



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-00J276-01	*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@snoqualmiation.com		
5a. EPA Program LO - Tribal		5b. Subaward Project Title and Contract No. Snoqualmie & Sammamish Stewardship Action Project II / 16EPA PSP446		*6. Collaborating Organizations/Partners King County Parks, Mountains to Sound Greenway Trust, Private Landowners, Mid-Sound Fisheries Enhancement Group, Trout Unlimited, King County Land and Water Resources Division, City of Sammamish, Lake Sammamish Kokanee Work Group.	

<p><u>Subawardee Submission Instructions:</u></p> <p>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.</p>	<p>LO Project Manager: Dani Madrone LO: Northwest Indian Fisheries Commission Phone: 360.528.4318 email: dmadrone@nwifc.org</p> <p>EPA Project Officer: Lisa Chang</p>	*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:	\$184,100.00	8b. Funding Year (Federal Fiscal Year Funds Appropriated)	FY 2016 ----- ----- -----	*9. Amount Spent To-Date:	\$98,605.65	*10. Amount Reimbursed To-Date:	\$98,605.65
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?			
*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	\$47,560.00	\$0.00	\$47,560.00	\$33,336.98		\$33,336.98
Fringe Benefits	\$14,268.00	\$0.00	\$14,268.00	\$11,356.80		\$11,356.80
Travel	\$0.00	\$0.00	\$ 0.00			\$ 0.00
Equipment	\$4,000.00	\$0.00	\$4,000.00	\$4,021.63		\$4,021.63
Supplies	\$29,750.00	\$0.00	\$29,750.00	\$19,140.26		\$19,140.26
Contracts	\$55,512.00	\$0.00	\$55,512.00	\$19,919.80		\$19,919.80
Other	\$0.00	\$0.00	\$ 0.00			\$ 0.00
TOTAL DIRECT CHARGES	\$151,090.00	\$0.00	\$151,090.00	\$87,775.47		\$87,775.47
Indirect Charges	\$33,010.00	\$0.00	\$33,010.00	\$10,830.18		\$10,830.18
TOTAL	\$184,100.00	\$0.00	\$184,100.00	\$98,605.65		\$98,605.65
*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	1.2 2.2 6.4 15.3
18c. Near-Term Actions Supported	2016-0334 2016-0333 2016-0231 2016-00360

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	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")

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					
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: a. Participate in project planning meetings with City and partners b. Notify landowner prior to planned project activities and events c. Hold monthly staff meetings to discuss/manage project d. Hire, schedule and manage contracted field work crews e. Prepare and submit semi-annual and final grant reports	3/31/19	CURRENT	Reports submitted to NWIFC; Staff/crew informed and trained	Report submitted April 2019.

1.2	<p>Riparian Enhancement:</p> <p>a. Record infestations of invasive non-native noxious weed species using GPS and map in GIS.</p> <p>b. Reference historical and inventory current vegetation communities in determining planting plans for forested wetland and understory planting.</p> <p>c. Finalize buffer enhancement site revegetation plan and submit to the landowner, Mr. Pereyra for review and approval.</p> <p>d. Contract w/labor crew to assist with noxious weed removal & control; and site revegetation on both Zackuse and Ebright Creeks</p> <p>e. Clear, cut and hand remove target non-native noxious weed species including Himalayan blackberry, Bittersweet nightshade, reed canary grass, English ivy and English holly using gas powered equipment and hand tools</p> <p>f. Plant shade tolerant conifers in understory along channel and in wetland buffer to increase over-story tree densities and infill open canopy areas previously overtaken by invasive plants with deciduous tree and shrub communities</p> <p>g. Plant suitable native tree and shrub species using locally adapted nursery grown 1, 2 & 5 gallon container stock, bare root and live stake plant material produced from local seed sources (Buffer widths for Zackuse and Ebright will average 100')</p> <p>h. Plant common and less frequent traditional ethno-botanically significant native plant species that are important to the Snoqualmie Tribe</p>	3/31/19	CURRENT	<p>Riparian planting plans created; Landowner approval of site restoration plan; At least 5 acres of target invasive plant species removed and controlled; Min. of 5,000 native tree, shrub and groundcover species planted; Establish 5 acres of riparian forested wetland buffer integrating culturally significant plant species</p>	<p>- Oct. 2018 thru March 2019 - a total of 3,300 native trees and shrubs were planted along 750 ft. of lower Zackuse Cr. covering just over 3 acres of streamside and adjacent wetland buffer areas.</p> <p>- February 2019 - 575 native trees and shrubs were planted at Ebright Creek buffer area to replace dead stock from 2017 planting and also to supplement existing densities.</p> <p>- Will be working to plant additional riparian area directly upstream along a 800' section of Zackuse Creek including an area where blackberry clearing previously occurred. This riparian buffer work is also tied to plans of completing large woody debris placement to help stabilize the channel, prevent head cutting, mobilization of fine sediment and increase pool formation. We're currently working with an engineer from the King Conservation District on the design on the LWD placement design. We plan to utilize remaining FY16 funds to help with riparian scope of work.</p>
1.3	<p>Monitoring & Maintenance:</p> <p>a. Create and submit QAPP for Site Vegetation Monitoring</p>	3/31/19	CURRENT	<p>Maintain site 2-3 times per year in years 1-3; 80% or greater plant</p>	<p>- Seasonal maintenance was completed on buffer plantings completed to date for both</p>

	<p>b. Set-up baseline, transects and photo points for annual vegetation monitoring</p> <p>c. Perform annual vegetation monitoring during June to August</p> <p>d. Complete regular buffer maintenance to ensure plant establishment & survival rates. Maintenance activities will include: invasive plant control (mowing) & weed suppression, browse protection, watering and mulching, plant replacement</p>			survival achieved after 3rd year	<p>Zackuse & Ebright Creeks during May through September 2018.</p> <p>- 1st year vegetation survival monitoring/data collection was not completed for Ebright Cr. in spring 2018, but qualitative monitoring did occur. 1st yr vegetation monitoring for Zackuse Cr. buffer area will occur in May/June 2019.</p> <p>- Feb. 2019 - 575 plants were installed at Ebright Creek to replace dead stock and/or supplement existing buffer densities. Plant protectors were also installed on deer loving plant species at Ebright and Zackuse Creek.</p>
1.4	<p>Outreach & Education:</p> <p>a. Host volunteer planting and education events focused on involving Tribal Members, local schools, citizens, community groups, and partners</p>	3/31/19	CURRENT	A min. 100 adult and youth volunteer participants will contribute 350 hrs. helping to plant & maintain project	<p>- Two volunteer planting events were held at Zackuse Cr. 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.</p> <p>- 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 ceremony.</p>

23a. Subaward Work Plan Component/Task: Sammamish River Corridor Habitat Enhancement - Reach 4

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
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2.1	<p>Project Management:</p> <ul style="list-style-type: none"> a. Contract w/qualified fisheries habitat engineer to complete survey and design for off-channel wetland enhancement and wood (LWD) structure placement b. Complete planting plan for river bank and wetland riparian buffer areas c. Prepare and submit plans and designs to King County DNRP (landowner) and Corps for review and approval d. Submit streamlined JARPA along with Fish Habitat Enhancement Exemption to WDFW, Corps, King County, WA DOE for review and approval e. Notify King County Parks prior to planned restoration activities and volunteer events. f. Hold monthly staff meetings to discuss and manage project g. Prepare and submit semi-annual and final grant reports to NWIFC 	3/31/19	BEHIND SCHEDULE	2 designs/plans produced; Environmental permit approval; Reports submitted; Staff/crew informed, trained	Continued coordination with King County Parks, Trails and River & Floodplain Management Sections. After 3 months additional delay, we finally received approval to proceed with our project in late November 2018 from both King County and the Army Corps of Engineers.
2.2	<p>Riparian & Aquatic Restoration:</p> <ul style="list-style-type: none"> a. Remove reed canary grass mat from small pocket wetland, shape and regrade soils to create varying topographic and habitat features b. Place habitat structure, anchor large and small woody debris in the wetland and along the main channel edge to provide cover for salmonids and other wildlife c. Amend soil conditions in existing upper bank planting area around pocket wetland and increase native tree and shrub planting density d. Plant a variety of native herbaceous wetland species (sedges, rushes) e. Plant a variety of native tree and shrub species upstream and 	3/31/19	BEHIND SCHEDULE	Min.10 pieces of LWD placed; Min. 7,500 native trees, shrubs and groundcover species installed and 5 acres of riparian buffer created	Multiple delays in coordination, planning and permitting during the course of this project have prevented riparian planting from occurring within the original project implementation timeline. Fall planting was scheduled for early November 2018, but had to be cancelled due to not receiving final approval to proceed from King County and the ACOE until the end of November. Site planting was also planned/scheduled for February 2019 but had to be cancelled due to snow and cold weather for more than 3 weeks. 2 scheduled volunteer planting events, 1 in November 2018 and one in

	downstream along right bank (Buffer widths will range from 25' to 100', see FY 14 workplan)				February 2019 had to be cancelled as well.
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23a. Subaward Work Plan Component/Task: Snoqualmie Headwaters Riparian & Stewardship

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 Administration: a. Participate in regular project coordination meetings annually in 2017 & 2018 b. Schedule and manage contracted work crews c. Hold monthly staff meetings to discuss project d. Prepare and submit quarterly progress, reimbursement and semi-annual FEATS reports	3/31/19	CURRENT	At least 6 project meetings attended; Reports submitted to King County, Ecology and NWIFC; Staff/crew informed and trained	Project coordination with King County and other partners/stakeholders continues. Reports prepared and submitted to NWIFC and King County Noxious Weeds. Coordinated and managed WCC and other contract crews to assist with site maintenance and planting efforts.
2.2	Regional Collaboration: a. Participation in regional meetings annually b. Provide annual presentations to regional working groups c. Conduct project tours for interested stakeholders d. Provide assistance to other watershed groups that wish to initiate a similar project or program	3/31/19	CURRENT	2 regional collaboration meetings attended; 2 presentations given to regional working groups; At least 1 project tour of at least 4 different riparian restoration sites.	Staff attended Upper Snoqualmie Cooperative Weed Management Area Meeting in March 2019. A project update was provided to the stakeholder group in attendance.
2.3	Survey & Mapping: a. Assess ongoing knotweed treatment locations in the upper Snoqualmie Basin to determine priorities for riparian restoration b. Map restoration sites and planting areas using GPS, GIS and photo documentation	3/31/19	CURRENT	Baseline textual and tabular site attribute data collected, documented and mapped	Updated mapping occurred showing progress of planting areas completed.

	<p>c. Collect baseline site characterization information to determine spatial extent of area, disturbance regime, soils, hydrology, wildlife use, existing vegetation communities</p>				
2.4	<p>Outreach & Education:</p> <p>a. Produce annual schedule of outreach, education, volunteer events and activities</p> <p>b. Contact and inform landowners within project area about restoration opportunities</p> <p>c. Send out project informational mailer to landowners inviting them to participate in volunteer events and activities</p> <p>d. Obtain signed permission waivers to perform riparian restoration from landowners</p> <p>e. Participate in community workshops to train landowners about long term stewardship skills</p> <p>f. Participate in community events with KCNWP staff hosting booths, tables and/or giving presentations about the project</p> <p>g. Conduct three volunteer planting events per year during planting season from October - March</p>	3/31/19	CURRENT	<p>2 annual planning schedules created; Public and private streamside landowners contacted, informed & trained; 500 information fliers mailed out to private streamside property owners; Landowner permission waivers obtained; Participate in 3 community workshops; Take part in 6 community events; Complete at least 6 volunteer planting events</p>	<p>2 volunteer planting events were held in November 2018 and January 2019. A third event was also scheduled for February 2019 but had to be cancelled due to snowy weather. 36 volunteers contributed 144 hours helping to plant native trees and shrubs at two different restoration sites located at the County owned Three Forks Natural Area.</p>
2.5	<p>Riparian Restoration:</p> <p>a. Compile landowner riparian restoration tool box, make available for public use and distribute tool box as requested.</p> <p>b. Develop and execute signed landowner agreements to conduct riparian planting</p> <p>c. Develop site planting designs and plans</p> <p>d. Complete seven riparian restoration sites annually</p> <p>e. Plant suitable native tree, shrub and groundcover species using nursery grown 1&2 gallon container stock, bare</p>	3/31/19	CURRENT	<p>1 riparian restoration tool box created; 14 planting plans and landowner agreements completed; 14 riparian sites revegetated; At least 6,000 container plants, 1,250 live stake cuttings and 1,000 bare root trees planted covering a minimum of 5 acres; Maintain sites 1-2 times annually over 2 years</p>	<p>Riparian planting has been completed at 13 separate sites. A 14th site was scheduled for planting but had to be cancelled due to snow. To date, over 11,000 native trees and shrubs have been planted over 27 acres. Maintenance will occur during spring and summer 2019.</p>

	<p>root and live stake plant material produced from local seed sources (Will plant maximum buffer widths possible depending on sites, land use and constraints)</p> <p>f. Complete regular maintenance of planting sites to ensure plant survival rates. Maintenance will include: weed control, browse protection, mulching and plant replacement</p>				
2.6	<p>Monitoring & Evaluation :</p> <p>a. a. Set-up baseline, transect and photo points to conduct annual vegetation monitoring for at least two years</p> <p>b. Create and submit QAPP for Veg Monitoring</p> <p>c. Perform vegetation monitoring annually from June to August.</p> <p>d. Collect and summarize data to measure project status and success for noxious weed control, riparian plantings and community engagement</p>	3/31/19	CURRENT	# of volunteers, partners and stakeholders involved in project; # of workshops, events and trainings held and # of participants; # of plants and types of species planted; Plant survival rate 80% or > after year 2; Noxious weed species cover 10% or < after year 2	Have worked with five (5) different private landowners and two (2) separate public landowners at a total of twelve (13) different sites. Over 11,000 native trees and shrubs have been planted. Seven (7) volunteer events have been held with 302 community volunteers contributing 1236 hours to support riparian planting efforts thus far.

CHALLENGES AND SOLUTIONS (specific to reporting period)

*24a. Task No., Sub-Task No.	*24b. Challenge	*24c. Solution
2.6	Plant herbivory from elk	Trying different proven methods to deter elk browse and minimize plant damage including tubes, caging and next will be temporary fencing.

HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS

<p>*25. Despite losing almost 4 weeks of planting time due to snowy/cold weather, it was a very successful planting season for the Lake Sammamish Kokanee and Snoqualmie Headwaters Projects. This is due in part to great support from partners and volunteers.</p>

