

GATX Tank Storage Harbor Island (formerly Shell Tank Farm)



Engineering design report available for public review & comment

The Washington State Department of Ecology (Ecology) has prepared this fact sheet pursuant to the Model Toxics Control Act Chapter 70.105D to provide you with information about the Engineering Design report that has been prepared by Ecology and the GATX Terminal Corporation for the GATX Tank Storage Harbor Island site. You are welcome and encouraged to comment on the Engineering Design report through June 1, 2001.

The cleanup process

In the winter of 1999, Ecology approved the site's Consent Decree and Cleanup Action Plan (after completion of a 30-day public comment period). These documents set the wheels in motion for the Engineering Design Report.

Specifically, the **Consent Decree** is the legal agreement between GATX Terminal Corporation and Ecology that ensures the cleanup will meet the requirements of the Model Toxics Control Act (the state's cleanup law).

The **Cleanup Action Plan**, which was based on information provided in the 1997 Remedial Investigation/Feasibility Study, describes the cleanup chosen for the site.

The **Engineering Design report** describes the engineering concepts and design criteria for the cleanup that was set forth in the Cleanup Action Plan.

Site background

The GATX Tank Storage Harbor Island site is located at 2720 13th Avenue SW on the north-central section of Harbor Island in Seattle, King County. The site is approximately 14 acres in size.

GATX Tank Storage Harbor Island was owned and operated by Shell for 50 years – until purchased in 1995 by the GATX Terminal Corporation – and was acquired in February 2001 by Kinder Morgan Operating LP (Kinder Morgan).

Harbor Island itself is a Superfund site and is on the Environmental Protection Agency's National Priorities List. The GATX cleanup, although located on Harbor Island, was delegated to the state and was ranked under the state process. The site is currently ranked a "4" on the state's Hazardous Sites List (a rank of "1" is the highest assessed risk and "5" is the lowest).

Site contamination

GATX Tank Storage Harbor Island's soil and ground water are contaminated with:

- Petroleum product - the result of leaks and spills from underground and above ground storage tanks, drums and drum handling, and oil/water separators.
- Arsenic & lead – the result of air emissions from a smelter that once operated on Harbor Island.

May/June 2001

Public Comment Period
for Engineering Design
report

May 1 through June 1, 2001

Information Repositories

Seattle Public Library
Downtown Branch
1000 4th Avenue SW
Seattle WA
(206) 386-4636

West Seattle Library
2306 42nd Avenue SW
Seattle WA
(206) 684-7444

Department of Ecology
Northwest Regional Office
3190 160th Ave. SE
Bellevue WA 98008-5452
File Room: (425) 649-7190

[http://www.ecy.wa.gov/programs/
tcp/sites/sites.html](http://www.ecy.wa.gov/programs/tcp/sites/sites.html)

Send comments to:

Nnamdi Madakor, Site Manager
@ the Ecology address listed
above
(425) 649-7112
nmad461@ecy.wa.gov

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The cleanup

Once the Engineering Design report is finalized, the cleanup will occur and will consist of the following:

Ground water cleanup

Contaminated ground water and floating product will be extracted, treated, disposed, and monitored (a long-term monitoring system will be implemented).

One of the treatment methods used will be *partial penetrating barrier (PPB)* and *dual-phase extraction (DPE)*. DPE uses pumps to remove various combinations of sub-surface contaminated ground water and separate-phase petroleum product that collects behind the PPB. Extracted liquids are then treated and collected for disposal or recycled.

Another treatment method used will be *air sparging* – which means to pump air into the ground water to help flush (bubble) the contaminants up into the soil.

Soil cleanup

Contaminated soil will be treated using soil vapor extraction, soil flushing, excavation, and bioremediation.

Soil vapor extraction involves applying a vacuum through a system of underground wells and pulling the contaminants to the surface as vapor or gas.

Soil flushing involves flooding the contaminated soil with a solution that moves the contaminants to an area where they are removed.

Soil excavation of accessible metals and petroleum hot spots will be done to the extent technically practicable, without undermining the above storage tanks on the property.

Bioremediation is a process where naturally occurring microorganisms (such as yeast or bacteria) break down hazardous substances into less toxic or non-toxic substances.

Finally, a restrictive covenant will be placed on the property deed so that the property may be used for industrial use only.

The Engineering Design report

As mentioned earlier, the Engineering Design report describes the engineering concepts and design criteria specifications for the cleanup action.

The following is a summarized list of what's contained in the GATX Tank Storage Harbor Island Engineering Design report.

1. Additional site data collected since the Remedial Investigation/Feasibility Study was completed in 1997.
2. The construction, excavation, and operation and maintenance schedule for the cleanup actions at the site.
3. A summary of the contents of the final construction plans and specifications.

Your comments

Should you have comments after reading the Remedial Design report, please send them to Ecology's Site Manager, Nnamdi Madakor, Department of Ecology, 3190 160th Ave SE, Bellevue WA 98008-5452, e-mail nmad461@ecy.wa.gov.

After the public comment period, Ecology will review the comments received and will make recommendations for any suggested changes to the Engineering Design report. If no significant changes are made, the Remedial Design report is considered final and construction work will begin.

If significant changes were made to the Engineering Design report, a second public comment period would be held.

The (+) indicates the site location.

