

Project #13-1107, Willow Creek Daylighting Final Feasibility Study

Current Status: Application Submitted

Project Details

Primary Sponsor: City of Edmonds

Primary Contact: Jerry Shuster
(425) 771-0220
shuster@ci.edmonds.wa.us

Funding Program: Salmon State Projects

Lead Entity: WRIA 8 Lead Entity (King County)

Project Type: Planning

Project Description

Edmonds Marsh is a 32-acre remnant of a historical 100+-acre barrier estuary and marsh complex located a short distance from the downtown core in the suburban City of Edmonds. This project is intended to address the key salmon recovery issue of limited juvenile access to important, yet rare, nearshore rearing habitat. The goal of the project is to significantly improve the connection between Edmonds Marsh and Puget Sound to provide juvenile salmon access to this intact estuarine rearing habitat by daylighting the Willow Creek outlet of Edmonds Marsh to Puget Sound. The Early Feasibility Study (completed in May 2013 and funded by RCO) indicates this restoration action will provide improved access to 28 acres of estuarine marsh habitat suitable for juvenile Chinook salmon. The goal of the current project phase, Final Feasibility, is to address the remaining technical and social aspects of the project prior to entering into design work. These aspects include evaluating the marsh outlet configuration that would allow for juvenile salmon access into the marsh while still providing public park uses, evaluate the need for structural measures in the daylight channel to improve fish passage conditions and/or protect infrastructure, determine the need for a self-regulating tidegate to protect from coastal flooding, and assess the availability of the Unocal property for a daylighted channel and planted buffers.

Project Overall Metrics (Outcomes, Benefits)

Category / Work Type / Metric

Application Answer

Completion Date

Projected date of completion	3/31/2015
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Sponsor Match: Monetary Funding

Amount of other monetary funding	\$5,000.00
Project identifier for the other monetary funding	City of Edmonds- annual Capital Improvement budget
Source of other monetary funding	City of Edmonds

Sponsor Match: Donated Un-paid Labor (volunteers)

Value of Donated Unpaid Labor (Volunteers)	\$0.00
Source of Donated Un-paid labor contributions	n/a

Sponsor Match: Donated Paid Labor

Value of Donated Paid Labor	\$30,300.00
Source of Donated Paid Contributions	City of Edmonds staff

Sponsor Match: Other In-kind Contributions

Value of Other In-Kind Contributions	\$0.00
Source of Other In-Kind Contributions	n/a
Description of other In-Kind contributions	n/a

Project Funding

Funding Request		Funding %	Min Match Required	Sponsor Match Source	
Salmon State Projects	\$200,000	85.00 %		Appropriation \ Cash	\$5,000
Sponsor Match	\$35,300	15.00 %	15%	Donated Labor	\$30,300
Total Project Funding	\$235,300	100.00 %			

Project Cost Summary

PLANNING COSTS

		Project %	Admin/A&E %	Maximum for Selected Program
Planning	\$235,300			
A&E	\$0		0.00 %	\$70,590 (30%)
Subtotal	\$235,300	100.00 %		
Total Cost Estimate	\$235,300	100.00 %		

Worksites and Properties

County: Snohomish

Legislative Districts 2002: 21

Legislative Districts 2012: 21

Congressional Districts 2002: 01
Congressional Districts 2012: 07
Salmon Recovery Regions: Puget Sound
DNR Watershed Units (WAU): Puget
4th Field Catalog Units (HUC): KITSAP
WRIA: Cedar-Sammamish
Sections: 26
Township: T27NR03E
Coordinates: 47.80670644
-122.38856635

Worksite #1: Edmonds Marsh

Coordinates from Mapped Point:	Latitude: 47.80670644	Longitude: -122.38856635
Coordinates from Worksite	Latitude: 47.808551	Longitude: -122.385592
Directions:		

Worksite Description: Edmonds Marsh is a 32-acre remnant of a historical 100+-acre barrier estuary and marsh complex located a short distance from the downtown core in the suburban City of Edmonds. The current outlet of the marsh is via a combination of a narrow, steep ditch and a 1,600’ long system of buried pipes and vaults that empties into Puget Sound at approximately -8.0’ MLLW. A flap tide gate is present mid-way along the pipe outfall system. The current conditions of the site significantly limit fish access, and no evidence of juvenile rearing or adult coho spawning in recent years has been observed. The primary activity at this worksite is to daylight the Willow Creek outlet across Marina Beach located south of the marina breakwater to connect the marsh directly to Puget Sound. In addition, this project aims to address additional issues on and adjacent to the site, such as upstream fish passage barriers, potential stormwater volume and water quality, sedimentation and contamination of soils on adjacent properties, that could allow for expanding and enhancing juvenile salmon rearing and secondarily adult coho spawning, as well as enhance the existing cutthroat populations.

Site Access Directions: From I-5 (north or south bound) take exit 177 for Edmonds/Hwy 104, Kingston Ferry. Follow signs for WA-104 and merge onto Hwy 104/Edmonds Way heading west. Follow WA-104 into Edmonds following signs for the Kingston Ferry. Take a left on Dayton Ave. Take your second right into the Port of Edmonds Harbor Square Business Park (if you cross the RR tracks, you’ve gone too far). Follow this road into the Business Park and head south. Edmonds Marsh access is in the SW corner of the Harbor Square Business Park.

Worksite Address:

Planning Metrics (Outcomes, Benefits)

Category / Work Type / Metric	Application Answer	Work Type Costs
Targeted salmonid ESU/DPS	Chinook Salmon-Puget Sound ESU, Chum Salmon-Puget Sound/Strait of Georgia ESU, Coho Salmon-Puget Sound/Strait of Georgia ESU, Pink Salmon-Odd year ESU, Steelhead-Puget Sound DPS	
Targeted species (non-ESU species)	Cutthroat, Searun Cutthroat	
Area Encompassed (acres)		27.0
Miles of Stream Affected		0.33

Restoration Planning And Coordination Project

Conducting habitat restoration scoping and feasibility studies		
Description of the Plan	none	
Name of the Plan	none	
Total cost for Conducting habitat restoration scoping and feasibility studies		\$235,300.00

Planning Questions

- 1 of 3

Has the worksite been investigated for historical, archeological, or cultural resources? If yes, when did this occur and what agencies and tribes were consulted? Attach related documents (letters, surveys, agreements, etc.) to your project in PRISM.

No.
- 2 of 3

What is the current land use of the site, and its history?

The site is currently protected under the City of Edmonds Critical Areas Ordinance and soon to be protected under the City's Shoreline Master Program. The area is maintained as a park. Edmonds Marsh was historically a sand-spit, barrier (pocket) estuary marsh. The 1870s Government Land Office T-Sheet map shows the sand-spit barrier running north from Point Edmund, heading north towards Brackett’s Landing, which is north of the current Washington State ferry terminal. Historical conditions of the marsh have changed significantly since the marsh was originally mapped. Since that time, the railroad, sawmill industry, forestry, farming and city urbanization have changed the landscape of the marsh. From the 1890s until 1951, the Edmonds waterfront was dominated by heavy industrial operations including sawmills and shingle mills. The last shingle mill was closed in 1951. In the 1940s, the marsh area was farmed and used for cattle pasture. Sometime between 1944 and 1953, filling of the Harbor Square corner of Admiral Way started and by 1967 a fuel dock servicing the Union Oil Company was in place. In 1962, the Port of Edmonds completed construction of the Edmonds Marina. This included rerouting of the Willow Creek drainage south (in its current alignment) through a series of pipes underneath the BNSF railway and Admiral Way, into a 48-inch reinforced concrete pipe that flows south towards Edmonds Marina Beach Park.
- 3 of 3

Is the worksite(s) located within an existing park, wildlife refuge, natural area preserve, or other recreation or habitat site? If yes, name the area and specify if the land is owned by local, state or federal government.

Yes, Edmonds Marsh is owned by the City of Edmonds and is maintained as a park and a wildlife sanctuary.

Property for Edmonds Marsh Worksite #1: Edmonds Marsh City-owned Property

Activity: Planning

Landowner
City of Edmonds
121 5th Ave N
Edmonds, WA 98020

Landowner Type: Local Government

Control and Tenure
Instrument Type: Sponsor owned property
Purchase Type:
Term Length: Perpetuity
Expiration Date:
Note:

Overall Project Questions

- 1 of 5** **Do you need state SRFB dollars (not Federal) to match the requirements of any other federal funding you will be using to complete this project. If Yes, please state the amount of state dollars needed out of your total request.**
No, n/a
- 2 of 5** **Describe any ground disturbing work that will be necessary as part of the design process, such as geotech work. Include anticipated number of test sites, depth of disturbance, location, etc.**
Geotechnical studies will be performed as part of the current scope of work. The geotechnical studies will evaluate the preferred daylight channel alignment along Marina Beach Park, the BNSF bridge abutments and foundations, and the upstream Chevron/Unocal property. All locations around the project site referenced here are shown on the Conceptual Design Map provided in the attachments. We anticipate several test pits along the proposed daylight alignment will be included- exact number and depth are not known at this time. The geotechnical study will likely also assess embankment stability in the beach daylight areas along potential parking and wall zones- this piece will include two additional test borings in the Marina Beach Park area. This piece assumes two subsurface explorations at the pedestrian bridge, and one additional boring at the potential parking lot wall. The geotechnical study may also assess ditch and embankment seepage and stability conditions, review and assess other potential geologic hazards in the area including steep slopes, landslides, and potential seismic design related issues for the project, and assess the potential impacts from the daylight channel on the bluff to the east of the railroad. The final scope of the geotechnical study will be provided with a final scope of work for this project.
- 3 of 5** **Is the project on State Owned Aquatic Lands? Please contact the Washington State Department of Natural Resources to make a determination. (www.dnr.wa.gov/Publications/aqr_land_manager_map.pdf)**
No, It was determined that DNR does not own the tidelands adjacent to the project, however we anticipate that DNR will have an interest in this project, as eelgrass and kelps beds are located offshore. DNR has been contacted regarding this project and will be updated as we make progress towards restoration.
- 4 of 5** **For grants listed in the Sponsor Match Category section on the Funding Request tab, list the grant source(s), when the funds were (or will be) secured, and how long the grant funds will be available to this project.**
no other grant sources are being used to match this project.
- 5 of 5** **Describe the type and timing of donated labor (skilled and unskilled), donated equipment, and donated materials that will be used for this project, identified in the Sponsor Match Category section on the Funding Request tab.**
All donated labor listed in the Sponsor Match category is professional, skilled City of Edmonds staff time, which we anticipate will be donated to this project. Specific City staff, such as Parks Dept Director, Public Works Director, and stormwater engineer, will be involved throughout this project period. These staff will be conducting the bid selection process, managing the contract with the selected consulting firm, overseeing the progress of the project and assisting with reporting and invoicing.

Project Permits

Permit Type	Applied Date	Received Date	Expiration Date	Permit Number
Archeological & Cultural Resources (EO 05-05)				
Cultural Assessment [Section 106]				
Dredge/Fill Permit [Section 10/404 or 404]				
Hydraulics Project Approval [HPA]				
NEPA				
SEPA				
Shoreline Permit				
Water Quality Certification [Section 401]				

Project Attachments

Required Attachments	5 out of 5 done
Cost Estimate	<input checked="" type="checkbox"/>
Landowner acknowledgement form	<input checked="" type="checkbox"/>
Photo	<input checked="" type="checkbox"/>
Planning Area Map	<input checked="" type="checkbox"/>
Salmon Project Proposal	<input checked="" type="checkbox"/>

Photos

Attachment Type	Title	Attach Date	Worksite/Property
Assessment report	FINAL-Early_Feasibilty_Study_ENTIRE.pdf	06/07/2013	
Cost Estimate	CostEstimates-ProjectBudget_WillowCreek_2013_Final_Proposal.xlsx	08/12/2013	
Cost Estimate	CostEstimates-ProjectBudget_WillowCreek_2013_Pre_proposal.xlsx	04/29/2013	
Memos and correspondence	Response to Early Review Panel Comments.docx	06/24/2013	
Memos and correspondence	Site Visit, Willow Creek Daylighting Design 13-1107.pdf	05/09/2013	

Memos and correspondence	WRIA8_supplemental_projects_app_form_WillowCreekDaylightingM.docx	04/29/2013
Memos and correspondence	Sound Transit_Willow Creek City of Edmonds support letter.pdf	04/29/2013
Memos and correspondence	References.docx	04/29/2013
Photo	EdmondsHistoricT1389b_PlatMap.jpg	04/29/2013
Photo	EdmondsMarsh_1953aerial.jpg	04/29/2013
Photo	EdmondsMarsh_pic 3.jpg	04/29/2013
Photo	EdmondsMarsh_pic 2.jpg	04/29/2013
Photo	EdmondsMarsh_pic1.jpg	04/29/2013
Planning Area Map	21-1-12393-206-FIG.9_CONCEPT_DESIGN_PLAN.pdf	04/29/2013
Planning Area Map	21-1-12393-206-FIG.1_EXIST_CONDITIONS.pdf	04/29/2013
Salmon Project Proposal	WillowCreekDaylighting_Pre-proposal_REVISED.docx	08/12/2013
Salmon Project Proposal	WillowCreekDaylighting_Pre-proposal_ORIGINAL.doc	08/12/2013
Salmon Project Proposal	WillowCreekDaylighting_Final proposal.docx	08/12/2013

Application Status

Application Due Date: 08/16/2013

Status	Status Date	Name	Notes
Application Submitted	08/12/2013	Keeley O'Connell	
Preapplication	03/19/2013		

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. (Keeley O'Connell, 08/12/2013)

Date of last change: 08/12/2013