



BP Harbor Island

SHARP Report — Part 1 of 2

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• SHARP first assessment		v2024.04.18	Ecology Info	
• SHARP rating	Low		ERTS	na
• SHARP date	4/19/2024		CSID	4426
• EJFlagged?	✓ – No Override		FSID	2024
• LD confidence level	low		VCP	na
• Cleanup milestone	cleanup implementation		UST ID	8803
• Assessor	Vance Atkins		LUST ID	na

This section is blank if this is the first SHARP

Assessment Media	Scores	Confidence	Additional Factors
Indoor air	D4	high	multiple chemical types <input type="checkbox"/>
Groundwater	C4	high	risk to off-site people <input type="checkbox"/>
Surface water	D4	high	climate change impacts <input checked="" type="checkbox"/>
Sediment	D4	high	plant/animal tissue data <input type="checkbox"/>
Soil	C4	high	

Location and land use info	
1652 SW Lander St, Seattle, King County, 98134	
Parcel(s)	7666702900, 7666701680
Responsible unit	NWRO
Land use	industrial

Sources reviewed
2024, 2023 Annual Report, Techsolve
2022, Hydrologic Evaluation, Techsolve



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Primary census tract	Associated census tracts
53033009900	SHARP it

Local demographics comments	Go to top
no comments	

Source/source area description	Go to top
<p>Site is located on Harbor Island, an artificial island created in part of dredged materials from the Duwamish River. The island is primarily industrial, with fuel storage and shipping as two primary uses. The island is currently about 95 percent covered with industrial buildings, paved roads, and other impervious surfaces. The island's pervious surfaces consist primarily of land located adjacent to aboveground storage tank and railroad tracks. Harbor Island was designated a Superfund Site in 1983 due to hazardous materials in soil, primarily lead. The Tank farm OU includes three bulk storage facilities and is administered by the Department of Ecology. The Site has been developed and used for bulk fuel storage and distribution and consists of two tank farms, a rail spur, and a fueling rack area along the west Harbor Island shoreline. Plant 1 is located along the Harbor Island West Waterway. Plant 2 is an upland site, located approximately 800 feet east of Plant 1 near the north center of Harbor Island. Releases to soil and groundwater from bulk fuel storage were identified in the 1990s, likely from spills at the facility.</p>	

Soil comments	Go to top
<p>Residual contamination of soils in inaccessible areas. Site is generally covered with impermeable surface, except rail spurs and areas within tank farm containment. Site access is fenced/gated with general access limited to employees and bulk fuel transport trucks.</p>	



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Groundwater comments

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LNAPL has been largely removed, although occasional sheens are observed in warehouse area monitoring wells. Total fluids recovery system operation is ongoing in warehouse area. The pumped water is treated and discharged to sewer under permit. Bulkheads and a seawall along the west Site boundary effectively block shallow groundwater migration to adjacent surface water. A downward gradient between the shallow fill groundwater and deeper groundwater in native sediments has been documented (2022).

Surface water comments

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GW to SW interaction is generally limited by the bulkheads and seawall along the west side of the Site.

Sediment comments

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no comments

Indoor air comments

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no comments

Additional factors comments

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Harbor Island elevation is generally 10-15 feet above MSL and susceptible to sea level rise. Recent storm surge/king tide events at the Site have been observed to elevate shallow groundwater to ground surface.



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Site contamination and cleanup history

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Site entered AO in 1992 and Consent Decree in 2000. RI/FS in 1997 indicated contamination primarily weathered diesel, with lesser amounts of weathered gasoline and oil. LNAPL was located under the warehouse on the western side of the Site. Remedial actions consisted of: Pumo and treat of groundwater associated with LNAPL plume; excavation of accessible petroleum contaminated soil hot spots; natural attenuation of inaccessible soils; AS/SVE to treat inaccessible soils in Plant 1 tank farm area; GW monitoring, and deed restrictions/institutional controls. Most recent groundwater monitoring indicated that LNAPL has not been observed at Site since 2008, although total fluids recovery system remains in operation for groundwater flow control and continued treatment of GW under the warehouse area. Confirmation wells completed in native sediment underlying fill soils have generally been in compliance. Shallow wells completed in Plant 1 tank farm area have exceedances of gasoline-range THP. Plant 2 monitoring and remediation activities are largely complete.



Overflow - Site contamination and cleanup history

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No overflow