



**Kinder Morgan Liquids Terminals LLC**

SHARP Report — Part 1 of 2

[Go to cleanup history](#)

• SHARP first assessment		v2024.04.03	Ecology Info	
• SHARP rating	Low		ERTS	na
• SHARP date	4/15/2024		CSID	6811
• EJFlagged?	✓ – No Override		FSID	88394523
• LD confidence level	low		VCP	na
• Cleanup milestone	cleanup implementation		UST ID	2960
• 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	C3	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	C2	high	

Location and land use info	
2720 13th Ave SW, Seattle, King County, 98134	
Parcel(s)	7666701710,7666701880
Responsible unit	NWRO
Land use	Industrial

Sources reviewed
2023, Annual GWM report, Arcadis
2011, Sulfate Allocation Remediation Workplan, Antea Group



## Kinder Morgan Liquids Terminals LLC

Primary census tract	Associated census tracts
53033009900	SHARP it

Local demographics comments	<a href="#">Go to top</a>
no comments	

Source/source area description	<a href="#">Go to top</a>
<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 since the 1944. Releases to soil and groundwater from bulk fuel storage were identified in the 1990s, likely from spills at the facility.</p>	

Soil comments	<a href="#">Go to top</a>
<p>Residual contamination of soils in inaccessible areas. Site is generally covered with impermeable surface, except 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

[Go to top](#)

DNAPL periodically observed in 2 wells in 'A' Yard, passive recovery via sorbent socks. Areas of groundwater exceeding site specific cleanup levels stable to decreasing.

### Surface water comments

[Go to top](#)

no comments

### Sediment comments

[Go to top](#)

no comments

### Indoor air comments

[Go to top](#)

no comments

### Additional factors comments

[Go to top](#)

Harbor Island elevation is generally 10-15 feet above MSL and susceptible to sea level rise.



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### Site contamination and cleanup history

[Go to top](#)

Site contaminants include gasoline-range hydrocarbons, benzene, and lead. Lead contamination may be attributed to Harbor Island area-wide lead contamination in soils. Enhanced bioremediation via sulfate application has been conducted periodically since pilot tests in 2011. Sulfate (in the form of magnesium sulfate) is applied onto areas of hydrocarbon-impacted soil and groundwater. The sulfate is intended to enhance bioremediation by sulfate-reducing bacteria. The initial sulfate application took place in 2013. Magnesium sulfate was applied via a slurry into distribution trenches. More recently, the sulfate has been land applied and then dissolved to Site groundwater through irrigation and precipitation. Magnesium sulfate is applied on an approximately annual basis to maintain sulfate concentrations in Site groundwater. The most recent application took place in October 2023, where 15,000 pounds of magnesium sulfate (as Epsom salt) were applied over an 18,000 square foot area within the tank farm B, C, and D yards. Two wells have residual DNAPL, but no accumulations beyond a sheen were observed in 2024.



**Overflow - Site contamination and cleanup history**

[Go to top](#)

No overflow



Assessment scores by environmental medium

