



# 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

<b>1. Federal Grant Number</b>	PA-00J322-01	<b>*2a. Reporting Period Start Date:</b>	4/1/2016	<b>*2b. Reporting Period End Date:</b>	9/30/2016
<b>3. Subaward Organization (Name and complete address including zip code)</b>			<b>4. Subaward Project Manager Contact Information</b>		
Name: Stillaguamish Tribe of Indians Address 1: P.O. Box 277 Address 2: City: Arlington State: WA Zip Code: 98223-			Name: Ragina Gray Phone: (360) 722-5643 Ext: Fax: (360) 435-3605 Email: ggray@stillaguamish.com		
<b>5a. EPA Program</b>		<b>5b. Subaward Project Title and Contract No.</b>		<b>*6. Collaborating Organizations/Partners</b>	
LO - Tribal		Stillaguamish Tribe 2013 Restoration and Protection Priorities / 13EPA PSP434			

<b><u>Subawardee Submission Instructions:</u></b>  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.	<b>LO Project Manager:</b> Dani Madrone <b>LO:</b> NWIFC <b>Phone:</b> 360.528.4318 <b>email:</b> dmadrone@nwifc.org  <b>LO Program Coordinator:</b> <b>LO:</b> <b>Phone:</b> <b>email:</b>  <b>EPA Project Officer:</b> Lisa Chang	<b>*7a. Name/Title of Person Submitting Report</b>	Ragina Gray Director of Natural Resources
		<b>*7b. Date Report Submitted</b>	10/31/2016

## 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:	\$166,100.00	*10. Amount Reimbursed To-Date:	\$166,100.00
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	\$71,000.00	\$0.00	\$71,000.00	\$70,355.59		\$70,355.59
Fringe Benefits	\$20,700.00	\$0.00	\$20,700.00	\$20,052.81		\$20,052.81
Travel	\$6,500.00	\$0.00	\$6,500.00	\$6,627.82		\$6,627.82
Equipment	\$0.00	\$0.00	\$ 0.00	\$0.00		\$ 0.00
Supplies	\$9,400.00	\$0.00	\$9,400.00	\$8,647.81		\$8,647.81
Contracts	\$30,000.00	\$0.00	\$30,000.00	\$30,190.17		\$30,190.17
Other	\$0.00	\$0.00	\$ 0.00	\$0.00		\$ 0.00
<b>TOTAL DIRECT CHARGES</b>	<b>\$137,600.00</b>	<b>\$0.00</b>	<b>\$137,600.00</b>	<b>\$135,874.20</b>		<b>\$135,874.43</b>
Indirect Charges	\$28,500.00	\$0.00	\$28,500.00	\$30,225.80		\$30,225.80
<b>TOTAL</b>	<b>\$166,100.00</b>	<b>\$0.00</b>	<b>\$166,100.00</b>	<b>\$166,100.00</b>		<b>\$166,100.00</b>
*Explain Any Discrepancies:						

## ECOSYSTEM GOALS ADDRESSED

16a. Primary Goal	Water Quality
16b. Additional Goals	Healthy Habitat    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	C.2.4    C.1.1    C.7.1    C.9.3    D.6.1    A.6.1    B.5.3    A.5.4
18c. Near-Term Actions Supported	C.1.1 NTA 6

## LINKAGES TO EPA PUGET SOUND PERFORMANCE MEASURES

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

20a. Primary Indicator	Marine Water Quality
20b. Secondary Indicators	Shellfish Beds    Floodplains    Freshwater Quality

## PROJECT LOCATION

21a. Latitude	48.215923	21b. Longitude	-122.184978
21c. Hydrologic Unit Code	17110008 - Stillaguamish	-----	-----
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")
Task 1 Host public outreach and education events	events	4	4
Task 1 Salmon Education in classrooms and field days	days	12	13
Task 2 Phytoplankton monitoring	events (days)	40	55
Task 2 Water quality data collection and dispensation	events (hours)	7200	6740
Task 3 Passive Water Quality of Estuary	3 POCIS	6	6
Task 4 Invasive vegetation treated	Acres	72	57

## 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.

<b>23a. Subaward Work Plan Component/Task:</b> Stillaguamish Tribal Education and Outreach Program					
<b>23b. 2012 Action Agenda Near-Term Action(s) Supported:</b> Community and youth education / outreach program					
*23c. Estimated Costs: \$39,907.81 Actual Costs to Date: \$39,907.61 (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	Host 4 regional public outreach events which include the Stillaguamish Tribe Festival of the River, Earthday Event, Camocean and Salmon Homecoming Seattle	9/30/2016	COMPLETED	Four public outreach events completed	Completed 4 local outreach events: Eagle Festival, Snow Goose Festival, Stillaguamish Festival of the River and Sound Waters
1.2	Plan and implement salmon protection and watershed health education in 4 schools, 2 in-class lessons (March, April and June) and two field components, one that includes	9/30/2016	COMPLETED	A total of 12 in-class lessons, 4 service learning field days and 2 field trips completed	Completed a total of 16 in-class lessons and 1 service learning field day and 3 educational field days.

	service learning via local watershed restoration projects and another education based fieldtrip (May/June).				
1.3	Supervise new AmeriCorps volunteer who will help build capacity in outreach efforts such as outreach and education impact data collection, volunteer recruitment and expansion of outreach and education programing into more schools and events in the Stillaguamish Watershed.	9/30/2016	COMPLETED	Expansion of the Outreach and Education program into 2 additional schools and 2 new public outreach events; Data collection techniques designed and implemented for education and outreach projects; Recruitment of 20 new volunteers for all O&E activities.	We finished work on data collection techniques to track impact data for school lessons and workshops. Instead of two new schools we expanded the salmon education program into 2 new grades at an existing school; 3 <sup>rd</sup> and 4 <sup>th</sup> grade at Darrington Elementary. We have recruited 5 new volunteers for O&E and are working with other partners in the watershed to help provide the lessons and field days The last day of the AmeriCorps service member was 08/15/15. We will not have another this coming year (see challenges and solutions).

<b>23a. Subaward Work Plan Component/Task:</b> Stillaguamish Tribe Marine Water Quality Monitoring					
<b>23b. 2012 Action Agenda Near-Term Action(s) Supported:</b> Shellfish C7, C7.5 Water quality monitoring for ocean acidification: Installation and maintenance of YSI 6600 data logger (2014-2016)					
<b>*23c. Estimated Costs:</b> \$51,846.97 <b>Actual Costs to Date:</b> \$52,002.23 <b>(If required to report – contact your Project Manager)</b>					
23d. Sub-Task No.	23e. Sub-Task Description (include due date)	*23f. Date of Status	*23g. Status	23h. Outputs/Deliverables	*23i. Remarks
2.1	Write a Quality Assurance Project Plan Addendum	9/30/16	COMPLETED	Approved QAPP Addendum	
2.2	Begin monitoring for HABs, bi-weekly November through March, and weekly April through October	9/30/16	COMPLETED	Identification of HAB species and concentrations present in the localized area of Port Susan seasonally; Phytoplankton observations uploaded into the Sound Toxins database weekly.	Weekly sampling and data upload continues.

2.3	Continue to perform monthly maintenance and calibration of water quality monitoring buoy and probe	9/30/16	COMPLETED	Successful acquisition of water quality data	Buoy operated and sent data daily. System out for service much of this period.
2.4	Download and analyze data for proper probe performance; link data to NANOOS visualization system for public access	9/30/16	COMPLETED	Marine water quality data available to scientists and the general public	Linkage to NANOOS successful and updated several times a week with new data when collecting.

<b>23a. Subaward Work Plan Component/Task:</b> Investigation of Emergent Contaminants in Estuarine Habitat of Port Susan					
<b>23b. 2012 Action Agenda Near-Term Action(s) Supported:</b> C.1.1 NTA 6 Emerging Contaminants					
<b>*23c. Estimated Costs:</b> \$30,950.09 <b>Actual Costs to Date:</b> \$30,795.75 <b>(If required to report – contact your Project Manager)</b>					
23d. Sub-Task No.	23e. Sub-Task Description (include due date)	*23f. Date of Status	*23g. Status	23h. Outputs/Deliverables	*23i. Remarks
3.1	Write a Quality Assurance Project Plan Addendum. Acquire all supplies and tools necessary to begin passive sampling	3/31/15	COMPLETED	Approved QAPP Addendum; Sampling readiness.	Task complete.
3.2	Update the existing Joint Working Agreement with the U.S. Geological Survey for year two of passive sampling in estuarine habitat	3/31/15	COMPLETED	A signed agreement between both agencies with a finalized workplan, field schedule and data dissemination plan	Task complete.
3.3	Deploy passive samplers at three locations in estuary habitat near the Stillaguamish delta. The Tribe will place POCIS devices in two distributary channels and one blind tidal channel that are currently being monitored for juvenile salmon abundance	3/31/15	COMPLETED	Year two baseline data on the types of toxic contaminants present in the select estuarine channels between May and July when juvenile salmon are typically found in highest abundance	Task complete.
3.4	Summarize POCIS data and potential sources of contamination.	3/31/15	COMPLETED	Spreadsheet of raw data from each POCIS device; Summary of sampling results and potential contaminant sources from the USGS	Data summary was included in the final SIR Report submitted to EPA. This project is complete and raw data tables are available.

				and a list of next steps and funding needs	
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<b>23a. Subaward Work Plan Component/Task:</b> Riparian Restoration Crew					
<b>23b. 2012 Action Agenda Near-Term Action(s) Supported:</b> Habitat B5, B5.3 Knotweed Control					
*23c. Estimated Costs: \$43,394.79 Actual Costs to Date: \$43,394.64 (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
4.1	Control invasive and/or noxious weeds (species include reed canarygrass, blackberry, thistles, English holly, English ivy, and knotweed) at work sites utilizing a combination of mechanical efforts and herbicide application	9/30/15	COMPLETED	Reduced biomass of non-native, invasive weeds across 18 worksites (72 acres)	In sum, weed control occurred at 15 worksites across 56.7 acres. Methods included grubbing, mechanical mowing, and herbicide application.

**CHALLENGES AND SOLUTIONS (specific to reporting period)**

*24a. Task No., Sub-Task No.	*24b. Challenge	*24c. Solution
Task 2.3 Collect hourly data and perform monthly maintenance operations.	Several back to back technical issues this time period as well as annual servicing and winter weather resulted in less data collection than planned.	Several system components being replaced and/or updated.
4.1 Control invasive and/or noxious weeds	Loss of Snohomish County inmate crew forced us to find a different group to complete the scope of work. As a result, we lost time and SSS was unable to field as many workers as the County Crew. As a result, were unable to affect as many acres as initially proposed.	The transition from the County Crew to the SSS crew went well. It was enjoyable working with the SSS staff and field crew.
Task 1.3 Supervise new AmeriCorps volunteer who will help build capacity in outreach efforts such as outreach and education impact data collection, volunteer recruitment and expansion of outreach and education programing into more schools and events in the Stillaguamish Watershed.	It takes a lot of staff/supervisory time to manage the AmeriCorps placement. Each year we have to retrain a new volunteer to get them up to speed. We have had an AmeriCorps placement for the last 3 years and they have contributed a lot of curriculum and added capacity to the O&E program	This coming year we will not have an AmeriCorps placement, freeing up time for some long-term planning and creating an opportunity to work with partners in the watershed to provide k-12 education as apposed to using an AmeriCorps Individual Placement.

	but the benefits no longer outweigh the extra time and resources required for this program.	
Task 3	There were no challenges during this reporting period	

## HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS

**\*25.**

Task 1.2 We did not achieve our goal of 2 service learning field days. We have reached out to our fisheries enhancement group, Sound Salmon Solutions to assist us in offering more service learning events. Our goal is to engage more of the parents and teachers in this type of event on a weekend in their community rather than during school hours.

Task 2.2: Increased staffing for this project continues to provide increased capacity and consistency for our participation in the Sound Toxins program.

Task 2.3: The power system for the buoy was problematic during this period. An as of yet undiagnosed issue resulted in a repeated power drain of the entire system. We are currently in the process of upgrading the water quality sensors and the GPS components, and the electronic datalogger and modem are sent off for repair. The buoy proper is out for cleaning and painting. For the next year of this project we will purchase a probe that can log data internally and have blue tooth capacity to transmit data, so that power between telemetry and water quality instrumentation remain independent of one another.

Task 3. This task has been completed and there were no new highlights for this reporting period.

Task 4: Weed control has been effective at reducing invasive weed biomass and promoting native plant establishment at restoration sites throughout the watershed. / We learned that some sites respond quicker to weed control than other sites. Some sites may require weed control for many years into the future, especially sites with well established knotweed patches.