

South Park Landfill

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SHARP Report — Part 1 of 2

• SHARP first assessment			This section is blank if this is a SHARP first assessment		
• SHARP Tool Version	v2024.04.01				
• SHARP rating	Low				
• SHARP date	11/7/2024				
• EJFlagged?	✓ – No Override				
• LD data confidence level	low				
• Cleanup milestone	cleanup action plan				
• Assessor	Ryan Gardiner				
Assessment Media	Scores	Conf	Additional Factors		Ecology Info
Indoor air	D4	high	multiple chemical types	✓	ERTS 555732
Groundwater	C2	high	risk to off-site people	⊘	CSID 1324
Surface water	D4	high	climate change impacts	✓	FSID 2180
Sediment	D4	high	plant/animal tissue data	⊘	VCP NW0359
Soil	D4	high			UST ID none LUST ID none
Location and Land Use Info					
8200 2nd Ave S, Seattle , King County, 98108			Responsible unit – NWRO		
Parcel 3224049005			Land use – Industrial		
Source/source area description					
<p>The South Park Landfill Site (Site) includes property that is a closed solid waste landfill in the South Park neighborhood of Seattle, Washington. It is located in the Lower Duwamish Valley near the western valley wall between State Routes 509 and 99. The landfill operated from the 1930s until 1966 when it was closed. By 1970, the South Recycling and Disposal Station, Kenyon Industrial Park, and several other facilities had been built on top of the landfill portion of the Site and were operating industrial facilities.</p>					
Local demographics comments					
Primary Census Tract: 53033011200					
Associated Census Tracts:					
<p>The hazardous substances from this site remained on the census tract where the release occurred.</p>					
Soil comments					
<p>Consistent with standard protocols at solid waste landfills, the heterogeneous contents of the landfill (waste, ash, and soil) were not characterized in detail. The contents are expected to contain hazardous substances and to be contained. Contamination from subsequent uses of the Landfill, such as an auto wrecking yard, would also be contained in areas of overlap. The presence of the Landfill requires the placement of an environmental covenant on the property stating that</p>					
Groundwater comments					
<p>Currently only vinyl chloride, iron, and manganese exceed their CULs at the CPOC. The chemical precursor of vinyl chloride, cis-1,2-DCE, will be monitored in all CPOC wells to aid in understanding future vinyl chloride concentrations, but has been in compliance for years and is not a COC.</p>					

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SHARP Report — Part 1 of 2

Surface water comments
no comments
Sediment comments
no comments
Indoor air comments
Indoor air in buildings that are closest to the landfill gas probes that had the greatest methane concentrations was monitored several times during the course of the RI, and no landfill gas intrusion was found.
Additional factors comments
Onsite contaminants of concern include: vinyl chloride, iron, and manganese exceed their CULs at the CPOC. The site is near the Lower Duwamish Waterway and subject to sea level rise.



SHARP Report — Part 1 of 2

Site contamination and cleanup history

[Click to top](#)

The waste/fill at the Landfill is presumed to be contaminated with one or more hazardous substances. Due to the heterogeneous nature of waste at municipal landfills and its planned containment within a closed landfill, the landfill contents were not fully characterized for specific hazardous substances during the RI, although leachate and groundwater were. Soil used as daily cover during operations and as fill during closure and post-closure activities is also considered part of the landfill contents and was not fully characterized. As with the refuse, the soil fill is presumed to contain one or more hazardous substances. As seen in the data presented in subsequent sections, the most likely hazardous substances to be present in the contained waste at the Landfill (including soil cover and contaminated soil associated with auto salvage operations that occurred at the property after the Landfill was closed and before it was redeveloped) include the following:

- Diesel-range and oil-range total petroleum hydrocarbons (TPH), including constituent PAHs
- SVOCs, including phthalates from plastics and carcinogenic PAHs (cPAHs) from combustion
- TCE and BTEX at low concentrations
- Metals

South Park Landfill

11/07/2024

SHARP First Assessment

Low SHARP Rating

SHARP Report — Part 2 of 2

Conceptual site model



Assessment scores by environmental medium

