



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-01J276-01 | *2a. Reporting Period Start Date: | 10/1/2017 | *2b. Reporting Period End Date: | 3/31/2018 |
| 3. Subaward Organization (Name and complete address including zip code) Name: Samish Indian Nation Address 1: 2918 Commercial Avenue Address 2: City: Anacortes State: WA Zip Code: 98221- | | | 4. Subaward Project Manager Contact Information Name: Todd Woodard Phone: (360) 293-6404 Ext: 119 Fax: (360) 661-6336 Email: twoodard@samishtribe.nsn.us | | |
| 5a. EPA Program LO - Tribal | 5b. Subaward Project Title and Contract No. San Juan Islands Kelp Forest Survey Project; San Juan Island Creosote Removal and Beach Clean Up Project and San Juan Island Prairie Bald Habitat Assessment Project / 16EPA PSP447 | | *6. Collaborating Organizations/Partners WA-DNR, Washington Conservation Corps, EarthCorps, NOAA/NMFS, NW Straits Foundation | | |

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| 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 LO: NWIFC Phone: 360.528.4318 email: dmadrone@nwifc.org EPA Project Officer: Lisa Chang | *7a. Name/Title of Person Submitting Report | Todd Woodard-Dir Nat Res Jodi Bluhm- DNR Field Supervis |
| | | *7b. Date Report Submitted | 4/30/2018 |

FUNDING/COST ANALYSIS

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|---|--------------|---|------------------------------------|---|--------------|---------------------------------|--------------|
| 8a. Total Assistance Amount Awarded: | \$184,100.00 | 8b. Funding Year (Federal Fiscal Year Funds Appropriated) | FY 2016 ----- ----- ----- | *9. Amount Spent To-Date: | \$161,378.76 | *10. Amount Reimbursed To-Date: | \$138,659.55 |
| 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? | none | | |
| *14. What issues or questions do you need the LO Project Manager to respond to? | | none | | | | | |

BUDGET UPDATE

| | 15a. APPROVED BUDGET | | | *15b. SPENT TO-DATE | | |
|-----------------------------|----------------------|-------|--------------|---------------------|-------|--------------|
| | LO (EPA) Funds | MATCH | TOTAL | LO (EPA) Funds | MATCH | TOTAL |
| Personnel | \$76,524.00 | | \$76,524.00 | \$77,127.25 | | \$77,127.25 |
| Fringe Benefits | \$33,444.00 | | \$33,444.00 | \$32,715.31 | | \$32,715.31 |
| Travel | \$15,399.00 | | \$15,399.00 | \$3,918.16 | | \$3,918.16 |
| Equipment | \$5,388.00 | | \$5,388.00 | \$3,768.04 | | \$3,768.04 |
| Supplies | \$7,208.00 | | \$7,208.00 | \$3,351.77 | | \$3,351.77 |
| Contracts | | | \$ 0.00 | \$0.00 | | \$ 0.00 |
| Other | | | \$ 0.00 | \$0.00 | | \$ 0.00 |
| TOTAL DIRECT CHARGES | \$137,963.00 | | \$137,963.00 | \$120,880.53 | | \$120,880.53 |
| Indirect Charges | \$46,137.00 | | \$46,137.00 | \$40,498.23 | | \$40,498.23 |
| TOTAL | \$184,100.00 | | \$184,100.00 | \$161,378.76 | | \$161,378.76 |
| *Explain Any Discrepancies: | n/a | | | | | |

ECOSYSTEM GOALS ADDRESSED

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

DIRECT THREATS ADDRESSED

| | |
|--------------------------|-------------------------------|
| 17a. Primary Threat | Point Source Pollution |
| 17b. Secondary Threat(s) | Development ----- ----- |

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

| | | | | | | | | | | | | | |
|-----------------------------------|---------------------------|------|------|------|------|------|----------|------|------|----|-----------|------|------|
| 18a. Primary Strategic Initiative | Tribal Habitat Priorities | | | | | | | | | | | | |
| 18b. Sub-Strategies Employed | 16 | 17.1 | 19.1 | 21.2 | 21.3 | 21.4 | 23.1, .2 | 24.2 | 26.3 | 27 | 15.1-15.4 | 25.2 | 26.1 |
| 18c. Near-Term Actions Supported | | | | | | | | | | | | | |

LINKAGES TO EPA PUGET SOUND PERFORMANCE MEASURES

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

LINKAGES TO PUGET SOUND DASHBOARD INDICATORS

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|---------------------------|----------------------|---------------------|--------------------------|
| 20a. Primary Indicator | Marine Water Quality | | |
| 20b. Secondary Indicators | Freshwater Quality | Wild Chinook Salmon | Pacific Herring ----- |

PROJECT LOCATION

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|---------------------------|-----------------------------|----------------|-------------|
| 21a. Latitude | 48.483835 | 21b. Longitude | -122.589586 |
| 21c. Hydrologic Unit Code | 17110003 - San Juan Islands | ----- | ----- |
| 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”) |
|--|----------------------------|---------------------------------|--|
| Bull Kelp Mapped/surveyed | # acres | 700 | 821 |
| Beaches Surveyed for Creosote and marine Debris | # Islands Completed | 15 | 16 |
| Marine Debris and Creosote Removed from beaches | pounds | 100000 | 580090 |
| Level III Survey completed on targeted Prairie Balds | # prairies surveyed | 12 | 12 |
| QAPPs/SOPs approved/written | # documents | 6 | 6 |
| | | | |

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: San Juan Islands Kelp Forest Survey 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 | Interview and document Samish Tribal Elders recording tribal knowledge of previous Bull Kelp locations. | 3/31/17 | COMPLETED | GIS map of Samish historic knowledge of Kelp forest locations. | Tribal members spoke with their father and uncle who are two life long Fishermen. A GIS layer was created of the traditional ecological knowledge gained from their input. |
| 1.2 | Develop Relational Database. | 3/31/17 | COMPLETED | Develop survey protocols. QAPP, SOP | Protocols have been developed. The SOP is complete. The QAPP is complete and approved by |

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| | | | | | NWIFC. The database is complete |
| 1.3 | Survey Bull Kelp extent and depth. | 3/31/18 | COMPLETED | Enter Bull Kelp data in relational database after each survey. | Surveys began in June of 2017 and 4 major kelp beds were surveyed. |
| 1.4 | Create Bull kelp extent GIS map with historic and current datasets. | 3/31/18 | COMPLETED | GIS map of areas surveyed and survey results. | Historic information and traditional knowledge have been mapped. Kelp beds surveyed from the 2017 season have been added to the GIS dataset. Mapping historical bull kelp beds using 2016 high resolution imagery was completed in March of 2018. |
| 1.5 | Report writing and finding presentations. | 3/31/18 | CURRENT | Project Summary Report to be shared with EPA, Puget Sound Restoration Fund, NMFS and Friends of the San Juans as well as other interested project partners. | Project Summary Report is underway. Preliminary findings were presented at the 2018 Salish Sea Ecosystem Conference in Seattle, WA in April 2018. |

| 23a. Subaward Work Plan Component/Task: San Juan Island Creosote Removal and Beach Clean Up 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 |
| 2.1 | Develop QAPP and SOP for shoreline creosote debris survey methods. | 3/31/17 | COMPLETED | QAPP/SOP | The QAPP and SOP were completed in March 2017. QAPP has been approved by NWIFC. |
| 2.2 | Survey current creosote, treated material, and large debris throughout the project area. | 3/31/18 | CURRENT | Create GIS maps of areas surveyed and update previous clean up maps. Develop relational database to house baseline creosote and large debris and creosote | GIS Maps were updated and a relational database was developed to house all the survey data. An ESRI GIS Story Map was created in March, 2017 and has been updated to reflect the past 4 years of the project. The story map has been viewed over 2500 |

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| | | | | and debris removed. Baseline creosote treated material and large debris data report including analysis of re-accumulation of debris on previously cleaned beaches. | times. The Storymap placed 2 nd in the international 2017 Esri Storytelling with Maps Contest in the Conservation, Environment, and Sustainability category. The Storymap also took the Grand Prize in the National 2017 ESRI Tribal Storytelling with Maps Contest. The 2018 Surveys began March 1 and will continue through FY17 funding cycle. |
| 2.3 | Assist Project Partners in removal of creosote and other marine debris from beaches in Puget Sound. | 3/31/18 | COMPLETED | Documentation of marine debris removed from San Juan Beaches (tonnage removed). | As we survey current creosote, treated material, and large debris throughout the project area to help optimize collection time with partners, we are collecting marine debris and creosote that can be easily thrown away. Some types of Marine Debris are: rope, crab buoys, crab pots, treated wood, and styrofoam. Large scale debris removal began in June 2017 and has ended for the season. The total amount removed from shorelines in the San Juan Islands for the 2017 season was 160,180 lbs. |
| 2.4 | Write Data Summary Report | 3/31/18 | COMPLETED | Project Summary Report including information that may be used to monitor long term trends in debris migration. | We have summary information in a poster presentation, powerpoint presentation, Interactive Map and an ESRI Story Map. The final written report will be completed at the end of the overall project. The project continues into FY17 funding cycle. |

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| 23a. Subaward Work Plan Component/Task: San Juan Islands Prairie Bald Habitat Assessment 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 |
| 3.1 | Identify survey locations based on the results of last year's level II EIA on Cypress and San Juan Islands. | 3/31/17 | COMPLETED | Identify survey locations | Based on the data from our Level II EIA, we identified 12 restoration candidate balds and 3 reference balds in which to do a Level III EIA. |
| 3.2 | Coordinate with partners to develop study parameters | 3/31/17 | COMPLETED | Develop study parameters | Working closely with the state ecologist for Western Washington, we have adapted accepted flexible vegetation survey methods to our particular ecosystem for use in the Level III EIA. |
| 3.3 | Develop Level III EIA sampling protocols; QAPP and SOP development | 3/31/17 | COMPLETED | Consistent sampling methods and data for prairie balds on WaDNR owned lands; QAPP/SOP manuals for data collected | QAPP and SOP completed January of 2017; methods are consistent with those used by WADNR and many other institutions. |
| 3.4 | Survey targeted locations; field data collection | 09/30/17 | COMPLETED | GIS based maps indicating location, habitat attributes and EIA rating of selected locations. | Map of proposed Level III EIA balds completed; field work completed; final maps completed. |
| 3.5 | Report writing and finding presentations | 3/31/18 | COMPLETED | Reports to inform preservation and restoration strategies; Data summary report | Data summary report completed; foundation for FY17 work laid by having preliminary conversation about Level III EIA results and restoration strategies with our partners at WADNR. |

CHALLENGES AND SOLUTIONS (specific to reporting period)

| *24a. Task No., Sub-Task No. | *24b. Challenge | *24c. Solution |
|-------------------------------------|--|--|
| 1.4 | Landing craft and weather were a challenge for this summer. Our landing craft's gas tank had to be replaced, which resulted in missing a month of boat time for surveying. After our landing craft was repaired, there were many days of severe winds and low lying fog resulting in small craft and fog advisory events during September. | We attempted to have back up days and used them when feasible. |

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| 1.4 | Many of the kelp beds were located along islands that are dedicated as NWRs (National Wildlife Refuge) which by law, are closed to the public to protect breeding colonies of seabirds, endangered and threatened species, and marine mammals. Boaters are requested to stay at least 200 yards away from these islands to avoid disturbance to these animals. | We surveyed Kelp Beds found outside of NWRs and focused heavily on digitizing high resolution imagery to locate and measure beds found throughout the islands. |
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HIGHLIGHTS/LESSONS LEARNED/REFLECTIONS

***25.**

The Level II EIA was highly informative as to the health of the balds and the challenges and opportunities that restoration may present. Further questions include inquiry into tree age studies and more environmental/cultural history of Cypress Island balds.

The Level III EIA further informed our understanding of vegetation dynamics in the Cypress Island balds. It also provided the baseline data for a before-and-after restoration study. Based on the data from the Level III EIA, we are in the process of developing a bald restoration strategy, to be implemented in Spring 2018. Proposed restoration strategies include strategic conifer thinning and possibly controlled burns; we plan to study various seeding and planting methods in all restored sites.

Data for the Cattle Point prairies has been shared with the Center for Natural Lands Management for future work on prairie habitats in national parks.

The Story Map placed 2nd in the international 2017 Esri Storytelling with Maps Contest in the Conservation, Environment, and Sustainability category. The Storymap also took the Grand Prize in the National 2017 ESRI Tribal Storytelling with Maps Contest. The Story Map can be found at this link:
<http://arcg.is/2mq80tM>