



# 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>	P -00J322-01	<b>*2a. Reporting Period Start Date:</b>	4/1/2018	<b>*2b. Reporting Period End Date:</b>	9/30/2018
<b>3. Subaward Organization (Name and complete address including zip code)</b> Name: Swinomish Indian Tribal Community Address 1: 11426 Moorage Way Address 2: City: La Conner State: WA Zip Code: 98257-			<b>4. Subaward Project Manager Contact Information</b>  Name: Julie Barber Phone: (360) 466-7315 Ext: Fax: (360) 466-4047 Email: jbarber@swinomish.nsn.us		
<b>5a. EPA Program</b>  LO - Tribal	<b>5b. Subaward Project Title and Contract No.</b>  Coast Salish Tribal Journey Water Quality Project (TJWQP); Non-Point Pollution Public Information and Education Initiative - Year 4 / 13EPA PSP 438, Swinomish Shellfish Program		<b>*6. Collaborating Organizations/Partners</b>  U.S. Geological Survey and Squaxin Island, Nisqually, and Swinomish canoe families, Jeff Cordell, Puget Sound Restoration Fund		

<b>Subawardee Submission Instructions:</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> Northwest Indian Fisheries Commission <b>Phone:</b> 360.528.4318 <b>email:</b> dmadrone@nwifc.org  <b>EPA Project Officer:</b> Lisa Chang	<b>*7a. Name/Title of Person Submitting Report</b>	Julie Barber Senior Shellfish Biologist
		<b>*7b. Date Report Submitted</b>	10/1/2018

## FUNDING/COST ANALYSIS

<b>8a. Total Assistance Amount Awarded:</b>	\$112,450.00	<b>8b. Funding Year (Federal Fiscal Year Funds Appropriated)</b>	FY 2014 ----- ----- -----	<b>*9. Amount Spent To-Date:</b>	\$112,200.00	<b>*10. Amount Reimbursed To-Date:</b>	\$112,200.00
<b>11. Match Amount Required</b>	\$0.00	<b>*12. Total Match Amount Spent and Documented To-Date:</b>	\$0.00	<b>*13. Have you experienced any cost overruns or high unit costs?</b>	To date there have been no cost overruns.		
<b>*14. What issues or questions do you need the LO Project Manager to respond to?</b>							

## BUDGET UPDATE

	15a. APPROVED BUDGET			*15b. SPENT TO-DATE		
	LO (EPA) Funds	MATCH	TOTAL	LO (EPA) Funds	MATCH	TOTAL
<b>Personnel</b>	\$25,997.16	\$0.00	\$25,997.16	\$23,718.17		\$23,718.17
<b>Fringe Benefits</b>	\$14,858.96	\$0.00	\$14,858.96	\$12,629.48		\$12,629.48
<b>Travel</b>	\$1,461.00	\$0.00	\$1,461.00	\$1,266.96		\$1,266.96
<b>Equipment</b>	\$0.00	\$0.00	\$ 0.00	\$0.00		\$ 0.00
<b>Supplies</b>	\$11,543.88	\$0.00	\$11,543.88	\$10,240.90		\$10,240.90
<b>Contracts</b>	\$30,240.00	\$0.00	\$30,240.00	\$34,560.00		\$34,560.00
<b>Other</b>	\$18,000.00	\$0.00	\$18,000.00	\$17,900.94		\$17,900.94
<b>TOTAL DIRECT CHARGES</b>	\$102,101.00	\$0.00	\$102,101.00	\$100,316.45		\$100,316.45
<b>Indirect Charges</b>	\$10,349.00	\$0.00	\$10,349.00	\$11,883.55		\$11,883.55
<b>TOTAL</b>	\$112,450.00	(\$0.00)	\$112,450.00	\$112,200.00		\$112,200.00
<b>*Explain Any Discrepancies:</b>						

## ECOSYSTEM GOALS ADDRESSED

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

## DIRECT THREATS ADDRESSED

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

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

18a. Primary Strategic Initiative	Tribal Habitat Priorities
18b. Sub-Strategies Employed	B.1 C.1 D.5 A.1 A.6 A.7
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	-----
20b. Secondary Indicators	Marine Water Quality Freshwater Quality -----

## PROJECT LOCATION

21a. Latitude	48.382773	21b. Longitude	-122.501476
21c. Hydrologic Unit Code	17110007 - Lower Skagit	-----	-----
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”)
Tribal Journey Water Quality Project will meet with Coast Salish leadership, Canoe Families, Tribal and non-Tribal scientists from Washington and British Columbia to develop a strategic plan for the Project	Meetings	6	6
Coordinate with canoe families to conduct the water-quality survey along multiple routes during the 2014 Tribal Journey to Bella Bella	Routes	1	1
Collect water-property data along the proposed routes with canoe families	Samples	10000	8949
Collect water property data at sites within critical habitats on Swinomish Reservation	Sites	4	5
Conduct Olympia oyster monitoring activities as outlined in the QAPP	Samples	98	98
Conduct ecosystem services of oyster reef monitoring activities	Samples	144	144

## 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> Coast Salish Tribal Journey Water Quality Project (TJWQP)					
<b>23b. 2012 Action Agenda Near-Term Action(s) Supported:</b>					
*23c. Estimated Costs: \$20,000.00 Actual Costs to Date: \$ 19,766.73 (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	Engage in project planning and coordination, including development of QAPP addendum.	3/31/2016	COMPLETED	Funding secured and managed; Approved QAPP Addendum; Montly Canoe Journey meetings; Instrumentation and supplies secured;	A QAPP Addendum developed for the 2015 monitoring included methods for the canoe track monitoring and moored instrument special studies. As there was no official host for the summer 2015 Tribal Journey, Muckleshoot

				Technicians/volunteers recruited	stepped forward and hosted a Youth Pull. Swinomish staff attended planning meetings associated with the Youth Pull.
1.2	Gather water-quality data across the Salish Sea to quantify variability, detect changes and trends, and identify areas for future study	3/31/2016	COMPLETED	Instrument packages assembled and delivered to technicians/volunteers; Coordinator provides assistance as technician in operation of equipment and collection of data; and ensures that quality control procedures are implemented	The 2015 Youth Pull route began on the Lummi Reservation and canoes traveled south to Golden Gardens Parks in Seattle, Muckleshoot territory. The Swinomish canoe collected temperature, salinity, and dissolved oxygen data along the track. Moored instruments were deployed at key locations across the Swinomish Reservation. The sites were located in critical juvenile salmon rearing habitats and we were able to capture water property conditions in these habitats during summer 2015, which was extremely warm and dry.
1.3	Analyze data and synthesize results of TJWQP data results into maps, GIS data layers, and reports for public dissemination	3/31/2016	COMPLETED	Data entry completed; Data analysis; GIS data layers; Additional analyses with USGS scientists; Maintenance of web-based data query system to facilitate dissemination of TJWQP data to Tribes, First Nations, and other interested agencies or academic institutions; Final report detailing results of the 2008 to 2015 Tribal Journey Water Quality Project – Journey findings	A data summary report detailing results and findings from 2008 to 2015 was drafted as a final project deliverable under this award. It is currently for technical review and will be available for distribution by the completion of the FY14 term.
1.4	Continue to develop the TJWQP outreach materials and strategic plan	3/31/2016	COMPLETED	Web-based outreach materials with project data, accomplishments, publications, and contributions to Salish	Western Washington University has generously hosted the TJWQP web page with yearly data results for each parameter monitored over the course of the

				Sea science; Reporting to Tribal/First Nation communities on project findings and accomplishments; Presentation at 2014 Coast Salish Gathering; Semi-annual project review with TJWQP partners	Tribal Journey Water Quality Project. Plans to share project data with NANOOS and the West Coast Governors Alliance on Ocean Health are ongoing. Discussions are ongoing with Northwest Indian College and other Tribes and First Nations to determine the best way for the project to continue on into the future.
			-----		
			-----		

**23a. Subaward Work Plan Component/Task:** Swinomish Indian Tribal Community Non-Point Pollution Public Information and Education Initiative – Year 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
2.1	Continue to refine messages for robust, coherent public information campaign through highly visible distribution channels, leveraging content from website, peer reviewed scientific data, opinion research conducted in previous years, and using insights for digital marketing	9/30/2016	CANCELLED	Refine message to reflect behavior patterns expressed in response to digital marketing efforts represented in advertising and website content	
2.2	Conduct digital marketing campaign using display, search and social media advertisements, utilizing demographic and consumer targeting	9/30/2016	CANCELLED	40,000 new unique visits to website	
2.3	Provide for a minimum of 4 ads in Washington newspapers	9/30/2016	CANCELLED	4 paid print ads, with distribution in the Seattle Times, Bellingham Herald and the Skagit Valley Herald	

2.4	Provide for a minimum of two billboard displays in Puget Sound, with distribution in King, Skagit and Whatcom counties	9/30/2016	CANCELLED	Two billboard displays for duration of campaign	
2.5	Ongoing project management.	9/30/2016	CANCELLED	Ongoing coordination of efforts by Strategies 360, including regular, biweekly check-ins, detailed expenditure reports on invoices, and assistance in completing grant reporting requirements	

**23a. Subaward Work Plan Component/Task:** Swinomish Shellfish Program

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

**\*23c. Estimated Costs:** \$94,600.00  
**Actual Costs to Date:** \$94,600.00  
**(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
3.1	Project planning and coordination	9/30/2018	COMPLETED	FEATS reports	
3.2	Map surface currents and principal larval transport pathways in Similk and northern Skagit Bays	9/30/2018	COMPLETED	Completed field work for methods outlined in the QAPP quantifying circulation patterns around Lone Tree Point and fate and transport of larval species	Work on this award began in June 2017. Over two days, currents were measured in the study area capturing data describing transport pathways across the entire tide cycle. USGS is processing the data and will deliver products to SITC by early May 2018.
3.3	Monitor recruitment of shellfish species in nearshore habitats and conduct ecological assessments	9/30/2018	COMPLETED	Completed field work for methods outlined in the QAPP quantifying circulation patterns around Lone Tree Point and fate and transport of larval species	From May 30 <sup>th</sup> to August 31 <sup>st</sup> we collected 98 plankton samples across nine sites offshore of Lone Tree Point looking for the presence of Olympia oyster larvae. In total we sampled 15 dates and found oyster larvae present on a majority of those sampling events. In May 2017 recruitment traps were deployed

					at 11 locations outside of the restoration area to monitor if larvae were settling in the area. Recruitment traps were retrieved from the sites in late August. Processing of these samples was completed in fall 2017. The final rounds of epibenthic monitoring at the field sites was conducted March and April 2018. Finally, in May 2018 we spread oyster shell at site LTN2, identified through this monitoring in order to expand the Olympia oyster restoration efforts on Swinomish tidelands.
3.4	Analyze data and synthesize results into maps, GIS data layers and report for public dissemination	9/30/2018	COMPLETED	GIS layers highlighting potential shellfish habitat restoration/enhancement areas, technical document summarizing results for surveying transport and recruitment patterns of native shellfish on Swinomish tidelands for public dissemination	We have compiled all of the surface water current data with the results of the larvae and recruitment monitoring to generate maps of potentially successful locations to expand the Olympia oyster restoration effort. A final technical report summarizing project results is in internal review and will be delivered by November 2018.

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

<b>*24a. Task No., Sub-Task No.</b>	<b>*24b. Challenge</b>	<b>*24c. Solution</b>
Swinomish Indian Tribal Community Non-Point Pollution Public Information and Education Initiative – Year 4 Tasks 2.1 through 2.3	Award and workplan are cancelled	A rescoped workplan was contracted on 1/9/17 to include the Swinomish Shellfish Program



## HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS

\*25.

Data collection has been completed for the ninth year of the Tribal Journey Water Quality Project during the Journey to Nisqually. Canoe Families, the U.S. Geological Survey, and Northwest Indian College have committed to continuing participation in the Tribal Journey Water Quality Project in future years. Their valuable contribution has resulted in the collection of over 200,000 water-quality samples from across the Salish Sea to date. Through this award, Swinomish Fisheries Department was able to create a third Olympia oyster restoration site on Reservation tidelands.