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-00J912-01	***2a. Reporting Period Start Date:**	10/1/2018	***2b. Reporting Period End Date:**	3/31/2019

3. Subaward Organization (Name and complete address including zip code)

Name: Snoqualmie Indian Tribe
Address 1: 8130 Railroad Ave. Ste. 103
Address 2:
City: Snoqualmie State: WA Zip Code: 98065-

4. Subaward Project Manager Contact Information

Name: Cindy Spiry
Phone: (425) 292-249 Ext:
Fax: (206) 384-6588
Email: cindy@snoqualmienation.com

5a. EPA Program	**5b. Subaward Project Title and Contract No.**	***6. Collaborating Organizations/Partners**
LO - Tribal	Lake Sammamish Native Kokanee Habitat Project and Kimball Creek Restoration Phase III / 15EPA PSP446	City of Sammamish, Kokanee Work Group, Private Landowner, Trout Unlimited

<u>Subawardee Submission Instructions</u>: 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 **LO:** Northwest Indian Fisheries Commission **Phone:** 360.528.4318 **email:** dmadrone@nwifc.org **EPA Project Officer:** Lisa Chang	***7a. Name/Title of Person Submitting Report**	Cindy Spiry ENR Director
		***7b. Date Report Submitted**	4/30/2019

FUNDING/COST ANALYSIS

8a. Total Assistance Amount Awarded:	$122,200.00	**8b. Funding Year (Federal Fiscal Year Funds Appropriated)**	FY 2015 ---------- ---------- ----------	***9. Amount Spent To-Date:**	$50,138.15	***10. Amount Reimbursed To-Date:**	$50,138.15
11. Match Amount Required	$0.00	***12. Total Match Amount Spent and Documented To-Date:**		***13. Have you experienced any cost overruns or high unit costs?**	No		
***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	$41,320.00	$0.00	$41,320.00	$22,814.97		$22,814.97
Fringe Benefits	$12,446.00	$0.00	$12,446.00	$7,484.33		$7,484.33
Travel	$0.00	$0.00	$ 0.00			$ 0.00
Equipment	$1,500.00	$0.00	$1,500.00			$ 0.00
Supplies	$28,129.00	$0.00	$28,129.00	$11,044.55		$11,044.55
Contracts	$0.00	$0.00	$ 0.00			$ 0.00
Other	$0.00	$0.00	$ 0.00			$ 0.00
TOTAL DIRECT CHARGES	$83,395.00	$0.00	$83,395.00	$41,343.85		$41,343.85
Indirect Charges	$28,805.00	$0.00	$28,805.00	$8,794.30		$8,794.30
TOTAL	$112,200.00	$0.00	$112,200.00	$50,138.15		$50,138.15
***Explain Any Discrepancies:**						

ECOSYSTEM GOALS ADDRESSED

16a. Primary Goal	Healthy Habitat
16b. Additional Goals	Healthy Species ---------- ---------- ---------- ---------- ----------

DIRECT THREATS ADDRESSED

17a. Primary Threat	Invasive Species - Terrestrial
17b. Secondary Threat(s)	---------- ---------- ----------

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

18a. Primary Strategic Initiative	**Tribal Habitat Priorities**

18b. Sub-Strategies Employed	**A.5.1-4 A.6.1 A.6.4 B.5.3 C.9.1**

18c. Near-Term Actions Supported	

LINKAGES TO EPA PUGET SOUND PERFORMANCE MEASURES

19. Measure(s)	Habitat Restored/Protected ---------- ----------

LINKAGES TO PUGET SOUND DASHBOARD INDICATORS

20a. Primary Indicator	Floodplains
20b. Secondary Indicators	Wild Chinook Salmon ---------- ----------

PROJECT LOCATION

21a. Latitude	47.567324	**21b. Longitude**	-121.888727
21c. Hydrologic Unit Code	17110010 - Snoqualmie	----------	----------
21d. Action Area	Whidbey	----------	----------

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")
Area restored by removing non-native invasive plant species	acres	7	7
Area of buffer restored with native vegetation	acres	7	4.5
Native trees and shrubs planted	#	8000	5,960
Length of streambank regraded and stabilized	length	1000	1,450
Volunteer events completed	#	3	3

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: Lake Sammamish Native Kokanee Habitat Restoration Project

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
1.1	Project Management: Finalize buffer enhancement/site revegetation plan and submit to the landowner, Mr. Pereyra for review and approval. Obtain any necessary permits for removing invasive plant species within wetland and stream channel. Coordinate and participate in project related meetings. Notify landowner prior to planned restoration activities and volunteer events. Hold monthly staff meetings to	3/31/19	CURRENT	Landowner approval of site restoration plan; Reports submitted to NWIFC; Staff/crew informed, supervised and trained; Local and/or state permit approval Planting Plan; GIS Maps; Photo	All riparian restoration planting plans are complete and permits/approvals obtained. Final report upcoming.

	discuss/manage project. Prepare and submit semi-annual and final grant reports			Documentation; Meeting Notes	
1.2	Noxious Weed Control: Record infestations of non-native plant species using GPS hardware and GIS software. Clear, cut and hand remove blackberry and nightshade using gas powered brush cutters and hand tools. Treat re-growth of blackberry and other invasive as necessary with approved aquatic herbicide	3/31/19	CURRENT	At least 3 acres of target invasive plant species identified, removed and controlled GIS Maps; Photo Documentation	Just over 4 acres of noxious weed removal and control has been completed within Zackuse Creek stream and wetland buffer areas.
1.3	Riparian Planting: Reference historical and current vegetation communities in determining planting plan for forested wetland and understory planting. Plant a variety of native tree, shrub and groundcover species suitable for the current soil, hydro, canopy and exposure conditions.	3/31/19	COMPLETED	3 acres of riparian forested wetland buffer planted and enhanced; Min. of 3,000 native tree, shrub and groundcover species installed including shade tolerant conifer species (cedar and hemlock). Planting Plan, Photo Documentation, Monitoring Data	A total of 3,300 native trees and shrubs were planted during fall 2018 and late winter 2019. Revegetation was completed along 750 ft. over a little more than 3 acres of streamside and adjacent wetland buffer areas.
1.4	Community Outreach: Host a minimum of three volunteer planting, maintenance and education events focusing on involving local schools, citizens, community groups, Tribal Members and partners.	3/31/19	CURRENT	A min. 100 adult and youth volunteer participants will contribute 350 hrs. helping to plant & maintain project. Photo Documentation; Sign-In Sheets; Press Releases; Media Coverage; Newsletters; PowerPoint Presentation	Two volunteer planting events were held on October 27, 2018 and November 3, 2018. A total of 115 volunteers contributed 460 hours helping to plant nearly 2,000 native trees and shrubs. A Zackuse Creek Project Celebration event was held on December 18, 2018. Partners, stakeholders and landowners toured the project and participated in a tree planting dedication and ribbon cutting cermony.
1.5	Monitoring and Maintenance: Create and submit QAPP Addendum for Site Vegetation Monitoring. Set-up baseline, transects and photo points for annual vegetation monitoring. Perform annual vegetation monitoring. Conduct	3/31/19	CURRENT	Maintain site 2-3 times per year in years 1-3; 80% or greater plant survival achieved after 3rd year.	First year vegetation survival monitoring is scheduled to be completed by mid-June 2019. Maintenance will occur during late spring and summer 2019.

	upstream survey to identify and assess any sediment sources, addl. fish passage issues and confirm habitat conditions. Complete regular maintenance of buffer plantings to ensure site performance/plant survival rates. Maintenance activities will include: invasive plant control (mowing) & weed suppression, browse protection, watering and mulching, plant replacement.			Photo Documentation; Monitoring Data; GIS Maps	

23a. Subaward Work Plan Component/Task: Kimball Creek Restoration Phase III

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	Project Management: Finalize restoration site plan for weed removal, bank regrading and native planting and submit to landowner for approval. Submit streamlined JARPA with fish habitat exemption to state WDFW and King County for HPA review and approval. Hold monthly staff meetings to discuss and manage project. Prepare and submit semi-annual and final grant reports	3/31/19	CURRENT	Landowner approval obtained; HPA approval; Reports submitted to NWIFC; Staff/crew informed, supervised and trained Channel Design; Planting Plan; GIS Maps; Photo Documentation	Working on finalizing plan for bank-reshaping on Moser property. Will be working with staff engineer from King Conservation District to complete survey/design spring 2019. Intend to submit plan for permit approval from WDFW and King County so that project can be constructed by September 2019.
2.2	Noxious Weeds Control: Clear, cut and mow mature blackberry and reed canary grass using mowing equipment, gas powered brush cutters and hand tools. Treat re-growth of blackberry and reed canary grass with approved aquatic herbicide	3/31/19	CURRENT	Min. 4 acres of non-native invasive plant species removed & controlled GIS Maps; Photo Documentation	Cleared and mowed 3 acres of non-native blackberry along south side of creek on Tate and Moser properties in October 2018. Plan to treat blackberry regrowth during summer of 2019.
2.3	Streambank Regrading: Contract with a qualified heavy equipment operator to pull back steep vertical cut banks to a	3/31/19	CURRENT	An est. 1,000 linear feet of stream bank regraded to a gentler slope.	Planning to re-grade banks on south side of creek on Moser/Tate parcels in September 2019.

	gentler slope per WDFW Streambank and Habitat Restoration Guidelines.			Photo Documentation; As-built drawings and maps	
2.4	Riparian Planting: Plant a variety of native tree, shrub and groundcover species suitable for the current soil, hydro, canopy and exposure conditions.	3/31/19	CURRENT	Establish multi-layer forested canopy layer creating at least 4 acres of native riparian buffer area; Plant a minimum of 5,000 native trees and shrubs consisting of 12 different native deciduous and coniferous tree species and 18 varieties of multi-layer shrub species. Photo Documentation; As-built drawings, maps, revegetation plan	Planning for riparian planting on Tate and Moser parcels along south side of creek in fall 2019 following bank regrading work. Plan to use portion of remaining funds to help pay for construction of 100' L x 40' W fence around Moser's garden area to help protect from elk browse.
2.5	Monitoring & Maintenance: Create and submit QAPP Addendum for Site Vegetation Monitoring. Set-up baseline, transects and photo points for annual vegetation monitoring. Perform annual vegetation monitoring. Maintain buffer plantings to ensure site performance/plant survival rates. Maintenance activities will include: invasive plant control, browse protection, watering and mulching, plant replacement.	3/31/19	CURRENT	Maintain site 2-3 times per year in years 1-3; 80% or greater plant survival achieved after 3rd year. Photo Documentation; Monitoring Data	Maintenance of the Tate property buffer area on the north side of the creek will occur during spring and summer 2019 and will include weed control and browse protection. Vegetation survival monitoring will be completed in June 2019.

CHALLENGES AND SOLUTIONS (specific to reporting period)

*24a. Task No., Sub-Task No.	*24b. Challenge	*24c. Solution
23d. 1.3 Riparian Planting	Heavy snow and freezing weather slowed riparian planting progress at Zackuse Creek for nearly 4 weeks.	Luckily, snow finally melted and ground thawed enough to allow for planting to occur in March.
23d. 1.5 Monitoring	The City realigned 400' of channel upstream of the new fish friendly box culvert that was installed under the East Lake Sammamish Parkway in late summer 2018. There is still an additional 800'	Tribe is working with the City and private landowners to address the barrier culvert under 206th Ave NE. The King Conservation District and Natural Resources Conservation Service are

	section of channel directly upstream of the newly aligned channel that is unstable and has been headcutting. There is also another barrier culvert upstream under 206th Ave NE.	interested in partnering with the Tribe and City to help replace the crossing. NRCS and KCD have offered cost share funding assistance and the City may also contribute match. The Tribe is also looking to contribute some its U.S. Fish & Wildlife Service Tribal Wildlife Grant funding to help cover the culvert replacement cost as well as completing large woody debris placement in the 800' section of channel to provide grade control and promote pool formation.

HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS

***25.**

Very successful collaborative partnership between City of Sammamish, King County, private landower and the Snoqualmie Tribe in restoring Zackuse Creek native kokanee habitat. The City and County competed replacement of 3 culvert crossings under East Lake Sammamish Parkway, King County Regional Trail and Shore Lane in late summer 2018. The City realigined and restored a 400' section of channel upstream of the new culvert under the Parkway on private land. Tribe planted riparian buffer areas associated with the new channel and in the areas downstream where the County replaced 2 additional culverts.
Video link showing drone footage of Zackuse Creek Project in March 2019 - https://www.youtube.com/watch?v=y-wyUHWx5lM
Also including photo logs for the City culvert replacement and channel construction and the riparian planting and a link to an article about the project in the Tribe's quarterly news magazine. The article was written by a Tribal Member with family ties to Zackuse Creek and Lake Sammamish.
http://snoqualmietribe.us/sites/default/files/newsletters/newsmagazine_q12019_web.pdf

Representatives from the Tribe, City of Sammamish, King County, Trout Unlimited and other interested stakeholders were invited to help place kokanee eggs in a Remote Site Incubator on Zackuse Creek in early January 2019, with the hope that we'll see a healthy return of adult native kokanee returning to Zackuse Creek in 3 years.

A documentary film about the Lake Sammamish native kokanee is being created which will include a part about the Tribe's history to the area, Zackuse Creek and their connection to the "Little Red Fish". It will also highlight the Zackuse Creek restoration project and describe all of the great work that all of the stakeholders are doing to preserve the remaining late run population of kokanee. The trailer for the movie was just released and can be viewed at https://www.spawninggroundsfilm.org/
https://igg.me/at/spawninggroundsfilm/x/20604227 The final version of the film is expected to be released in early summer.