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 2024 (FY24):

- 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 FY24.

- Implementation of the following projects continued in FY24 and the expenditures are noted with a brief narrative of work that was completed.

    - ***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 FY24: $3,267.00.
      -FY24 Activities: 1) In the Spring and Fall of 2024 hand crews planted wetland nursery- stock spirea along the new channel. Wetland species included Nebraska sedge, Beaked sedge, Baltic rush, Small-fruited bullrush, Small-winged sedge, Creeping spike rush, Common rush, Dagger-leaf rush, Slender rush, Water birch, Geyer willow, and Douglas spirea. Upland species including snowberry were planted on the raised mounds, and 2) Noxious weed treatments targeting Canada thistle, common tansy, spotted knapweed and absinthe wormwood were

conducted in May and June. Additional treatments to the reed canary grass on the edges of the floodplain. These treatments were intended to slow the invasion of reed canary grass into the floodplain and streamside areas.

- ***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 FY24: $1,872.00
  -FY24 Activities: 1) Coeur d'Alene Tribal staff provided survey information on potential harvest opportunities for the Tribe and the partnership, 2) Tribal staff provided up-to-date data on harvest opportunities, once the nursery is in second-generation growth and second-generation harvest opportunities, 3) Staff mowed reed canary grass to keep the rows of willows visible and accessible, 4) Allocations of willow harvest were determined and the numbers were shared with other RP sponsored projects and, 5) 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 FY24: $154.00
  -FY24 Activities: 1) Camas seed and bulbs were harvested from the meadow within the Hangman Project Area that is most densely populated with camas and once the seeds and bulbs are harvested, they need to be used to the maximum benefit. Seeds will need to be germinated under controlled conditions in order to provide camas that can be successfully out planted, 2) the Coeur d'Alene Tribe's Ecology Program is looking to establish a horticultural program to focus on the propagation of native plants that should proliferate in the Hangman Watershed. Staff completed beaver surveys and dam reinforcements as well as installed plant protectors and, 3) Partnerships with Bonneville Power Administration, AVISTA, and the USFS continue to be great efforts on this project.

- ***Ongoing:* Coeur d'Alene Lake Monitoring and Modeling (Tribe sponsor).**
  -Funds Originally Allocated in FY18: $268,668 and FY24: $75,000
  -Amount Expended in FY24: $8,359.00
  -FY24 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, and 2) Continued data analysis and writing the synthesis report for Coeur d'Alene Lake.

- ***Ongoing*: Hepton Lake (*Gul Hnch'mchinmsh)* Wetland Restoration Planning and Implementation (Tribe sponsor).**
  -Funds Originally Allocated in FY18: $ 210,900 and FY21: $193,638
  -Amount Expended in FY24: $55,137.00

-FY24 Activities: 1) The Tribe, design engineers Alta Science and Engineering, and geotechnical engineering consultant STRATA, provided engineering and geotechnical support and construction oversight during the levee breach repair throughout this reporting period and, 2) The completion of major construction actions to repair the Hepton levee breach has allowed for management of local hydrology across 1,350 acres of wetland habitats to support a more diverse variety of native wildlife, waterfowl, and plant species. The project expands suitable habitat conditions for numerous waterfowl – most notably tundra swans, that use the area during critical spring and fall migration periods. Construction of the project is expected to increase optimal habitat for Sqigwts (Sagittaria latifolia), a high energy food (99 kcal/100g) that is also a significant source of minerals and vitamins in the traditional Coeur d'Alene diet, by more than fivefold. The project is well integrated with the Tribe's goal of recovering sustainable native fisheries – including threatened bull trout and westslope cutthroat trout, a species of special management concern – through management of habitats used by invasive species. The completion of construction has effectively precluded utilization of the site by northern pike, an invasive non-native predator, for spawning and early life stage rearing.

- ***Ongoing:*** **Wetlands restoration planning at Gray's Meadow (IDFG sponsor).**
  -Funds Originally Allocated in FY18, $250,000 and FY22, $5.25 M (remedial match provided by the Work Trust)
  -Amount Expended in FY24: $4,012,830.00
  -FY24 Activities: 1) Nesting bird surveys continued weekly within the construction footprint through 8/1/24 to comply with the Migratory Bird Treaty Act and any located nests were marked and monitored through fledging or nest failure. Nest sites were marked as off limits to construction personnel/equipment, 2) Excavation, dike/access road construction, and island building continued including placement of wire mesh to block potential wildlife burrowing and placement of clean capping materials. Placement of precast and construction of cast-in-place water control structures, backfilling and control gate installation started, and 3) Lamb's Peak water transfers were redirected from Lamb's Peak to the CDA River and a water management working group 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.

- ***Ongoing:*** **Gene Day Pond Fishing Access (IDFG sponsor)**
  -Funds Originally Allocated in FY18: $25,000
  -Amount Expended in FY24: $3,211
  -FY24 Activities: 1) IDFG and BLM finalized the Right-of-Way agreement and, 2) If the weather allows, IDFG hopes to complete the project during the spring of 2025.

- ***Ongoing:*** **Conservation Easement, North Fork Coeur d'Alene River (IDFG sponsor)**
  -Funds Originally Allocated in FY21: $600,000
  -Amount Expended in FY24: $0
  -FY24 Activities: Palouse Land Trust had a near final CE document prepared for RP review which will provide permanent protection of the 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 FY24: $8,695
  -FY24 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) INLC resource reports for all three easements provided information on the baseline conditions of the properties prior to remedial and restoration actions that may be useful for future condition comparisons and, 3) the USFWS conducted 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.

- ***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 FY24: $16,528
  -FY24 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 FY24: $76,980
  -FY24Activities: 1) Tribal staff planted willow cuttings and native wetland grass mix was dispersed on site, 2) Restoration designs were finalized for treatment areas and staff developed specific measurable objectives and criteria for stream enhancement, taking into account the existing channel pattern, profile, dimension and the frequency and duration of floodplain engagement, and 3) The restoration treatments on West Fork Lake Creek and upper Lake Creek were implemented along with a rock grade control that was constructed at the downstream end of the

project reach to raise the existing streambed within the incised channel, 3) The Tribe worked with the Worley Highway District (WHD) to finalize designs to replace the aging, undersized culverts located at WF Lake Creek at Idaho Rd and EF Bozard Creek at Weller Rd to improve fish passage and connectivity, and 4) All necessary permits were acquired.

- ***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 FY24: $1,602,348
  -FY24 Activities: 1) The Prichard Creek CE was signed by Idaho Forest Group which will protect 1,813 acres of upland forest, floodplain and Prichard Creek from future mining and development activities. This includes the entirety of the Prichard Creek Restoration Project, 2) The CE will contribute to the protection of wildlife corridors that provide connectivity along Prichard Creek, which is bordered on either side by federally administered forestlands and is known to serve a diverse array of wildlife species, 3) Project planning, invasive species management, and monitoring occurred and, 4) The completion of Phase 1 construction has continued to make for more functional stream channel and floodplain wherein there was documented use in the project area by beaver and westslope cutthroat trout.

- ***Ongoing*****: Upper Little North Fork Coeur d'Alene River (USFS sponsor)**
  -Funds Originally Allocated in FY23: $400,000
  -Amount Expended in FY24: $34,506
  -FY24 Activities: 1) Initial project work for Hudlow Meadows portion of the project area started in the summer of 2024 with sourcing of large woody debris to be used in meadow and stream restoration. The wood sourcing contract was awarded and is still active and will continue into FY25. The survey work for bridge design over Iron Creek (FSR 1532) has been completed and the design work was initiated using matching funds outside of the RP.

- ***Ongoing*****: Upper St. Joe River Bull Trout Habitat Restoration (USFS sponsor)**
  -Funds Originally Allocated in FY23: $8,000,000
  -Amount Expended in FY24: $8,915
  -FY24 Activities: 1) Initial project work began in the summer of 2024 starting with initiating NEPA processes on two key components of the project and initiating survey and design work for replacing an undersized and deteriorating bridge that spans Red Ives Creek, 2) This Initial survey and design work is for replacing the undersized bridge that spans Red Ives Creek and removing the deteriorating bridge, and 3) Stream survey work and wood unit reconnaissance

was ongoing to prioritize sections for restoration and to review potential units for large woody debris supply needs for restoration work.

- ***Ongoing*: Beaver Creek Watershed Enhancement (USFS sponsor)**
  -Funds Originally Allocated in FY23: $2,430,000
  -Amount Expended in FY24: $0
  -FY24 Activities: 1) Initial project work of this multi-phased and multi-year project began in the summer of 2024 starting in the headwaters of the tributaries utilizing funding sources other than Restoration Partnership funds this year.

- ***Ongoing*: Enhancing design to restore fish passage and ecosystem function in Miesen Creek (IDFG sponsor)**
  -Funds Originally Allocated in FY23: $60,000
  -Amount Expended in FY24: $23,946
  -FY24 Activities: 1) The engineer successfully completed hydraulic modeling, a key milestone for identifying and communicating the challenges facing Miesen Creek to potential grantors targeted for future implementation funding, 2) Planning meetings among IDFG, the USFS, Benewah County, and the landowner occurred, and 3) Section 106 of the NHPA was initiated.

- ***Ongoing*: Benewah Creek ′eltumish Stream and Wetland Restoration (Tribe sponsor)**
  -Funds Originally Allocated in FY23: $455,316
  -Amount Expended in FY24: $0
  -FY24 Activities: 1) No active field work was completed on this project during this FY however, monitoring infrastructure and survey/design work are anticipated occur during the first quarter of FY25.

- ***Ongoing*: Lake Creek Corridor Protection and Enhancement (Tribe sponsor)**
  -Funds Originally Allocated in FY23: $83,750
  -Amount Expended in FY24: $0
  -FY24 Activities: Tribal staff and Tribal leadership continued to meet with INLC and the landowner to finalize contract documents with INLC to advance the work needed for securing the Conservation Easement.

- ***Ongoing*: Big Creek Fish Passage Barrier Removal (Tribe sponsor)**
  -Funds Originally Allocated in FY23: $214,400
  -Amount Expended in FY24: $0
  -FY24 Activities: Tribal staff along with BLM, USFS, Sunshine Mine, and the engineering contractor met to discuss project site survey results, draft designs, Section 7 NHPA Cultural Resource Investigation requirements, FEMA No-rise certification, 404 permitting timelines, NEPA Determination of No Effects requirements, and Right of Way permits previously secured with BLM.

- ***Ongoing*: Assessing Fish Passage at Stream Crossings in the Coeur d'Alene Basin (IDFG sponsor)**

-Funds Originally Allocated in FY23: $50,000
-Amount Expended in FY24: $0
-FY24 Activities: 1) IDFG contracted with Trout Unlimited to conduct field surveys under the previously approved Quality Assurance/Quality Control (QA/QC) and this data will be uploaded into the national database for future RP and partners use in identifying fish passage barrier removal projects.

The paleolimnology of Coeur d'Alene Lake from pre-disturbance to mining impacts and present day- (CDA Tribe sponsor) was underway in FY24 utilizing other matching funds.

Total Funds Expended in FY24: $5,856,748

In FY24, the RP continued to update their Long Term Operation and Management plans for restoration projects as well as a Financial Strategic Plan. The Trustees plan to go out for future project solicitation in FY26.

Restoration Partnership

Quarter 4/ Annual Project Update Form

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/ FY2024-Annual

Partnership Funds Expenditures
Funds Allocated: $ 282,000 (44) and $125,000 (52)
Funds Spent this Quarter: $ 1408
Funds Spent this Fiscal Year: $ $3,266.56

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 the Spring and Fall of 2024 hand crews planted wetland nursery- stock spirea along the new channel. Wetland species included Nebraska sedge, Beaked sedge, Baltic rush, Small-fruited bullrush, Small-winged sedge, Creeping spikerush, Common rush, Dagger-leaf rush, Slender rush, Water birch, Geyer willow, and Douglas spirea. Upland species including snowberry were planted on the raised mounds.

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.

C. EXPENDITURES

Project Expenditures: **FY20 Oct 1, 2023- Sept. 30, 2024**

	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	$793.42	0	$148.90	0	$942.32
Equipment	0	0	0	0	0
Contractual (Honorarium)	0	0	$690.96	0	$690.96
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	$793.42	0	$839.86	0	$1,633.28
Indirect Costs	0	0	0	0	0
Total	$793.42	0	$839.86	0	$3,266.56

D. PROJECT PARTNERS

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

Discussions are ongoing 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.

Restoration Partnership

Quarter 4/ Annual Project Update Form

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

Project Approval Date: April 09, 2018
Trustee Council Resolution #:44
Reporting Quarter/FY: Quarter 4/ FY2024-Annual

Partnership Project Funds Expenditures Based on Resolution
Funds Allocated: $205,462.00
Funds Spent this Quarter: $1,871.80
Funds Spent this Fiscal Year: $1,871.80

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 obtained from previous data on potential harvest opportunities for the Tribe and the partnership. The Tribal staff will provide up-to-date data on harvest opportunities, once the nursery is in second-generation growth and second-generation harvest opportunities. 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

- Supplies were purchased for fence patching, maintenance for mowing equipment, and labeling all rows including rows allocated for harvest.

Project Expenditures: **FY24 Oct 1, 2023- Sept. 30, 2024**

	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	**$0**	**$0**	**$0**	**$1,871.80**	**$1,871.80**
Equipment	**$0**	**$0**	**$0**	**$0**	**$0**
Contractual (includes honorariums)	**$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	**$0**	**$0**	**$0**	**$0**	**$0**
Total Direct Costs	**$0**	**$0**	**$0**	**$1,871.80**	**$1,871.80**
	$0				
Indirect Costs	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP Expenditures	**$0**	**$0**	**$0**	**$0**	**$0**
Other (Cost-Share/volunteer/Re-directed Programmatic Funds, etc.)*	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP and Other	**$0**	**$0**	**$0**	**$0**	$1,871.80

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 Date	Poles	Whips	Poles	Whips
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					
		Poles			Whips		
Species	Assessment Date	Lower bound	Estimate	Upper bound	Lower bound	Estimate	Upper bound
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

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: uł qhesu'lumkhw (land is good again): Cultural Significant Plant Restoration

Project Approval Date: August 9, 2018
Trustee Council Resolution #: 44
Reporting Quarter/FY: Quarter 4/ FY2024-Annual

Partnership Project Funds Expenditures Based on Resolution
Funds Allocated: $187,770
Funds Spent this Quarter: $154.13
Funds Spent this Fiscal Year: $154.13

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: 208-667-5772
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.

- **On July 23rd, camas seed and bulbs were harvested from the meadow within the Hangman Project Area that is most densely populated with camas. This was a dry spring and summer, so seeds were very hard to find and bulbs very hard to dig. This effort was unsuccessful but, we gained enough material to continue learning how to outplant bulbs and how to use seeds more effectively.**

- **Our previous trial with using seeds failed. In 2019, a small area within a wet meadow along Hangman Creek was burned to reduced vegetation coverage and provide a nutrient boost to the soils. Camas sees were then dispersed across the burned area. According to the literature, it takes an average of 5 years for camas to grow from seed to flowing. There were no flowers within the area burned in 2019 when that area was visited this year. In a natural setting, conditions may not**

be suitable for camas seed to germinate every year. If seed is to be used by this project, the seed and the growing environment must be treated to optimize germination. At this point, and with the current condition of the Hangman Watershed, the harvest of both seed and bulbs are scarce events. Once these items are harvested, they need to be used to the maximum benefit. Seeds will need to be germinated under controlled conditions in order to provide camas that can be successfully out planted. And a plan needs to be developed to use bulbs to their maximum benefit.

- **There was little in the way of expenditures during FY2024. However, the year provided an opportunity to examine our processes and consider a more involved process, such as planting camas seed in controlled environments, to maximize the production of camas from harvested bulbs and seeds.**

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 planting of root crops such as camas and *Ligusticum canbyi* will require an understanding of optimum germinating conditions and focused efforts to achieve those optimum conditions. While this more focused effort is outside the scope of this Project, the Coeur d'Alene Tribe's Ecology Program is looking to establish a horticultural program to focus on the propagation of native plants that should proliferate in the Hangman Watershed. It is hoped that this Project can partner with that more focused horticultural effort to produce and properly disperse these important native habitat components.**

C. EXPENDITURES

1) Please describe any unforeseen expenditures. **N/A**

2) Please describe other cost share or contributing funds.

- **The Bonniville Power Administration provided funds for extensive stream restoration within the Hangman Watershed. The Avista Cooperation provided funds for riparian, floodplain and native Palouse protection and restoration. The US Department of Agriculture's Partnerships for Climate-Smart Commodities program provided funds to test the production and application of biochar for soil rehabilitation on both restoration and agricultural sites. The U.S. Forest Service provided funds for Landscape Scale Restoration, which will support the purchase of native grasses, trees and shrubs for reestablishing native riparian and floodplain habitats.**

Project Expenditures: **FY24 Oct 1, 2023- Sept. 30, 2024**

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	**$0**	**$0**	**$0**	**$101.25**	**$101.25**
Travel	**$0**	**$0**	**$0**	**$0**	**$0**
Supplies	**$0**	**$0**	**$0**	**$0**	**$0**
Equipment	**$0**	**$0**	**$0**	**$0**	**$0**
Contractual (includes honorariums)	**$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	**$0**	**$0**	**$0**	**$0**	**$0**
Total Direct Costs	**$0**	**$0**	**$0**	**$0**	**$0**
	$0	**$0**	**$0**		
Indirect Costs	**$0**	**$0**	**$0**	**$52.88**	**$52.88**
Total RP Expenditures	**$0**	**$0**	**$0**	**$0**	**$0**
Other (Cost-Share/volunteer/Re-directed Programmatic Funds, etc.)*	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP and Other	**$0**	**$0**	**$0**	**$0**	**$154.13**

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 were**

primarily involved in constructing a channel for Hangman Creek that is elevated from its current intrenched form. The constructed Hangman Channel will reconnect Hangman Creek to its floodplain and re-hydrate the floodplain to increase native fish, wildlife and plant diversity in the Hangman Valley Bottom.

- **In addition to these efforts, the Coeur d'Alene Ecology Program has actively sought funding to develop a horticultural project to address the broad scale need for propagation and growth of native plants that will produce native habitats for fish and wildlife. This Project hopes to join in with that process as it develops to address the lack of native plants of Coeur d'Alene Tribal Significance.**

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.

- **The success of seeding efforts will be measured with line transects randomly placed through the middle of the seeded area. The results of these transects will deliver a density of the desired plant of Cultural Significance for a specific planting effort. This density is readily translated into the availability of that resource to Community Members.**

- **The success of tall-one planting efforts will continue to be measured with counts of planting survival in the first and second years after planting. It is assumed these years represent the time period of greatest mortality since this effect is commonly demonstrated. Survival rates can readily be translated into the availability of a particular food or utilitarian resource to Community Members.**

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

-

- **Camas production will be measured with line transect derived indices of density the third, and fifth years after seed dispersal. Camas establishment is a slow process. In 2021, a quick examination of the area broadcast with camas seed in the fall of 2019 revealed no evidence of camas production. However, given the drought year and the slow establishment of camas, which is sometimes not detected for at least 3 years and possibly not for 5 years after seeding, the lack of camas blooms is not a reason to consider the first seeding of camas a failure. In FY2022, which will be the third year after planting, counts of camas flowers along actual transects across the seeded area will be taken.**

- **The survival of planted woody vegetation will be measured through survival counts for the first two years after planting. Preliminary examination of the FY19 and FY20 data reveal that no substantive strides were made in improving survival by altering timing, placement and location of plantings. However, on a separate restoration project site, larger, 5-gallon sized planting stock was tested and the first year survival rates exceeded 90%. Given this result in a drought year, a shift to larger planting stock is warranted, particularly if the same number of plants establish with less man-power investment and similar costs.**

- **The maturation of these resources over time will be observed and as is the case with all efforts to restore Cultural Significant Plants in the Hangman Watershed, the restoration will be considered successful when the abundance of these natural resources are sufficient to entice harvest.**

Restoration Partnership

Quarter 4/ Annual Project Update Form

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 and 65

Reporting Quarter/FY: Q4/FY24

Partnership Funds Expenditures
Total Amount Awarded: $268,668.00 plus $75,000 awarded in FY24
Partnership Funds Spent this Quarter: $3,069.58
Partnership Funds Spent this Fiscal Year: $8,358.80

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.
   - Successfully sampled sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison on July 22nd and 23rd.
   - Successfully sampled sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison on August 27th and 28th.
   - Successfully sampled sites C5, C6, SJ1 and the Coeur d'Alene River at Harrison on September 23rd and 24th.
   - Continued data analysis and writing synthesis report.

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. **N/A**

C. EXPENDITURES

1) Please describe any unforeseen expenditures. **N/A**

2) Please describe other cost share or contributing funds. **N/A**

Project Expenditures: **FY24 Oct 1, 2023- Sept. 30, 2024**

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	**$1,817.99**	**$0**	**$1,971.26**	**$2,187.24**	**$5,976.49**
Travel	**$0**	**$0**	**$0**	**$0**	**$0**
Supplies	**$0**	**$0**	**$0**	**$0**	**$0**
Equipment	**$0**	**$0**	**$0**	**$0**	**$0**
Contractual (includes honorariums)	**$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	**$0**	**$0**	**$0**	**$0**	**$0**
Total Direct Costs	**$0**	**$0**	**$0**	**$0**	**$0**
Indirect Costs	**$599.99**	**$0**	**$794.10**	**$882.34**	**$2,276.43**
Total RP Expenditures	**$2,417.98**	**$0**	**$2,765.36**	**$3,069.58**	**$8,358.80**
Other (Cost-Share/volunteer/Re-directed Programmatic Funds, etc.)*	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP and Other	**$0**	**$0**	**$0**	**$0**	**$0**

D. PROJECT PARTNERS

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

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.

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: Hepton Lake Wetland Restoration Project

Project Approval Date: December 6, 2021
Trustee Council Resolution #: 56

Reporting Quarter/FY: Quarter 4/ FY2024-Annual

Partnership Project Funds Expenditures Based on Resolution
Total Amount Awarded: $193,638.00
Partnership Funds Spent this Quarter: $0
Partnership Funds Spent this Fiscal Year: $55,137.41

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.

- **Proposals from construction contractors were evaluated last October, and Big Sky Corp was selected as the preferred contractor to complete the construction phase of the project. A contract was drafted and fully executed by November 21. A construction kick-off meeting was held on December 15. The meeting covered: staff roles in the project; construction approach and schedule; review of owner provided materials; tribal contributions to construction; and a site visit. The construction contractor drafted a SWPPP and submitted a construction notice of intent to EPA in late December.**

- **The Hepton construction contractor implemented a variety of tasks related to construction from January through May, 2024. All construction activities to rebuilding the levee breach plug were completed during this reporting period according to the following schedule:**
  - **Jan 15 – Feb 26 Equipment mobilization**

- **Jan 15 – Feb 29 Access Road maintenance**
- **Jan 17 – 30 Installation of dewatering measures and BMPs**
- **Feb 28 – Mar 31 Active dewatering of construction zone**
- **Mar 4 – 5 Installation of key trench**
- **Mar 5 – 14 Preparation of subgrade**
- **Mar 12 – 22 Placement of structural fill above subgrade**
- **Mar 22 – 28 Installation of pipes 1-4, detention basin, and rock outlet**
- **Mar 22 – Apr 3 Installation of filter rock and rock armoring to final grade**
- **Apr 22 – 23 Installation of vegetative backfill to final design grade**
- **Apr 29 – May 10 Installation of flap gates and fish screens on pipes 1-4**
- **May 8 – 10 Installation of canal gate on pipe 4**
- **May 13 - 17 Removal of dewatering measures**
- **May 13 – 17 Final grading and reclamation of stockpile areas and access roads**
- **May 17 – 19 Equipment de-mobilization**
- **May 28 – Jun 6 Seeding and mulching of levee plug**
- **Jun 10 – 14 Sheet pile removal**

A design modification was initiated to replace the butterfly valve, originally specified by the design engineer to allow for adding water to Hepton Lake through pipe #4, with a simpler canal gate and headwall design that would place less load on the levee, be easier to install and allow for easier maintenance and operation. This design modification resulted in a two-week delay during the final stages of construction.

The Tribe, design engineers Alta Science and Engineering, and geotechnical engineering consultant STRATA, provided engineering and geotechnical support and construction oversight during the levee breach repair throughout this reporting period (Appendix A). Third party certifications were provided to demonstrate that compaction specifications were met and Tribal staff completed as-built surveys following completion of major construction activities to ensure consistency with engineering designs.

- **The completion of major construction actions to repair the Hepton levee breach has allowed for management of local hydrology across 1,350 acres of wetland habitats to support a more diverse variety of native wildlife, waterfowl, and plant species. The project expands suitable habitat conditions for numerous waterfowl – most notably tundra swans, that use the area during critical spring and fall migration periods. Construction of the project is expected to increase optimal habitat for *Sqigwts* (*Sagittaria latifolia*), a high energy food (99 kcal/100g) that is also a significant source of minerals and vitamins in the traditional Coeur d'Alene diet, by more than fivefold. The project is well integrated with the Tribe's goal of recovering sustainable native fisheries – including threatened bull trout and westslope cutthroat trout, a species of special management concern – through management of habitats used by invasive species. The completion of construction has effectively precluded utilization of the site by northern pike, an invasive non-native predator, for spawning and early life stage rearing.**

C. EXPENDITURES

1) Please describe any unforeseen expenditures. **N/A**

2) Please describe other cost share or contributing funds.

- **Additional structural materials, above and beyond the engineering estimate, were purchased and stockpiled at staging areas near the levee breach during this reporting period. This was deemed necessary to account for potential material loss while moving rock during construction. An additional 610 CY of structural fill and 160 CY of culvert bedding was delivered to the site.**

- **Several contract modifications were required with the construction contractor to accommodate site conditions and minor design modifications that arose during construction. Additional structural materials above and beyond the engineering estimate were purchased and installed following removal of approximately 1500 CY of surficial subgrade soils on the north and south side of the key trench. This was deemed necessary following closer direct examination of these materials that were too soft and wet to support backfilling of structural fill without significant settling and deformation. A design modification was initiated to replace the butterfly valve, originally specified by the design engineer to allow for adding water to Hepton Lake through pipe #4, with a simpler canal gate and headwall design that would place less load on the levee, be easier to install and allow for easier maintenance and operation. A contract modification was implemented to reduce the length of drainage pipes 1-3 and to add ballast and anchors to counteract flotational forces acting on the HDPE pipe materials during high water. An additional 15 days of construction site dewatering were required to accommodate an extended construction window. Contract modifications increased construction costs by a total of $94,267.96 (17.9%).**

Cost share in the amount of $88,152.61 was provided by the BIA through their Invasive Wildlife Program during FY 2024.

Project Expenditures: **FY24 Oct 1, 2023- Sept. 30, 2024**

	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	15,779.40	5,090.08	**$0**	**$0**	20,869.48
Equipment	**$0**	**$0**	**$0**	**$0**	**$0**
Contractual	3,228.59	2,202.89	28,836.45	**$0**	34,267.93
Permitting	**$0**	**$0**	**$0**	**$0**	**$0**
Long-term operation and maintenance	**$0**	**$0**	**$0**	**$0**	**$0**
Monitoring	**$0**	**$0**	**$0**	**$0**	**$0**
Other	**$0**	**$0**	**$0**	**$0**	**$0**
Total Direct Costs	19,007.99	7,292.97	28,836.45	**$0**	55,137.41
Indirect Costs	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP Expenditures	**19,007.99**	**7,292.97**	**28,836.45**	**$0**	**55,137.41**
Other (Cost-Share/volunteer/Re-directed Programmatic Funds) *	9,425.00	18,305.45	11,365.71	49,056.45	88,152.61
Total RP and Other	28,432.99	25,598.42	40,202.16	49,056.45	143,290.02

D. PROJECT PARTNERS

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

- **Completion of major construction actions for the Hepton Lake Wetland Restoration Project involved direct financial contributions from several partners.**

Agency	Cost-share
NRCS	$799,837
RP (Hepton)	$193,638
RP (Smlich)	$85,322
BIA	$125,000
BPA	$215,420
EPA	$102,287
Total	**$1,521,504**

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.

- **The Tribe, design engineers Alta Science and Engineering, and geotechnical engineering consultant STRATA, provided engineering and geotechnical support and construction oversight during the levee breach repair throughout this reporting period. Third party certifications were provided to demonstrate that compaction specifications were met and Tribal staff completed as-built surveys following completion of major construction activities to ensure consistency with engineering designs (Appendix A).**

Appendix A – Construction Field Reports, Photos and As-Built Survey

Field Report 1

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000003
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/04/2024	**Mileage / Vehicle:** 110.0
Start Time: 05:30	**Finish Time:** 15:30	**Hours:** 10
Temperature (°F): 29	**Precipitation:** Snow	**Wind:** Breezy

Field Professional - Observation

Activity Hours: 10.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Mr. Angelo Vitale with the CDA Tribe and Ms. Jessica Dzara with Alta Science and Engineering Inc. to document on-site earthwork construction activities at the Hepton Levee plug repair site. Upon arrival to the site I met with Mr. Trent Tamagni, Project Superintendent with Big Sky, Mr. Brent Hodgson with the CDA Tribe, and Mr. Ryan Lewis with STRATA to discuss the planned earthwork activities for the Hepton Lake Levee Repair.

I observed the Big Sky Corp earthwork crew utilize a CAT 320 DL Excavator equipped with a smooth blade bucket excavate the on-site silt and sand subgrade soil within the Key Trench footprint; the excavation depth varied along the length of the levee plug and ranged from 2' at the shallowest to 4' at the deepest portions of the key trench. Following excavation, I observed the on-site Big Sky crew place a woven geotextile fabric (purchased, delivered, and approved by the CDA Tribe) along the key trench excavation, completely covering the base and sidewalls of the trench. Following placement of the fabric, I observed Big Sky place an approximate 4' thick section of Key Trench Rock (which had been previously stock pilled on site) to backfill the key trench excavation. This Key Trench Rock was delivered and approved for use by the CDA Tribe.

I reported my observations to Big Sky and the CDA Tribe prior to departing the site. Additional earthwork activities are planned for tomorrow.

Noted Deviations: No

Reported to: Mr. Trent Tamagni, Project Supervisor with Big Sky Corp. Mr. Brent Hodgson with the CDA Tribe

Reviewed by Ryan Lewis
Business Manager

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000002
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/04/2024

Description:
Hepton Lake Levee Repair (Key Trench excavation/geotextile fabric installation/backfill)

Description:
Hepton Lake Levee Repair (Key Trench excavation/geotextile fabric installation/backfill)

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000002
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Hepton Lake Levee Repair (Key Trench excavation/geotextile fabric installation/backfill)

Description:
Hepton Lake Levee Repair (Key Trench excavation/geotextile fabric installation/backfill)

Reviewed by Ryan Lewis
Business Manager

Field Report 2

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000004
Report Date: 03/12/2024

Client:	**Project:**
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/05/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:00	**Finish Time:** 15:00	**Hours:** 9
Temperature (°F): 34	**Precipitation:** Dry	**Wind:** Calm

Field Professional - Observation

Activity Hours: 9.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Mr. Angelo Vitale with the CDA Tribe and Ms. Jessica Dzara with Alta Science and Engineering Inc. to observe the earthwork activities for the Hepton Lake Levee Repair project.

While on site I attended a site meeting with Ms. Dzara, Mr. Vitale, Mr. Brian Dagon with Big Sky, Mr. Trent Tamagni with Big Sky, Mr. Brent Hodgson with the CDA Tribe, and Mr. Ryan Lewis with STRATA (via cell phone). During the meeting, the group discussed a plan to remove the wet and soft subgrade soil outside the key trench footprint but below the rest of the levee plug footprint. This process will begin on the north toe of levee slope and extend to the south toe of levee slope. After excavating a test pit approximately 2.5' deep down to expose firm silt/sand subgrade soil below the upper soft and wet layer along the south side of the Key Trench, the CDA Tribe directed Big Sky to continue the process of removing the soft soil to firm subgrade below the rest of the levee plug footprint (outside the key trench) prior to placing a 50/50 blend of on site soil and structural fill.

During the meeting we also discussed Big Sky's plan for mixing the imported 3" minus structural fill and on-site embankment fill generated from the top of the western levee to create a uniform and consistent 50/50 blend. Mr. Tamagni informed me that the Big Sky crew would create a mixing area and attempt to blend the materials utilizing a front end loader. Equal parts of structural fill and embankment fill will be placed into a pile and mixed using the front end loader.

Following the meeting I observed the Big Sky crew remove the soft and wet on-site soil within the levee plug footprint approximately 2.5' deep along the north side of the Key Trench to expose firm silt/sand subgrade soil. Mr. Tamagni informed me they plan to continue this process for the next couple of days.

Noted Deviations: No

Reported to: Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. Mr. Angelo Vitale with the CDA Tribe.

Reviewed by Ryan Lewis
Business Manager

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000003
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/05/2024

Description:
Soft and wet surficial subgrade soil on north side of the Key Trench

Description:
Excavation of soft and wet surficial subgrade soil on north side of the Key Trench

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000003
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Excavation of soft and wet surficial subgrade soil on north side of the Key Trench

Reviewed by Ryan Lewis
Business Manager

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000005
Report Date: 03/12/2024

Client:
Alta Science & Engineering, Inc.
505 W. Riverside Avenue, Suite 530
Spokane, WA 99201

Project:
CD23026A
Hepton Lake Geotechnical Assistance
Hepton Lake
Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/06/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:00	**Finish Time:** 15:00	**Hours:** 9
Temperature (°F): 36	**Precipitation:** Dry	**Wind:** Calm

Field Professional - Observation

Activity Hours: 9.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Mr. Angelo Vitale with the CDA Tribe and Ms. Jessica Dzara with Alta Science & Engineering Inc. to observe and document earthwork activities for the Hepton Lake Levee Repair project.

Upon arrival to the site I met with Mr. Trent Tamagni, Project Superintendent with Big Sky to discuss the planned earthwork activities for the Hepton Lake Levee Repair. I observed the Big Sky crew continue to excavate and remove the soft and wet surficial subgrade soil along the north side of the Key Trench. Big Sky also began excavating along the south side of the Key Trench approximately 2.5' down to expose firm silt/sand subgrade soil utilizing a CAT 320 DL Excavator equipped with a smooth blade bucket.

I also observed the mixing of the imported structural fill material with the on-site soil generated from the top of the existing western levee. The Big Sky crew is utilizing a VOLVO 16-E front end loader and a CAT D6N XL dozer to achieve the approximate 50/50 blend of materials. The blended mixture appeared homogenous. Following the mixing process, the Big Sky crew began placing the mixed material upon the previously excavated north side of the Key Trench.

While on-site I also obtained a sample of the Culvert Bedding Rock (imported from Danielson Rock-St.Maries), which was transported to the STRATA laboratory for proctor testing.

Noted Deviations: No

Reported to: Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. Mr. Angelo Vitale with the CDA Tribe. Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

Reviewed by Ryan Lewis
Business Manager

Field Report 3

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000005
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/06/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:00	**Finish Time:** 15:00	**Hours:** 9
Temperature (°F): 36	**Precipitation:** Dry	**Wind:** Calm

Field Professional - Observation

Activity Hours: 9.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Mr. Angelo Vitale with the CDA Tribe and Ms. Jessica Dzara with Alta Science & Engineering Inc. to observe and document earthwork activities for the Hepton Lake Levee Repair project.

Upon arrival to the site I met with Mr. Trent Tamagni, Project Superintendent with Big Sky to discuss the planned earthwork activities for the Hepton Lake Levee Repair. I observed the Big Sky crew continue to excavate and remove the soft and wet surficial subgrade soil along the north side of the Key Trench. Big Sky also began excavating along the south side of the Key Trench approximately 2.5' down to expose firm silt/sand subgrade soil utilizing a CAT 320 DL Excavator equipped with a smooth blade bucket.

I also observed the mixing of the imported structural fill material with the on-site soil generated from the top of the existing western levee. The Big Sky crew is utilizing a VOLVO 16-E front end loader and a CAT D6N XL dozer to achieve the approximate 50/50 blend of materials. The blended mixture appeared homogenous. Following the mixing process, the Big Sky crew began placing the mixed material upon the previously excavated north side of the Key Trench.

While on-site I also obtained a sample of the Culvert Bedding Rock (imported from Danielson Rock-St.Maries), which was transported to the STRATA laboratory for proctor testing.

Noted Deviations: No

Reported to: Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. Mr. Angelo Vitale with the CDA Tribe. Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

Reviewed by Ryan Lewis
Business Manager

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000004
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/06/2024

Description:
Removal of soft and wet surficial soil on north side of Key Trench

Description:
Removal of soft and wet surficial soil on south side of Key Trench

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000004
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Structural fill and on site soil mixing to achieve an approximate 50/50 blend

Description:
Placement of 50/50 blend along the north side of Key Trench

Reviewed by Ryan Lewis
Business Manager

Field Report 4

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000004
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Structural fill and on site soil mixing to achieve an approximate 50/50 blend

Description:
Placement of 50/50 blend along the north side of Key Trench

Reviewed by Ryan Lewis
Business Manager

Page 10 of 17

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000005
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/07/2024

Description:

50:50 blend of fill placed above the top geotextile wrapped above the Key Trench

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000005
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Placement and spreading of 50/50 mixture of structural fill and levee embankment material.

Description:
Spreading of 50/50 mixture of structural fill and levee embankment material.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000005
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Spreading of 50/50 mixture of structural fill and levee embankment material.

Description:
Placement and spreading of 50/50 mixture of structural fill and levee embankment material on north side of key trench.

Reviewed by Ryan Lewis
Business Manager

Field Report 5

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000007
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/11/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:30	**Finish Time:** 15:30	**Hours:** 9
Temperature (°F): 45	**Precipitation:** Dry	**Wind:** Breezy

Field Professional - Observation

Activity Hours: 9.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Mr. Angelo Vitale with the CDA Tribe and Ms. Jessica Dzara with Alta Science & Engineering to observe and document today's earthwork activities for the Hepton Lake Levee Repair project.

Upon arrival to the site, I met with Mr. Trent Tamagni, Project Supervisor with Big Sky to discuss the planned earthwork activities.

I observed Big Sky mixing imported 3" minus structural fill material with the on-site soil generated from the top of the existing western levee. The Big Sky crew is placing end dump loads in the mixing area, alternating from the imported structural fill to the on-site soil, and mixing utilizing a CAT D6N XL dozer to achieve the approximate 50/50 blend of materials by windrowing and back dragging the piles.

Following mixing activities, the Big Sky crew continued placing the 50:50 mixed material above the previously excavated north side of the Key Trench. I reported my observations to the on-site Big Sky and CDA Tribe representatives.

Noted Deviations: No

Reported to: Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. Mr. Angelo Vitale with the CDA Tribe. Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

Reviewed by Ryan Lewis
Business Manager

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000006
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/11/2024

Description:
Big Sky mixing Structural fill with the on-site soil generated from the levee cut.

Description:
Big Sky mixing Structural fill with the on-site soil generated from the levee cut.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000006
Report Date: 03/12/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Big Sky creating 50:50 blend by mixing Structural fill with the on-site soil generated from the levee cut.

Reviewed by Ryan Lewis
Business Manager

Page 17 of 17

Field Report 6

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000008
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/12/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:30	**Finish Time:** 14:30	**Hours:** 8
Temperature (°F): 42	**Precipitation:** Dry	**Wind:** Calm

Field Professional - Observation

Activity Hours: 8.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to observe the earthwork activities for the Hepton Lake Levee Repair.

While on-site I attended a site meeting with Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni with Big Sky Corp., Mr. Brent Hodgson with the CDA Tribe, and Mr. Ryan Lewis with STRATA (via cell phone). During the meeting we discussed items pertaining to the culverts installation and related scheduling.

While on-site I observed the continued mixing of the imported structural fill material with the on-site soil generated from the top of the existing western levee. The Big Sky crew is placing end dump loads, alternating from the imported structural fill to the on-site soil, placing a pile of each material (four total piles) near the fill area, then utilizing a CAT D6N XL dozer to achieve the approximate 50/50 blend of materials by windrowing and back dragging the piles. Following the mixing the Big Sky crew began placing the mixed material upon the previously excavated portion along the south the side of the Key Trench. The Big Sky crew also were continuing the excavation of the saturated soil down to the sandy soil beneath the footprint of the levee, continuing to move south from the Key Trench.

Noted Deviations: No

Reported to: Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. Mr. Angelo Vitale with the CDA Tribe. Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

Reviewed by Scott Cron
Technical Director Construction Services

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000007
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/12/2024

Description:
Structural fill/on-site soil mixing

Description:
Structural fill/on-site soil 50/50 blend placement

Reviewed by Scott Cron
Technical Director Construction Services

Field Report 7

STRATA

Daily Field Report

Report #: 0074-000009
Report Date: 04/05/2024

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Client:
Alta Science & Engineering, Inc.
505 W. Riverside Avenue, Suite 530
Spokane, WA 99201

Project:
CD23026A
Hepton Lake Geotechnical Assistance
Hepton Lake
Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/13/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:30	**Finish Time:** 13:30	**Hours:** 7
Temperature (°F): 36	**Precipitation:** Dry	**Wind:** Breezy

Field Professional - Observation

Activity Hours: 7.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to observe the earthwork activities for the Hepton Lake Levee Repair.

Upon arrival to the site I met with Mr. Trent Tamagni, Project Superintendent with Big Sky to discuss the planned earthwork activities for the Hepton Lake Levee Repair. I observed the Big Sky crew continuing the excavation of the soft and wet surficial subgrade soil along the south side of the Key Trench, within the levee plug footprint, approximately 2.5' down to expose firm silt/sand subgrade soil utilizing a CAT 320 DL Excavator equipped with a smooth blade bucket. Mr. Tamagni informed me they plan to continue the excavation through today and tomorrow.

Noted Deviations: No

Reported to: Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. Mr. Angelo Vitale with the CDA Tribe. Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000008
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS **Date:** 03/13/2024

Description:
Removal of soft and wet surficial subgrade soil south side of key trench

Description:
Removal of soft and wet surficial subgrade soil south side of key trench

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000008
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Removal of soft and wet surficial subgrade soil south side of key trench

Field Report 8

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000010
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/14/2024	**Mileage / Vehicle:** 110.0
Start Time: 08:00	**Finish Time:** 14:00	**Hours:** 6
Temperature (°F): 45	**Precipitation:** Dry	**Wind:** Calm

Field Professional - Observation

Activity Hours: 6.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to observe the earthwork activities for the Hepton Lake Levee Repair.

Upon arrival to the site I met with Mr. Trent Tamagni, Project Superintendent with Big Sky to discuss the planned earthwork activities for the Hepton Lake Levee Repair. I observed the Big Sky crew continuing the excavation of the soft and wet surficial subgrade soil along the south side of the Key Trench, within the levee plug footprint, approximately 2.5' down to expose firm silt/sand subgrade soil utilizing a CAT 320 DL Excavator equipped with a smooth blade bucket. Mr. Tamagni informed me they plan to begin placing the structural fill/on-site soil 50/50 blend tomorrow am.

Noted Deviations: No

Reported to: Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. Mr. Angelo Vitale with the CDA Tribe. Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000009
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/14/2024

Description:
Removal of the soft and wet surficial soil south of the key trench

Description:
Removal of the soft and wet surficial soil south of the key trench

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000009
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Removal of the soft and wet surficial soil south of the key trench

Reviewed by Scott Cron
Technical Director Construction Services

Field Report 9

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000011
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/15/2024	**Mileage / Vehicle:** 110.0
Start Time: 07:00	**Finish Time:** 13:00	**Hours:** 6
Temperature (°F): 48	**Precipitation:** Dry	**Wind:** Calm

Field Professional - Observation

Activity Hours: 6.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to observe the earthwork activities for the Hepton Lake Levee Repair.

Upon arrival to the site I met with Mr. Trent Tamagni, Project Superintendent with Big Sky to discuss the planned earthwork activities for the Hepton Lake Levee Repair. The Big Sky crew have completed the excavation of the soft and wet surficial subgrade soil along the south side of the Key Trench, within the levee plug footprint, approximately 2.5' down to expose firm silt/sand subgrade soil utilizing a CAT 320 DL Excavator equipped with a smooth blade bucket. I observed Big Sky continue to mix imported structural fill material with the on-site soil generated from the top of the existing western levee. The mixing process is taking place near the placement area. The Big Sky crew is placing end dump loads of material, alternating from the imported structural fill to the on-site soil. The Big Sky crew is utilizing a CAT D6N XL dozer to achieve the approximate 50/50 blend of materials. The blended mixture appeared homogenous. Following the mixing process, the Big Sky crew began placing the mixed material upon the previously excavated south side of the Key Trench.

Noted Deviations: No

Reported to: Ms. Jessica Dzara with Alta Science & Engineering, Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000010
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS **Date:** 03/15/2024

Description:
Piles of structural fill and on-site soil before mixing

Description:
Mixing of structural fill and on-site soil

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000010
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Structural fill and on-site soil 50/50 blend placement on the south side of key trench

Description:
Structural fill and on-site soil 50/50 blend placement on the south side of key trench

Reviewed by Scott Cron
Technical Director Construction Services

Field Report 10

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000012
Report Date: 04/05/2024

Client:	**Project:**
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/18/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:30	**Finish Time:** 14:30	**Hours:** 8
Temperature (°F): 60	**Precipitation:** Dry	**Wind:** Calm

Field Professional - Observation

Activity Hours: 8.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to observe the earthwork activities for the Hepton Lake Levee Repair.

Upon arrival to the site I met with Mr. Trent Tamagni, Project Superintendent with Big Sky to discuss the planned earthwork activities for the Hepton Lake Levee Repair. I observed Big Sky continue to mix imported structural fill material with the on-site soil generated from the top of the existing western levee. The mixing process is taking place near the placement area. The Big Sky crew is placing end dump loads of material, alternating from the imported structural fill to the on-site soil. The Big Sky crew is utilizing a CAT D6N XL dozer to achieve the approximate 50/50 blend of materials. The blended mixture appeared homogenous. Following the mixing process, the Big Sky crew continued placing the mixed material along the north and south sides of the Key Trench. I also observed the Big Sky crew utilizing a VOLVO SD75B single smooth drum roller to apply a compactive effort upon the previously placed blended soil.

Noted Deviations: No

Reported to: Ms. Jessica Dzara with Alta Science & Engineering, Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000011
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/18/2024

Description:
Structural fill/on-site soil blend placement, south side of the key trench

Description:
Structural fill/on-site soil blend placement, north side of the key trench

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000011
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Compacting effort, south side of the key trench

Description:
Compacting effort, north side of the key trench

Reviewed by Scott Cron
Technical Director Construction Services

Field Report 11

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000013
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/19/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:30	**Finish Time:** 14:30	**Hours:** 8
Temperature (°F): 60	**Precipitation:** Dry	**Wind:** Calm

Field Professional - Observation

Activity Hours: 8.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to observe the earthwork activities for the Hepton Lake Levee Repair.

While on-site I attended a site meeting with Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni with Big Sky Corp., Mr. Brent Hodgson with the CDA Tribe, and Mr. Brian Degan with Big Sky Corp. During the meeting we discussed items pertaining to the culverts installation and related scheduling.

I observed Big Sky continue to mix imported structural fill material with the on-site soil generated from the top of the existing western levee. The mixing process is taking place near the placement area. The Big Sky crew is placing end dump loads of material, alternating from the imported structural fill to the on-site soil. The Big Sky crew is utilizing a CAT D6N XL dozer to achieve the approximate 50/50 blend of materials. The blended mixture appeared homogenous. Following the mixing process, the Big Sky crew continued placing the mixed material along the south side of the Key Trench.

Noted Deviations: No

Reported to: Ms. Jessica Dzara with Alta Science & Engineering, Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000012
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/19/2024

Description:
Western levee existing soil cut

Description:
Structural fill/on-site soil 50/50 blend placement, south side of key trench

Reviewed by Scott Cron
Technical Director Construction Services

Field Report 12

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000014
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/22/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:30	**Finish Time:** 10:30	**Hours:** 4
Temperature (°F): 48	**Precipitation:** Dry	**Wind:** Calm

Field Professional - Observation

Activity Hours: 4.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to observe the earthwork activities for the Hepton Lake Levee Repair.

Upon arrival to the site I met with Mr. Trent Tamagni, Project Superintendent with Big Sky to discuss the planned earthwork activities for the Hepton Lake Levee Repair. As stated by Mr. Tamagni, the Big Sky crew have placed an approximate 6" thick section of filter rock followed by a 12" thick section of armoring rock upon the previously excavated top of the existing western levee. While I was on-site I observed the placement of the soil stripping from the western levee being placed upon the armoring rock at the previously referenced location. I also observed the excavation of the culvert detention basin on the south side of the Key Trench. Mr. Tamagni informed me that the culvert excavation/installation would begin next Monday 3/25.

Noted Deviations: No

Reported to: Ms. Jessica Dzara with Alta Science & Engineering, Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000013
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS **Date:** 03/22/2024

Description:
Armoring rock along the existing western levee

Description:
Armoring rock and soil stripping being placed along the existing western levee

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000013
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Culvert detention basin, south side of key trench

Reviewed by Scott Cron
Technical Director Construction Services

Field Report 13

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000015
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/25/2024	**Mileage / Vehicle:** 110.0
Start Time: 07:00	**Finish Time:** 16:00	**Hours:** 9
Temperature (°F): 42	**Precipitation:** Dry	**Wind:** Calm

Field Professional - In Place Density Testing

Activity Hours: 9.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived onsite as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to conduct in-place nuclear density testing of the 3/4" minus aggregate (imported from Danielson Rock-St. Maries), material being placed as culvert bedding/shading backfill for culvert #1 located at Hepton Lake levee repair.

The current fill surface was at approximately 2'- 6' below finished subgrade elevation and compacted utilizing a Jumping-Jack. The nuclear density gauge used for testing was a Troxler 3430, serial number 25173, that I standardized onsite prior to testing. I performed density testing and received results indicating that compaction ranged from 95 to 97 percent, which meets or exceeds the specified minimum (95 percent) of moisture-density curve 50849. I reported my observations and test results to Mr. Trent Tamagni, Project Superintendent with Big Sky prior to departing the site. I returned to STRATA's Hayden office where I completed my reports.

Noted Deviations: No

Reported to: Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. Mr. Angelo Vitale with the CDA Tribe. Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000014
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/25/2024

Description: Culvert #1 installation

Description:
Culvert #1 installation/backfill/compaction

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000014
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Culvert #1
installation/backfill/compaction

Description:
Culvert #1
installation/backfill/compaction

Reviewed by Scott Cron
Technical Director Construction Services

Field Report 14

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000016
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/26/2024	**Mileage / Vehicle:** 110.0
Start Time: 07:00	**Finish Time:** 16:00	**Hours:** 9
Temperature (°F): 42	**Precipitation:** Dry	**Wind:** Breezy

Field Professional - In Place Density Testing

Activity Hours: 9.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived onsite as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to conduct in-place nuclear density testing of the 3/4" minus aggregate (imported from Danielson Rock-St. Maries), material being placed as culvert bedding/shading backfill for the remaining north end of culvert #1 and all of culvert #2 located at Hepton Lake levee repair.

While on-site I attended a site meeting with Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc., Ms. Stephanie Hallock with the CDA Tribe, Mr. Brent Hodgson with the CDA Tribe, and Mr. Brian Degan with Big Sky Corp. During the meeting we discussed items pertaining to the culvert valve and vault installation and related scheduling.

The current fill surface was at approximately 2'- 6' below finished subgrade elevation and compacted utilizing a Jumping-Jack and a Mikasa MVH 406 diesel vibratory plate. The nuclear density gauge used for testing was a Troxler 3430, serial number 25173, that I standardized onsite prior to testing. I performed density testing and received results indicating that compaction ranged from 95 to 97 percent, which meets or exceeds the specified minimum (95 percent) of moisture-density curve 50849. I reported my observations and test results to Mr. Trent Tamagni, Project Superintendent with Big Sky prior to departing the site. I returned to STRATA's Hayden office where I completed my reports.

Noted Deviations: No

Reported to: Ms. Jessica Dzara with Alta Science & Engineering, Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000015
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/26/2024

Description:
Culvert #2 installation/bedding/shading compaction

Description:
Culvert #2 installation/bedding/shading compaction

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000015
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Culvert #2 installation/bedding/shading compaction

Description:
Culvert #2 installation/bedding/shading compaction

Reviewed by Scott Cron
Technical Director Construction Services

Field Report 15

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000017
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/27/2024	**Mileage / Vehicle:** 110.0
Start Time: 07:00	**Finish Time:** 16:00	**Hours:** 9
Temperature (°F): 44	**Precipitation:** Dry	**Wind:** Breezy

Field Professional - In Place Density Testing

Activity Hours: 9.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived onsite as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to conduct in-place nuclear density testing of the 3/4" minus aggregate (imported from Danielson Rock-St. Maries), material being placed as culvert bedding/shading backfill for culvert #3 located at Hepton Lake levee repair.

The current fill surface was at approximately 2'- 4' below finished subgrade elevation and compacted utilizing a Jumping-Jack and a Mikasa MVH 406 diesel vibratory plate. The nuclear density gauge used for testing was a Troxler 3430, serial number 25173, that I standardized onsite prior to testing. I performed density testing and received results indicating that compaction ranged from 96 to 98 percent, which meets or exceeds the specified minimum (95 percent) of moisture-density curve 50849. I reported my observations and test results to Mr. Trent Tamagni, Project Superintendent with Big Sky prior to departing the site. I returned to STRATA's Hayden office where I completed my reports.

Noted Deviations: No

Reported to: Ms. Jessica Dzara with Alta Science & Engineering, Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000016
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 03/27/2024

Description:
Culvert #3 installation/compaction

Description:
Culvert #3 installation/compaction

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000016
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Culvert #3 installation/compaction

Description:
Culvert #3 installation/compaction

Reviewed by Scott Cron
Technical Director Construction Services

Field Report 16

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000018
Report Date: 04/05/2024

Client:	**Project:**
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 03/28/2024	**Mileage / Vehicle:** 110.0
Start Time: 08:30	**Finish Time:** 15:30	**Hours:** 7
Temperature (°F): 45	**Precipitation:** Dry	**Wind:** Calm

Field Professional - In Place Density Testing

Activity Hours: 7.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived onsite as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to conduct in-place nuclear density testing of the 3/4" minus aggregate (imported from Danielson Rock-St. Maries), material being placed as culvert bedding/shading backfill for culvert #4 located at Hepton Lake levee repair.

The current fill surface was at approximately 2'- 4' below finished subgrade elevation and compacted utilizing a Jumping-Jack and a Mikasa MVH 406 diesel vibratory plate. The nuclear density gauge used for testing was a Troxler 3430, serial number 25173, that I standardized onsite prior to testing. I performed density testing and received results indicating that compaction ranged from 95 to 97 percent, which meets or exceeds the specified minimum (95 percent) of moisture-density curve 50849. I reported my observations and test results to Mr. Trent Tamagni, Project Superintendent with Big Sky prior to departing the site. I returned to STRATA's Hayden office where I completed my reports.

Noted Deviations: No

Reported to: Ms. Jessica Dzara with Alta Science & Engineering, Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000017
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS **Date:** 03/28/2024

Description:
Culvert #4
installation/backfill/compaction

Description:
Culvert #4
installation/backfill/compaction

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000017
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Culvert #4
installation/backfill/compaction

Description:
Culvert #4
installation/backfill/compaction

Field Report 17

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000019
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 04/02/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:30	**Finish Time:** 15:30	**Hours:** 9
Temperature (°F): 65	**Precipitation:** Dry	**Wind:** Calm

Field Professional - Observation

Activity Hours: 9.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to observe the earthwork activities for the Hepton Lake Levee Repair.

While on-site I attended a site meeting with Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni with Big Sky Corp., and Mr. Brent Hodgson with the CDA Tribe. During the meeting we discussed items pertaining to the culvert valve installation and scheduling related to the completion of the project.

While on-site I also observed the Big Sky crew making finished sub grade elevation throughout the levee repair, and begin placing filter rock and armoring rock upon the finished sub grade elevation. I also observed the excavation of the toe of slope trench along the south side of the levee repair. Mr. Tamagni informed me that the sand filter installation would begin tomorrow morning 4/3/24, as well as continuing the toe of slope trench excavation.

Noted Deviations: No

Reported to: Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. Mr. Angelo Vitale with the CDA Tribe. Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000018
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 04/02/2024

Description:
Levee repair finished sub grade

Description:
Levee repair finished sub grade

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000018
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Levee repair filter rock placement upon finished sub grade

Description:
Levee repair filter rock placement upon finished sub grade

Field Report 18

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Daily Field Report

Report #: 0074-000020
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS	**Service Date:** 04/03/2024	**Mileage / Vehicle:** 110.0
Start Time: 06:30	**Finish Time:** 14:30	**Hours:** 8
Temperature (°F): 46	**Precipitation:** Dry	**Wind:** Breezy

Field Professional - Observation

Activity Hours: 8.00

Ref Plans / Specifications: Project plans and specifications developed by Alta Science and Engineering Inc. dated 04/09/2021

Narrative:

I arrived on-site as requested by Ms. Jessica Dzara, P.M. with Alta Science and Engineering Inc. to observe the earthwork activities for the Hepton Lake Levee Repair.

Upon arrival to the site I met with Mr. Trent Tamagni, Project Superintendent with Big Sky to discuss the planned earthwork activities for the Hepton Lake Levee Repair. Mr. Tamagni informed me that although the sand filter installation had been scheduled for today, the Big Sky crew would be postponing the installation until tomorrow 4/4/24.

While on-site I observed the Big Sky crew placing filter rock and armoring rock upon the finished sub grade elevation. I also observed the excavation of the toe of slope trench along the south and north sides side of the levee repair, followed by the placement of filter rock and armoring rock.

Noted Deviations: No

Reported to: Ms. Jessica Dzara with Alta Science & Engineering, Mr. Angelo Vitale with the CDA Tribe, Mr. Trent Tamagni, Project Supervisor with Big Sky Corp.

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000019
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

STRATA Representative: ANDERSON, THOMAS

Date: 04/03/2024

Description: Filter rock placement

Description: Armoring rock placement

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000019
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description: Armoring rock placement

Description:
Armoring rock placement at the north toe of slope trench

STRATA

Hayden
1016 West Hayden Avenue
Hayden, ID 83835
Phone: 208.772.2428

Photographic Documentation

Report #: PL-000019
Report Date: 04/05/2024

Client:	Project:
Alta Science & Engineering, Inc. 505 W. Riverside Avenue, Suite 530 Spokane, WA 99201	CD23026A Hepton Lake Geotechnical Assistance Hepton Lake Hepton Lake, ID

Description:
Armoring rock placement at the south toe of slope trench

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

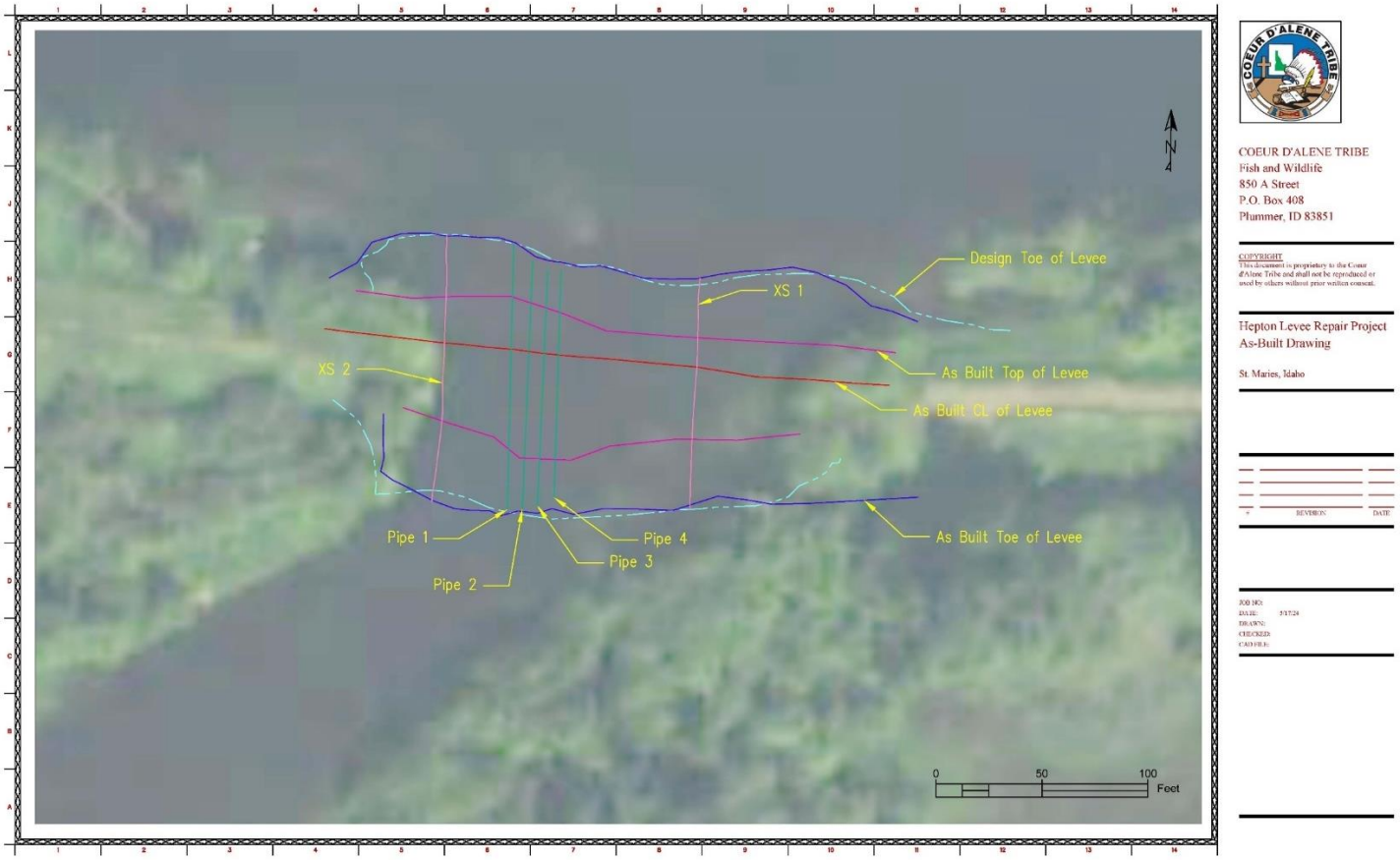
Photo 7

Photo 8

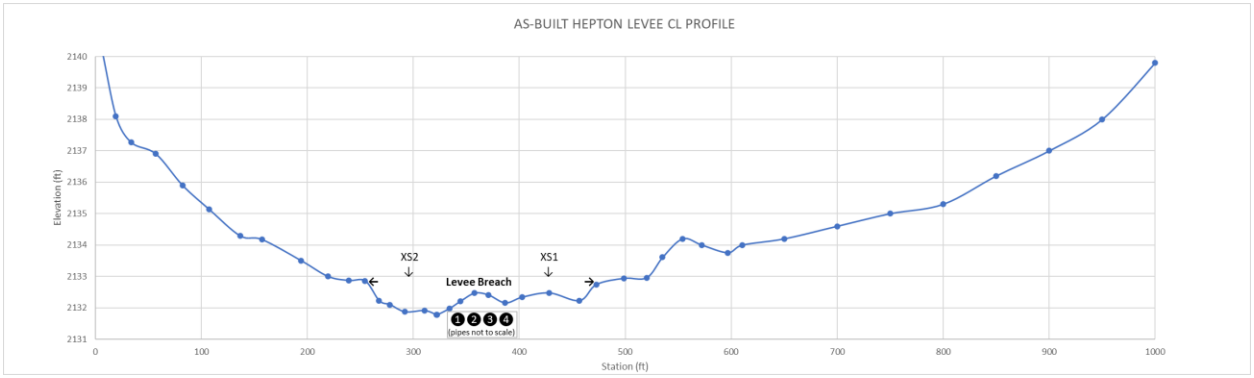
Photo 9

Photo 10

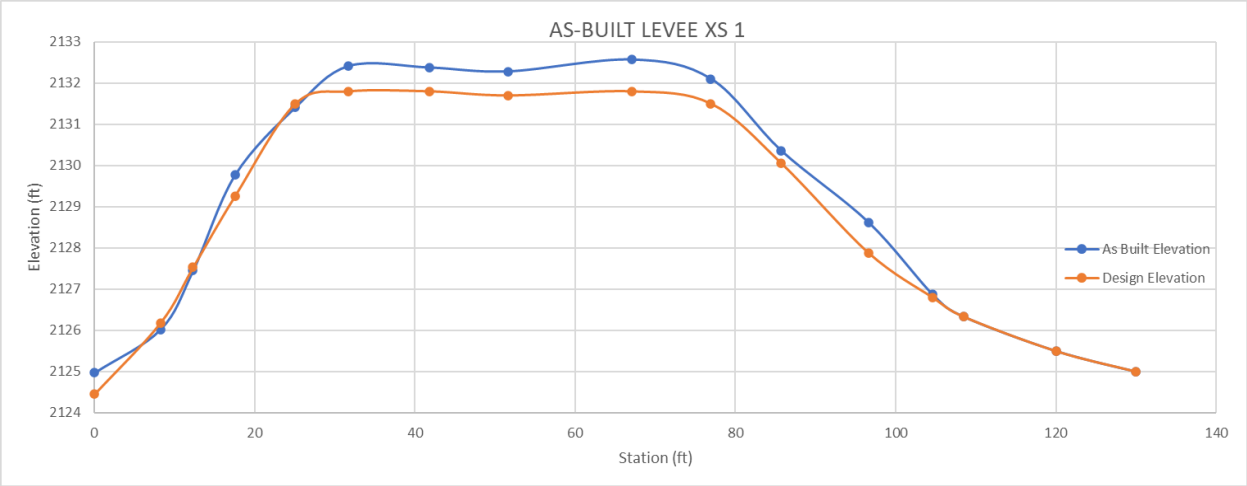
Survey 1



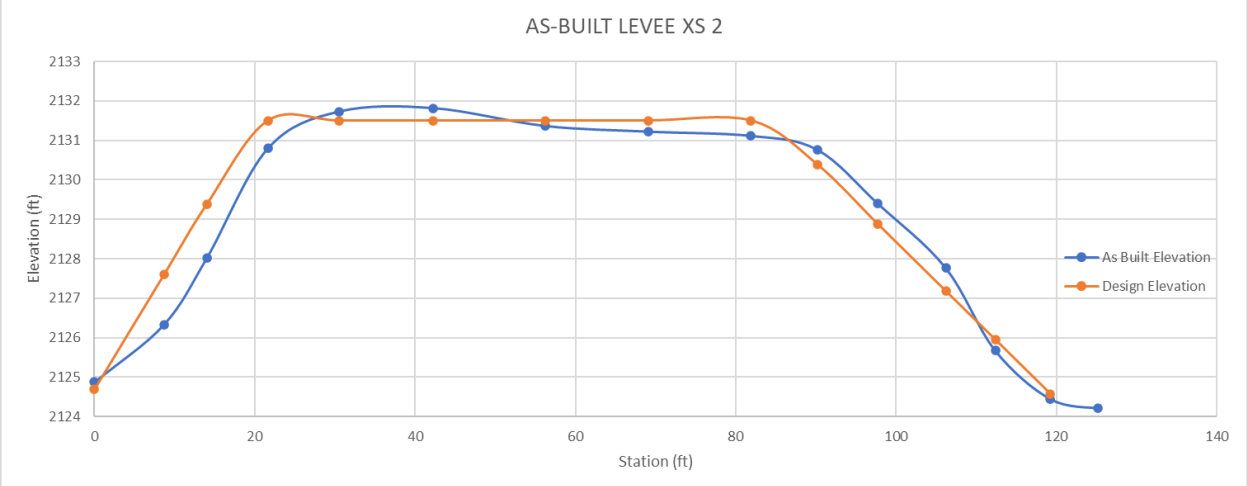
Survey 2



Survey 3



Survey 4



Survey 5

Culvert	Type	Length (ft)			Lake Side IE Elevation (ft)			River Side IE Elevation (ft)		
		Design	As-Built	Difference	Design	As-Built	Difference	Design	As-Built	Difference
1	36" HDPE	155	124.62	-30.38	2123.5	2123.75	-0.25	2123.1	2122.99	0.11
2	36" HDPE	125	116.34	-8.66	2125	2125.01	-0.01	2124.7	2124.56	0.14
3	36" HDPE	105	110.49	5.49	2126.5	2126.44	0.06	2126.2	2126.01	0.19
4	36" HDPE	105	106.56	1.56	2125.5	2125.54	-0.04	2126.5	2126.49	0.01

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: Gray's Meadow

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

Reporting Quarter/FY: Quarter 4 / FY2024-Annual

Partnership Funds Expenditures
Funds Allocated: $250K Planning; 5.25M construction
Funds Spent this Quarter: Planning: $4,259; Construction: $1,103,332
Funds Spent this Fiscal Year: Planning: $14,722; Construction: $3,998,108

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 8/1/24 to comply with the MBTA. Any located nests were marked and monitored through fledging or nest failure. Nest sites were marked as 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 continue as the primary tasks this quarter. This includes placement of wire mesh to block potential wildlife burrowing and placement of clean capping materials. Placement of precast and construction of cast-in-place WCS made good progress with >75% in place. Backfilling and control gate installation have begun. We sprayed about 150 acres of reed canary grass as part of site prep for seeding later this fall. The residue will be burned to reduce interference with cultivation and seeding that will

take place later this year. See attached 9/24/24 Weekly Construction Report for photos and narrative on typical construction activities.

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 expenditure.

No unanticipated expenditure occurred this quarter.

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

Investigation:	$ 185,745
Design:	$ 643,169
Construction:	$4,633,433
Total:	**$5,462,347**

Project Expenditures: **FY24 Oct 1, 2023- September 30, 2024**

	Q1 Oct - Dec	Q2 Jan -	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe					
Travel					
Supplies	$0	$0	$0	$4,216	$4,216
Equipment					
Contractual (Honorarium)	$1,512,218	$1,382,558	$0	$1,103,332	$3,998,108
Permitting					
Long-term operation and maintenance	$0 Pumping Utilities	$1,966	$8,497	$43	$10,506
Monitoring					
Other (Community Activities)					`
Total Direct Costs	$1,512,218	$1,384,524	$8,497	$1,107,591	$4,012,830
Indirect Costs	$0	$0	$0	$0	$0
Total	**$1,512,218**	**$1,384,524**	**$8,497**	**$1,107,591**	**$4,012,830**

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. Most water turbidity reading were below the 50 NTU limit. When monitoring indicated exceedance, adaptive management (typically a short-term 1-3 day cession of pumping) was implemented and turbidity returned to acceptable levels on resuming pumping. Typically, the exceedances were associated with rainfall that mobilized sediment on the project area. Pausing pumping allowed time for sediments to settle and improve water quality of subsequently transferred water. 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.

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

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: Gene Day Pond

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

Reporting Quarter/FY: Quarter 4 / FY2024-Annual

Partnership Funds Expenditures
Funds Allocated: $25,000
Funds Spent this Quarter: Approximately $0
Funds Spent this Fiscal Year: Approximately $3,211

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.

IDFG and BLM finalized the Right-of-Way agreement. This was the last administrative obstacle to completing the project on the ground.

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.

Unfortunately, the completed Right-of-Way agreement was not signed until 9-25-2024. As a result, there was insufficient time to complete final implementation of the project on the ground before the end of the fiscal year. If the weather allows, IDFG hopes to complete the project before the end of the year. But of course, this is Gene Day Pond, and something will likely delay completion one last time.

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	$0	$0	$0	$3,211	$3,211
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					$3211
Indirect Costs					$0.00
Total					**$3,211**

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.

Restoration Partnership

Quarter 4/ Annual Project Update Form

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 / FY2024-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.

Palouse Land Trust had a near final CE document prepared for RP review. INLC is actively reformatting that CE language to their own template format for Jordan Rehart's initial review and possible edits. When that is completed, a copy will be provided to the RP for comment/approval of the language and subsequent release of funds to the project.

INLC, Avista, and IDFG are currently planning to place RP funding into an escrow account to facilitate coordination of full payment of Avista and RP cost-share on the day of closing. IDFG (Dave), the CDA Tribe (Rebecca), and INLC (Todd) met to review the mechanics and safeguards of the escrow account funds transfer approach.

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.

Reformatting the nearly completed CE is a project delay. On the upside INLC and Jordan seem to be developing a reasonably good working relationship.

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. Inland Northwest Land Conservancy is actively and positively engaged with the landowner.

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.

Restoration Partnership

Quarter 4/ Annual Project Update Form

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/ FY2024-Annual

Partnership Funds Expenditures
Funds Allocated: $801,480 (44) and $372,400 (46)
Funds Spent this Quarter: $0
Funds Spent this Fiscal Year: $8,695

A. GENERAL INFORMATION

Project Proponent Name: Elise Brown
Primary Telephone Number: 208-510-6319
Email: elise_brown@fws.gov

Project Sponsor: U.S. Fish and Wildlife Service
Primary Telephone Number: 208-241-8043
Email: sandi_fisher@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 FY24 Q3, Inland Northwest Land Conservancy (INLC) drew down $8,695 of their agreement funds (which this cooperative agreement was originally set up for INLC to secure the Walker and Wilhelm/Miner Conservation Easements, within Canyon Marsh). This amount went towards paying INLC for their services to transfer the Schlepp Conservation Easement from EPA to being held by INLC (note: additional funds more than the $8,695 were used to pay INLC for the Schlepp Easement transfer but are not being reported in detail for Canyon Marsh financial reports, because they are associated with a different project area). This work for the Schlepp Wetlands Conservation Easement was completed on May 30, 2024. Inland Northwest Land Conservancy's cooperative agreements with the US Fish and Wildlife Service (Service) (F19AC00027-0003 and F19AC00027-0004) period of performance expired on June 19, 2024, and they have successfully closed out their cooperative agreement.

A balance of $83,221.70 remains in Service account FVHC9822010583A, to be used to establish a cooperative agreement for future restoration activities on easements within Canyon Marsh.

In 2022, Service staff collected soil samples across approximately 200 acres along the western portion of Canyon Marsh (on private land) to help to characterize contamination concentrations for remedial/restoration planning. During Q3/FY24, Service staff analyzed the soil samples and prepared a report of the findings, for internal usage only (and not to be distributed to the public).

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.

n/a

C. EXPENDITURES

1) Please describe any unforeseen expenditures.

n/a

Project Expenditures: **FY24 Oct 1, 2023- Sept. 30, 2024**

Budget Category	**Q1**	**Q2**	**Q3**	**Q4**	**Total**
Salaries/Fringe					
Travel					
Supplies					
Equipment					
Contractual			$8695		$8695
Other					
Total Direct Costs					
Indirect Costs					
Total			$8695		$8695

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.

   n/a

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. The Service 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 Service 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.

The Service 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. The Service collected soil samples in Sep/Oct 2022 on the Cochran's property (in Canyon Marsh) and had the lead analysis completed in 2024. The results of the soil analysis may inform the option to draw down water levels during spring migration to attract dabbling waterfowl to clean feeding habitat.

Restoration Partnership

Quarter 4/ Annual Project Update Form

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/ FY2024-Annual

Partnership Funds Expenditures
Funds Allocated: $656,140
Funds Spent this Quarter: $0
Funds Spent this Fiscal Year: $16,528

A. GENERAL INFORMATION

Project Proponent Name: Elise Brown
Primary Telephone Number: 208-510-6319
Email: elise_brown@fws.gov

Project Sponsor: U.S. Fish and Wildlife Service
Primary Telephone Number: 208-241-8043
Email: sandi_fisher@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.

   At the beginning of FY24/Q3, Inland Northwest Land Conservancy (INLC) drew down $16,528 of their agreement funds (this was in the account originally set up to pay for the Gleason's Conservation Easement)—to pay for work towards the Schlepp Wetlands conservation easement transfer from EPA to INLC. This work for the Schlepp Wetlands Conservation Easement was completed on May 30, 2024. (note: additional funds in excess of the $16,528 were used to pay INLC for the Schlepp Easement transfer but are not being reported in detail for Gleason's Marsh financial reports, because they are associated with a different project). Subsequently, INLC's cooperative agreement with the US Fish and Wildlife Service (Service) (originally established to pay for the Gleason easement) was successfully closed out on September 23, 2024.

The Service has $84,758.68 remaining funds allotted for Gleason's (from TR44), which anticipates establishing a cooperative agreement with a cooperator (for example, Ducks Unlimited), once collaboration with EPA and other partners on remediation strategies is conducted. The scope of work for this proposal will be to collect topographic, hydrologic, and soil agronomic data. Through a future cooperative agreement with the Service, the designated cooperator 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. Any data collected by future cooperators should complement (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, the Service, EPA, the Coeur d'Alene Trust, Idaho Department of Fish and Game, and Ducks Unlimited 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. No further discussions were held in FY24, but coordination with all partners will likely resume in FY25. Thus, the challenge of meshing remediation and restoration, data collection, and project implementation will continue to be addressed when EPA, the Service, the Coeur d'Alene Trust, and other partners strive to work in a unified way.

C. EXPENDITURES

1) Please describe any unforeseen expenditures.

n/a

Project Expenditures: **FY24 Oct 1, 2023- Sept. 30, 2024**

Budget Category	**Q1 Oct- Dec**	**Q2 Jan-Mar**	**Q3 Apr-June**	**Q4 July-Sept**	**Annual**
Salaries/Fringe					
Travel					
Supplies					
Equipment					

Contractual			$16,528		$16,528
Other					
Total Direct Costs					
Indirect Costs					
Total			**$16,528**		**$16,528**

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.

N/A

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 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 Service conducts waterfowl surveys at Gleason's field (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 Field is regularly used during spring migration by tundra swan and other waterfowl as documented by the Service's waterfowl surveys (2005-2024). 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).

The Service continues to work with project partners to meet the second objective, which is to collect feasibility information to help determine future remedial and restoration options.

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: Lake Creek Watershed Restoration

Project Approval Date: 1/11/20
Trustee Council Resolution #: 52

Reporting Quarter/FY: Quarter 4/ FY2024-Annual

Partnership Project Funds Expenditures Based on Resolution
Funds Allocated: $615,951
Funds Spent this Quarter: $7,574.16
Funds Spent this Fiscal Year: $76,980.52

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.

- **A total of 3400 willows cuttings (various species) were harvested in November 2023 from the Hepton Nursery to be planted adjacent to 177m of upper Lake Creek in transects generally oriented perpendicular to the valley and located on both sides of the channel. A total of 1800 dormant willow poles were planted on the east side of the restored stream channel in March. The remaining 1600 willow poles were planted on the west side of the channel in April. All disturbed areas were seeded with a native wetland grass mix at a rate of 67.2kg/ha.**

- **Restoration designs were finalized for treatment areas on upper Lake Creek and West Fork Lake Creek, encompassing 1268 m of stream channel and approximately 8.3 ha of**

adjacent valley bottom floodplain. We developed specific measurable objectives and criteria for stream enhancement, taking into account the existing channel pattern, profile, dimension and the frequency and duration of floodplain engagement. A HEC-RAS model was developed to evaluate restoration alternatives focused on increasing stream-floodplain connectivity using a design discharge equal to the 1-year RI flood. Several iterative model runs were executed to calibrate and finalize design elevations for in-channel structures to achieve the project objectives. The design created channel grade and profiles within the range of historical conditions when beaver was a predominant factor in shaping the valley bottom landscape. A cultural resource inventory was previously completed at this site and the Tribal Historic Preservation Office (THPO) issued a clearance letter pursuant to NHPA Section 106 in May 2024. Permit applications were submitted in May 2024 for CWA Section 404 and 401 authorizations and received by the end of July.

- **The restoration treatments on West Fork Lake Creek and upper Lake Creek were implemented from August 9 – September 30, 2024. A rock grade control was constructed at the downstream end of the project reach to raise the existing streambed within the incised channel by 1.3m to establish a grade of 1.3% and to connect the upstream treatment reach with the downstream untreated channel. Upstream of the grade control within WF Lake Creek, seven in-channel structures emulating the flow obstruction effects of natural wood jams and beaver dams were constructed. The structures consisted of approximately 50 logs, averaging 9m long x 0.4m diameter, buried into the bed and banks to establish stable grade control elevation, increase floodplain connectivity, raise the local groundwater table and provide scour protection. Imported stream gravels were placed within the channel for a distance of approximately 8m upstream and downstream of the buried logs to simulate riffle and glide habitats. Upstream of the grade control within upper Lake Creek, seven riffles were constructed using large wood buried in the bed and banks and imported stream gravels to establish local grade control. Within the existing entrenched floodplain, fourteen discrete fill cells with a combined area of 687sq.m were constructed to reduce the capacity of the channel and promote increased connectivity with the valley bottom. An existing pond levee which had isolated the stream from its historic floodplain in the valley was removed to increase the active floodplain width by four-fold. More than 370sq.m of floodplain swales were excavated to provide improved wetland diversity and increase water retention in the valley bottom. Approximately 12 MBF (35 CY) of large wood was placed in the channel and adjacent floodplain to simulate natural stream wood loading at a rate of 9m^3/100m. In these same areas, 7500 herbaceous plugs (*Carex* and *Juncus*, various species) were planted, along with 650 containerized trees and shrubs. Larger aspen and cottonwood trees were wrapped with 1.8m tall welded wire fence to protect from ungulate browse. Dormant willows will be planted in the treatment reach in the Fall 2024.**

- **The Coeur d'Alene Tribe worked with the Worley Highway District (WHD) to finalize designs to replace the aging, undersized culverts located at WF Lake Creek at Idaho Rd and EF Bozard Creek at Weller Rd to improve fish passage and connectivity. Permit applications were submitted for CWA Section 404 authorizations and THPO provided NHPA 106 cultural clearance for the projects; permits for both locations were received in September. The EF Bozard Creek culvert at Weller Rd will be replaced in October 2024, while the WF Lake Creek culvert at Idaho Rd is now scheduled for 2025.**

- **A design and CWA Section 404 permit was submitted in June for authorization of a project on upper Bozard Creek to increase stream and riparian wetland function through placement of large wood in 740m of stream channel to simulate natural woody debris loading. This project will increase habitat complexity for native westslope cutthroat trout, will improve channel stability, and reduce bank erosion. Approximately 12 MBF (37 CY) of large woody debris will be used to create single and multiple log structures that will be placed in the channel to simulate natural wood loading. Wood will be placed on stream adjacent wetlands and within the ordinary high-water mark of stream reaches where existing wood loads are less than a target wood loading threshold of 9m^3/100m. The logs will be 6-9m long x 0.4m diameter on average. Wood will be placed on site using a small excavator with a grapple attachment, or by hand for smaller pieces and where access is limited. Logs will be buried into the bank or placed between existing trees to anchor wood in place. Other logs will be completely buried within the ordinary high-water mark to create pool habitats, accumulate sediment, and provide other improved habitat conditions for aquatic species. Disturbed areas will be seeded with native grass seed. All permit authorizations were received by late September.**

C. EXPENDITURES

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

- **Direct project cost shares were provided through a USFWS National Fish Passage Program grant awarded to improve fish passage and floodplain connectivity and a NOAA National Integrated Drought Information System (NIDIS) grant awarded to improve the drought resilience of streams and wetland habitats. Total cost share from these partners during FY24 was $204,023.36.**

Project Expenditures: **FY24 Oct 1, 2023- Sept. 30, 2024**

	Q1 Oct - Dec	Q2 Jan -	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	$17,836.54	$11,586.01	$6,514.40	$4,192.38	$40,129.33
Travel	$0	$0	$0	$0	$0
Supplies	$719.28	$12,573.81	$4,355.20	$1,625.04	$19,273.33
Equipment	$0	$0	$0	$0	$0
Contractual	$0	$0	$1,625.00	$0	$1,625.00
Permitting	$0	$0	$0	$0	$0
Long-term operation and maintenance	$0	$0	$0	$0	$0
Monitoring	$0	$0	$0	$0	$0
Other	$0	$0	$0	$0	$0
Total Direct Costs	18,555.82	24,159.82	12,494.60	5,817.42	61,027.66
Indirect Costs	6,452.68	4,921.24	2,822.20	1,756.74	15,952.86
Total RP Expenditures	**25,008.50**	**29,081.06**	**15,316.80**	**7,574.16**	**76,980.52**
Other (Cost-Share/volunteer/Re-directed Programmatic Funds)*	11,094.55	1,415.86	55,698.07	135,814.88	204,023.36
Total RP and Other	**36,103.05**	**30,496.92**	**71,014.87**	**143,389.04**	**281,003.88**

D. PROJECT PARTNERS

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

- **Worked with Clemson University principal investigator, graduate students and tribal interns to install monitoring infrastructure at several project sites (control/treatment) to collect pre- and post-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 by Clemson students and Tribal interns focused on collection of data at treatment and control sites before and after restoration. Analysis of data was not completed during this performance period.**

In-channel and floodplain placements of large wood on upper Lake Creek; example of a "floodplain fill cell" is visible (left foreground).

- **Floodplain fill cell installed on upper Lake Creek. Cell has been planted with herbaceous grass plugs and containerized aspen and cottonwood trees.**

- **In-channel structure, constructed downstream of the confluence on WF Lake Creek and upper Lake Creek, emulating the flow obstruction effects of natural wood jams and beaver dams.**

Project Title:

Project Approval Date: 1/11/2020
Trustee Council Resolution #: 52

Reporting Quarter/FY: Quarter 4 – FY 2024 (July 1, 2024 – September 30, 2024); Inclusive of Annual Report

Partnership Funds Expenditures

Total Amount Awarded:	**$ 3,808,450.00**
Partnership Funds Spent this Quarter:	**$ 540,980.15**
Partnership Funds Spent this Fiscal Year:	**$ 916,216.18**
Partnership Funds Spent to Date:	**$ 1,602,347.89[1]**

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: The Prichard Creek Conservation Easement (CE) was signed in late August 2024 by Idaho Forest Group. This CE will protect 1,813 acres of upland forest, floodplain and Prichard Creek from future mining and development activities. This includes the entirety of the Prichard Creek Restoration Project. The protections are described in the following excerpt from the CE Baseline Report developed by Kaniksu Land Trust, the holder of the CE.

"The Conservation Easement protects relatively natural forest, wetland, and riparian areas by restricting subdivision and development of the Property, thus ensuring that the land will forever remain in a largely natural state and condition.

[1] *This total, $1,602,347.89, is the true total spent at the end of the fifth year of this project (FY2020 – 2024). This does not accurately reflect the total of the five annual reports added together ($1,630, 241.29). This discrepancy of $27,893.40 is due to duplicate reporting of funds spent in earlier year's reporting.*

The Conservation Easement protects relatively natural and native forest by ensuring that timber is harvested using sustainable management practices.
The Conservation Easement protects relatively natural wildlife habitat by prohibiting subdivision, commercial facilities, irresponsible timber harvesting and other damaging activities and by allowing restoration efforts that mitigate the impacts of historical mining activity.
The Conservation Easement protects open space by ensuring that the Property will forever remain open and natural through the restriction of new subdivision, development, signs, billboards, towers, and overhead utility easements and by ensuring perpetual access to the recreating public.
The Conservation Easement preserves and enhances water quality by protecting the corridor of Prichard Creek from subdivision and development and by promoting restoration efforts within the channel.

The Conservation Easement contributes to the protection of wildlife corridors that provide connectivity along Prichard Creek, which is bordered on either side by federally administered forestlands and is known to serve a diverse array of wildlife species."

Invasive Species Management: In October, IFG completed a treatment of known populations of Bohemian knotweed (*Fallopia x bohemica)* in the project area. Visual inspection of the populations previously treated show very high mortality with very minimal regrowth two years post treatment. The 2024 treatment was done with a IFG applicator using remaining herbicide provided by the Shoshone County Weed Department. There was one main plot of knotweed treated this fall. It was close to the Phase 1 project area and had been harvested by beavers to use in their dams. This is problematic as knotweed is able to grow from cuttings. Visual inspection for new growth will occur next summer to try to remove any new populations.

Monitoring: Monitoring continues in the Phase 1 project area. IFG took drone footage of the project area at the end of September to be analyzed by InterFluve for the 1-year post-construction monitoring report. This report should be completed over the winter. Visual inspection showed that water was flowing throughout all the Phase 1 project area during the dry season this year. Finding continuous surface flows was encouraging this fall because during the 2023 season there were some small stretches in the Phase 1 area that did not have surface flows.

IDFG completed snorkel surveys in five pools along Prichard Creek. There were 82 total westslope cutthroat trout counted and the majority of them, including all of the fish over 12", were seen in the Phase 1 project area. DEQ also completed a BURP survey of the Prichard Creek sites again in 2024, but that data is not yet available online.

Project Planning: The project team is ready to start moving forward on restoration conceptualization and engineering design for the Phase 2 project area now that the CE is in place. Phase 2 covers about 2.8 miles (reaches 5 & 6 as defined in the Prichard Creek Assessment completed by InterFluve in 2023) of stream through the area most impacted by the floating dredge. Design for this section would likely include a number of field investigations and significant data analysis before a restoration concept was decided upon and engineering design can be completed. Completing design for this section is predicted to take about 2 years and include costs up to $800,000. According to our understanding the RP would like TU to hold a new solicitation and procurement process to identify the consultant to complete investigations and design of the Phase 2 project area. The Preliminary Planning and Phase 1 projects

were completed at about $1.9 million underbudget. We are planning to move forward with using a portion of the remaining RP funds to proceed with Phase 2 planning.

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 only challenge that delayed recent progress on this project has been the length of time it took to get the CE in place. This was the result of many factors outside of any of our control, but now that this major milestone has occurred we are freed up to move forward in restoration planning.

C. EXPENDITURES

1) Please describe any unforeseen expenditures.

There have been no unforeseen expenditures this year. As a result of the time lapse between contractors submitting invoices to TU, TU paying the invoices, TU invoicing DEQ and DEQ paying the invoices from RP funds; the funds that are shown as spent in the table below is much later than when the work was completed.

2) Please describe other cost share or contributing funds.

For this fiscal year, IFG has contributed $22,401.13 in employee salary and mileage. Also, IFG contributed the value of the logs to the implementation of Phase 1. The value for the 294.57 Mbf (million board feet) of timber is estimated at $183,776.52. This cost share was not included in last year's report. This brings the total life of project cost share (without the conservation easement value) to $with the majority coming from IFG, but other smaller amounts from Shoshone County, TU, IDFG, and BLM. The conservation easement value was estimated through the appraisal process at $3 million. With this $403,251 plus $1.4 million of the conservation easement, 50% match will have been contributed to this project at the end of the 2024 fiscal year.

Project Expenditures[2]:

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe	$13,783.42	$0	$0	$17,040.68	$30,824.10
Travel	$3,514.37	$0	$0	$2,756.01	$6,270.38

[2] *Project expenditures are noted for the quarter in which invoices were paid and are not wholly reflective of which fiscal quarter work was completed in prior to the payment.*

Supplies	$2,342.49	$0	$0	$20,135.62	$22,478.11
Equipment	$1,598.14	$0	$0	$0	$1,598.14
Contractual (Honorarium)	$341,124.48	$0	$0	$5,526.64	$346,651.12
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	$365,302.30	$0	$0	$521,020.85	$886,323.15
Indirect Costs	$9,933.73	$0	$0	$19,959.30	$29,893.03
Total	$375,236.03	$0	$0	$540,980.15	$916,216.18

D. PROJECT PARTNERS

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

   There have been no new project partners this quarter.

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.***
    - A Conservation Easement was signed protecting 1,913 acres of the Prichard Creek drainage including about 10.5 miles of stream and floodplain and nearly 1,000 acres of upland forestlands from future development and mining.
2. ***Connect: Improve connectivity and aquatic organism passage in migratory corridors for westslope cutthroat trout and other aquatic life.***
    - The ultimate goal of this project is return surface flows throughout the summer through the length of Prichard Creek. Connectivity was not an element of the Phase 1 project area, but it is at the heart of the Phase 2 project which will be the focus moving forward for Prichard Creek.
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 continued to make for more functional stream channel and floodplain. We've documented lots of use in the Phase 1 project area by beaver and Westslope cutthroat trout. This spring did not have much of a runoff event so the project area looks similar to as it did at the end of construction in most sections. The biggest changes included vegetation beginning to take root in and around some of the structures and beavers have increased the flooded area in some portions of the project area because they are using the structures to build dams from. The pools and cover created during the construction continue to provide excellent habitat for aquatic species.
4. ***Enhance Communities: Improve economic vitality, recreational value and educational opportunity for the local communities.***
    - The Conservation Easement will allow for public daytime access to the whole project area which will have 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. Most of the contracted work on this project has been using local contractors with much of the money coming from the project staying in Shoshone County. Benefitting the local economy is a major aspiration of the Prichard Creek Restoration.
5. ***Collaborate: Collaborate successfully among diverse private companies, public entities, and non-governmental organizations.***
    - Although this year was much less active for the Prichard Creek project, collaboration continued to occur. The CE involved ongoing work between Idaho Forest Group and Kaniksu Land Trust. IFG created and shared a number of outreach pieces on the project. DEQ, InterFluve and IDFG completed surveys to help with monitoring the project area.

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.

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: Upper Little North Fork Coeur d'Alene River

Project Approval Date: November 9, 2023
Trustee Council Resolution #: 63

Reporting Quarter/FY: Quarter 4/ FY2024-Annual

Partnership Funds Expenditures
Total Amount Awarded: $400,000.00
Funds Allocated: Resolution #63 $75,000.00
Funds Spent this Quarter: $34,505.87
Funds Spent this Fiscal Year: $34,505.87

A. GENERAL INFORMATION

Project Proponent Name: Chris Robinson
Primary Telephone Number: 208-769-3067
Email: christopher.robinson2@usda.gov

Project Sponsor: USDA-Forest Service/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.

   Initial project work for Hudlow Meadows portion of the project area started in the summer of 2024 with sourcing of large woody debris to be used in meadow and stream restoration. The wood sourcing contract has been awarded for $249,700.00 and is still active and will continue into FY25.
   The survey work for bridge design over Iron Creek (FSR 1532) has been completed and the design work has begun. The survey and design work are being funded through the Collaborative Aquatic Landscape Restoration (CALR) program.

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 have delayed progress 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.

   The Forest Service was able to secure $830,000.00 from the CALR program for the Upper Little North Fork Coeur d'Alene River project.

   To date, $34,505.87 of the $75K of requested RP funds (Resolution #63) have been utilized in the wood sourcing contract.

   To date, $138,856.63 of CALR funds have been utilized in the wood sourcing contract.

Project Expenditures: **FY20 Oct 1, 2023- Sept. 30, 2024**

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe					
Travel					
Supplies					
Equipment					
Contractual (Honorarium)				$34,505.87	$34,505.87
Permitting					
Long-term operation and maintenance					
Monitoring					
Other funding sources (CALR)					$138,856.63
Total Direct Costs					
Indirect Costs					
Total Matching Contributions					$138,856.63

Total RP Funds					$34,505.87
Total Project Expenditures					$173,362.50

D. PROJECT PARTNERS

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

   Trout Unlimited has a vested interest in the project area is currently investigating opportunities to partner and participate in the project.

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.

   Project is in early stages of implementation.

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

   Project is in early stages of implementation.

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: Upper St. Joe River

Project Approval Date: November 9, 2023
Trustee Council Resolution #: 63

Reporting Quarter/FY: Quarter 4/ FY2024-Annual

Partnership Funds Expenditures
Total Amount Awarded: $8,000,000.00
Funds Allocated: Resolution #63 $50,000.00
Funds Spent this Quarter: $8,915.00
Funds Spent this Fiscal Year: $8,915.00

A. GENERAL INFORMATION

Project Proponent Name: Ari Colvin
Primary Telephone Number: 208-245-6045
Email: ariel.e.colvin@usda.gov

Project Sponsor: USDA-Forest Service/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.

   Initial project work has begun in the summer of 2024 starting with initiating NEPA processes on two key components of the project and initiating survey and design work for replacing an undersized and deteriorating bridge that spans Red Ives Creek.

   Initial survey and design work has been awarded to TD&H Engineering for replacing the undersized bridge that spans Red Ives Creek and removing the deteriorating bridge.

   Stream survey work and wood unit reconnaissance has begun and is ongoing to prioritize sections for restoration and to review potential units for large woody debris supply needs for restoration work.

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 replacement of the bridge on Forest Service Road 218 would occur on the same footprint as the current road and bridge. The Forest Service received concurrence from SHPO for the geotechnical testing, however the Cd'A THPO has requested additional review time to better examine the project proposal and location before the geotechnical boring is conducted. The geotechnical testing will be delayed until concurrence is reached resulting in delay of the bridge design. Action is currently underway to extend the contract with TDH for design work into next year.

C. EXPENDITURES

1) Please describe any unforeseen expenditures.

No unforeseen expenditures have been rexperienced this quarter.

2) Please describe other cost share or contributing funds.

The Forest Service was able to secure a $50,000.00 grant from the USFWS for the Upper St. Joe River improvement project.

To date, $8,915.00 of the $50K of requested RP funds (Resolution #63) have been utilized in the bridge survey and design work.

To date, $50,000. of USFWS funds have been utilized in the survey and design work.

Project Expenditures: **FY20 Oct 1, 2023- Sept. 30, 2024**

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe					
Travel					
Supplies					
Equipment					
Contractual (Honorarium)				$8,915.00	$8,915.00
Permitting					
Long-term operation and maintenance					

Monitoring					
Other funding sources (USFWS)				$50,000.00	$50,000.00
Total Direct Costs					
Indirect Costs					
Total Matching Contributions					$50,000.00
Total RP Funds					$8,915.00
Total Project Expenditures					$58,915.00

D. PROJECT PARTNERS

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

   Trout Unlimited has been introduced to the project and has a favorable interest in partnering with the restoration and habitat improvement of bull and westslope cutthroat trout habitat. An agreement is planned for 2025 with Trout Unlimited to place approximately 180 log in Red Ives Creek up stream of previous log placement efforts.

   An initial meeting with Coeur d'Alene Tribe's native trout fisheries biologist and hydrologist/geomorphologist has been conducted. Ideas of habitat improvement actions and prioritization were discussed for Red Ives, Heller, and Sherlock Creeks along with further site investigations for Medicine Creek. Information will be shared as project development continues.

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.

Project is in early stages of implementation.

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

Project is in early stages of implementation.

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: Beaver Creek

Project Approval Date: November 9, 2023
Trustee Council Resolution #: No funds have been requested at this time.

Reporting Quarter/FY: Quarter 4/ FY2024-Annual

Partnership Funds Expenditures
Total Amount Awarded: $2,430,000.00
Funds Allocated: $0.00
Funds Spent this Quarter: $0.00
Funds Spent this Fiscal Year: $0.00

A. GENERAL INFORMATION

Project Proponent Name: Chris Robinson
Primary Telephone Number: 208-769-3067
Email: christopher.robinson2@usda.gov

Project Sponsor: USDA-Forest Service/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.

   Initial project work of this multi-phased and multi-year project began in the summer of 2024 starting in the headwaters of the tributaries utilizing funding sources other than Restoration Partnership funds this year.

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.

   One challenge faced this summer was one of our potential partners were unable to secure non-federal funding. However, the opportunity exists in FY25 to pursue other grant and funding opportunities.

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.

As part of the Beaver Creek Restoration project area the Forest Service was able award and complete 4.2 miles of road decommissioning.

To date, $10K of KV and $55,560.00 of Retained Receipt funds have been utilized to accomplish the watershed work.

Project Expenditures: **FY20 Oct 1, 2023- Sept. 30, 2024**

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 July-Sept	Annual
Salaries/Fringe					
Travel					
Supplies					
Equipment					
Contractual (Honorarium)					
Permitting					
Long-term operation and maintenance					
Monitoring					
Other funding sources (KV and Retained receipts))				$10,000.00 $55,560.00	$65,560.00
Total Direct Costs					
Indirect Costs					
Total Matching Contributions				$65,560.00	$65,560.00
Total RP Funds					$0.00

Total Project Expenditures					$65,560.00

D. PROJECT PARTNERS

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

   Trout Unlimited has a vested interest in the project area and is currently investigating opportunities to partner and participate in the project.

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.

   Project is in early stages of implementation.

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

   Project is in early stages of implementation.

Restoration Partnership

Project Update Form

Project Title: Enhancing design to restore fish passage and ecosystem function in Miesen Creek

Project Approval Date: 10-09-2023
Trustee Council Resolution #: 64

Reporting Quarter/FY: Q4/FY24/Annual

Partnership Funds Expenditures
Amount Awarded: $60,000
Funds Spent this Quarter: $0
Funds Spent this Fiscal Year: $23,946.04

A. GENERAL INFORMATION

Project Proponent Name: *Carlos Camacho*
Primary Telephone Number: *208-769-1414*
Email: *carlos.camacho@idfg.idaho.gov*

Project Sponsor Name (if applicable): *Idaho Department of Fish and Game*
Agency: *Idaho Department of Fish and Game*
Primary Telephone Number: *208-769-1414*
Email: *carlos.camacho@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.

During this reporting period, the engineer successfully completed hydraulic modeling, a key milestone for identifying and communicating the challenges facing Miesen Creek to potential grantors targeted for future implementation funding.

Geotechnical boring of the road at the culvert is scheduled for December to coincide with an unrelated project near Troy, Idaho, allowing for cost savings on the Geotechnical services. However, before boring can commence, Section 106 compliance must be completed by a USFS archaeologist. There is a potential delay that may impact both the geotechnical boring schedule and the overall timeline for achieving 30% design completion (see "Challenges" section below).

A significant objective for the restoration project is reducing sedimentation levels above the culvert. To address this, we engaged with the adjacent private landowner to discuss the project and gather insights into sedimentation sources in the stream. This initial outreach led to a productive conversation, and a meeting was scheduled with Idaho Fish and Game (IDFG) for a stream walk with the landowner to

explore restoration opportunities on private land that would enhance the culvert replacement and downstream restoration efforts. The landowner expressed strong interest in participating in the restoration of Miesen Creek.

In October, an on-site meeting between IDFG and the landowner is scheduled. Because the landowner's and engineer's schedules did not align, a second meeting will follow between IDFG and the engineer to walk the private property and discuss feasible options for mitigating bank erosion and reducing sedimentation within the landowner's constraints. This meeting will result in a refined design estimate that will incorporate additional costs beyond the initial design scope.

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.

This quarter, progress was affected by a dispute over the ownership of the St. Joe River Road between the USFS and Benewah County where the culvert is located. The county has maintained the road under the assumption of an agreement wherein the county handles maintenance while the USFS retains ownership. However, the USFS has questioned its ownership of this road section. After ongoing discussions, a temporary understanding was reached, with both parties acknowledging USFS ownership of the road. However, recent information from the Federal Highway Administration has created uncertainty to the previous understanding. Conversations between the county and USFS are ongoing.

Establishing road ownership is essential for determining the correct pathway for environmental compliance and funding responsibilities. This is particularly important because Section 106 compliance must be completed before scheduled Geotechnical boring can proceed in December. Additionally, Geotechnical boring is required to finalize 30% of the project design. Delays could result if Section 106 compliance is not achieved in time to keep the December Geotechnical boring on schedule.

Another challenge is securing funding for additional design work on adjacent private land. Although this adds complexity, the private landowner's involvement significantly enhances the project's success potential by reducing sediment in the stream system and creating options for stream realignment with the new culvert. A change order to the contract with Rivhab (the engineering firm) will follow the October site meeting with Idaho Fish and Game (IDFG), the landowner, and the engineer. Preliminary estimates for the additional private land design and construction oversight are around $60,000. Upon finalizing the cost estimate, IDFG will explore funding sources, including the Restoration Partnership, Avista, and IDFG.

C. EXPENDITURES -Use the budget template to fill in all project expenditures this fiscal year.

1) Please describe any unforeseen expenditures

The addition of the landowner component has introduced adjustments to the original design scope, which did not initially include activities on private land or construction oversight. Although no additional costs were incurred this quarter, these expenses are anticipated to arise in the next quarter.

Project Expenditures: Date(s)

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 Jul - Sept	Annual
Salaries/Fringe					
Travel					
Supplies					
Equipment					
Contractual			19,013.54	4,932.50	23,946.04
Permitting					
Long-term operation and maintenance					
Monitoring					
Other					
Total Direct Costs					
Indirect Costs					
Total			19,013.54	4,932.50	23,946.04

D. PROJECT PARTNERS

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

This period, the USFS and Benewah County engaged in multiple discussions to determine ownership of the St. Joe River Road, which is essential for defining the compliance and permitting responsibilities for the project. Other entities, such as the Idaho Department of Transportation, Federal Highways Administration, Local Highway Technical Assistance Council have also been involved in these conversations. Currently, Section 106 compliance for the Geotechnical boring is on hold with a USFS archaeologist. This may be delayed if road ownership is not resolved promptly.

In addition, IDFG contacted the adjacent private landowner following initial conceptual design alternatives with the engineer. The landowner's involvement is critical, as erosion on their property contributes to sedimentation at the old culvert and downstream in the channel, impacting fish passage and the wetland's water control structure. Addressing these erosion

issues on the private land will support the long-term effectiveness of the new culvert and overall channel restoration. IDFG is working with the engineer to draft a change order to the original Scope of Work, as this additional work will increase costs beyond the original request to the Restoration Partnership (RP). Funding sources for these additional design costs are under exploration, and a grant application to support implementation is currently under review, which includes a rough estimate of private land implementation costs. Currently, only the additional design costs for the private land remain unfunded.

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.

An engineer was contracted to complete initial surveys and hydraulic modeling. Adding the adjacent landowner as a partner will increase design costs. However, incorporating their property into the project will enhance the ability to holistically address the issues affecting Miesen Creek, extend the longevity of the project's benefits, and reduce future maintenance risks for both the restoration work and St. Joe River Road.

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

The project will be considered complete once we obtain stamped engineering plans for the culvert replacement and stream restoration below the culvert. If additional funding is secured and a change order is issued, the stamped designs will also include stream restoration upstream of the culvert on private land. The stamped designs are expected to be completed by summer 2025.

Administrative Review Completed: Report was reviewed and approved for submittal on behalf of Idaho Department of Fish and Game on 11/1/2024.

Matt Belnap
Fish Habitat Program Coordinator

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: Benewah Creek ′ełtumish Stream and Wetland Restoration

Project Approval Date: 1/23/24
Trustee Council Resolution #: 65

Reporting Quarter/FY: Quarter 4/ FY2024-Annual

Partnership Project Funds Expenditures Based on Resolution
Funds Allocated: $455,316
Funds Spent this Quarter: $0
Funds Spent this Fiscal Year: $0

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.

- **No work completed on this project during the quarter. Monitoring infrastructure will be established Q1 FY25 and survey and design work are anticipated to begin during this same timeframe.**

C. EXPENDITURES

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

Project Expenditures: **FY24 Oct 1, 2023- Sept. 30, 2024**

	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	**$0**	**$0**	**$0**	**$0**	**$0**
Equipment	**$0**	**$0**	**$0**	**$0**	**$0**
Contractual (includes honorariums)	**$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	**$0**	**$0**	**$0**	**$0**	**$0**
Total Direct Costs	**$0**	**$0**	**$0**	**$0**	**$0**
		$0	**$0**	**$0**	**$0**
Indirect Costs	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP Expenditures	**$0**	**$0**	**$0**	**$0**	**$0**
Other (Cost-Share/volunteer/Re-directed Programmatic Funds, etc.)*	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP and Other	**$0**	**$0**	**$0**	**$0**	**$0**

D. PROJECT PARTNERS

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

- **The Bonneville Power Administration is the primary partner involved with this project. A new contract request that included a description of the Benewah Creek 'ełtumish Stream and Wetland Restoration projects was submitted to BPA and approved for funding for the contract period June 1, 2024 – May 31, 2026. BPA will**

provide a cost share for design, permitting and implementation of these projects.

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.

- **No monitoring conducted during this reporting period.**

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: Lake Creek Corridor Protection and Enhancement

Project Approval Date: January 26, 2024
Trustee Council Resolution #: 65
Reporting Quarter/FY: Quarter 4/ FY2024-Annual

Partnership Project Funds Expenditures Based on Resolution
Funds Allocated: $83,750
Funds Spent this Quarter: $0
Funds Spent this Fiscal Year: $0

A. GENERAL INFORMATION

Project Proponent Name: Mike Crabtree- Inland Northwest Land Conservancy (INLC)
Primary Telephone Number: 971.237.1107
Email: mcrabtree@inlandnwland.org

Project Sponsor: Coeur d'Alene Tribe
Primary Telephone Number: 208.667.5772
Email: rstevens@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.
   - **Throughout the reporting period, Tribal staff and Tribal leadership continued to meet with INLC and the landowner to finalize contract documents with INLC to advance the work needed for securing the Conservation Easement.**

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.
   - **Some questions remain given the current Kootenai County/Eastside Highway District easement on the adjacent road and what potential implications might result in securing the Conservation Easement.**

C. EXPENDITURES

1) Please describe any unforeseen expenditures. **N/A**
2) Please describe other cost share or contributing funds.
   - **Previously funded restoration projects with the RP and BPA.**

Project Expenditures: **FY24 Oct 1, 2023- Sept. 30, 2024**

	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	**$0**	**$0**	**$0**	**$0**	**$0**
Equipment	**$0**	**$0**	**$0**	**$0**	**$0**
Contractual (includes honorariums)	**$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	**$0**	**$0**	**$0**	**$0**	**$0**
Total Direct Costs	**$0**	**$0**	**$0**	**$0**	**$0**
	$0	**$0**	**$0**	**$0**	**$0**
Indirect Costs	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP Expenditures	**$0**	**$0**	**$0**	**$0**	**$0**
Other (Cost-Share/volunteer/Re-directed Programmatic Funds, etc.)*	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP and Other	**$0**	**$0**	**$0**	**$0**	**$0**

D. PROJECT PARTNERS

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

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. **N/A**

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

Restoration Partnership

Quarter 4/ Annual Project Update Form

Project Title: Big Creek Fish Passage Barrier Removal

Project Approval Date: January 26, 2024
Trustee Council Resolution #: 65

Reporting Quarter/FY: Quarter 4/ FY2024-Annual

Partnership Project Funds Expenditures Based on Resolution
Funds Allocated: $214,000
Partnership Funds Spent this Quarter: $0
Partnership Funds Spent this Fiscal Year: $0

A. GENERAL INFORMATION

Project Proponent Name: Sunshine Mine- Tom Henderson, Mine Manager
Primary Telephone Number: 208.783.1700
Email: thenderson@silveropp.com

Project Sponsor: Coeur d'Alene Tribe
Primary Telephone Number: 208.667.5772
Email: rstevens@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.
    - **During the reporting period, Tribal staff along with BLM, USFS, Sunshine Mine, and HMH (Engineering contractor) met to discuss project site survey results, draft designs, Section 7 NHPA Cultural Resource Investigation requirements, FEMA No-rise certification, 404 permitting timelines, NEPA Determination of No Effects requirements, Right of Way permits previously secured with BLM both at the Sunshine Mine dam site as well as the upstream water control structure, and pre, during, and post construction water quality testing (e.g., turbidity)etc. Please refer to the revised schedule below for future milestones.**

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. **N/A**

C. EXPENDITURES

1) Please describe any unforeseen expenditures. **N/A**

2) Please describe other cost share or contributing funds.
   - **Sunshine is providing their match for the HMH contract work.**

Project Expenditures: **FY24 Oct 1, 2023- Sept. 30, 2024**

	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	**$0**	**$0**	**$0**	**$0**	**$0**
Equipment	**$0**	**$0**	**$0**	**$0**	**$0**
Contractual (includes honorariums)	**$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	**$0**	**$0**	**$0**	**$0**	**$0**
Total Direct Costs	**$0**	**$0**	**$0**	**$0**	**$0**
	$0	**$0**	**$0**	**$0**	**$0**
Indirect Costs	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP Expenditures	**$0**	**$0**	**$0**	**$0**	**$0**
Other (Cost-Share/volunteer/Re-directed Programmatic Funds, etc.)*	**$0**	**$0**	**$0**	**$0**	**$0**
Total RP and Other	**$0**	**$0**	**$0**	**$0**	**$0**

D. PROJECT PARTNERS

1) Please describe the involvement of project partners (or new partners acquired) this reporting period, if applicable.*
   - **USFS, BLM, HMH, Gorman and Associates, and Central Shoshone Water District.**

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. **N/A**

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

Working session

Site visit during mid-flow

The following gantt chart schedule is adaptive in nature.

Sunshine Diversion Dam Removal Project

Project Update: **10/24/2024**

8-Sep-23 Project Application Submission
8-Nov-23 Project Awarded

	2024												2025											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
RP Team Meetings:	4	7	13	3	15			21		2		11												
Location:	KEL	CDA	KEL	CDA	KEL			KEL		CDA		KEL												
Project Design																								
General Engagement awarded			**15-Mar**																					
Project Site Survey						**4-Jun**																		
RP Meetings with CSWD									**9-Sep**		X													
HMH Design & Cost (60%)											X													
HMH Design & Cost (90%)													X											
RP Design & Cost Approval															X									
Project Permitting																								
HMH No-Rise Analysis								**15-Aug**																
Shoshone County No-Rise Approval										?														
FEMA No-Rise												X												
Cultural Resource Assessment											X													
BLM Determination of NEPA Adequacy														X										
404 Permit/Categorical Exclusion															X									
Project Bid/Contract																								
Prepare Bid Package															X									
Open Project for Bidding on Construction																X								
Award Contract																	X							
Construction																								
College Intern														1	1	1	1	1	1	1	1			
College/HS Interns (4-6)																		X	X	X	X			
Material sourcing and procurement																	X	X						
Mobilization and staging																			X					
Construction																				X	X			

Restoration Partnership

Project Update Form

Project Title: Assessing Fish Passage at Stream Crossings in the Coeur d'Alene Basin

Project Approval Date: 10-09-2023
Trustee Council Resolution #: 64

Reporting Quarter/FY: Q4/FY24/Annual

Partnership Funds Expenditures
Amount Awarded: $50,000
Funds Spent this Quarter: $0
Funds Spent this Fiscal Year: $0

A. GENERAL INFORMATION

Project Proponent Name: *Carlos Camacho*
Primary Telephone Number: *208-769-1414*
Email: *carlos.camacho@idfg.idaho.gov*

Project Sponsor Name (if applicable): *Idaho Department of Fish and Game*
Agency: *Idaho Department of Fish and Game*
Primary Telephone Number: *208-769-1414*
Email: *carlos.camacho@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 contracted crew from Trout Unlimited finished field surveys in September and attempted to visit 614 sites. The total amount of sites with submitted evaluations to the national database was 456. An additional 158 sites are still in the Quality Assurance/Quality Control (QA/QC) process by IDFG and TU in preparation to submit to the national database. All sites will be QA/QC'd and submitted to the national database by the end of December.

In addition, the crew has been able to collect eDNA samples from the remaining 20 proposed sites. All 50 sites proposed were sampled between this quarter and last quarter. Results from the eDNA sampling will not be known until 2025.

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 some logistically inaccessible sites in 2024. These sites will be revisited in 2025. Additional time to travel/hike will be allotted to those sites far from access points. Obtaining permission for private corporate timberlands will be attempted this winter in preparation for the 2025 field season. This should resolve the issues identified from the inaccessible sites from 2024.

C. EXPENDITURES -Use the budget template to fill in all project expenditures this fiscal year.

1) Please describe any unforeseen expenditures

No unforeseen expenditures occurred this quarter. Contractor billing is expected in October 2024.

Project Expenditures: Date(s)

	Q1 Oct - Dec	Q2 Jan - Mar	Q3 Apr - Jun	Q4 Jul - Sept	Annual
Salaries/Fringe					
Travel					
Supplies					
Equipment					
Contractual			0	0	0
Permitting					
Long-term operation and maintenance					
Monitoring					
Other					
Total Direct Costs					
Indirect Costs					
Total			0	0	0

D. PROJECT PARTNERS

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

TU completed the field survey work for 2024 and has been working with IDFG to QA/QC the data for submission to the national database. A Second batch of sites was submitted and is awaiting approval for from SARP (national database administrators). Any issues will be resolved through discussions between TU, IDFG, and SARP staff. No issues were found in the first batch of sites submitted and are not expected with the second batch of sites.

The USFS provided the equipment and supplies for the eDNA sampling and also paid for and submitted samples to be tested.

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.

The project employed established protocols, techniques, and tools for field evaluations, with the goal of assessing 500 sites. A total of 614 sites were attempted, resulting in a completed fish passage evaluation for 456 sites to date. There are 158 more sites that are still in the QA/QC process, upon completion, the addition of these sites will surpass our high goal of 500 AOP evaluations for 2024. All site assessments will be made publicly accessible (some are already available) to support restoration prioritization and implementation efforts.

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

With the conclusion of the 2024 field season, the remaining steps involve finalizing QA/QC for all sites to prepare data for publication in the national database. Multiple debrief meetings with Trout Unlimited (TU) are scheduled in October to complete QA/QC processes and to strategize logistics for 2025 evaluations, contingent on funding from the Restoration Partnership. Data collected from the 2024 season has already enhanced understanding of fish passage within the Coeur d'Alene Basin, offering significant insights and opportunities for future restoration efforts.

Administrative Review Completed: Report was reviewed and approved for submittal on behalf of Idaho Department of Fish and Game on 11/1/2024.

Matt Belnap
Fish Habitat Program Coordinator