Peter Best

From: Daleydesign@seanet.com
Sent: Saturday, March 14, 2020 11:18 AM

To: David Greetham Cc: 'Cheryl Coon'

Subject: FW: shoreline permit PLN5028033DP

Attachments: Poster 42 (Final).pdf

Dave:

Please include this document with my previous submittal.

Thanks for your help

Wayne Daley

An Update on the Integration of City of Bainbridge Island/Suquamish Tribal 2002 - 2008 Beach Seining Results into Shoreline Management & Salmon Recovery Efforts



Introduction: Priget Sound estuarine and nearshore habi

Paul Dorn , Suguamish Tribe Colin Spikes, City of Bainbridge Island Peter Namtvedt Best, City of Bainbridge Island



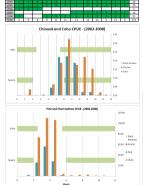


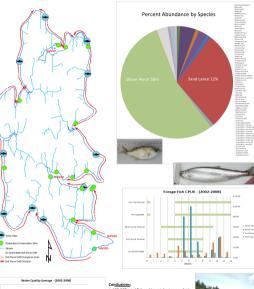
tats support a rich assemblage of numerous vertebrates, invertebrates, and marine algae. This habitat is important to the recovery of listed Puget Sound salmon populations which depend, in part, upon the quality of these marine habitats. The City of Bainbridge Island (COBI), Suquamish Tribe (Tribe), and Washington Department of Fish and Wildlife (WDFW) have partnered since 2002 on a beach seining study of fish populations utilizing most shorelines of Bainbridge Island, WA. This poster presents some inform tion collected during the study. Additional analysis and information will be provided in a forthcoming 2009 paper.

Objectives: 1) identify the distribution, abundance, origin (by coded wire tag recovery), and timing of both wild and hatchery salmon, (2) compare the con dition factors of hatchery to wild Chinook juveniles, (3) identify forage fish use of the nearshore, (4) document all other fish and most of the larger invertebrate species observed, and (5) inform and prioritize shoreline management and salmon recovery efforts

Methods: • Puget Sound Beach Seine Protocol

- Bi-Weekly to monthly sampling
- · Sampling sites determined by: Geographic locatio - Coastal features & habitate
- Access · 4 core sites & 10 rotating sites
- Rotating sites sampled less frequently than core sites Crews: volunteers w/ biologist on board
- . Data storage: Access database/ArcGIS geo





139,367 total fish and invertebrates caught in

595 sets from 2002 through 2008 · Abundance of ESA listed Chingok is as geographically dependent based on CWT recoveries (predominantly from South and Central Sound) · Observed condition factors (hatchery vs "wild")



- Significantly different during April & May

- Similar from June through Sentember · Regulatory work windows do not adequately match observed period of abundance of

Chinook, coho and forage fish Observed DO lowest in October, observed temperatures highest in July and August.

and salinity relatively constant throughout the year . Beach seine data combined with Bainbridge Island's Nearshore Assessment Model