



EPA Puget Sound Financial and Ecosystem Accounting Tracking System (FEATS) v. September 2012 for Lead Organization Subawardees

Photo by Rebecca Pirtle, Editor, Kingston Community News (Doe-Kag-Wats Estuary of the Suquamish Tribe)

PROJECT INFORMATION

1. Federal Grant Number	PA-00J322-01	*2a. Reporting Period Start Date:	10/1/2017	*2b. Reporting Period End Date:	3/30/2017
3. Subaward Organization (Name and complete address including zip code)			4. Subaward Project Manager Contact Information		
Name: Puyallup Tribe of Indians Address 1: 3009 E. Portland Ave. Address 2: City: Tacoma State: WA Zip Code: 98404-			Name: Char Naylor Phone: (253) 680-5520 Ext: Fax: (253) 680-5525 Email: char.naylor@puyalluptribe.com		
5a. EPA Program		5b. Subaward Project Title and Contract No.		*6. Collaborating Organizations/Partners	
LO - Tribal		Clarks Creek Channel and Tributary Bank Stabilization Projects – Engineering Design and Permitting Phase I / AND Raceway shades <small>NWIFC 13EPA DSP420</small>		City of Puyallup Washington Department of Fish and Wildlife PTI Hatchery Manager	

Subawardee Submission Instructions: LO fills in the white boxes. Subawardee fills in the yellow boxes (boxes with asterisks). Refer to guidance document for how to fill out the boxes. After filling out the yellow boxes, save and e-mail it to your LO Project Manager for approval. LO will roll up the information and submit to EPA for approval.	LO Project Manager: Dani Madrone Puget Sound Recovery Projects Coordinator LO: NWIFC Phone: 360.528.4318 email: dmadrone@nwifc.org EPA Project Officer: Lisa Chang	*7a. Name/Title of Person Submitting Report	Char Naylor Water Program Manager
		*7b. Date Report Submitted	6/1/2017

FUNDING/COST ANALYSIS

8a. Total Assistance Amount Awarded:	\$166,100.00	8b. Funding Year (Federal Fiscal Year Funds Appropriated)	FY 2013 ----- ----- -----	*9. Amount Spent To-Date:	\$143,357.08	*10. Amount Reimbursed To-Date:	\$143,357.08
11. Match Amount Required	\$0.00	*12. Total Match Amount Spent and Documented To-Date:	\$0.00	*13. Have you experienced any cost overruns or high unit costs?			
*14. What issues or questions do you need the LO Project Manager to respond to?							

BUDGET UPDATE

	15a. APPROVED BUDGET			*15b. SPENT TO-DATE		
	LO (EPA) Funds	MATCH	TOTAL	LO (EPA) Funds	MATCH	TOTAL
Personnel	\$23,279.00		\$23,279.00	\$8,985.80		\$8,985.80
Fringe Benefits	\$7,286.00		\$7,286.00	\$2,408.28		\$2,408.28
Travel	\$0.00		\$ 0.00			\$ 0.00
Equipment	\$0.00		\$ 0.00			\$ 0.00
Supplies	\$0.00		\$ 0.00			\$ 0.00
Contracts	\$129,109.00		\$129,109.00	\$129,109.00		\$129,109.00
Other	\$0.00		\$ 0.00			\$ 0.00
TOTAL DIRECT CHARGES	\$159,675.00		\$159,675.00			\$ 0.00
Indirect Charges	\$6,425.00		\$6,425.00	\$2,854.00		\$2,854.00
TOTAL	\$166,100.00		\$166,100.00	\$143,357.08		\$143,357.08
*Explain Any Discrepancies:	No additional funds were spent during this period for the raceway shade project. The remaining funds of \$22,741 will be predominantly used for professional services associated with the design, fabrication, and installation of the shades in June 2017.					

ECOSYSTEM GOALS ADDRESSED

16a. Primary Goal	Water Quality
16b. Additional Goals	Healthy Habitat Water Quantity ----- ----- ----- -----

DIRECT THREATS ADDRESSED

17a. Primary Threat	Surface Water Loading/Runoff from the Built Env
17b. Secondary Threat(s)	-----

LINKAGES TO PUGET SOUND ACTION AGENDA (Version Adopted August 2012)

18a. Primary Strategic Initiative	Urban Stormwater Runoff
18b. Sub-Strategies Employed	C.2.4 C.9.1
18c. Near-Term Actions Supported	

LINKAGES TO EPA PUGET SOUND PERFORMANCE MEASURES

19. Measure(s)	Habitat Restored/Protected ----- -----
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LINKAGES TO PUGET SOUND DASHBOARD INDICATORS

20a. Primary Indicator	Freshwater Quality
20b. Secondary Indicators	Stream Flows ----- -----

PROJECT LOCATION

21a. Latitude	47.1711922	21b. Longitude	-122.32149
21c. Hydrologic Unit Code	17110014 - Puyallup	-----	-----
21d. Action Area	South Central Puget Sound	-----	-----

MEASURES OF SUCCESS (Key Outputs)

*22a. Description (e.g., "shellfish beds reopened")	*22b. Unit (e.g., "acres")	*22c. Project Target ("number")	*22d. Project Measure To-Date ("number")
Project contractor procurement, restoration project survey and preliminary design	1	1	1
Design, fabrication, and installation of hatchery shades for rearing salmon	raceways	16	0

PROJECT MILESTONES

Instructions: In the tables below, please explain your progress toward meeting agreed outputs for the period, **reasons for slippages**, and any additional information including **reflections, lessons learned, and/or thoughtful analysis**. When appropriate, include analysis and information of **cost overruns or high unit costs**, and changes to work plan or budget not requiring prior approval from EPA. We encourage photo documentation - please attach to the report as a separate document.

23a. Subaward Work Plan Component/Task:					
23b. 2012 Action Agenda Near-Term Action(s) Supported: N/A					
*23c. Estimated Costs:					
Actual Costs to Date:					
(If required to report – contact your Project Manager)					
23d. Sub-Task No.	23e. Sub-Task Description (include due date)	*23f. Date of Status	*23g. Status	23h. Outputs/Deliverables	*23i. Remarks
1.1	Develop procurement documents, retain consultant, and develop statement of work and contract for Tribal Council and Contractor Signature. Tasks include, but are not limited to, site reconnaissance, review of existing information; site survey; development of design alternatives; site preparation planning including temporary access road, riparian planting, and/or	9/30/2016	COMPLETED	Site reconnaissance documentation (i.e. photos, notes); Design Alternatives Memorandum; Engineering plans, specifications, and costs estimates at 30%, 60% design level;	Procurement documents were prepared - RFP (30 pages) and sent to environmental firms, including women/minority owned businesses. Proposals were sent to firms June 25 th and were due July 17 th , 2014. Three proposals were received. Each proposal received was submitted by a team of consultants. They were

	<p>geotechnical evaluation, if needed, preparation of engineering plans, specifications, and costs estimates; and coordination and meeting facilitation</p>			<p>Meeting documentation.</p> <p>All deliverables associated with this design and engineering and permitting project were previously completed by last reporting period, 3/31/2016.</p> <p>During the previous submittal, permitting documents were included in a zip drive which included: JARPA application, Jarpa Attachment C, SPIF Form, permitting project design (90%), and permitting design documents for grading, project infrastructure, and planting list/plan.</p> <p>The remaining contractor invoices were processed during this period.</p>	<p>reviewed and ranked by tribal staff. Natural Systems Design was the selected contractor as a result of the scoring process. The development of the scope of work for the project design was completed and contract was signed. The scope was augmented over and above the RFP due to the topographic complexity and difficult access of the site for restoration purposes, thus it was decided to augment the scope with additional field data including a topographic survey to measure accurate elevations for placement of LWD and restoration materials. Due to the additional costs required to collect additional field information, the scope of work was bifurcated into 2 parts. Additional dollars were needed to research construction methods in a deeply incised ravine and for meetings with Tribe and stakeholders to review all design plans and specifications. This grant covers (Phase I) site evaluation, concept design alternatives, site surveys, 30% site development plans and planting plans, 60% plans, specs, and cost estimates, preparation of some preliminary permit documents, and meetings with stakeholders (City of Puyallup, WDFW, and PTI). Phase II (in the following program year) will include 90% plans, specs and cost estimate development, meetings for plan reviews, permitting and timing/coordination of construction, complete permitting documentation, and</p>
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					<p>researching the recommended construction approach. Phase I signed contract and scope of work and budget is included with this report for reference.</p> <p>This task has been completed. The project deliverables (almost 400 pages in all) were submitted last grant reporting period which included technical memoranda, 30% and 60% engineering designs, city/contractor specifications for bidding, and a preliminary costs estimate of about \$2.1 million dollars to construct both channel and bank stabilization design projects. In this grant period, permit documents are being transmitted in a zip folder. These documents include the JARPA form, JARPA Attachment C, SPIF Form (Specific Project Information Form), 90% complete design plans, and 90% design plans including grading, proposed structures, and planting list and plan. See attached documents for reference.</p>
1.2	Provide project oversight, including coordination with city of Puyallup, WDFW, and others during all phases of the project	9/30/2016	COMPLETED	We have met several times with project stakeholders to discuss existing conditions and site survey results, alternative site designs, construction methods, conceptual plans, 30% plans and specs, and 60% design plans and specs. Also, City of Puyallup bidding documents were	Significant amounts of external coordination have been necessary as the Tribe is paying for the design plans for this project up to 90% design (which is now complete), with the City of Puyallup paying the remaining 10% up to 100%, as they demanded 100% design for they are paying for construction of the project. They insisted on 100% design because they don't want any change orders with the

				<p>prepared. Hold coordination meetings with regulators and city during design and permitting including In all, we have met 4 times with the project consultant Natural Systems Design, City of Puyallup engineers, and regulatory agency and land owner, WDFW.</p> <p>Project oversight including technical reviews of engineering designs and permitting were finished by 3/31/2016. Some additional communications with our cultural staff, City of Puyallup, and contractor have taken place this period to check on COE review of the permitting documents submitted in preparation for construction in summer 2017.</p>	<p>project. Project costs are continually being revised but estimated construction costs will be about \$2 million dollars. At each step of the design planning, from conceptual through 90% project design, we have met with project stakeholders and regulatory agency WDFW to get comments and made revisions based on their comments. WDFW owns the land the project will be constructed on. We have secured their approval to do the project. Thus, this has been a cooperative project involving tribal/state/local participation and interests.</p> <p>In all, we have met 4 times with the project consultant Natural Systems Design, City of Puyallup engineers, and regulatory agency and land owner, WDFW. In the last meeting, we reviewed the 90% designs (under Phase II funds) and discussed the permit application documents. Early indications back from the Corps of Engineers indicated Tom Braxton was requesting a cultural resources assessment because the project was adjacent to the Reservation as well as a historical railroad line went through the project area. The Corps of Engineers has requested a cultural resources assessment because of the location of the project adjacent to the Reservation and the historical railroad. This will be done under Phase II of the project with tribal (non-grant funds).</p>
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1.3	Review draft project deliverables including plans and specifications, cost estimates, and permitting applications. Provide to contractor for integration into final deliverables. Coordinate other entity comments with the contractor	9/30/2016	COMPLETED	<p>Coordination with stakeholders; Comments on key deliverables including technical memorandum and engineering plans and costs estimates. Key issues have been methods to estimate sediment reduction benefits and corroborate modeling estimates by other consultants; access to site in incised canyon; types of equipment given site conditions, and construction methods. Method approved by group is a reverse logging method using skyway to deliver materials to stream. Group agreed on the sediment reduction estimate as reasonable benefit for the purposes of obtaining TMDL credit for project (city) and city officials to ensure the benefits justify the \$2.1 million dollar cost of the project. Most of the comments on engineering plans have been related to formatting for the city to use in their bidding process. The Corps of Engineers has requested a cultural resources assessment be completed now that we have completed the</p>	<p>A lot of work has been put in contacting potential contractors to devise a reliable method to deliver logs to deeply incised ravine in urban setting. Consensus has been achieved on using a skyway/pulley system to deliver materials to the stream via the existing road and trail scheme. The quantification method and sediment reduction benefit estimate memorandum has also been completed. This memo is included to this report for reference. The 90% design package including permits are done and completed (Phase II funds - enough funds were not available to complete the 90% design package so contract was bifurcated between Phase I and Phase II). Agency comments regarding the cultural assessment are discussed in other sections of this report.</p>
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				90% design (see above for discussion). This will be done as part of Phase II (separate funding).	
1.4	Engage in stakeholder coordination and meeting facilitation	9/30/2016	COMPLETED	WDFW reps, city of Puyallup engineers, consultants, tribal fisheries, tribal natural resources and consultants have participated in 4 meetings to discuss existing conditions based on site survey results, historical topo, aerial and lidar analysis; conceptual designs, and 30%, 60%, and 90% (Phase II funding) design engineering plans, specs, and cost estimates. Permitting package has also been completed and submitted to regulatory agencies (see above). All deliverables associated with Phase I of this project were submitted by 3/31/2016.	The City of Puyallup will be constructing this project to reduce sediment loading downstream. This work is intended to address the city's obligations under the Clarks Creek sediment TMDL (water quality cleanup plan). The engineering basis of design and quantification of sediment reduction is included in the Basis of Design Memorandum attached to this report for reference. This project represents Phase I of a 2-phase project, with 90% deliverables and further coordination and permitting with agencies, and construction method details to be followed in Phase 2. The City has insisted on completing 100% design plans with their funds for this project thus the project will be turned over to the City now that all deliverables under this grant are completed. The Tribe has asked to continue participation to ensure the project gets constructed. Construction is planned for summer of 2017.

23a. Subaward Work Plan Component/Task: Raceway Shading Project for 16 raceways at PTI Clarks Creek Hatcher

23b. 2012 Action Agenda Near-Term Action(s) Supported:

***23c. Estimated Costs:**

Actual Costs to Date:

(If required to report – contact your Project Manager)

23d. Sub-Task No.	23e. Sub-Task Description (include due date)	*23f. Date of Status	*23g. Status	23h. Outputs/Deliverables	*23i. Remarks
2.1	Develop workplan amendment, contractor procurement documents, Letter of Agreement, for review by legal and signature by Tribal Council	3/30/2017	CURRENT	Cost estimate with specification of materials, manufacturing and labor costs; Total project price with timeline for delivery and installation; Timeline for final invoice; Deliverable: procurement documents	We developed workplan and budget to use the remaining funds (\$22,742.92) for this project and processed the contract amendment form the NWIFC through Tribal Council. Attached for reference is the workplan for the raceway shade project that will use all the remaining funds under this grant. Procurement and contracting will be next followed by installation and submittal of final invoices.
2.2	Provide project oversight, including coordination with Tribal Hatchery Manager and Resource Manager in all phases of the project – final fabrication and installation of raceway shades	3/30/2017	CURRENT	Key tasks completed (or % project completed) and budget used will be documented according to the executed agreement. Deliverable: Project summary including photos of installation, final project, and management documentation, including payment of invoices.	Hatchery manager reviewed the amended workplan for the hatchery raceway shades and worked to secure funding for the remaining dollars needed to fully implement this project. We also coordinated on timing of shades design, fabrication and installation.

CHALLENGES AND SOLUTIONS (specific to reporting period)

*24a. Task No., Sub-Task No.	*24b. Challenge	*24c. Solution
1.2 and 1.4	The challenge for this project will be timing because of the length of time the COE's permitting process takes so it will take us into summer of 2017 for construction and mix of land ownership and funding. The City of Puyallup is funding construction of the projects, the Tribe is funding the design work, and the projects will be constructed on WDFW land (WDFW is also the one of the permitting agencies). The challenge is to make sure all parties are on board with the designs and	We started coordination early on in order to make the project run smoothly. We have taken the WDFW officials to the site area in order to improve their familiarity with it. We have also been working with the city engineer sharing city bidding and other design specs and expectations. The city would like the project to be designed to the 100% threshold, so they will be paying for the incremental funding from 90% that the Tribe is funding to 100%. The city insists on this as they are concerned about cost overruns. The low bid cost requirement for the city

	methods moving forward into construction and meeting the city's requirements for design.	will be difficult too because of the complexity of the project, and we have plans to include the most experienced contractors who can do the job on the city's bidding lists.
1.2 and 1.4	The state owns the land where the project is going to be built. We had a green light to conduct project planning with their technical and tribal liaison staff after checking with realty but documentation/easements will need to be secured.	Tribal technical staff asked WDFW reps to talk with their realty folks again about securing the necessary approvals to do this project on state lands. State realty folks said they will work with the City of Puyallup to secure access agreements and necessary documentation to construct the project as contemplated. The project also benefits the state because it will diminish the amount of sediment being deposited in their pond where their water supply intake is located for their hatchery. There is an 8-foot earthen dam that prevents upstream anadromous fish passage.
1.2	The Corps of Engineers has requested a cultural resources assessment as part of the permitting application package, because of the proximity of the project to the Reservation and the transversing of the historic railroad grade through the project site. Additional coordination and documentation with the state historic preservation staff will be needed.	The Tribe's cultural resources staff are writing project descriptions and securing bids for conducting the cultural resources assessment, as requested by the Corps of Engineers. Phase II of the project will provide the cultural resources assessment documentation. Tribal cultural resources staff are also coordinating with state historic preservation office.
2.1	Timing coordination was needed to fully fund the raceway shade project.	PTI Hatchery manager included an add-on project in the BIA Hatchery Maintenance Grant application to make up the remaining funds needed for this project. In the event the BIA did not fund the remaining portion of the shade project, additional non-obligated funds have been set aside to cover the costs of the entire project.

HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS

***25.**

The absolute highlight of these projects are that they are projected to decrease sediment loading in Clarks Creek by about 90-100 tons of sediment per year or about 82-92% sediment reduction annually. They are the most highly prioritized channel restoration projects highlighted in the Tribe's Sediment Reduction Plan. These projects will almost completely fulfill the City of Puyallup's WLA obligation in the Clarks Creek Sediment TMDL. This project is a cooperative tribal/state/local project that provides a win-win for all involved. We are using the state's land, the City of Puyallup is constructing it, and the Tribe is doing the design plans, cost estimates, permitting and coordination. We intend to use this model of design, permitting and construction of habitat and water quality

projects with adjacent cities and government to leverage funding successfully to effectuate construction of high priority projects identified in salmon recovery and other plans the Puyallup Tribe has participated in.

An ongoing difficulty has been to get Corps of Engineers agency approval in a timely fashion. Although invited they didn't come to the initial site visit or kickoff meeting. They requested additional items such as the cultural assessment that were not initially budgeted for nor in the scopes of work. We had to use tribal funding to get the cultural assessment done in Phase II of this project (FY14). City of Puyallup insisted on going to 100% design, which they will pay for out of their budget in the hopes of preventing costs overruns during construction.

A change of scope is being prepared to include an additional project to make use of remaining funds.

2.1 PTI Fisheries and Water Quality staff are excited to be able to fund the Clarks Creek Hatchery shade project as our juvenile salmon get sunburnt with skin lesions from direct sunlight as early as March. We have put in temporary shade mats which the fish all congregate to to avoid the exposure of direct sunlight. Now, with this funding, we will be able to install aluminum shades on all 16 raceways, thus eliminating additional stress on our juvenile salmon before they are released and taken off-station.