

Harper Estuary Restoration Project



Harper Community Gathering

June 17, 2015 6:00 – 7:30 pm

Colby United Methodist Church



Harper Estuary Project Background

- ❖ Kitsap County priority for over a decade
- ❖ Department of Ecology selected Harper Estuary in 2013 to receive Asarco funds for habitat restoration.
- ❖ Specific restoration actions identified in legislation included:
 - “Restore tidal inundation by either removing the roads completely or constructing a new bridge to span the estuary opening”
 - “Removing bulkheads, debris and fill”
 - “Planting native vegetation to re-establish the estuary’s habitats”



What is the Harper Estuary Restoration Project?



Restore habitat processes in Harper Estuary that have been impacted by road development, fill and historic uses of the estuary and shoreline.



Harper Estuary Restoration Project

WDFW update



Archaeological & cultural resource assessment



Shovel probes and excavated test pits throughout project site

Marine sediments





Georeferenced United States Coast & Geodetic Survey Topographic Sheet T-1452a, Puget Sound, Restoration Point to Alki Point to Robinsons Point, Washington Territory, 1867-1877. NOAA Office of Coast Survey Historical Map and Chart Collection.





- Legend**
- Sample Point Location
 - Ordinary High Watermark
 - Delineated Wetland Boundary
 - Estimated Wetland Boundary
 - ▨ Wetland Area

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for informational purposes. It is intended to assist in showing features discussed in an attached document. Field signs, etc. cannot guarantee the accuracy and content of this drawing. The reader should consult the field signs, etc. and not rely on the official record of this communication.

Date Review: Aerial Image from 2006 Data Update
 Project No: 1303 Stand-Free Washington State FWS 4001 Final

N
 W E
 S

120 0 120
 Feet

Wetland Delineation

Harper Estuary Restoration Project
 Kitsap County, Washington

GEOENGINEERS **Figure 2**

Wetland delineation

- ❖ 4 wetlands
- ❖ 2 streams



Cultural Resources

{ Sharon Boswell
Senior Historian
SWCA Environmental Consultants



Phase 2

Olympiad Drive Culvert Replacement



Tina Nelson

KCDPW, Senior Program Manager



Tasks Completed - Progress

- ❖ **Geotechnical Investigation**
 - ❖ **Subsurface Explorations – Drillings**
 - ❖ Bridge foundations, retaining walls, and roadway design
- ❖ **Stream Hydraulic Analysis**
 - ❖ **Field observations**
 - ❖ Establish flow conditions (baseline and predicted for alternatives)
- ❖ **Coastal Analysis**
 - ❖ **Field observations of stream and estuary**
 - ❖ **Collection of soil samples**
 - ❖ Recommendation for estuary rehabilitation and enhancement
- ❖ **Survey (topographical) Cross Sections in the Estuary**



Harper Boat Landing



Kathy Peters
Natural Resources Coordinator
Kitsap County, DCD



Current Conditions - Harper boat landing

- Unimproved site
- Limited parking
- No facilities; no amenities



Boat Landing Planning Factors

(Based on community feedback)

- “Provide an estuary friendly boat launch”
- Retain current capability through design phase
- Minimize restricted boat landing access during construction
- Provide new facility to support hand launch and small, trailered boats (single axle)
- Provide adequate space to off-load and load outside the roadway shoulders
- Provide safe access to improved parking area
- Ensure safety of traveling public, pedestrians and bicycles along Southworth and Olympiad Drive



Southworth Drive
landing site across
from Harper Park



Parking Area



Questions & Answers

{ Thank you for joining us tonight...

