

PROJECT: 20-1935 PLAN, MEADOWDALE BEACH PARK RESTORATION STUDY

Sponsor: Tulalip Tribes Program: ESRP Activities Status: Director Alternate

Parties to the Agreement

PRIMARY SPONSOR

Tulalip Tribes
Address 6406 Marine Dr
City Tulalip **State** WA **Zip** 98271
Org Type Native American Tribe
Vendor # SWV0012216-07
UBI

Date Org created

Org Notes

[link to Organization profile](#)
[link to PRISM Organization page](#)
☐ Org data updated

SECONDARY SPONSORS

No records to display

LEAD ENTITY

WRIA 8 LE

Project Contacts

Contact Name Primary Org	Project Role	Work Phone	Work Email
Todd Zackey Tulalip Tribes	Project Contact	(360) 716-4637	tzackey@tulaliptribes-nsn.gov
Carrie Byron WRIA 8 LE	Lead Entity Contact	(206) 573-6056	cbyron@kingcounty.gov
Paul Schlenger Environmental Science Assoc	Secondary Sponsor Contact	(206) 601-1405	pschlenger@esassoc.com
Kay Caromile Rec. and Conserv. Office	Project Manager	(360) 867-8532	kay.caromile@rco.wa.gov
Letitia Conway-Cranos Fish & Wildlife Dept of	Funding Agency Contact	(360) 902-2540	Tish.Conway-Cranos@dfw.wa.gov

Worksites & Properties

- | # | Worksite Name |
|----|------------------------------|
| #1 | Meadowdale Beach County Park |
| #2 | Picnic Point Park |

Worksite Map & Description

Worksite #1: Meadowdale Beach County Park

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WORKSITE ADDRESS

Street Address 6026 156th St SW

City, State, Zip Edmonds WA 98026

Worksite #2: Picnic Point Park

WORKSITE ADDRESS

Street Address

City, State, Zip

Worksite Details

Worksite #1: Meadowdale Beach County Park

SITE ACCESS DIRECTIONS

From I-5 Take exit 183 for 164th St SW
Turn west onto 164th St SW (signs for Alderwood Mall Pkwy)
Continue onto 44th Ave W
Turn right onto 168th St SW
Turn right to stay on 168th St SW
Turn right onto 66th Ave W
Turn left onto N Meadowdale Rd
Turn right onto 75th Pl W
At the Gate punch in the provided gate code
Drive down the park access road and park in one of the available spaces.

TARGETED ESU SPECIES

Species by ESU	Egg Present	Juvenile Present	Adult Present	Population Trend
Chinook-Puget Sound, Threatened		✓		Declining
Coho-Puget Sound/Strait of Georgia, Species of Concern	✓	✓	✓	Declining

Reference or source used

Beamer, E.M., W.T. Zackey, D. Marks, D. Teel, D. Kuligowski, and R. Henderson. 2013. Juvenile Chinook salmon rearing in small non-natal streams draining into the Whidbey Basin. Skagit River System Cooperative, LaConner, WA. North WRIA 8 Coastal Stream Fish Sampling Report (in Prep)

TARGETED NON-ESU SPECIES

Species by Non-ESU	Notes
Searun Cutthroat	
Forage fish	Not the focus of the study but the Snohomish MRC plans on conducting forage fish egg surveys at the site and we will incorporate their data into our final report. Also we will be conducting beach seines in the marine waters at Picnic Point and Meadowdale Beach park which will provide additional information about forage fish use of the the restored site.

Worksite #2: Picnic Point Park

SITE ACCESS DIRECTIONS

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TARGETED ESU SPECIES

Species by ESU

Egg Present

Juvenile Present

Adult Present

Population Trend

Chinook-Puget Sound, Threatened



Reference or source used

Beamer, E.M., W.T. Zackey, D. Marks, D. Teel, D. Kuligowski, and R. Henderson. 2013. Juvenile Chinook salmon rearing in small non-natal streams draining into the Whidbey Basin. Skagit River System Cooperative, LaConner, WA.

TARGETED NON-ESU SPECIES

Species by Non-ESU

Notes

Searun Cutthroat

Forage fish

We plan on comparing fish sampling between Picnic Point (reference unrestored site) and Meadowdale Beach Park including forage fish.

Project Proposal

Project Description

The Meadowdale Beach Park Restoration Study will be conducted at Snohomish County's Meadowdale Beach Park. The project will evaluate the geomorphic and ecologic responses of the ESRP-funded Meadowdale Beach and Estuary Restoration Project, the first estuary embayment restoration project along the 52 miles of waterfront railroad in the Salish Sea. Improving understanding and metrics of project performance and system responses across several interconnected habitats will inform future design, siting and resilience of restoration investments and provide data on the use of the site by ESA listed Puget Sound juvenile chinook, juvenile coho, cutthroat trout, steelhead, and forage fish.

Project Questions

No questions needed for this project.

Planning Metrics

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Worksite: Meadowdale Beach County Park (#1)

Area Encompassed (acres) (B.0.b.1)	35.0
Miles of Stream and/or Shoreline Affected (B.0.b.2)	0.36

RESTORATION PLANNING AND COORDINATION PROJECT

Evaluation/analysis of restoration plans and projects (B.1.b.9)

Total cost for Evaluation/analysis of restoration plans and projects	\$237,050
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Project Identified in a Plan or Watershed Assessment (B.1.b.9.a)	The Meadowdale Beach Park Restoration Study is not directly identified in the WRIA recovery plan. However, the Lake Washington/Cedar/Sammamish Watershed Chinook Salmon Conservation Plan 10-Year Update-outlines a suite of 20 recovery strategies thought to be the most important for achieving the watershed's salmon recovery goals. The the Meadowdale Beach and Estuary Restoration Project project directly aligns with several of these recovery strategies including: Reconnect Backshore Areas and Pocket Estuaries, Restore Natural Marine Shorelines, Restore Sediment Processes Necessary for Key Life Stages, Protect and Restore Channel Complexity, and Protect and Restore Functional Riparian Vegetation. The study will provide crucial data to inform new salmon recovery strategy efforts and inform adaptive management of salmon recovery strategies.
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Description of the Plan (B.1.b.9.b)	Current plans are still in development with a Phase 1 completed in 2019, Coastal Streams and Embayments Prioritization along Puget Sound Shores with a Railroad PRIORITIZATION FRAMEWORK TECHNICAL REPORT. The goal of this project was to develop a prioritization framework for evaluating the relative benefit to Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) of restoring conditions of coastal streams and embayments impacted by the presence of the railroad operated by BNSF Railway on or near the shoreline of the Puget Sound. The causeway that supports the railroad is a widespread stressor along the shoreline, with 52 miles having the railroad on the shoreline and an additional 21 miles with the railroad within 200 feet of the shoreline (Figure 1, Simenstad et al. 2011). In many instances, the railroad forms a barrier between the coastal watershed and the shoreline, restricting the movement of fish as well as affecting the ecosystem processes regulating the delivery of water, sediment, wood, and organic matter into the nearshore. This truncates the size of the estuarine habitats that naturally occur in the transitional area between fresh and saltwater. These changes impact the quality and quantity of habitat available for salmon and other animals who rely on the nearshore and estuarine habitats of Puget Sound. The prioritization completed in this study focused primarily on the benefits to Chinook Salmon that are possible by restoring stream and estuary habitats at the railroad crossing.
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Worksite: Picnic Point Park (#2)

Area Encompassed (acres) (B.0.b.1)	20.0
Miles of Stream and/or Shoreline Affected (B.0.b.2)	0.28

EQUIPMENT

REGIONAL FEASIBILITY AND PRE-DESIGN (LEARNING) PROJECT

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RESTORATION PLANNING AND COORDINATION PROJECT

Evaluation/analysis of restoration plans and projects (B.1.b.9)

Total cost for Evaluation/analysis of restoration plans and projects	\$17,392
	Note: Cost is the total estimated cost for conducting sampling at Picnic Point Creek to collect data as a control compared to the nearby restored embayment and stream at Meadowdale Beach Park.
Project Identified in a Plan or Watershed Assessment (B.1.b.9.a)	Picnic Creek is being used as a control site for the Meadowdale Beach Park Restoration Study study for comparison between a restored site and unrestored stream along the railroad corridor
Description of the Plan (B.1.b.9.b)	<p>Current plans are still in development with a Phase 1 completed in 2019, Coastal Streams and Embayments Prioritization along Puget Sound Shores with a Railroad PRIORITIZATION FRAMEWORK TECHNICAL REPORT. The goal of this project was to develop a prioritization framework for evaluating the relative benefit to Chinook Salmon (<i>Oncorhynchus tshawytscha</i>) of restoring conditions of coastal streams and embayments impacted by the presence of the railroad operated by BNSF Railway on or near the shoreline of the Puget Sound. The causeway that supports the railroad is a widespread stressor along the shoreline, with 52 miles having the railroad on the shoreline and an additional 21 miles with the railroad within 200 feet of the shoreline (Figure 1, Simenstad et al. 2011). In many instances, the railroad forms a barrier between the coastal watershed and the shoreline, restricting the movement of fish as well as affecting the ecosystem processes regulating the delivery of water, sediment, wood, and organic matter into the nearshore. This truncates the size of the estuarine habitats that naturally occur in the transitional area between fresh and saltwater. These changes impact the quality and quantity of habitat available for salmon and other animals who rely on the nearshore and estuarine habitats of Puget Sound. The prioritization completed in this study focused primarily on the benefits to Chinook Salmon that are possible by restoring stream and estuary habitats at the railroad crossing.</p>

CULTURAL RESOURCES

AGENCY INDIRECT COSTS

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Overall Project Metrics

COMPLETION DATE

Projected date of completion	07/31/2023
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ESRP LEARNING

If the project includes a predictive analysis of estuarine/nearshore habitat-forming process(es), what processes does it predict?

If the project includes field data collection, what type of data does it collect?

If the project includes field data collection, what parameter(s) does it evaluate?
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NEARSHORE

Shoreforms	Beaches Embayments
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ESRP Learning

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Planning Cost Estimates

Worksite #1: Meadowdale Beach County Park

Category	Work Type	Estimated Cost	Note
Restoration Planning And Coordination Project	Evaluation/analysis of restoration plans and projects (B.1.b.9)	\$237,050	
	Subtotal:	\$237,050	
	Total Estimate For Worksite:	\$237,050	

Worksite #2: Picnic Point Park

Category	Work Type	Estimated Cost	Note
Restoration Planning And Coordination Project	Evaluation/analysis of restoration plans and projects (B.1.b.9)	\$17,392	Cost is the total estimated cost for conducting sampling at Picnic Point Creek to collect data as a control compared to the nearby restored embayment and stream at Meadowdale Beach Park.
	Subtotal:	\$17,392	
	Total Estimate For Worksite:	\$17,392	

Summary

Total Estimated Costs:	\$254,442
Total Estimated Planning Costs:	\$254,442

Cost Summary

	Estimated Cost	Project %	Admin/AA&E %
Planning Costs			
Planning	\$254,442		
SUBTOTAL	\$254,442	100.00 %	
Total Cost Estimate	\$254,442	100.00 %	

Funding Request and Match

FUNDING PROGRAM

ESRP Activities	\$194,685	76.514491 %
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SPONSOR MATCH

OTHER MONETARY FUNDING

GRANT - FEDERAL

Amount	\$59,757.00
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Funding Organization

Grant Program

Match Total: \$59,75723.485509 %

Total Funding Request (Funding + Match): \$254,442100.000000C

Cultural Resources

No questions needed for this project.

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Attachments

Required Attachments	3 out of 3 done
Applicant Resolution/Authorizations	✓
Budget Worksheet	✓
Project and Budget Narrative	✓

PHOTOS (JPG, GIF)

Photos (JPG, GIF)



441591



441601



441602



441603




























441604

PROJECT DOCUMENTS AND PHOTOS

Project Documents and Photos

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File Type	Attach Date	Attachment Type	Title	Person	File Name, Number Associations	Shared
	10/07/2020	Correspondence	Zackey_Meadowdale Review Comments	KayC	Zackey_Meadowdale_Comments.pdf, 448429	✓
	09/24/2020	Cultural Resources: Correspondence	20-1935 Meadowdale Supplemental Cult Res Info17Sept2020	KayC	20-1935 Meadowdale Cult Res Form_17Sept2020.pdf, 447327	
	09/03/2020	Project Review Comments	Project Review Comments Report, 20-1935P(accepted 09/03/20 1	KayC	Project Review Comments Report - 20-1935 (accepted 09-03-2020_10-27-10).pdf, 445820	✓
	09/03/2020	Application Review Report	Grant Manager Comments Report, 20-1935P(compl 09/03/20 10:27	KayC	Grant Manager Comments Report - 20-1935 (compl 09-03-2020_10-27-10).pdf, 445819	✓
	08/04/2020	Budget Worksheet	MBPRS budget worksheet 2020	ToddZ	MBPRS budget worksheet 2020_Final.xls, 441736	✓
	08/04/2020	Project Application Report	Project Application Report, 20-1935P (sub 08/04/20 17:14:56)	ToddZ	Project Application Report - 20-1935 (submitted 08-04-2020_17-14-56).pdf, 441727	✓
	08/04/2020	Application Document	Leonetti CV	ToddZ	LeonettiFrank_CV_2pager.pdf, 441726	✓
	08/04/2020	Project and Budget Narrative	Meadowdale Beach Park Restoration Study ESRP proposal	ToddZ	Meadowdale_Beach_Park_Restoratio... 441725	✓
	08/04/2020	Photo	Lund Gulch Creek mouth 2	ToddZ	160729_04599.jpg, 441605	✓
	08/04/2020	Photo	Lund Gulch Creek mouth	ToddZ	lunds mouth 3.jpg, 441604	✓
	08/04/2020	Map: Site Location	Project Site & Control Site Map	ToddZ	Site_and_control.jpg, 441603	✓
	08/04/2020	Map: Site Location	Location_Map.jpg	ToddZ	Location_Map.jpg, 441602	✓
	08/04/2020	Map: Area of Potential Effect (APE)	MBER_APE_Map.jpg	ToddZ	MBER_APE_Map.jpg, 441601	
	08/04/2020	Application Document	Zackey CV.pdf	ToddZ	Zackey CV.pdf, 441595	✓
	08/04/2020	Letters of Support	Support Letter - Tulalip-Meadowdale 7-30-20.pdf	ToddZ	Support Letter - Tulalip-Meadowdale 7-30-20.pdf, 441594	✓
	08/04/2020	Application Document	Scordino Resume - July 2020.pdf	ToddZ	Scordino Resume - July 2020.pdf, 441593	✓
	08/04/2020	Application Document	Schlenger resume.pdf	ToddZ	Schlenger resume.pdf, 441592	✓
	08/04/2020	Map: Site Location	MBER Planned Restoration map	ToddZ	restored Est.jpg, 441591	✓
	08/04/2020	Application Document	Meadowdale Beach Park Restoration Study ESRP Presentation.pd	ToddZ	Meadowdale Beach Park Restoration Study ESRP Presentation.pdf, 441590	✓
	08/04/2020	Application Document	FINAL_Technical_REPORT_2016-0198.pdf	ToddZ	FINAL_Technical_REPORT_2016-0198.pdf, 441588	✓
	08/04/2020	Application Document	Eric Grossman Cv	ToddZ	EEG_CV20200729.pdf, 441587	✓
	08/04/2020	Application Document	Juvenile Chinook Use of Non-natal streams	ToddZ	EB2752_Beamer-et-al_2013.pdf, 441586	✓
	08/04/2020	Application Document	Elisa Dawson CV	ToddZ	Dawson_Resume 2020.pdf, 441585	✓
	08/04/2020	Application Document	Ian Miller CV	ToddZ	CV_2020_2pager.pdf, 441584	✓
	07/23/2020	Applicant Resolution/Authorizations	PLACEHOLDER FOR APPLICATION AUTHORIZATION RESOLUTION	KayC	PLACEHOLDER FOR APPLICATION AUTHORIZATION RESOLUTION.docx, 439805	

Application Status

Application Due Date: null

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Status Name	Status Date	Submitted By	Submission Notes
Application Complete	09/03/2020	Kay Caromile	Thanks for completing your ESRP learning application. Reviewers meet in mid-September to score and rank projects. Please note that I will send you you a form to fill out to collect necessary information to complete cultural resources consultation for proposed ground disturbing activities.
Application Submitted	08/04/2020	Todd Zackey	
Preapplication	07/21/2020		

I certify that to the best of my knowledge, the information in this application is true and correct. Further, all application requirements due on the application due date have been fully completed to the best of my ability. I understand that if this application is found to be incomplete, it will be rejected by RCO. I understand that I may be required to submit additional documents before evaluation or approval of this project and I agree to provide them. (Todd Zackey, 08/04/2020)

Date of last change: 04/08/2022