



The Restoration Partnership (Partnership) is a collaborative effort comprising the Coeur d'Alene Basin Natural Resource Trustees which are the U.S. Department of the Interior, represented by the U.S. Fish and Wildlife Service (USFWS) and Bureau of Land Management (BLM); the Coeur d'Alene Tribe (Tribe); the U.S. Department of Agriculture, represented by the U.S. Forest Service (USFS); and the State of Idaho, represented by the Idaho Department of Fish and Game (IDFG) and Idaho Department of Environmental Quality (DEQ). The Partnership's primary mission is to develop and implement a restoration plan to help restore the health, productivity, and diversity of injured natural resources from releases of mine waste contamination and the services they provide in the Coeur d'Alene Basin for present and future generations. This includes compensation for lost human use services of those resources by developing and implementing projects under the framework of a Restoration Plan for the Coeur d'Alene Basin. The following Partnership activities occurred throughout fiscal year 2023 (FY23):

- The Partnership continued support for ongoing operations and maintenance by USFWS, Ducks Unlimited (D.U.), and private landowners for wetlands at the Schlepp Agriculture to Wetlands Conversion Project. The construction and implementation of this restoration project has been completed and Operations and Maintenance (O&M) is underway. For more information visit: <https://www.restorationpartnership.org/projects/schlepp.html>
- The Trustees coordinated quarterly reporting and site visits with the Project Sponsors and Project Leads as appropriate throughout FY23.
- Implementation of the following projects continued in FY23 and the expenditures for FY23 are noted with a brief narrative of work that was completed. The full annual reports for each project can be found following this narrative.
 - **Ongoing: Wetland and Stream Enhancement at Cougar Bay on Coeur d'Alene Lake (BLM and USFWS sponsors)**
 - Funds Originally Allocated in FY18 and 19 on Cougar and Johnson parcel jointly: \$407,000.
 - Amount Expended in FY23: \$8,000.
 - FY23 Activities: 1) Culvert replacement to help the new channel handle larger spring flows and improve a short stretch of stream channel, 2) Bank improvements also were completed downstream and channel banks in the upper reach were laid back to better mimic natural point bars, 3) Noxious weed treatments to slow the invasion of reed canary grass into the floodplain and

streamside areas and, 4) 750 one-gallon riparian plants were planted including water birch, pacific ninebark, black cottonwood, willows and elderberry.



New channel of Cougar Creek looking south.

- ***Ongoing: Gul Hnch'mchinmsh - Native Willow Nursery for Support of Restoration Actions throughout the Restoration Partnership Project Area (Tribe sponsor)***
 - Funds Originally Allocated in FY18: \$205,462
 - Amount Expended in FY23: \$1,470
 - FY23 Activities: 1) Coeur d'Alene Tribal staff provided survey information on potential harvest opportunities for the Tribe and the partnership, 2) Staff mowed reed canary grass to keep the rows of willows visible and accessible, 3) Allocations of willow harvest were determined and the numbers were shared with other RP sponsored projects and, 4) Coordination of harvest times was ongoing.

- ***Ongoing: Culturally Significant Plants in the Hangman Creek (Tribe sponsor)***
 - Funds Originally Allocated in FY18: \$187,770
 - Amount Expended in FY23: \$27,291
 - FY23 Activities: 1) Tribal staff focused efforts to bring on Tribal interns to continue monitoring plant success rates as well as planting efforts and, 2) Staff completed beaver surveys and dam reinforcements as well as installed plant protectors.

- ***Ongoing: Coeur d’Alene Lake Monitoring and Modeling (Tribe sponsor)***
 - Funds Originally Allocated in FY18: \$268,668
 - Amount Expended in FY23: \$48,884
 - FY23 Activities: 1) Collected and analyzed water quality samples from 4 sites over an eight month period as other Tribal budgets were used for the other sampling events, 2) Continued data analysis and writing the synthesis report for Coeur d’Alene Lake, and 3) Continued calibration of the AEM3D model and reporting to the NAS.

- ***Ongoing: Hepton Lake (Gul Hnch’mchinmsh) Wetland Restoration Planning and Implementation (Tribe sponsor)***
 - Funds Originally Allocated in FY18: \$ 210,900 and \$85,332 from remaining funds from the Cultural Harvest opportunities in the Hangman Creek Watershed
 - Amount Expended in FY23: \$145,932
 - FY23 Activities: 1) Tribal staff issued a Request for Proposals for a contractor to complete winter-time construction of the levee breach during low water, 2) Water level management was ongoing and construction supplies were staged for FY24 construction, and 3) Cost share funds were applied to this project for habitat restoration.

- ***Ongoing: Wetlands restoration planning at Gray’s Meadow (IDFG sponsor)***
 - Funds Originally Allocated in FY18 \$ 250,000 (remedial match provided by the Work Trust, \$5.2 M)
 - Amount Expended in FY23: \$384,735
 - FY23 Activities: 1) Nesting bird surveys occurred during construction activities, 2) Water level management was ongoing during construction and, 3) IDFG continued ongoing coordination with EPA and the CDA Trust throughout construction.

- ***Ongoing: Gene Day Pond Fishing Access (IDFG sponsor)***
 - Funds Originally Allocated in FY18: \$25,000
 - Amount Expended in FY23: \$7,500
 - FY23 Activities: 1) Parking area was graveled and traffic control boulders placed around the perimeter and, 2) Concrete pad pouring and final site close out planned for FY24.

- ***Ongoing: Conservation Easement, North Fork Coeur d’Alene River (IDFG sponsor)***
 - Funds Originally Allocated in FY21: \$600,000
 - Amount Expended in FY23: \$0

-FY23 Activities: IDFG coordinated efforts between the landowner and local Land Trust on potential conservation easement (C.E.) opportunities considering permanent protection of natural floodplain communities and cold water hyporheic flow.

- ***Ongoing: Conservation of Agricultural to Wetlands Conversion Properties within Canyon Marsh (USFWS sponsor with the Inland Northwest Land Conservancy (INLC))***

-Funds Originally Allocated in FY18 \$801,480 and in FY19 \$372,400

-Amount Expended in FY23: \$18,310

-FY23 Activities: 1) USFWS staff coordinated the development of the Scope of Work for the site with the collection of topographic, hydrologic, and soil agronomic data, 2) Through the cooperative agreement, Ducks Unlimited (DU) is working collaboratively with project partners to develop a conceptual wetland restoration plan that will serve as the idealized vision for future remediation/restoration design and implementation, and 3) Another important goal is that any data that is collected will complement (and not duplicate) any data that EPA, the Coeur d'Alene Trust, or other partners collect for remedial investigations.

- ***Ongoing: Conservation of Agricultural to Wetlands Conversion Property Gleason's Marsh (USFWS sponsor with INLC)***

-Funds Originally Allocated in FY18: \$656,140

-Amount Expended in FY23: \$9,000

-FY23 Activities: 1) USFWS staff worked with the Inland Northwest Land Conservancy (INLC) to develop a baseline resource reports along with other administrative documents for the C.E and, 2) USFWS worked with EPA on remedial investigations with remediation planned for 2025 and 2026.

- ***Ongoing: Lake Creek Watershed Restoration (CDA Tribe sponsor)***

-Funds Originally Allocated in FY21: \$615,951

-Amount Expended in FY23: \$58,682

-FY23 Activities: 1) Tribal staff and their contractor completed final design for channel restoration on multiple properties in the upper Lake Creek watershed in Idaho, 2) Tribal staff met with private landowners to review design objectives and expected outcomes where the design creates channel grade and profiles within the range of historical conditions when beaver was a predominant factor in shaping the valley bottom landscape, 3) Tribal staff submitted Clean Water Act Section 404 permit application to US Army Corps of Engineers, 4) Staff completed the cultural resource inventory that are targeted for restoration 2024 and, 5) Staged native materials for habitat enhancement features along the riparian areas of Lake Creek which will add additional habitat for culturally important plants.

○ **Ongoing: Prichard Creek Phase I: Conservation Easement and Restoration Planning (IDEQ sponsor with Idaho Forest Group and Trout Unlimited)**

-Funds Originally Allocated in FY21: \$3,808,450

-Amount Expended in FY23: \$460,019

-FY23 Activities: 1) DEQ along with Idaho Forest Group (the landowner) and Trout Unlimited installed large woody debris structures to support stream access to the original floodplain in the upstream reaches (see photo below), 2) Native willows from the Tribe's willow nursery were planted and, 3) The next phases of restoration implementation were ongoing.

○ **Ongoing: Red Ives Phase I Dam Removal Complete, started Phase II Planning (USFS sponsor)**

-Funds Originally Allocated in FY19: \$30,000

-Amount Expended in FY23: \$180,310

-FY23 Activities: 1) USFS staff worked with TU in the placement of large woody debris for habitat diversification, enhancement, and floodplain connectivity, and 2) USFS staff worked with numerous partners for cost share funding on bull trout recovery efforts.

Total Funds Expended in FY23: \$1,342,633

In FY23, the RP solicited the public for Project Ideas and 16 were submitted, 3 did not meet the RP Eligibility Criteria and 3 withdrew their project ideas. The Trustees awarded funding for 10 new (or ongoing projects) for initiation of implementation to begin in FY24. Those projects are:

- 1) Restore fish passage and ecosystem function in Miesen Creek along the St. Joe River- IDFG sponsor
- 2) Benewah Creek 'eltumish Project - Stream/Wetland Restoration- Tribe sponsor
- 3) Lake Creek conservation Easement with INLC and private landowner- Tribe sponsor
- 4) Big Creek Fish Passage Barrier Removal with Sunshine Mine- Tribe sponsor
- 5) Upper St. Joe River Bull Trout Habitat Restoration- USFS sponsor
- 6) Little North Fork Coeur d'Alene River Watershed Enhancement- USFS sponsor
- 7) Beaver Creek Phased Watershed Enhancement- USFS sponsor
- 8) Assessing Fish Passage at Stream Crossings in the CDA Basin- IDFG sponsor
- 9) CDA Lake Monitoring and Modeling- CDA Tribe sponsor, and
- 10) The paleolimnology of Coeur d'Alene Lake from pre-disturbance to mining impacts and present day- CDA Tribe sponsor (no funding awarded at this time).



Project Title: Cougar Bay and Johnson Parcel
Wetland Enhancements

Project Approval Date: Cougar Bay- August 9,2018 (44), Johnson Parcel -January 11, 2020 (52)
Trustee Council Resolution #: 44 & 52

Reporting Quarter/FY: Quarter 4/ FY2023-Annual

Partnership Funds Expenditures

Funds Allocated: \$ 282,000 (44) and \$125,000 (52)

Funds Spent this Quarter: \$ 1408

Funds Spent this Fiscal Year: \$ 7968

A. GENERAL INFORMATION

Project Proponent Name: Doug Evans, BLM

Primary Telephone Number: 208-769-5020

Email: devans@blm.gov

Project Sponsor: Doug Evans

Primary Telephone Number: 208-769-5020

Email: devans@blm.gov

B. PROGRESS DESCRIPTION

In May of 2023 hand crews planted nursery- stock spirea along the new channel. Upland species including rose and conifers were planted on the raised mounds.

In late June a culvert in the upstream portion of the project was replaced with a 30" culvert. The culvert will help the new channel handle larger spring flows. In conjunction with culvert install, the excavator improved a short stretch of stream channel. Bank improvements also were completed downstream. Channel banks in the upper reach were laid back to better mimic natural point bars. BLM's excavator was used. Excavator operator and fuel were the only expenses to the project funds.

Noxious weed treatments targeting Canada thistle, common tansy, spotted knapweed and absinthe wormwood were conducted in May and June. Additional treatments to the reed canarygrass on the edges of the floodplain. These treatments were intended to slow the invasion of reed canarygrass into the floodplain and streamside areas.

Planting efforts continued in the late spring and fall. 750 one-gallon riparian plants were planted including water birch, pacific ninebark, black cottonwood, willows and elderberry.





C. EXPENDITURES

BLM contributed excavator hours for culvert installation and streambank improvements

Project Expenditures: FY20 Oct 1, 2022- Sept. 30, 2023

	Q1 Oct - Dec	Q2 Jan -	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	\$0	\$0	\$0	\$0	\$0
Travel	\$0	\$0	\$0	\$0	\$0
Supplies	\$1120	\$0	\$519	\$708	\$2347
Equipment	\$1298	\$0	\$3623	\$700	\$5621
Contractual (Honorarium)	\$0	\$0	\$0	\$0	\$0
Permitting	\$0	\$0	\$0	\$0	\$0
Long-term operation and maintenance	\$0	\$0	\$0	\$0	\$0
Monitoring	\$0	\$0	\$0	\$0	\$0
Other (Community Activities)	\$0	\$0	\$0	\$0	\$0
Total Direct Costs	\$2418	\$0	\$4142	\$1408	\$7968
Indirect Costs	\$0	\$0	\$0	\$0	\$0
Total	\$2418	\$0	\$4142	\$1408	\$7968

D. PROJECT PARTNERS

- 1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

Discussions were initiated with US Fish & Wildlife Service (USFWS) representative Elise Brown regarding the Johnson Parcel and funding remaining in USFWS accounts (\$27,785.51). BLM will be looking into possibilities for additional restoration opportunities in the project area and coordinating with USFWS.



**Project Title: *Gut Hnch'mchinmsh - Native Willow
Nursery for Support of Restoration Actions throughout the Restoration
Partnership Project Area***

Project Approval Date: October 24, 2022
Trustee Council Resolution #: 44

Reporting Quarter/FY: Quarter 4/ FY2023-Annual

Partnership Funds Expenditures

Funds Allocated: \$205,462.00
Funds Spent this Quarter: \$0
Funds Spent this Fiscal Year: \$1470.00

A. GENERAL INFORMATION

Project Proponent Name: Eric Hendrickson
Primary Telephone Number: (208)686-8902
Email: ehendrickson@cdatribe-nsn.gov

Project Sponsor: *Coeur d'Alene Tribe*
Primary Telephone Number: (208)686-1800

B. PROGRESS DESCRIPTION

- The Coeur d'Alene Tribe staff provided survey information on potential harvest opportunities for the Tribe and the partnership. Along with mowing of the reed canary grass to keep the rows of willows visible and accessible. Allocations of willow harvest are determined and the numbers will be shared before the 1st week of August. All first come first serve willows are allocated and spoken for before the 30th of August deadline. After the growing season no additional fall survey will be conducted so the partnership can schedule dates and times to maximize their harvest opportunities.

C. EXPENDITURES

- No Supplies were needed to be purchased this quarter.



Quarter 4/ Annual Project Update Form

Project Expenditures: FY20 Oct 1, 2022- Sept. 30, 2023

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	\$0	\$0	\$0	\$0	\$0
Travel	\$0	\$0	\$0	\$0	\$0
Supplies	\$221.88	\$1,248.12	\$0	\$0	\$1,470.00
Equipment	\$0	\$0	\$0	\$0	\$0
Contractual (Honorarium)	\$0	\$0	\$0	\$0	\$0
Permitting	\$0	\$0	\$0	\$0	\$0
Long-term operation and maintenance	\$0	\$0	\$0	\$0	\$0
Monitoring	\$0	\$0	\$0	\$0	\$0
Other (Community Activities)	\$0	\$0	\$0	\$0	\$0
Total Direct Costs	\$221.88	\$1,248.12	\$0	\$0	\$1,470.00
Indirect Costs	\$0	\$0	\$0	\$0	\$0
Total	\$221.88	\$1,248.12	\$0	\$0	\$1,470.00

D. PROJECT PARTNERS

- 1) **RP Technical Staff: Coeur d’Alene Fish and Wildlife Staff.**

E. MEASURES OF SUCCESS

Trustees allotment assuming they receive 60% of the 25%	
Total willows	80% CI

Species	Assessment	Poles	Whips	Poles	Whips
	Date				
Bebb	9/28/2023	602	1574	58	240
Drummond	9/28/2023	712	2136	161	218
Geyer	9/28/2023	449	2522	80	240
Sitka	9/28/2023	255	1723	115	408
Makenzie	9/28/2023	54	2035	29	206
Pacific	9/28/2023	1242	1815	180	178

Trustees range of willow availability assuming 80% confidence interval

Species	Assessment	Poles			Whips			Upper bound
		Lower bound	Estimate	Upper bound	Lower bound	Estimate		
Bebb	9/28/2023	544	602	661	1334	1574	1814	
Drummond	9/28/2023	551	712	874	1918	2136	2354	
Geyer	9/28/2023	369	449	528	2282	2522	2762	
Sitka	9/28/2023	140	255	370	1315	1723	2132	
Makenzie	9/28/2023	25	54	82	1829	2035	2241	
Pacific	9/28/2023	1062	1242	1421	1637	1815	1993	

Project Title: *ul qhesu'lumkhw* (land is good again): Cultural Significant Plant Restoration**Project Approval Date: August 9, 2018****Trustee Council Resolution #: 44****Reporting Quarter/FY: Q4/FY23****Partnership Funds Expenditures****Total Amount Awarded: \$187,770****Partnership Funds Spent this Quarter: \$0.00****Partnership Funds Spent this Fiscal Year: \$27,291.00****A. GENERAL INFORMATION****Project Proponent Name: Gerald I. Green****Primary Telephone Number: 208-686-0312****Email: gerald.green@cdatribe-nsn.gov****Project Sponsor: Coeur d'Alene Tribe****Primary Telephone Number: 208-686-0312****Email: gerald.green@cdatribe-nsn.gov****B. PROGRESS DESCRIPTION**

- 1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.

Plans were made to assign a staff member to pursue the objectives of this Cultural Significant Plant Project. The work of the Hangman Restoration Project has expanded to the point that the Manager cannot devote sufficient time to expanding the distribution of native plants of Coeur d'Alene Tribal Cultural Significance. Planning efforts were initiated to identify someone interested in pursuing Cultural Plant expansion and facilitating harvest and use of those plants. Since this Project efforts were originally seen as complementary to ongoing restoration efforts, little salary was budgeted for planning and organization. At this point, several interns and students have been identified that may be interested in working on this Cultural Significant Plant restoration project as a supplement to educational endeavors.

- 2) Describe any challenges which may have delayed progress this quarter, and how those challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.

Since salaries for this Project are minimal, and the work is often experimental, so it seems that students currently seeking additional education/work opportunities could provide the needed planning and organizational skill to accomplish this Project's objectives. While there are Tribal students and interns interested in this work, most already have commitments. Discussing this Project with the various students in order to fit the Project Objectives with the interest level and available time is an exercise in timing and matching the interests and needs of students/interns with the demands of this Project will require patience and continual discussion and planning. Currently, there are three individual involved in college level study program who could each fulfill the needs of this Project, matching their availability with specific windows of opportunity for plant propagule gathering and out-planting will require continual discussion and negotiation.

C. EXPENDITURES

1) Please describe any unforeseen expenditures.

Efforts during this reporting period were devoted to planning and discussions of how best to achieve Project Objectives.

Project Expenditures: FY20 Oct 1, 2022- Sept. 30, 2023

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	\$0	\$0	\$0	\$0	\$0
Travel	\$0	\$0	\$0	\$0	\$0
Supplies (plants)	\$0	\$0	\$22,293	\$0	\$22,293
Equipment (biochar kilns)	\$0	\$4,998	\$0	\$0	\$4,998
Contractual (Honorarium)	\$0	\$0	\$0	\$0	\$0
Permitting	\$0	\$0	\$0	\$0	\$0
Long-term operation and maintenance	\$0	\$0	\$0	\$0	\$0
Monitoring	\$0	\$0	\$0	\$0	\$0
Other (Community Activities)	\$0	\$0	\$0	\$0	\$0
Total Direct Costs	\$0	\$4,998	\$0	\$0	\$4,998
	\$0				
Indirect Costs	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$4,998	\$22,293	\$0	\$27,291

D. PROJECT PARTNERS

- 1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

During the reporting period, project partners continued with the long-term efforts that are required to restore natural resources diminished across the Hangman Watershed. Hangman Restoration Project technical staff completed beaver surveys and dam reinforcements as well as installed plant protections.



Project Title : *chdelm khwa chatq'ele'et* Part B –
Monitoring and Modeling Coeur d'Alene Lake's Response to Restoration

Project Approval Date: August 9, 2018
Trustee Council Resolution #: 44

Reporting Quarter/FY: Quarter 4/ FY2023-Annual

Partnership Funds Expenditures

Funds Allocated: \$268,668.00
Funds Spent this Quarter: \$24,924
Funds Spent this Fiscal Year: \$48,883.92

A. GENERAL INFORMATION

Project Proponent Name: Dale Chess, Coeur d'Alene Tribe. Natural Resource Department
Primary Telephone Number: 208.686.1803
Email : dale.chess@cdatribe-nsn.gov

Project Sponsor: Coeur d'Alene Tribe
Primary Telephone Number: 208.667.5772
Email: rebecca.stevens@cdatribe-nsn.gov

B. PROGRESS DESCRIPTION

1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.

Lake and River Water Quality Sampling 2023

- Successfully sampled sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison on October 17th and 18th.
- We successfully sampled sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison on April 25.
- We successfully sampled sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison on May 9 and 10.
- We successfully sampled sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison on June 20 and 21.

- Successfully sampled sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison on July 24 and 25th.
- Successfully sampled sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison on August 21th and 22th.
- Successfully sampled sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison on September 25th and 26th.

Other Accomplishments

- Developed the quality assurance project plan (QAPP) for the Coeur d'Alene Lake monitoring project for 2023.
 - Continued data analysis and writing synthesis reports
 - Worked with EPA staff to upload data from this project through the EPA Scribe platform following the Bunker Hill Super Fund Site Data Management Plan.
- 2) Describe any challenges which may have delayed progress this quarter, and how those challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.
- We were not able to sample sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison in November due to a boat mechanical issues
 - We were not able to sample sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison in December due to a combination of low lake elevation and ice conditions on the lake.
 - We were not able to sample sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison in January and February due to ice conditions on the lake.
 - We were not able to sample sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison in March due to a combination of low lake elevation and boat mechanical issues.

C. EXPENDITURES

- 1) Please describe any unforeseen expenditures. *N/A*
- 2) Please describe other cost share or contributing funds. *N/A*

Project Expenditures: FY20 Oct 1, 2022- Sept. 30, 2023

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	\$3,627.01	\$3,283.47	\$17,049.44	\$24,924	\$48,883.92
Travel	\$0	\$0	\$0	\$0	\$0
Supplies	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0	\$0
Contractual (Honorarium)	\$0	\$0	\$0	\$0	\$0
Permitting	\$0	\$0	\$0	\$0	\$0
Long-term operation and maintenance	\$0	\$0	\$0	\$0	\$0
Monitoring	\$0	\$0	\$0	\$0	\$0
Other (Community Activities)	\$0	\$0	\$0	\$0	\$0
Total Direct Costs	\$3,627.01	\$3,283.47	\$17,049.44	\$24,924	\$48,883.92
Indirect Costs (included in sal/fringe)					
Total	\$3,627.01	\$3,283.47	\$17,049.44	\$24,924	\$48,883.92

D. PROJECT PARTNERS

- 1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

E. MEASURES OF SUCCESS – [Annual and Project Close-out reports only]

Describe monitoring efforts (if completed) that measures or evaluates the success and the effectiveness of the restoration project. The success, viability and sustainability of the restoration project should be documented at completion. For example, one of the identified restoration goals for this Solicitation includes restoring wetland habitat. Therefore, restoration projects attempting to restore wetland resources will need to document a long term, quantitative increase in wetland habitat quality and/or corresponding migratory waterfowl use of the restored area.

- 1) Describe measures of success and how each is related to the goals and objectives of the proposed project.
- 2) Describe performance standards for all phases of the restoration project and describe how the project will be certified as complete and successful.

Project Title: Hepton Lake Wetland Restoration Project**Project Approval Date: December 6, 2021****Trustee Council Resolution #: 56****Reporting Quarter/FY: Q4/FY2023-Annual**

Partnership Funds Expenditures

Funds Allocated: \$193,638.00**Funds Spent this Quarter: \$104,162.80****Funds Spent this Fiscal Year: \$145,931.80****A. GENERAL INFORMATION****Project Proponent Name: Angelo Vitale****Primary Telephone Number: (208) 686-6903****Email: angelo.vitale@cdatribe-nsn.gov****Project Sponsor: Coeur d'Alene Tribe****Primary Telephone Number: (208) 686-6903****Email: angelo.vitale@cdatribe-nsn.gov****B. PROGRESS DESCRIPTION**

- 1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.
- 2) Describe any challenges which may have delayed progress this quarter, and how those challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.

Water Management

We encountered difficulties when trying to dewater the construction site following installation of the sheet pile and inflatable coffer dams in early June. We were unable to successfully remove water while operating two 6" trash pumps with a combined capacity of 2500 gpm. Subsequent investigation revealed that the inflatable dam did not properly seal against the substrate and water was passing under the dam. The source of the leak was identified and attempts were made to plug the gap in July. A second dewatering attempt was made following repair of the coffer dam, however, this attempt was also unsuccessful, as the withdrawal of water was matched by infiltration into the construction zone. It is likely that infiltration of ground water and/or surface water was occurring from multiple locations.

Project Management

We concluded that summer time construction would be unsuccessful and decided to advertise

a Request For Proposals (RFP) to identify a construction contractor to complete a winter-time construction of the levee breach plug during low water. The RFP was advertised through the Association of General Contractors and a regional plan room managed by an online advertising agency in Spokane, WA. Sixteen interested contractors attended a mandatory pre-bid meeting that was hosted on September 13. Several site visits to the project were also hosted between Sept 15-21, with no less than 8 contractors attending. Proposals were due on September 29 and we received bids from six contractors. A construction contractor will be selected and notified by October 15.

Following the decision to delay construction until low water conditions this coming winter, we began draining the inflatable coffer dams in anticipation of removing them to allow for drainage of water from Hepton Lake prior to planned winter-time construction. Various materials were purchased to allow fabrication of a hoist system to aid in removal of the coffer dams.

The sheet pile contractor was notified of the change in construction plans and a contract amendment was drafted to modify the scope of work to allow for removal of several pairs of sheets to facilitate dewatering during the lake draw down in fall and early winter, and for replacing the sheets prior to the start of construction. The contract amendment was fully executed and sheets were removed on September 26.

Meanwhile all the structural materials specified in the engineering design for construction of the levee plug have been stockpiled at staging areas near the levee breach. All other supplies and materials needed for construction - including timber mats, filter fabric, culverts, flap gates and screens for culverts, and the manual butterfly valve, flanges and bolts - have also been purchased and staged.

C. EXPENDITURES

- 1) Please describe any unforeseen expenditures.
- 2) Please describe other cost share or contributing funds.

The Tribe contracted with Alta Science and Engineering to provide engineering oversight and geotechnical support during construction of the levee breach repair. As the design engineer of record, this contractor is uniquely positioned to provide engineering support, and assist with timely resolution of issues that may arise during construction of the project. The contract is a time and materials contract not to exceed \$54,765. This contract is being paid with the funds received from the Restoration Partnership.

Cost share funds contributed by other partners during FY23 included: Bonneville Power Administration, totaling \$461,701.89; Bureau of Indian Affairs, totaling \$29,294.49; and NRCS, totaling \$158,779.

Project Expenditures: FY20 Oct 1, 2022- Sept. 30, 2023

	Q1 Oct - Dec	Q2 Jan -	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	\$0	\$0	\$0	\$0	\$0
Travel	\$0	\$0	\$0	\$0	\$0
Supplies	\$41,769.00	\$0	\$0	\$57,191.40	\$98,960.40
Equipment	\$0	\$0	\$0	\$31,987.10	\$31,987.10
Contractual	\$0	\$0	\$0	\$14,984.30	\$14,984.30
Permitting	\$0	\$0	\$0	\$0	\$0
Long-term operation and maintenance	\$0	\$0	\$0	\$0	\$0
Monitoring	\$0	\$0	\$0	\$0	\$0
Other (Community Activities)	\$0	\$0	\$0	\$0	\$0
Total Direct Costs	\$41,769.00	\$0	\$0	\$104,162.80	\$145,931.80
Indirect Costs	\$0	\$0	\$0	\$0	\$0
Total	\$41,769.00	\$0	\$0	\$104,162.80	\$145,931.80

D. PROJECT PARTNERS

1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

The Tribe contracted with Alta Science and Engineering and its subcontractor, STRATA, to provide engineering oversight and geotechnical support during construction of the levee breach repair, beginning in June 2023. Alta and STRATA met with the Tribe to discuss the project status, answer questions, and coordinate a site visit in early July. Alta held an internal kickoff meeting with STRATA and reviewed conditions on the site via photos and documents provided by the Tribe. Alta coordinated with STRATA and met to discuss findings from site visit and geotechnical review. Alta and STRATA prepared memos describing the geotechnical review findings and the dewatering and design recommendations. Alta also met with the CDA Tribe and STRATA to go over the memos. Alta met with the Tribe and STRATA to discuss the potential for a winter construction window given the current difficulties with dewatering and schedule changes. Alta developed and provided design recommendations for a filter diaphragm and support structure for the butterfly valve. Alta reviewed the RFP for a construction contractor and provided comments and revisions to the RFP. Alta posted the RFP to the AGC website. Alta

and STRATA provided engineering support for the pre-bid construction meeting. Alta prepared for and presented the design at the pre-bid construction meeting and helped provide written answers to contractor questions.

E. MEASURES OF SUCCESS – [Annual and Project Close-out reports only]

Describe monitoring efforts (if completed) that measures or evaluates the success and the effectiveness of the restoration project. The success, viability and sustainability of the restoration project should be documented at completion. For example, one of the identified restoration goals for this Solicitation includes restoring wetland habitat. Therefore, restoration projects attempting to restore wetland resources will need to document a long term, quantitative increase in wetland habitat quality and/or corresponding migratory waterfowl use of the restored area.

- 1) Describe measures of success and how each is related to the goals and objectives of the proposed project.
- 2) Describe performance standards for all phases of the restoration project and describe how the project will be certified as complete and successful.

Tribal staff collected data to describe the pre-restoration conditions in Hepton Lake related to: 1) habitat use by waterfowl during the spring migratory season between March and May; 2) distribution and abundance of Tribally significant wetland plant species, including water potato (*Sagittaria latifolia*) and soft-stemmed bulrush (*Scirpus validus*); and 3) ground water elevation.



Sheet pile and inflatable coffer dam installation at the Hepton levee breach (July 2023).



Project Title: Gray's Meadow

Project Approval Date: 8-9-18
Trustee Council Resolution #: 44
Trustee Council Resolution #: 59

Reporting Quarter/FY: Quarter 4 / FY2023-Annual

Partnership Funds Expenditures

Funds Allocated: \$250K Planning; 5.25M construction
Funds Spent this Quarter: \$335,273
Funds Spent this Fiscal Year: \$384,735

A. GENERAL INFORMATION

Project Proponent Name: David Leptich
Primary Telephone Number: 208-769-1414
Email: david.leptich@idfg.idaho.gov

Project Sponsor: Idaho Department of Fish and Game
Primary Telephone Number: 208-769-1414
Email: david.leptich@idfg.idaho.gov

B. PROGRESS DESCRIPTION

- 1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.

Nesting bird surveys continued weekly within the construction footprint through 8/1/23 to comply with the MBTA. Any located nests were marked and monitored through fledging or nest failure. Nest sites were marked off limits to construction personnel/equipment.

IDFG pumped very minimally and intermittently during the last quarter to facilitate construction.

Excavation, dike/access road construction, and island building have been the primary tasks this quarter. This includes placement of wire mesh to block potential wildlife burrowing and limited placement of clean capping materials. Dust control was an almost daily challenge and the contractor has applied >7,000,000 gallons of water to control dust (planning called for 2,000,000). Although we did have a couple of hot windy days that were particularly challenging, we did not receive any complaints from neighbors or TOC users. Excavation, placement of base material, rebar, forming, and concrete pours have begun on some cast in place WCS.



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See attached weekly progress report for the last week in September to get a better sense of work being accomplished and some pictures of the work in progress.

- 2) Describe any challenges which may have delayed progress this quarter, and how those challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.

No challenges resulting in delays occurred this quarter.

C. EXPENDITURES

- 1) Please describe any unforeseen expenditures.

No unanticipated expenditures occurred this quarter.

- 2) Please describe other cost share or contributing funds. EPA/CDA Trust contributed the following cost share funds this year.

Investigation: \$ 25,820
 Design: \$ 421,844
 Construction: \$2,978,247
Total: \$3,425,911

Project Expenditures: FY20 Oct 1, 2021- September 30, 2022

	Q1 Oct - Dec	Q2 Jan -	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe					
Travel					
Supplies	\$4,499		\$3,225		\$7,724
Equipment					
Contractual (Honorarium)			\$32,077	\$333,720	\$365,797
Permitting					
Long-term operation and maintenance	\$105* Pumping Utilities	3505*	\$6,051*	\$1553*	\$11,214
Monitoring					

Other (Community Activities)					
Total Direct Costs	\$4,604	\$3,505	\$41,353	\$335,273	\$19,338.44
Indirect Costs					
Total	\$4,604	\$3,505	\$41,353	\$335,273	\$384,735

D. PROJECT PARTNERS

- 1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

See EPA/CDA Trust cost share above.

E. MEASURES OF SUCCESS – [Annual and Project Close-out reports only]

Describe monitoring efforts (if completed) that measures or evaluates the success and the effectiveness of the restoration project. The success, viability and sustainability of the restoration project should be documented at completion. For example, one of the identified restoration goals for this Solicitation includes restoring wetland habitat. Therefore, restoration projects attempting to restore wetland resources will need to document a long term, quantitative increase in wetland habitat quality and/or corresponding migratory waterfowl use of the restored area.

- 1) Describe measures of success and how each is related to the goals and objectives of the proposed project.

Baseline ecological monitoring/evaluation was completed by ALTA (Montana Wetlands Assessment Method) and IDFG (Wetlands Ecosystem Services Protocol for the United States (WESPUS)) to establish a baseline/benchmark wetlands condition against which to evaluate future condition post remediation/restoration completion. This effort supports the long-term improved wetland habitat/function goals and objectives of this project.

Lamb’s Peak water transfers were redirected from Lamb’s Peak to the CDA River. A water management working group consisting of IDFG and water quality staff from the CDA Tribe and IDEQ was formed to consult and recommend water management strategies that minimize water transfer effects on the CDA River/CDA Lake while still accommodating construction and wetland management needs. Water quality monitoring continues on an as needed basis. All turbidity reading were well below the 50 NTU limit. Together these efforts serve the water quality goals and objectives of the project.

- 2) Describe performance standards for all phases of the restoration project and describe how the project will be certified as complete and successful.



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At this point in the project this amounts to construction management monitoring to ensure the work is executed as designed/contracted and on time line. Professional engineers from Pioneer Technical the EPA/CDA Trust/RP contractor make regular inspection of the work and sign off on as-built and substantial completion documents.



Project Title: Gene Day Pond

Project Approval Date: 5-29-19
Trustee Council Resolution #: 46

Reporting Quarter/FY: Quarter 4 / FY2023-Annual

Partnership Funds Expenditures

Funds Allocated: \$25,000
Funds Spent this Quarter: Approximately \$7,500
Funds Spent this Fiscal Year: Approximately \$7,500

A. GENERAL INFORMATION

Project Proponent Name: Chris Pfhal
Primary Telephone Number: 208-753-3812
Email: sveng@hughes.net

Project Sponsor: Idaho Department of Fish and Game
Primary Telephone Number: 208-769-1414
Email: david.leptich@idfg.idaho.gov

B. PROGRESS DESCRIPTION

- 1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.

The parking area has been graveled, and traffic control boulders placed at the perimeter. The sign kiosk has been constructed and installed but we are waiting on the sign shop for completion of the sign itself so it can be installed. Additionally, the steel port-a-potty containment structure has been fabricated but not placed.

- 2) Describe any challenges which may have delayed progress this quarter, and how those challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.

We had a BLM related administrative delay to pouring the concrete pad and installing the Port-a-potty containment structure. Project completion is delayed until spring 2024 when those tasks will be completed and the project finally closed out.

The State of Idaho Controllers office implemented a new state-wide financial management



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system on July 1st of 2023. The roll out has been rough to say the least and field staff currently don't have access to expenditure and balances ledgers. IDFG will provide a more accurate project expenditure update in a future report when these data become available.

C. EXPENDITURES

- 1) Please describe any unforeseen expenditures. No unforeseen expenditures this quarter/year.

- 2) Please describe other cost share or contributing funds. IDFG provided in-kind labor to fabricate a Gene Day Pond Kiosk and porta-potty housing.

Project Expenditures: FY23 Oct 1, 2022- September 30, 2023

	Q1 Oct - Dec	Q2 Jan -	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe					\$0.00
Travel					\$0.00
Supplies				~\$7,500	~\$7,500
Equipment					\$0.00
Contractual (Honorarium)					\$0.00
Permitting					\$0.00
Long-term operation and maintenance					\$0.00
Monitoring					\$0.00
Other (Community Activities)					\$0.00
Total Direct Costs					~ \$7,500
Indirect Costs					\$0.00
Total					~ \$7,500

D. PROJECT PARTNERS

- 1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

IDPR, BLM and ITD are collaborators on this project with portions of parking and restroom infrastructure developed on their adjoining ownership.

E. MEASURES OF SUCCESS – [Annual and Project Close-out reports only]

Describe monitoring efforts (if completed) that measures or evaluates the success and the effectiveness of the restoration project. The success, viability and sustainability of the restoration project should be documented at completion. For example, one of the identified restoration goals for this Solicitation includes restoring wetland habitat. Therefore, restoration projects attempting to restore wetland resources will need to document a long term, quantitative increase in wetland habitat quality and/or corresponding migratory waterfowl use of the restored area.

- 1) Describe measures of success and how each is related to the goals and objectives of the proposed project.

This project is characterized as a human use project related to an ecological restoration project (Gene Day Pond). The project goal is safe public access to restored fishing opportunity and reduced risk of recreational exposure to metals contamination. Gene Day Pond experiences regular public use as a family and ADA friendly urban fishery. Completion of infrastructure projects as designed will satisfy the project goal and be deemed successful. Completed infrastructure (new parking facilities) are already being used.

- 2) Describe performance standards for all phases of the restoration project and describe how the project will be certified as complete and successful.

Construction performance is verified through transmittal review and regular site inspections by IDFG construction managers for conformance to project technical specifications. Because of the nature of this project infrastructure development in conformance with design standards is considered successful.



Project Title: Rehart Conservation Easement

Project Approval Date: 12-21-20

Trustee Council Resolution #: TBD – Approved funding is contingent on TBD acceptable CE

Reporting Quarter/FY: Quarter 4 / FY2023-Annual

Partnership Funds Expenditures

Funds Allocated: \$600,000

Funds Spent this Quarter: \$0

Funds Spent this Fiscal Year: \$0

A. GENERAL INFORMATION

Project Proponent Name: Andy Dux

Primary Telephone Number: 208-769-1414

Email: andy.dux@idfg.idaho.gov

Project Sponsor: Idaho Department of Fish and Game

Primary Telephone Number: 208-769-1414

Email: david.leptich@idfg.idaho.gov

B. PROGRESS DESCRIPTION

- 1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.

Jordan Rehart failed to sign the good faith letter of intent to move forward with the CE by the prescribed deadline. Palouse Land Trust became frustrated with the pace of the project and Jordan's tentative approach and has pulled out of the project. Palouse Land Trust has had some recent staff changes and after follow-up conversations with Jordan it seems that there may have been a personality/style conflict more than a substantial project conflict. Jordan continues to show interest. Inland Northwest Land Conservancy was willing to take on the Rehart Project and we are in the process of regrouping and continuing to move this project forward.

- 2) Describe any challenges which may have delayed progress this quarter, and how those challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.



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As described above, the loss of the Palouse Land Trust as a project partner was a temporal and administrative setback but the project remains viable.

C. EXPENDITURES

- 1) Please describe any unforeseen expenditures. No unexpected expenditures.
- 2) Please describe other cost share or contributing funds.

AVISTA’s real estate contractor continues to facilitate negotiations with the family and contractor scheduling.

Project Expenditures: FY23 Oct 1, 2022- September 30, 2023

	Q1 Oct - Dec	Q2 Jan -	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe					\$0.00
Travel					\$0.00
Supplies					\$0.00
Equipment					\$0.00
Contractual (Honorarium)					\$0.00
Permitting					\$0.00
Long-term operation and maintenance					\$0.00
Monitoring					\$0.00
Other (Community Activities)					\$0.00
Total Direct Costs					\$0.00
Indirect Costs					\$0.00
Total					\$0.00

D. PROJECT PARTNERS

- 1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

AVISTA real estate staff continue to assist with negotiations and administrative oversight. Palouse Land Trust has withdrawn from the project as a partner. Inland Northwest Land Conservancy has joined the project as a partner.

E. MEASURES OF SUCCESS – [Annual and Project Close-out reports only]

Describe monitoring efforts (if completed) that measures or evaluates the success and the effectiveness of the restoration project. The success, viability and sustainability of the restoration project should be documented at completion. For example, one of the identified restoration goals for this Solicitation includes restoring wetland habitat. Therefore, restoration projects attempting to restore wetland resources will need to document a long term, quantitative increase in wetland habitat quality and/or corresponding migratory waterfowl use of the restored area.

- 1) Describe measures of success and how each is related to the goals and objectives of the proposed project.

Permanent protection of the natural floodplain communities and cold water hyporheic flow.

- 2) Describe performance standards for all phases of the restoration project and describe how the project will be certified as complete and successful.

A signed and monitored conservation easement providing specific protections and agreeable to all parties is viewed as successful.



Project Title: Canyon Marsh Agriculture to Wetland
Conservation Easement

Project Approval Date: August 9, 2018 and May 29, 2019

Trustee Council Resolution #: 44 (Walker-Hass & Wilhelm-Miner) and 46 (Cole)

Reporting Quarter/FY: Quarter 4/ FY2023-Annual

Partnership Funds Expenditures

Funds Allocated: \$801,480 (44) and \$372,400 (46)

Funds Spent this Quarter: \$0

Funds Spent this Fiscal Year: \$18,310

A. GENERAL INFORMATION

Project Proponent Name: Christy Johnson-Hughes

Primary Telephone Number: 208-513-4984

Email: christy_johnsonhughes@fws.gov

Project Sponsor: U.S. Fish and Wildlife Service (FWS)

Primary Telephone Number: 208-513-4984

Email: christy_johnsonhughes@fws.gov

B. PROGRESS DESCRIPTION

- 1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.

FWS has \$83,221.70 remaining funds (from TR46) allotted for Canyon Marsh, which eventually can be used to set up a cooperative agreement with Ducks Unlimited (DU), once collaboration with EPA and other partners on remediation strategies is conducted (anticipated to start early 2024). The scope of work for this proposal will be to collect topographic, hydrologic, and soil agronomic data. Through the cooperative agreement, DU will work collaboratively with project partners to develop a conceptual wetland restoration plan that will serve as the idealized vision for future remediation/restoration design and implementation. Another important goal is that any data that DU collects should complement (and not duplicate) any data that EPA, the Coeur d'Alene Trust, or other partners collect for remedial investigations.



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- 2) Describe any challenges which may have delayed progress this quarter, and how those challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.

The private landowners in Canyon Marsh continue to express concern about the leaky Fourth of July Creek culverts and failing pumping infrastructure. These conditions were also observed by FWS staff during site visits in 2023. The challenge to find/apply for funding to replace the culverts and infrastructure continued in 2023. FWS staff continues to support East Side Highway District (ES-HD) with this by preparing a project funding application for Bi-Partisan Infrastructure Law/National Fish Passage funding for FY24. Recent developments (in FY24) on funding applications for this project will be reported upon in the FY24/Q1 report.

Canyon Marsh remains on EPA and the Coeur d’Alene Trust’s 10-year remediation schedule, with site investigations anticipated to start in 2028. Therefore, the necessity of fixing the failing culverts along Fourth of July Creek are utmost priority, to reduce risk of lead recontamination into Canyon Marsh (prior to remediation).

C. EXPENDITURES

- 1) Please describe any unforeseen expenditures.

n/a

Project Expenditures: FY23 Oct 1, 2022- Sept. 30, 2023

Budget Category	Q1	Q2	Q3	Q4	Total
Salaries/Fringe					
Travel					
Supplies					
Equipment					
Contractual	\$18,310				\$18,310
Other					
Total Direct Costs					



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Indirect Costs					
Total	\$18,310				\$18,310

2) Please describe other cost share or contributing funds.

The PFW program had previously committed \$10,500 (~in 2022) to be used sometime in 2023 to patch a rotted intake pipe on one of two 36-inch pumps to improve pumping efficiency. This work was completed in FY23/Q4.

D. PROJECT PARTNERS

1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

Throughout FY23, FWS continued to engage with ES-HD, DU, IDFG, and other partners to develop a project plan to replace the failing culverts, considering various partner objectives (i.e., road maintenance, managing water levels for agricultural land use, and to facilitate future remediation and restoration in Canyon Marsh). This was a continuation of the project work started in FY22. Note: FWS asked ES-HD to update cost estimates for replacing the culverts, flap gates, and to help find an engineer or supplier who can provide an estimate for replacing the head gates, recognizing ES-HD will not be responsible for head gates. Updates on this task will be provided in subsequent FY24 quarterly reports.

E. MEASURES OF SUCCESS – [Annual and Project Close-out reports only]

Describe monitoring efforts (if completed) that measures or evaluates the success and the effectiveness of the restoration project. The success, viability and sustainability of the restoration project should be documented at completion. For example, one of the identified restoration goals for this Solicitation includes restoring wetland habitat. Therefore, restoration projects attempting to restore wetland resources will need to document a long term, quantitative increase in wetland habitat quality and/or corresponding migratory waterfowl use of the restored area.

1) Describe measures of success and how each is related to the goals and objectives of the proposed project.

Securing the Walker-Hass, Wilhelm-Miner, and Cole conservation easements was the first step towards ensuring future opportunities for remedial and restoration actions that enhance clean feeding habitat for waterfowl and other wetland dependent species in Canyon Marsh. FWS continues to work with neighboring landowners to discuss conservation options, which could potentially expand the project footprint. Solidifying landowner commitments to conservation in Canyon Marsh is a major accomplishment, as this area may be one of the most important to remediate and restore in the entire lower basin due to bird use, size, and geographic location in the basin.

INLC resource reports for all three easements provide information on the baseline conditions of the properties prior to remedial and restoration actions that may be useful for future condition comparisons.

The FWS conducts annual waterfowl surveys at Canyon Marsh as part of EPA's Basin Environmental Monitoring Plan (BEMP); waterfowl use could be compared pre and post remedial/restoration to evaluate project success and inform adaptive management.

- 2) Describe performance standards for all phases of the restoration project and describe how the project will be certified as complete and successful.

The primary objective of the initial proposals for Canyon Marsh (TR 44 & 46) has been met and included conserving 419 acres of Tier 1 wetland that can be converted to clean habitat for waterfowl and other wetland dependent wildlife. Opportunities to conserve agricultural lands that may be converted to clean wetland habitat are limited within the lower Coeur d'Alene River Basin. The three easements secured ensure future opportunities for remedial and restoration actions in high priority conservation areas within the lower Basin.

FWS is working with project partners to meet the second objective, which is to collect feasibility information to determine if clean feeding habitat can be established in the interim until the full project footprint is realized and remedial actions are implemented. FWS collected soil samples in Sep/Oct 2022 on the Cochran's property (landowner in Canyon Marsh) and anticipates having lead analyses completed in early 2024. The results of the soil analysis will inform the option to draw down water levels during spring migration to attract dabbling waterfowl to clean feeding habitat.



Project Title: Gleason's Marsh Agriculture to Wetland Conservation Easement

Project Approval Date: August 9, 2018
Trustee Council Resolution #: 44

Reporting Quarter/FY: Quarter 4/ FY2023-Annual

Partnership Funds Expenditures

Funds Allocated: \$656,140
Funds Spent this Quarter: \$0
Funds Spent this Fiscal Year: \$9,000

A. GENERAL INFORMATION

Project Proponent Name: Christy Johnson-Hughes
Primary Telephone Number: 208-513-4984
Email: christy_johnsonhughes@fws.gov

Project Sponsor: U.S. Fish and Wildlife Service (FWS)
Primary Telephone Number: 208-513-4984
Email: christy_johnsonhughes@fws.gov

B. PROGRESS DESCRIPTION

- 1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.

In FY23 Q1, Inland Northwest Land Conservancy (INLC) drew down \$9,000, which was for developing the baseline resource report, as well as in-directs for administering terms of the easement. Later in December 2022, FWS staff electronically received the baseline report for Gleason's (prepared by INLC).

In FY23 Q4, INLC conducted their annual monitoring of the Gleason's conservation easement. Their final report is pending completion.

FWS has \$84,758.68 remaining funds allotted for Gleason's (from TR44), which eventually can be used to set up a cooperative agreement with Ducks Unlimited (DU), once collaboration with EPA and other partners on remediation strategies is conducted (anticipated to start early 2024). The scope of work for this proposal will be to collect



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topographic, hydrologic, and soil agronomic data. Through the cooperative agreement, DU will work collaboratively with project partners to develop a conceptual wetland restoration plan that will serve as the idealized vision for future remediation/restoration design and implementation. Another important goal is that any data that DU collects should compliment (and not duplicate) any data that EPA, the Coeur d’Alene Trust, or other partners collect for remedial investigations.

- 2) Describe any challenges which may have delayed progress this quarter, and how those challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.

In FY23 Q1, FWS, EPA, the Coeur d’Alene Trust, IDFG, and Ducks Unlimited (DU) met and discussed the upcoming remediation and restoration strategies for Gleason’s. Through these discussions and considering that EPA is already conducting remediation investigations (for remediation to start around 2025 or 2026), it was informally decided to temporarily wait on conducting interim restoration/data collection during 2023. Thus, the challenge of meshing remediation and restoration, data collection, and project implementation will continue to be addressed when EPA, FWS, the Coeur d’Alene Trust, and other partners strive to work in a unified way. FWS anticipates coordinating with EPA, the Coeur d’Alene Trust, and other partners to increase collaborative discussions in early 2024.

C. EXPENDITURES

- 1) Please describe any unforeseen expenditures.
n/a

Project Expenditures: FY23 Oct 1, 2022- Sept. 30, 2023

Budget Category	Q1 Oct- Dec	Q2 Jan-Mar	Q3 Apr-June	Q4 July-Sept	Annual
Salaries/Fringe					
Travel					
Supplies					
Equipment					
Contractual	\$9,000				\$9,000
Other					

Total Direct Costs					
Indirect Costs					
Total	\$9,000				\$9,000

2) Please describe other cost share or contributing funds.

N/A

D. PROJECT PARTNERS

1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

E. MEASURES OF SUCCESS – [Annual and Project Close-out reports only]

Describe monitoring efforts (if completed) that measures or evaluates the success and the effectiveness of the restoration project. The success, viability and sustainability of the restoration project should be documented at completion. For example, one of the identified restoration goals for this Solicitation includes restoring wetland habitat. Therefore, restoration projects attempting to restore wetland resources will need to document a long term, quantitative increase in wetland habitat quality and/or corresponding migratory waterfowl use of the restored area.

1) Describe measures of success and how each is related to the goals and objectives of the proposed project.

Securing Gleason’s conservation easement was the first step towards ensuring future opportunities for remedial and restoration actions that enhance clean feeding habitat for waterfowl and other wetland dependent species on this tract of land. The FWS conducts waterfowl surveys at Gleason’s Marsh (as part of EPA’s Basin Environmental Monitoring Program) and waterfowl use could be compared for pre and post remedial/restoration conditions.

INLC resource report for Gleason’s conservation easement provides information on the baseline conditions of the property prior to remedial and restoration actions that may be

useful for future condition comparisons.

- 2) Describe performance standards for all phases of the restoration project and describe how the project will be certified as complete and successful.

The primary objective of the initial proposal for Gleason's (TR44) has been met and included conserving 252 acres of Tier 1 wetland that can be converted to clean habitat for waterfowl and other wetland dependent wildlife. Gleason's Marsh is regularly used during spring migration by tundra swan and other waterfowl as documented by FWS waterfowl surveys (2005-2022). After remediation, water level and vegetation management at Gleason's may help to attract waterfowl and reduce exposure in an area adjacent to other regularly used and contaminated wetlands (Strobl and Lane Marsh).

FWS is working with project partners to meet the second objective, which is to collect feasibility information to help determine future remedial and restoration options.

Project Title: Lake Creek Watershed Restoration**Project Approval Date: 1/11/20****Trustee Council Resolution #: 52****Reporting Quarter/FY: Q4/FY2023-Annual****Partnership Funds Expenditures****Funds Allocated: \$615,951****Funds Spent this Quarter: \$21,943.87****Funds Spent this Fiscal Year: \$58,681.93****A. GENERAL INFORMATION****Project Proponent Name: Angelo Vitale****Primary Telephone Number: (208) 686-6903****Email: angelo.vitale@cdatribe-nsn.gov****Project Sponsor: Coeur d'Alene Tribe****Primary Telephone Number: (208) 686-6903****Email: angelo.vitale@cdatribe-nsn.gov****B. PROGRESS DESCRIPTION**

- 1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.
- 2) Describe any challenges which may have delayed progress this quarter, and how those challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.
 - Completed final design for channel restoration on multiple properties in upper Lake Creek. Met with private landowner to review design objectives and expected outcomes. The design creates channel grade and profiles within the range of historical conditions when beaver was a predominant factor in shaping the valley bottom landscape (see *Table below*). The general effect will be to improve the hydroperiod for wetland plant species and to increase the capacity for long-term water storage in the floodplain soils with potential to increase base stream flow.
 - Submitted CWA Section 404 permit application to USACE. A cultural resource inventory (in compliance with NHPA Section 106 requirements) was completed on Lake Creek properties that have been targeted for restoration in 2023 and 2024. The final report of

findings was submitted to the THPO for concurrence and clearance for construction. All permits and project clearances were received by August 1, 2023.

Goals, objectives and design criteria for restoration project in upper Lake Creek.

Goals	Objectives	Design criteria
Wetlands – provide conditions supporting diverse plant communities	Establish ≥ 5 acres of deciduous trees/shrubs in floodplain habitats upstream of Burton Rd adjacent to 583m of channel	Min. 2.0' between riffle crest and valley bottom elevation
Fish – provide diverse instream habitats and cold water refugia	Provide cold water ($\leq 16^{\circ}\text{C}$ max) refugia across 500 m of channel upstream of Burton Rd	Residual pool depth > 1.0 m; Instream LWD loading > 6.0 $\text{m}^3/100\text{m}$
Ground Water - maximize ground water storage	Floodplain engagement at annual return interval flood; Emulate natural channel patterns	Riffle capacity $\leq 51\text{cfs}$; Riffle spacing = $100'$ (range 54-158'); Slope = 0.0046

- Materials needed for construction of the project design, including 30 MBF of large wood and 410 tons of stream gravels, were stockpiled on site in late August. Restoration treatments were completed for 583 m of channel and 4.2 hectares of floodplain wetlands during September 2023. The channel was partially filled within the existing alignment so the creek will flood the valley bottom on a more frequent basis, and keep the valley bottom wetter for longer periods. To minimize project costs and disturbance during construction, the channel bottom was lifted by filling the channel at discrete intervals coinciding with locations that would naturally be shallow riffles. The pools between these riffles were not filled and remain deep (> 1.0 m) to provide diverse habitats and cold water refugia until existing basin sediment loads slowly fill them. Large wood was placed throughout the channel profile to provide grade control, instream cover for fish, increase lateral roughness where needed, create banks and maintain channel planform until hydric plant communities become fully established. Individual pieces of large wood, typically measuring 16' long x 10-15" diameter, and aggregates of multiple pieces were placed on the floodplain and in the channel. Some pieces of wood placed in the channel were partially buried in the bed or banks to serve as anchor points for collecting smaller debris. Excavation to enhance planform (i.e., increase channel length) was completed in one location where channel incision had resulted in disconnection of 80 m of channel. Large wood and gravels were added to create habitats suitable for spawning by cutthroat trout.
- The stream buffer, where woody vegetation is generally lacking, will be planted over several years. A small test plot encompassing an area on the west side of the channel was previously planted in spring 2022 utilizing a total of 50 cottonwood and aspen trees. A second treatment utilizing 300 cottonwood and aspen (5-gallon containers) will be planted in October 2023 adjacent to approximately 583 feet of channel on both sides of

the stream. Also during fall 2023, up to 3000 willows cuttings will be planted in transects generally oriented perpendicular to the valley and located on both sides of the channel (refer to site map for general locations).

C. EXPENDITURES

- 1) Please describe any unforeseen expenditures.
- 2) Please describe other cost share or contributing funds.

- No unforeseen expenditures to report. Cost share for project implementation, monitoring and purchase of capital equipment used in construction of restoration projects was received from Bonneville Power Administration exceeding \$451,830 during FY2023.

Project Expenditures: FY20 Oct 1, 2022- Sept. 30, 2023

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	\$5,650.98	\$3,300.56	\$2,184.31	\$6,732.69	\$17,868.54
Travel	\$0	\$0	\$0	\$0	\$0
Supplies	\$0	\$0	\$0	\$10,950.00	\$10,950.00
Equipment	\$0	\$0	\$0	\$0	\$0
Contractual	\$1,106.25	\$0	\$19,793.75	\$1,125.00	\$22,025.00
Permitting	\$0	\$0	\$0	\$0	\$0
Long-term operation and maintenance	\$0	\$0	\$0	\$0	\$0
Monitoring	\$0	\$0	\$0	\$0	\$0
Other (Community Activities)	\$0	\$0	\$0	\$0	\$0
Total Direct Costs	\$6,757.23	\$3,300.56	\$21,978.06	\$17,682.69	\$50,843.54
Indirect Costs	\$2,442.05	\$1,338.17	\$921.99	\$3,136.18	\$7,838.39
Total	\$9,199.28	\$4,638.73	\$22,900.05	\$21,943.87	\$58,681.93

D. PROJECT PARTNERS

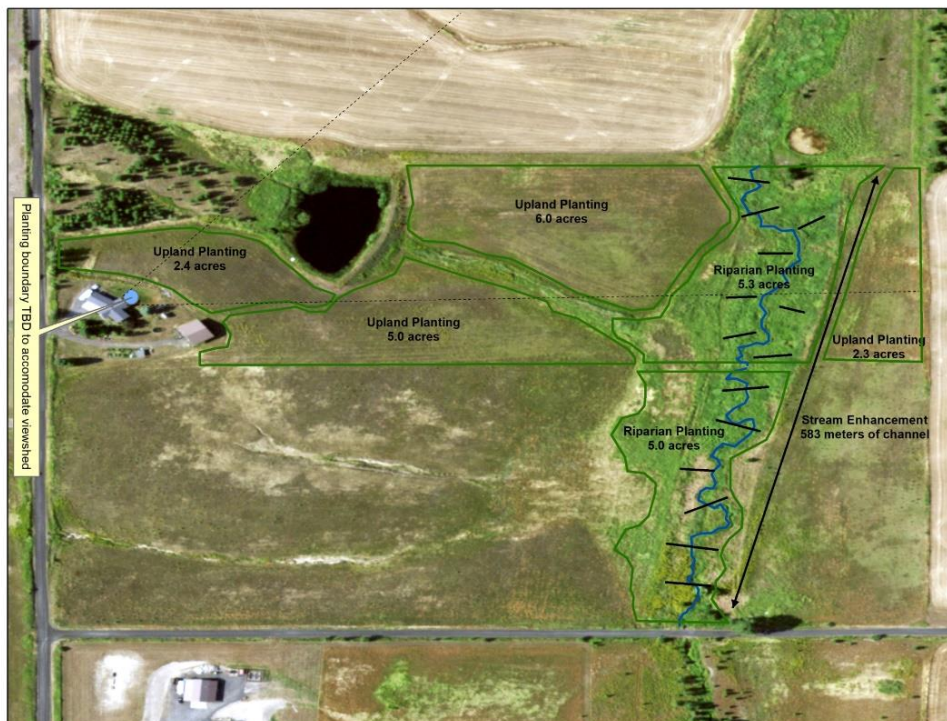
- 1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

- Worked with Clemson University PI, graduate students and tribal interns to install monitoring infrastructure at several project sites (control/treatment) to collect pre-restoration data. Monitoring infrastructure included temperature and conductivity loggers, stream staff gauges, ground water monitoring wells, precipitation gauges and wildlife cameras. Vegetation transects were surveyed to describe plant community composition and species abundance.

E. MEASURES OF SUCCESS – [Annual and Project Close-out reports only]

Describe monitoring efforts (if completed) that measures or evaluates the success and the effectiveness of the restoration project. The success, viability and sustainability of the restoration project should be documented at completion. For example, one of the identified restoration goals for this Solicitation includes restoring wetland habitat. Therefore, restoration projects attempting to restore wetland resources will need to document a long term, quantitative increase in wetland habitat quality and/or corresponding migratory waterfowl use of the restored area.

- 1) Describe measures of success and how each is related to the goals and objectives of the proposed project.
- 2) Describe performance standards for all phases of the restoration project and describe how the project will be certified as complete and successful.
 - Monitoring efforts focused on collection of baseline data at treatment and control sites prior to restoration. Analysis of data was not completed during this performance period.



Restoration prescription for upland, riparian and stream habitats in the upper Lake Creek watershed.



All stream wood additions were completed using a Kubota KX057 excavator equipped with a rotating grapple.

Project Title:**Project Approval Date: 1/11/2020****Trustee Council Resolution #: 52****Reporting Quarter/FY: Quarter 4 – FY 2023 (July 1, 2023 – September 30, 2023)****Partnership Funds Expenditures****Total Amount Awarded: \$3,808,450.00****Partnership Funds Spent this Quarter: \$ 90,756.65****Partnership Funds Spent this Fiscal Year: \$ 460,019.26****A. GENERAL INFORMATION****Project Proponent Name: Idaho Forest Group – Reid Ahlf****Primary Telephone Number: (208) 762-2969****Email: rahlf@ifg.com****Project Sponsor: Idaho Department of Environmental Quality****Primary Telephone Number: (208) 769-1422****Email: robert.steed@deq.idaho.gov****B. PROGRESS DESCRIPTION**

- 1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.

Conservation Easement:**Construction:**

J&P Idaho Services finished delivering wood for the Phase 1 project areas in early July. In totality they delivered 1,885 logs, of which all but 220 were harvested off adjacent IFG lands. The extra 220 were donated from IFG's mills. Due to ongoing difficulties finding a nearby wood supply to purchase for the project, all the log value was donated from IFG. This value of this match amount is still being calculated, but it is the primary reason why this project is wrapping up with a significant surplus of funds remaining.

AquaTerra started construction for the Phase 1 project area (about 4 miles) on July 10th, and completed work in the first week of October. The consultant, InterFluve, was present for construction oversight throughout the project implementation. Due to the heavy bedload moving through the Prichard system each year, many construction areas looked very different than they had a year ago when the design was created. This led to InterFluve moving a number of structures to a more fitting nearby location. At completion,

about 82 LWD (large wood debris) structures were built and the berm near the Eagle Creek confluence was removed. In the image below you can see the upstream most project area (area 4) with a number of structures constructed.



During construction nearly 5,000 willow stakes were embedded within structures and in trenches throughout the project area. The majority of these willows came from the Coeur d'Alene Tribe's willow farm and one species, sandbar willow, were cut from the IFG property below the project area. The willows from the farm were held in cold storage in St. Maries from the time of cutting until planting. The willows cut onsite were cut during construction, leaves were removed, and they were soaked for up to 14 days previous to planting. All work was evaluated and accepted by InterFluve. AquaTerra proved to be masters of turbidity management as there were no incidents of turbidity exceedances during construction. As you can see in the picture below from the topmost project area, beavers were quick to jump onto the construction bandwagon, building full channel spanning dams off the end of existing structures.



Invasive Species Management: In early- October, IFG contracted an applicator to treat stands of Bohemian knotweed in the Prichard project area. This will be the second application of herbicide on most of these clumps of knotweed.

Plants: At the end of construction, all the potted plants were delivered to the project area and the planting contractor, Habitat Works, began planting that day. The timing couldn't have worked out better because temperatures cooled down dramatically and rain came in right at the start of planting. The contractor planted nearly 4,000 16" tublings of a diversity of upland and riparian species. They also seeded a little over 6 areas of riparian and upland areas.

Monitoring: The Phase 1 project area is an example of Process Based Restoration which means that natural environmental processes catalyze the benefit of the construction. Therefore many of the physical goals of the project will not be fully recognized until after a few spring runoffs or flood events. Process based restoration is becoming a highly regarded style of restoration and it is being used more and more in the restoration world, but the entire stream restoration community is struggling with developing methods to adequately monitor the impacts and benefits of this style of restoration projects. TU developed a contract with InterFluve to complete monitoring on the Phase 1 project area to try to capture a more complete image of impacts and benefits of this project in

addition to the standard monitoring that will be completed as part of the BURP program and through IDFG fish counts. The InterFluve monitoring plan uses aerial imagery from drone flights to analyze changes to vegetation, changes to bars and islands, habitat features (pools, riffles, off channel habitat) changes to the structures themselves, and more. This desktop analysis is then field verified. The current monitoring contract included development of the plan, pre-project monitoring and year 1 post-construction monitoring, and a report summarizing these monitoring events. IFG flew a post construction drone flight to document this and to use for post-construction monitoring.

- 2) Describe any challenges which may have delayed progress this quarter, and how those challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.

There were no noteworthy delays to this project. The project implementation timeline is right on track from our 2021 proposal. There have been some small challenges, but nothing major.

- The vertical log driver attachment required for the construction of the structures was new to this contractor and there was a learning curve involved in using this sensitive piece of equipment, but by mid-construction, AquaTerra had it pretty dialed in and was able to complete the project about two weeks later than originally predicted. This did not create any need for changes of contracts or anything.
- Willow stakes were probably the biggest challenge of this project. Ideally we would have harvested and planted all stakes during the fall dormancy, but that was not possible because the project area was spread out over such a big linear area and the stakes were embedded in structures or in trenches which all required the use of equipment. This all required a lot of coordination to pick up the stakes, soak them for long enough, and get them in fast enough every two weeks. And our order of Sandbar willow stakes to Plants of the Wild went unfilled so we needed to harvest those mid-summer which is not ideal, but they seem to be doing decently well from preliminary analysis. It all worked out and nothing was delayed, but ideally there will be an alternative approach in future design.
- As mentioned earlier, Prichard Creek moves a lot of cobble each runoff event which seems to noticeably change the channel each year. This led InterFluve to need to adjust some of the structure locations to fit the channel as it was this summer. This did not change the number of structures or permit any authorizations. Interfluve is currently drawing up as-builts to reflect what actually occurred on the ground.

C. EXPENDITURES

- 1) Please describe any unforeseen expenditures.

There have been no unforeseen expenditures this year.

- 2) Please describe other cost share or contributing funds.

For this fiscal year, IFG has contributed \$44,654.50 in employee salary and mileage. There are currently a number of cost share funds are still be accounted for including the value of the conservation easement, the value of the donated logs, the cost of the appraisal, and more. These

should be reported in the next annual report.

Project Expenditures:

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	\$14,827.97	\$2,497.80	\$3,028.97	\$5,403.57	\$25,758.31
Travel	\$1,098.24	\$438.76	\$0	\$460.52	\$1,997.52
Supplies	\$219.74	\$0	\$0	\$120.93	\$340.67
Equipment	\$0	\$0	\$0	\$0	\$0
Contractual (Honorarium)	\$247,765.44	\$0	\$86,308.50	\$73,974.90	\$408,048.84
Permitting	\$0	\$0	\$0	\$0	\$0
Long-term operation and maintenance	\$0	\$0	\$0	\$0	\$0
Monitoring	\$0	\$0	\$0	\$0	\$0
Other (Community Activities)	\$0	\$0	\$0	\$0	\$0
Total Direct Costs	\$0	\$0	\$0	\$0	\$0
Indirect Costs	\$9,662.31	\$406.42	\$3,008.47	\$10,796.73	\$23,873.93
Total	\$273,573.70	\$3,342.98	\$92,345.94	\$90,756.65	\$460,019.26

D. PROJECT PARTNERS

- 1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

AquaTerra joined the team this winter in contract, but they showed up in person to implement construction this summer. There were no other new project partners.

E. MEASURES OF SUCCESS – [Annual and Project Close-out reports only]

Describe monitoring efforts (if completed) that measures or evaluates the success and the effectiveness of the restoration project. The success, viability and sustainability of the restoration

project should be documented at completion. For example, one of the identified restoration goals for this Solicitation includes restoring wetland habitat. Therefore, restoration projects attempting to restore wetland resources will need to document a long term, quantitative increase in wetland habitat quality and/or corresponding migratory waterfowl use of the restored area.

- 1) Describe measures of success and how each is related to the goals and objectives of the proposed project.

In development of the Scope of Work for the Prichard Creek Restoration Project there were five broad goals defined for the project.

- 1. Protect: Ensure long-term protection of natural resources and restoration investments.**
 - Over the course of this summer, the appraisal company is aiming to complete the appraisal and conservation easement valuation report by the end of October. The conservation easement should be signed by the end of the year so that IFG can gain tax benefit in 2023.
- 2. Connect: Improve connectivity and aquatic organism passage in migratory corridors for westslope cutthroat trout and other aquatic life.**
 - The goals for this Phase 1 construction area did not include addressing subsurface flows, but it does have goals of creating more cover, pools and vegetation that will in time support a channel that is more conducive to fish use and migration. As explained earlier the majority of these benefits may take a number of runoff events before they reach their full potential, but there were increases in pools, cover and complexity even at the end of construction.
- 3. Restore: Establish functional stream channels and floodplains to provide high quality, complex habitats and water quality that fully supports cold water aquatic life.**
 - The completion of Phase 1 construction has and will continue to achieve this goal for the bottom four miles of the Prichard Restoration project area. The berm removal and LWD structures will increase habitat diversity with more pools; increase LWD and cover; reconnect with off channel areas; encourage interaction with the floodplain, and stimulate more beaver activity in the channel. This project will also improve water quality by sorting sediments allowing some of the small sediments to be held onto in floodplain as opposed to washing downstream and into the NF CDA. This also will allow for vegetation to take better root creating shade and stabilizing banks.
- 4. Enhance Communities: Improve economic vitality, recreational value and educational opportunity for the local communities.**
 - All of the contractors that were employed on this project were from the Inland Northwest, and the logging and hauling contractor is from Shoshone County. Plants and seed were purchased nearby, the consultants and the construction contractor rented their rooms for the summer from Shoshone County businesses, and the contractors frequented local establishments for food and other supplies.
 - This project aims to increase the trout population and wildlife habitat in Prichard Creek which will have benefit for anglers and other sportspeople.

- The Conservation Easement will allow for public daytime access to the whole project area which will have a huge recreational value for the local and tourist community. It is hoped that this will also serve as a location used for school aged, collegiate, and adult educational events.

5. Collaborate: Collaborate successfully among diverse private companies, public entities, and non-governmental organizations.

- Construction of project involved many different partners. Over the course of the summer TU (including Cathy Gidley, Erin Plue and a contract Project Manager, Blue Otter Env.) and IFG were on the ground most days monitoring turbidity, moving fish, coordinating willow planting, and supporting the contractors. J&P Idaho Services, InterFluve, AquaTerra, and Habitat Works were the contractors that were on the job throughout the summer. We had representatives from IDFG, IDWR, DEQ, BLM, and the NF Watershed Advisory Group visit the site over the summer. The project implementation required consistent collaboration between partners. This project has had so many partners in its creation and implementation. It has been a truly successful collaboration of great magnitude!

2) Describe performance standards for all phases of the restoration project and describe how the project will be certified as complete and successful.

As described earlier, this project is an example of Process Based Restoration which means that it might take a while to truly account for all the measures of success. We have a robust monitoring plan that includes the InterFluve monitoring plan which should account for all changes in channel structure, vegetation location and density, beaver use, and structure evolution. There will also be DEQ BURP monitoring events and IDFG fish surveys.

Measures of success will include increasing fish occurrence in the main channel, diversification of channel and off channel habitat, increased riparian vegetation (which should also show more stabilized bars, islands and fine sediments), increased beaver activity around the main channel and increased accumulation of LWD.

It's hard to clearly state a point of completion on this style of project. Hopefully the benefits never stop accruing as wood continues to naturally be added to the structures, beavers work their magic increasing the streams interaction with the floodplain, and fine sediments continue to deposit and grow stabilizing vegetation.



Project Title: Red Ives Creek Restoration

Project Approval Date: June 2019

Trustee Council Resolution: #52

Reporting Quarter/FY: Quarter 4/ FY2023-Annual

Partnership Funds Expenditures

Funds Allocated: Trustee Resolution #52 \$30,000.00

Core Budget Funding: \$129,570.27

Funds Spent this Quarter: \$180,310.00

Funds Spent this Fiscal Year: \$180,310.00

A. GENERAL INFORMATION

Project Proponent Name: USFS/Wade Jerome

Primary Telephone Number: 208-783-2127

Email: terry.jerome@usda.gov

Project Sponsor: USFS/Wade Jerome

Primary Telephone Number: 208-783-2127

Email: terry.jerome@usda.gov

B. PROGRESS DESCRIPTION

- 1) Include a description of project accomplishments this reporting period. Describe progress in securing required permits, quantify, as appropriate, x number of acres or habitat restored, and completion of any compliance documents as described in your original application.

The wood sourcing contract (Wahoo Wood Extraction) providing the supply of large woody debris to Red Ives Creek resumed work starting June 20, 2023. The logs and rootwads have been harvested and delivered to Red Ives Creek.

The Partnership Agreement with Trout Unlimited and Forest Service started placing the logs and logs with rootwads in Red Ives Creek on July 17, 2023. At the end of shift August 9, 2023, the contractor placed 1155 logs in the stream and floodplain of Red Ives Creek. Nearly a mile of habitat diversification, enhancement, and floodplain connectivity were implemented in Red Ives Creek. Please note this is only a step in the many steps of restoration of Red Ives Creek. Additional contracts for wood placement will be implemented in the future.

- 2) Describe any challenges which may have delayed progress this quarter, and how those



Quarter 4/ Annual Project Update Form

challenges were/may be overcome. Include any changes to project specifications originally proposed in your application.

No challenges or delays have been experienced this quarter.

C. EXPENDITURES

1) Please describe any unforeseen expenditures.

No unforeseen expenditures have been experienced this quarter.

2) Please describe other cost share or contributing funds.

It is important to note that the two projects listed below were conducted with one common goal of conducting restoration activities in Red Ives Creek. Restoration of this section of Red Ives Creek would not have been possible without both projects.

Restoration Partnership \$30,000 NRDA funds (Trustee Council Resolution 52) have been applied to the award of Wahoo Wood Extraction.

Additional Core Budget funds applied to the Wahoo Wood Extraction project \$72,272.44. Idaho Conservation League grant funds contributed \$78,037.56 to the Wahoo Wood Extraction project.

The contractor submitted the third and final invoice for \$57,475. The two prior invoices were for \$59,835 and \$63,000. The total cost of the Wahoo Wood Extraction project was \$180,310.

The wood placement project is complete and was awarded for \$107,297.83. However, invoicing against the project has not occurred but should be completed by the end of the calendar year.

The wood placement project has applied \$50,000 of USFWS bull trout recovery funds and Core Budget savings of \$57,297.83.

Trout Unlimited has brought total of \$5,829.77 in match and indirect costs.

Project Expenditures: FY23 Oct 1, 2022- Sept. 30, 2023

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe					
Travel					
Supplies					

Equipment					
Contractual (Honorarium)			30,000.00 14,797.44	57,475.00	
Permitting					
Long-term operation and maintenance					
Monitoring					
Other (Community Activities)			\$78,037.56		
Total Direct Costs					
Indirect Costs					
Total			122,835.00	57,475.00	\$180,310

D. PROJECT PARTNERS

- 1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.

The wood sourcing portion of the Red Ives Creek Restoration project was completed utilizing USDA-Forest Service contracting procedures and personnel.

The wood placing portion of this phase of Red Ives Creek was completed by Trout Unlimited personnel and their contracting mechanism, with project oversight and assistance from the USDA-Forest Service.

E. MEASURES OF SUCCESS – [Annual and Project Close-out reports only]

Describe monitoring efforts (if completed) that measures or evaluates the success and the effectiveness of the restoration project. The success, viability and sustainability of the restoration project should be documented at completion. For example, one of the identified restoration goals for this Solicitation includes restoring wetland habitat. Therefore, restoration projects attempting to restore wetland resources will need to document a long term, quantitative increase in wetland habitat quality and/or corresponding migratory waterfowl use of the restored area.

- 1) Describe measures of success and how each is related to the goals and objectives of the proposed project.

Measures of success for Red Ives Creek is to trend habitat attributes toward desired conditions as described in the bull trout Recovery Plan (2002, 2015a, 2015b), the Inland Native Fish Strategy (INFISH 1995) and the Forest Plan (IPNF 2015).

- 2) Describe performance standards for all phases of the restoration project and describe how the project will be certified as complete and successful.

Performance standards for implementation of the restoration project will be centered around the in-stream permit requirements, minimal disturbance, and operating in the narrow construction window of 30 days.

Project success will be evaluated through R1/R4 habitat inventories, photo points and Large woody debris inventories.