | BPA | Federal | |
| Construction | Noxious Weed & Invasive Species Control | 20.00 | \$ 750.00 | \$ 15,000 | \$ 5,000 | \$ 10,000 | | | | |
| Construction | Tree/Shrub Planting | 1,000.00 | \$ 4.00 | \$ 4,000 | \$ 2,000 | \$ 2,000 | | | | |
| Construction | Grass Planting | 8.00 | \$ 125.00 | \$ 1,000 | \$ 1,000 | \$ - | | | | |
| | | | | STotal | \$ 210,200 | \$ 139,700 | \$ 70,500 | \$ - | | |

| Administrative, Architechtrual & Engineering | | | | | | | | | | |
|---|----------------------|-------|--------------|---------------|------------------|------------------|-------------|-------------|--|--|
| Category | Task Description | Qty | Rate | | | | | | | |
| Administrative | Grant Administration | 1.00 | \$ 18,000.00 | \$ 18,000.00 | \$ 18,000 | \$ - | \$ - | | | |
| Data collection | Site Assessment | 80.00 | \$ 50.00 | \$ 4,000.00 | \$ 4,000 | \$ - | \$ - | | | |
| Other | As-Built /Reporting | 56.00 | \$ 50.00 | \$ 2,800.00 | \$ 2,800 | \$ - | \$ - | | | |
| | | | | \$ - | \$ - | \$ - | \$ - | | | |
| | | | | \$ - | \$ - | \$ - | \$ - | | | |
| | | | | \$ - | \$ - | \$ - | \$ - | | | |
| | | | | \$ - | \$ - | \$ - | \$ - | | | |
| | | | | \$ - | \$ - | \$ - | \$ - | | | |
| | | | | STotal | \$ 24,800 | \$ 24,800 | \$ - | \$ - | | |

| Indirect Costs | | | | | | | | | | |
|-----------------------|-------------|---------------|--------------------|---------------|-------------|-------------|-------------|-------------|--|--|
| | Description | Approved Rate | Total Project Base | | | | | | | |
| | Indirect | 0.000% | \$ - | \$ - | \$ - | \$ - | \$ - | | | |
| | Indirect | 0.000% | \$ - | \$ - | \$ - | \$ - | \$ - | | | |
| | | | | STotal | \$ - | \$ - | \$ - | \$ - | | |

| | |
|------------------------------|--------------|
| AA&E Budget Check | |
| A&E maximum allowed in PRISM | \$ 63,060.00 |
| A&E validation | 38,260 |

| | | | | |
|---------------|-----------------------|----------------------------|-------------------|-------------|
| GTOTAL | \$ 235,000 | \$ 164,500 | \$ 70,500 | \$ - |
| | | PRISM Project Total | \$ 235,000 | |
| | RCO Percentage | Match Percentage | | |
| | 70.00% | 30.00% | | |