Western Port Angeles Harbor

SHARP Report — Part 1 of 2

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• SHARP reSHARP results	v2024.04.29	Ecology Info	
• SHARP rating	High	ERTS	None
• SHARP date	09/26/2025	CSID	11907
• EJFlagged?	⃠ - No Override	FSID	18898
• LD confidence level	medium	VCP	None
• Cleanup milestone	cleanup action plan	UST ID	None
• SHARPster	Connie Groven	LUST ID	None

♦ Historic SHARP first SHARP results	♦ SHARP Tool version
♦ SHARP rating	high
♦ SHARP date	20240112
♦ EJFlagged?	No EJFlag - No Override
♦ LD confidence level	low
♦ Cleanup milestone	feasibility study
♦ First SHARPster	Jeff Wirtz, Updated to new SHARP version by Meredeth Bee

SHARP Media	Scores	Confidence	Additional Factors	
Indoor air	D4	high	multiple chemical types	✔
Groundwater	D4	high	risk to off-site people	⃠
Surface water	**A2**	high	climate change impacts	✔
Sediment	**A1**	high	plant/animal tissue data	✔
Soil	D4	high		

Location and land use info

Western Port Angeles Harbor, Port Angeles, Clallam County, 98363

Primary parcel	None
Land use	industrial
Responsible unit	SWRO

Sources reviewed

May 2025 Cleanup Action Plan, Ecology

Oct 2020 RI/FS, Floyd/Snider, Anchor QEA, Exponent, Intergral

Primary census tract	Associated census tracts
53009000700	53009000800, 53009000900, 53009001000

Local demographics comments

A zero was applied to all EJscreen parameters because the EJscreen website was not available at the time of rating

Source/source area description

Port Angeles Harbor (Harbor) is located on the northern coast of Washington's Olympic Peninsula and along the southern shoreline of the Strait of Juan de Fuca in Port Angeles, Washington.This site is a "sediment" only site. Potentially associated upland soil and groundwater sources will be investigated and remediated separately.Typical historical industries that may have contributed to the sediment contamination included sawmills, plywood manufacturing, pulp and paper production, other wood processing-related operations, commercial fishing and fish packing, bulk fuel facilities, boat building and refurbishing, marinas, and marine shipping and transport. The RI/FS describes the western Harbor sediment cleanup unit where sediment concentrations exceed sediment cleanup levels. The sediment cleanup unit covers 1100 acres in the western portion of the harbor surrounded by industrial and city properties.

Soil comments

The entire site consists of sediment cleanup units and no upland soil units.

Groundwater comments

The entire site consists of sediment cleanup units and no upland units.

Surface water comments

PHS Report shows Coho as a candidate for federal status and Pinto Abalone potential habitat with a state status of endangered.

Sediment comments

NOAA National NMFS ESA Critical Habitat Mapper shows Orcinus Orca (Endangered) critical habitat in the Straits of Juan De Fuca. Areas shallower than 6.1 meter isobath (relative to extrememem high water) are not designated as critical habitat, but deeper parts of the harbor would be included.

Indoor air comments

no comments

Additional factors comments

IHSs found in sediment include arsenic, cadmium, mercury, cPAH TEQ, and Total TEQ. The site is in Port Angeles Harbor and subject to sea level rise.

Site history

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The Harbor is bounded to the west and south by City property and to the north by Ediz Hook, an approximate 3-mile-long sand spit that extends eastward from the Harbor's west end. Ediz Hook protects the Harbor from the open-ocean waves within the Strait of Juan de Fuca. The Harbor contains approximately 26 miles of marine shoreline with water depths as great as 170 feet near Ediz Hook (Ecology 2012). An approximate 25-acre lagoon is located at the far western end of the Harbor and is connected to the Harbor by a channel.

The Harbor's development began in the late 1800s with the growth of the City of Port Angeles (City). Maritime operations and industrial and commercial businesses that provide living wage jobs are still active and ongoing at and around the western Harbor. The Harbor has been identified as a priority environmental cleanup and restoration project by the Washington State Department of Ecology.

Hazardous substances present in the western Harbor have the potential to pose risks to both human health and the environment. Risks to human health may occur from consumption of crab, shrimp, clams, and other species. Additionally, risks may be posed to aquatic life such as benthic invertebrates living within Harbor sediments.

For each exposure pathway, hazardous substances were identified that drive potential human health or environmental risks. Potential human health risks are associated with bioaccumulation of metals (cadmium and mercury), cPAH TEQ, and Total TEQ. Potential environmental risks are associated with metals (cadmium, mercury, and zinc). Cleanup standards for these hazardous substances were used to focus the development and evaluation of remedial alternatives in the fesibility study.

The cleanup action plan outlines the selected cleanup for the sediment cleanup unit which is divided into three cleanup areas referred to a Sediment Management Areas (SMAs). The comfined cleanup remedy includes:

- intertidal excavation (SMA 1 and 2) to remove contaminated sediment and provide space for capping deeper contaminated sediment.
- Excavation upland fill soils used to create the lagoon causeway and additional shoreline to construct aquatic habitat, offsetting the loss of aquatic habitat (SMA 2).
- intertidal excavation/subtidal dredging to remove contaminated sediment in areas suitable for enhanced monitored natural recovery following removal (SMA 2).
- engineered caps (SMAs 1 and 2) to contain contaminated sediment.
- 180 acres of enhanced monitored natural recovery (SMAs 2 and 3) to enhance the rate of natural recovery (reduction in contaminant concentrations in surface and near surface sediments via input of sediments from creeks discharging to the Harbor).
- 950 acres of monitored natural recovery.

Overflow - Site contamination and cleanup history

No overflow

Western Port Angeles Harbor

11907 Western Port Angeles Harbor 20250926
reSHARP
SHARP rating — High

SHARP Report — Part 2 of 2

Conceptual site model
09/26/2025

SHARP