



SLIDEROUND

Fact Sheet

HARBOR ISLAND Seattle, Washington



U S ENVIRONMENTAL PROTECTION AGENCY REGION

December 1999

The U.S. Environmental Protection Agency (EPA) has expanded the boundaries of contaminated marine sediments around the Todd Shipyards facility and has designated the Todd Shipyard Sediment site as a distinct cleanup unit called the Todd Shipyard Sediment Operable Unit (TSSOU). This fact sheet describes those changes and provides an update on other Superfund activities taking place at the Harbor Island site.

Shipyard Sediments Unit

In November 1996, EPA selected a cleanup plan at Todd and Lockheed Shipyards to dredge and dispose of the most contaminated sediments and place a clean sediment cap over any remaining contamination. Because these shipyards have distinct characteristics and different property owners, EPA is addressing Todd and Lockheed Shipyards sediments as separate cleanup units (see Figure 1).

Before cleanup design could begin, Todd Shipyards agreed to conduct additional sampling to identify sediment contamination exceeding state chemical criteria, conduct optional biological tests, and identify areas containing significant amounts of sandblast grit. The data show contamination outside the ROD boundary. As a result, EPA collected samples outside of the ROD boundary to determine the extent of the contaminated sediments. In addition, Todd Shipyards collected bathymetric data to determine the present contours and depths of the potential cleanup area, identified additional areas containing sandblast grit and shipyard debris and addressed other pre-design data gaps.

To address all of this new information, EPA is expanding and redefining the ROD boundary area at the TSSOU (see Figure 2). This change is outlined in a document called an Explanation of Significant Differences (ESD). A copy of the ESD and supporting documents are available at the EPA's office at 1200 Sixth Avenue in Seattle. If

you would like to review the ESD, or any other document related to the site, please call the Records Center at (206) 553-4494 to arrange a time.

Background

Harbor Island lies in an estuary at the mouth of the Duwamish River on the southern edge of Elliott Bay. The island was constructed between 1903 and 1905 from sediments dredged from the Duwamish River to create the East and West Waterways and the navigational channel of the upper Duwamish River. Since construction, the island has been used for ship building and maintenance, lead smelting, and other industrial activities.

Harbor Island was added to EPA's National Priorities List (NPL) in 1983 when hazardous substances were found in soils on the island and in sediments near the island. The NPL is a list of sites targeted for further investigation and possible cleanup under Superfund authority.

For investigation and cleanup purposes, EPA has divided the Site into many "Operable Units". The site includes an upland portion and a marine sediment portion, which are further divided into Operable Units. Additional operable units may be created as site activities progress. Currently, the Washington Department of Ecology is overseeing the work on one of the upland portions, called the Tank Farms.

The upland portion is addressed by a 1993 cleanup plan for the Soil and Groundwater Operable Unit, and a 1994 cleanup plan for the upland Lockheed Shipyard Operable Unit. Cleanup activities were completed on the upland Lockheed Shipyard Unit and it has been removed from the NPL.

The marine sediment "Operable Units" include: the Todd Shipyard Sediment Operable Unit, the Lockheed Shipyard Sediment Operable Unit, the West Waterway Operable Unit, and the East Waterway Operable Unit. EPA has released a proposed plan for the West Waterway Operable Unit. The comment period, which was to end on December 14th, has been extended and will now end on January 14, 2000. The East Waterway Operable Unit will be addressed at a future time.

EPA and the Washington Department of Ecology are addressing contaminated sediments in the Lower Duwamish River separately.

Soil and Groundwater Unit Update

This unit covers the upland portion of Harbor Island and the groundwater beneath the surface.

The cleanup decision for the Soil and Groundwater Unit includes 1) excavation and on-site treatment of petroleum hot spot soil, 2) disposal of PCB contaminated soil in an off-site hazardous waste facility, 3) removal and treatment of floating petroleum product and contaminated groundwater at Todd Shipyards, 4) capping exposed contaminated soil exceeding cleanup goals with three inches of asphalt, and 5) monitoring groundwater semi-annually for 30 years or until it is verified that the cleanup actions prevent contaminants from reaching the shoreline at concentrations which exceed cleanup goals.

Pumping petroleum from the ground at Todd Shipyard began in December 1998 and continues. Approximately 1760 gallons of product

were collected in July 1999 and 4040 gallons in August 1999. After the petroleum product is recovered, the soil will be treated using an enhanced bioventing technology to reduce the total petroleum hydrocarbon (TPH) levels in the soil. The bioventing treatment system is in design phase.

The TPH hot spot removal at the Port of Seattle's Terminal 18 is ready to begin construction. The removal of the contaminated soil above the water table (at low tide) should be accomplished this fall. The Port of Seattle will redesign the rail and road systems on the southern half of the site and cover the area with asphalt as part of their terminal expansion project. This project will effectively cap the parts of the site that are not already covered with paving.

For More Information:

All documents for this site are located at the U.S. Environmental Protection Agency, Region 10 at 1200 Sixth Avenue, Seattle, Washington. To view the documents, please call the Records Center at (206) 553-4494 to arrange a time to look at the documents.

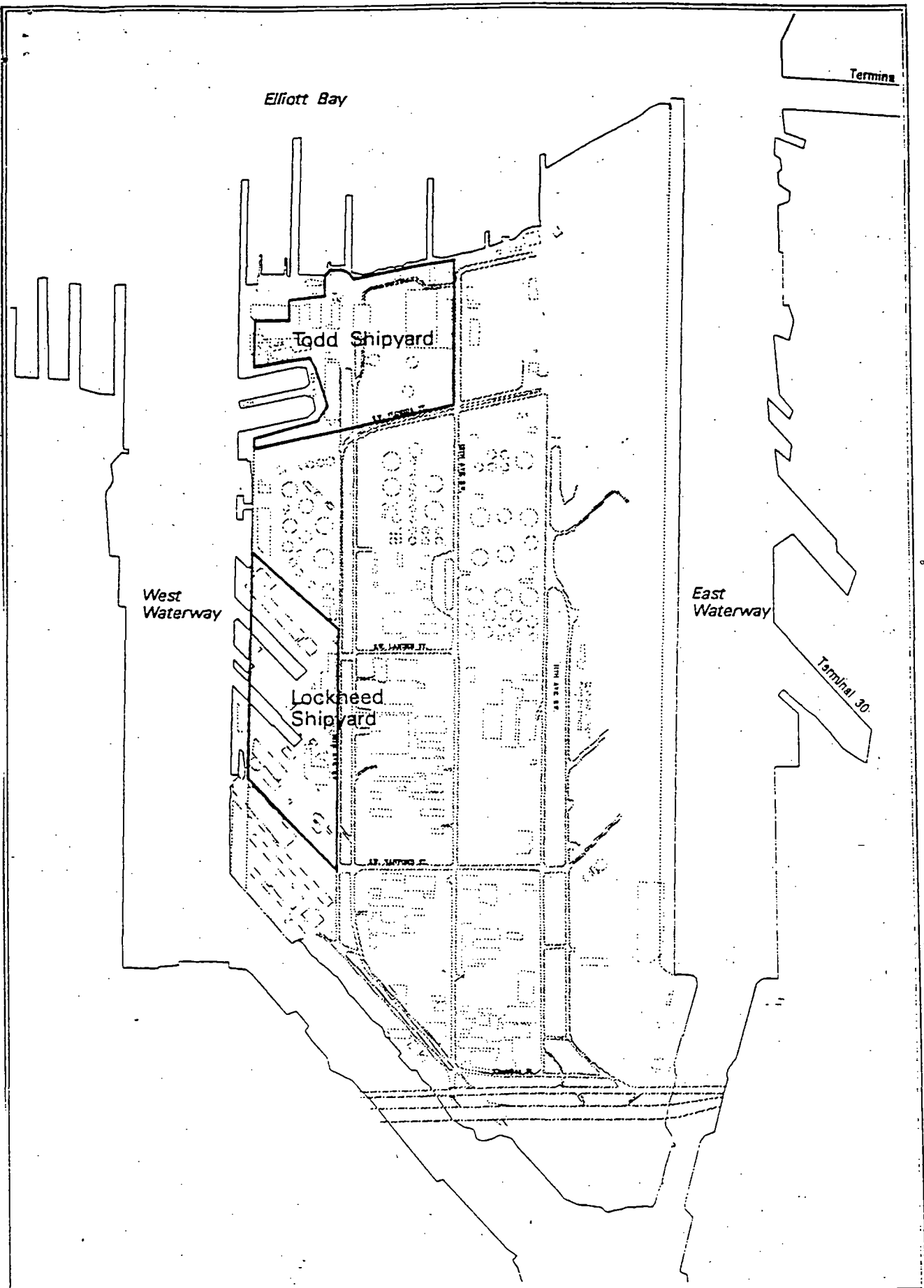
If you have any questions about this site, please contact one of the following people:

Soil and Groundwater Unit:
Neil Thompson, Project Manager,
at (206) 553-7177

Lockheed and Todd Shipyard Sediment Units:
Piper Peterson Lee, Project Manager,
at (206) 553-4951

Marine Sediments Unit:
Karen Keeley, Project Manager,
at (206) 553-2141

To ensure effective communication with everyone, additional services can be made available to persons with disabilities by contacting one of the EPA representatives.

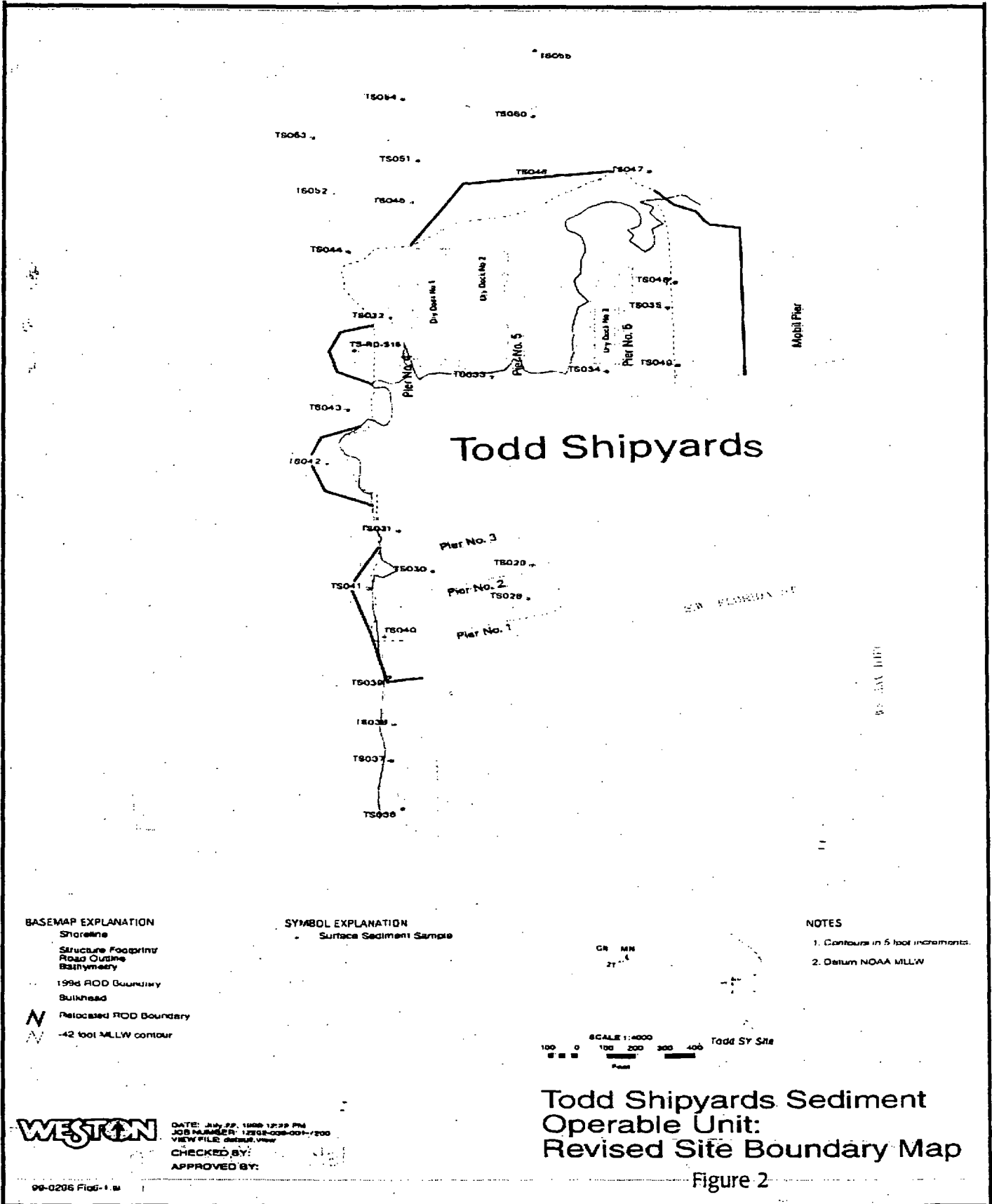


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 Feet



Harbor Island Site Map

Figure 1



BASEMAP EXPLANATION

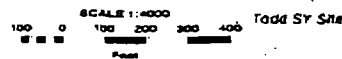
- Shoreline
- Structure Footprint
- Road Outline
- Bathymetry
- 1994 ROD Boundary
- Bulkhead
- Relocated ROD Boundary
- 42 foot MLLW contour

SYMBOL EXPLANATION

- Surface Sediment Sample

NOTES

1. Contours in 5 foot increments.
2. Datum NOAA MLLW



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Todd Shipyards Sediment Operable Unit: Revised Site Boundary Map

Figure 2