

## What is Terminal 117?

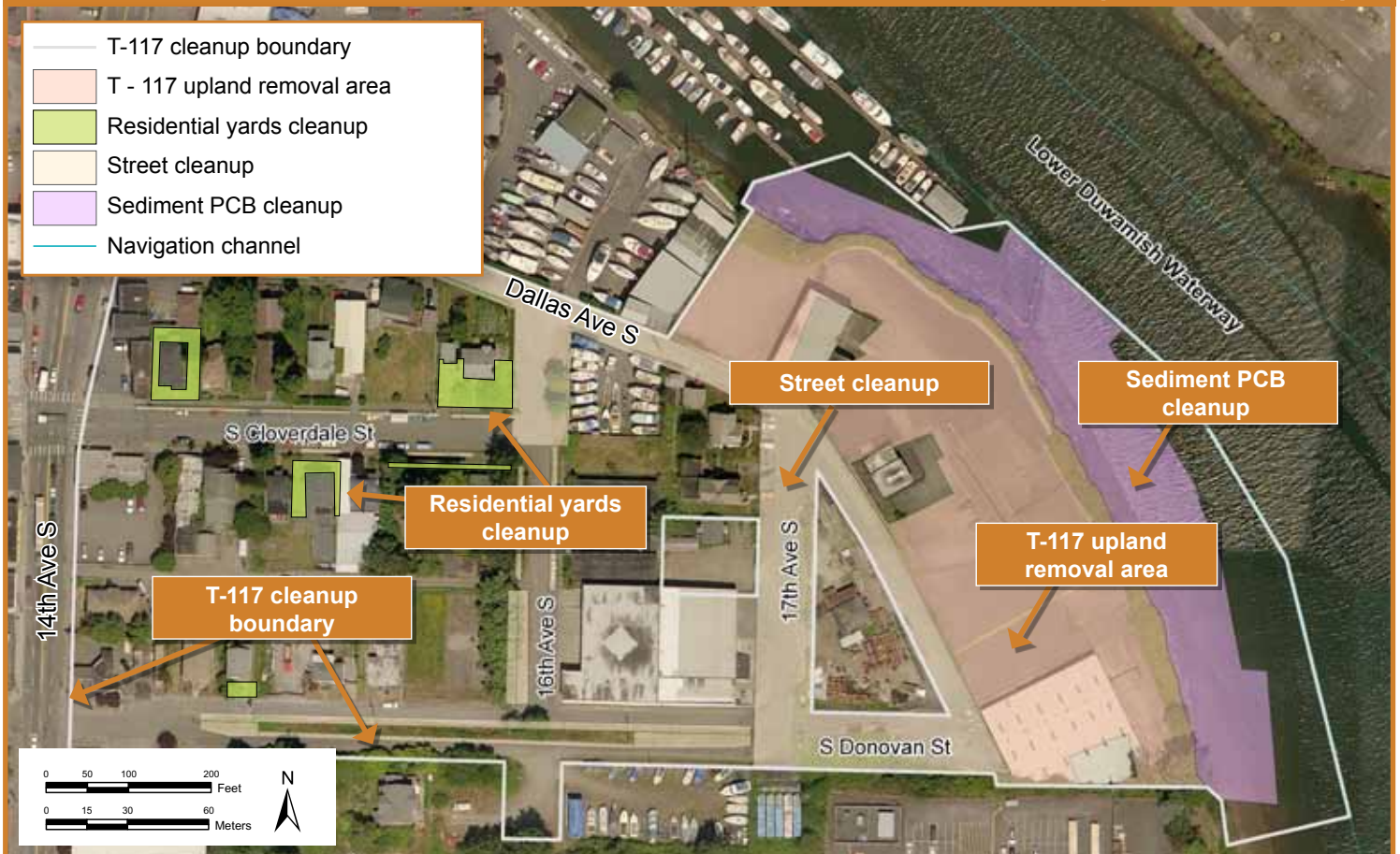
Terminal 117 (T-117) is a contaminated site located on the west bank of the Duwamish River in Seattle's South Park neighborhood. The cleanup area is located between 14th Avenue South, Dallas Avenue South and South Donovan Street. Past asphalt manufacturing activities by Duwamish Manufacturing and then by Malarkey Asphalt left behind oil and PCB (polychlorinated biphenyls) contamination in the river sediments (mud), on the bank, and on some of the land next to the river (uplands, streets, and yards). The contamination needs to be cleaned up because it is a threat to human health and the health of the river environment.

## What is the cleanup plan?

The proposed cleanup plan is called an Engineering Evaluation and Cost Analysis (EE/CA). The cleanup plan was written to identify and select a cleanup strategy for T-117. Historical information was used along with soil, groundwater and sediment samples to identify the contaminants. This information was used to develop the cleanup plan. After the public review, EPA will decide on a final cleanup plan later in an Action Memorandum, which will be based on the findings in the EE/CA.

EPA is directing and overseeing this cleanup. The Port of Seattle (Port) and the Seattle City Light (City) must complete the cleanup under an EPA Superfund order.

## Terminal 117 Proposed Cleanup



\* Final removal areas, including residential yards and street removal areas, will be determined in the EPA Action Memorandum.

## What are the cleanup goals and objectives?

The cleanup will remove enough soil and sediment from T-117 to reduce contaminants to levels that will protect the river environment and reduce health risks to people. The site will be clean enough for many possible future uses, including business and residential development, river habitat, and public access.

The soil and sediment contamination will be cleaned up to levels that will:

- Reduce health risks to people who eat Lower Duwamish seafood by reducing contaminants in sediment and surface water to protective levels.

- Reduce health risks to people who have direct contact with sediments by reducing contaminants in sediment to protective levels.
- Reduce risks to the insects, worms, and shellfish that live in the river by reducing sediment contamination to Washington State sediment standards.
- Reduce risks to crabs, fish, birds, and mammals that live in the river from exposure to contaminants by reducing contaminants in sediment and surface water to protective levels.

## What cleanup alternatives does the EE/CA evaluate?

EPA evaluated different cleanup methods to remove the PCB contamination, including excavating soil, dredging the sediment, covering the contaminated sediment with clean material (capping) to keep the contamination from spreading, or treating the soil and sediment. The cleanup methods proposed in this plan were selected because they are proven to work and can be readily used. EPA is proposing two cleanup alternatives that can meet the cleanup goals.

Alternative 1	Alternative 2
<p>This alternative would remove PCB-contaminated soil from T-117 and adjacent streets and from some of the residential yards. The cleanup would:</p> <ul style="list-style-type: none"><li>• Remove the soils that exceed the PCB cleanup level, up to 15 feet deep.</li><li>• Remove most of the contaminated river sediment near T-117 that exceeds the PCB cleanup level.</li><li>• Leave in place and cap the rest of the sediment that exceeds the PCB cleanup level.</li></ul>	<p>Alternative 2 is the same as Alternative 1 for removing soils from the uplands, streets and yards. But Alternative 2 would:</p> <ul style="list-style-type: none"><li>• Remove all sediment that exceeds the PCB cleanup level, and backfill with clean materials. No sediment would be left behind that exceeds the PCB cleanup level.</li></ul>

Note: Some of the streets and yards have soils that are also contaminated with dioxin/furans. The streets and yards with PCBs will be cleaned up. Removing soils with PCBs will also remove the dioxins/furans from these yards. However, the yards with dioxin/furans that do not have PCBs will not be cleaned up as part of the T-117 removal action.

# What is the recommended cleanup alternative for T-117?

EPA recommends cleanup Alternative 2 for T-117. Alternative 2 will be more effective and permanent than Alternative 1. The advantages of Alternative 2 are summarized in the table below:

Advantages / Disadvantages of Alternatives 1 and 2		
Cleanup Element	Alternative 1	Alternative 2
<b>Water quality</b>	Less short-term water pollution because there is less dredging	More short-term water pollution because there is more dredging. This can be mitigated through project design and controls
<b>Long term effectiveness</b>	Less effective long-term because contaminated sediment is left in place and must be monitored to make sure the cap is protective	More effective long-term and more permanent because most of the contamination is removed
<b>Options for site use after cleanup</b>	Fewer options for site use after cleanup because site use restrictions will be required	More options for site use after cleanup (i.e. habitat restoration, public access, etc.)
<b>Cost</b>	Costs less, but requires monitoring long-term	Costs more but no long-term monitoring and performance reviews will be required after the cleanup is finished

## Comparison of Alternatives 1 and 2

	Alternative 1	Alternative 2
<b>Reduces health risks and protects the environment</b>	✓	✓
<b>Achieves cleanup goals and meets cleanup requirements</b>	✓	✓
<b>Volume of contaminated material removed and taken away</b>		
Soil (cubic yards)	47,000	47,000
Sediment (cubic yards)	6,500	14,000
<b>Containment method (volume of material brought in)</b>	Sediment capping	Backfilling
Material required (cubic yards)	8,000	10,000
<b>Cost</b>	\$31,700,000	\$33,200,000



# How to comment on the cleanup plan:

- **Attend the public hearing:\***

June 17, 2010  
South Park Community Center  
8319 8th Ave S

- Open House: 5:30 pm
- Presentations: 6:00 pm
- Public Hearing: 7:00 pm

- **Read the T117 cleanup plan at:**

www.T117.com or South Park Library

- **Send your comments to EPA by July 7, 2010:**

E-mail: [r10terminal117@epa.gov](mailto:r10terminal117@epa.gov)

Mail: Terminal 117 Comments, U.S. EPA,  
1200 6th Ave, Suite 900, ECL-111,  
Seattle WA 98101

\* Translators and childcare will be provided at the public hearing.

## Cómo hacer comentarios sobre el Plan de Limpieza

- **Asista a la audiencia pública:\***

17 de junio de 2010  
South Park Community Center  
8319 8th Ave S

- Puertas Abiertas: 5:30 pm
- Presentaciones: 6:00 pm
- Audiencia Pública: 7:00 pm

- **Lea el plan de limpieza de la Terminal T117 en:**

www.T117.com o South Park Library

- **Envíe sus comentarios a EPA antes del 7 de julio de 2010 a:**

Correo Electrónico: [r10terminal117@epa.gov](mailto:r10terminal117@epa.gov)  
Correo: Terminal 117 Comments, U.S. EPA,  
1200 6th Ave, Suite 900, ECL-111,  
Seattle WA 98101

\* Contaremos con servicio de traductores y cuidado infantil durante la audiencia pública.

## Cách Góp Ý về Kế Hoạch Dọn Dẹp

- **Tham dự buổi điều trần công cộng:\***

17 tháng Sáu, 2010  
South Park Community Center  
8319 8th Ave S

- Buổi tọa đàm công khai: 5:30 pm
- Các phần trình bày: 6:00 pm
- Buổi điều trần công cộng: 7:00 pm

- **Quý vị có thể tìm đọc kế hoạch dọn dẹp T117 tại:**

www.T117.com hoặc South Park Library

- **Gửi nhận xét của quý vị cho EPA trễ nhất là ngày 7 tháng Bảy, 2010 tới địa chỉ**

E-mail: [r10terminal117@epa.gov](mailto:r10terminal117@epa.gov)  
Địa chỉ bưu tín: Terminal 117 Comments, U.S. EPA,  
1200 6th Ave, Suite 900, ECL-111,  
Seattle WA 98101

\* Sẽ có thông dịch viên và dịch vụ giữ trẻ tại buổi điều trần công cộng.

## Questions?

Piper Peterson Lee, Environmental Protection Agency Project Manager, 206-553-4951, [Peterson-Lee.piper@epa.gov](mailto:Peterson-Lee.piper@epa.gov)

Suzanne Skadowski, Environmental Protection Agency, Community Involvement, 206-553-6689, [Skadowski.suzanne@epa.gov](mailto:Skadowski.suzanne@epa.gov)



U. S. Environmental Protection Agency  
1200 Sixth Avenue, Suite 900, ETPA-081  
Seattle, Washington 98101-3140

Pre-Sorted Standard  
Postage and Fees Paid  
U.S. EPA  
Permit No. G-35  
Seattle, WA

## Comment on Terminal 117 Cleanup Plans

June 7 – July 7, 2010

The U.S. Environmental Protection Agency (EPA) has proposed a cleanup plan for the Terminal 117 Superfund site. If you live or work in the South Park neighborhood of Seattle, this cleanup could affect you. Your concerns and feedback are important to us. We invite everyone to read and comment on the cleanup plan by July 7, 2010.

If you need materials in an alternative format, contact Suzanne Skadowski at 206-553-6689. TTY users please call the Federal Relay Service: 800-877-8339.

