

**tacoma boat**

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TACOMA BOATBUILDING CO. / 1840 Marine View Drive / Tacoma, Washington 98422 / Phone (206) 572-3600  
SHIPBUILDING / SHIP REPAIR / ENGINEERING / MACHINERY MANUFACTURE S.W. REGIONAL OFFICE Fax (206) 572-0548

22 August 1995  
OM-1795/DOE

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Subj: Storm Drain Sediment and Grit Removal, Final Report

Ref: (a) Ecology Letter Dated July 19, 1993

Enc: (1) Storm Drain System Cleanout Report

Gentlemen:

The final report for the Tacoma Boatbuilding Co. Storm Drain System Cleanout is hereby provided as enclosure (1). The report is issued in accordance with paragraph 2.2 of the Storm Drain Sediment Grit and Removal plan previously approved by the Department of Ecology (Ecology), reference (a), and NPDES Permit No. WA-004963-1.

If there are any questions regarding the data provided, please give me a call.

Sincerely,

TACOMA BOATBUILDING CO.

Ray E. Nichols  
Vice President & General Manager

REN:jh

STORM DRAIN SYSTEM CLEANOUT

FINAL REPORT

Tacoma Boatbuilding Co.  
1840 Marine View Drive  
Tacoma, WA 98422

22 August 1995

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Figure 1 Storm Drain Plan

## 1. INTRODUCTION

### 1.1 Purpose

In accordance with the Storm Drain Sediment and Grit Removal Plan (Plan) approved by the Department of Ecology (Ecology), Tacoma Boatbuilding Co. (TBC) was to clean the storm drain system and provide a final report to Ecology within thirty (30) days of the cleanout evolution.

### 1.2 Facility Description

TBC is located at 1840 Marine View Drive, Tacoma, Washington in Section 36 of T21N, R3E of the Willamette Meridian; latitude 47 degrees 16 minutes, longitude 122 degrees 22 minutes. The facility is bordered by the Hylebos Waterway to the south, Manke Lumber to the east, General Metals to the west and Marine View Drive to the north.

The facility covers approximately 19 acres and is fully developed with paving or structures throughout all of the facility with the exception of a strip of vegetation near the employee parking lot and areas incorporating the bank of the Hylebos Waterway. The facility is relatively flat with a slight slope toward the Hylebos shore. A storm drain system exists throughout the facility with catch basins, manholes and outfalls as shown in Figure 1.

## 2. STORM DRAIN SYSTEM CLEANOUT

### 2.1 Procedure

Storm drain catch basins were inspected for general condition prior to commencing the cleaning evolution. There were no conditions found that would preclude an orderly storm drain system cleanup.

A composite sediment sample was gathered from three catch basins, the analysis of which indicated that the sediment could be stored and disposed with accumulated spent sandblast material. The sediment and accumulated sandblast material will be removed by an approved hauler for ultimate disposal.

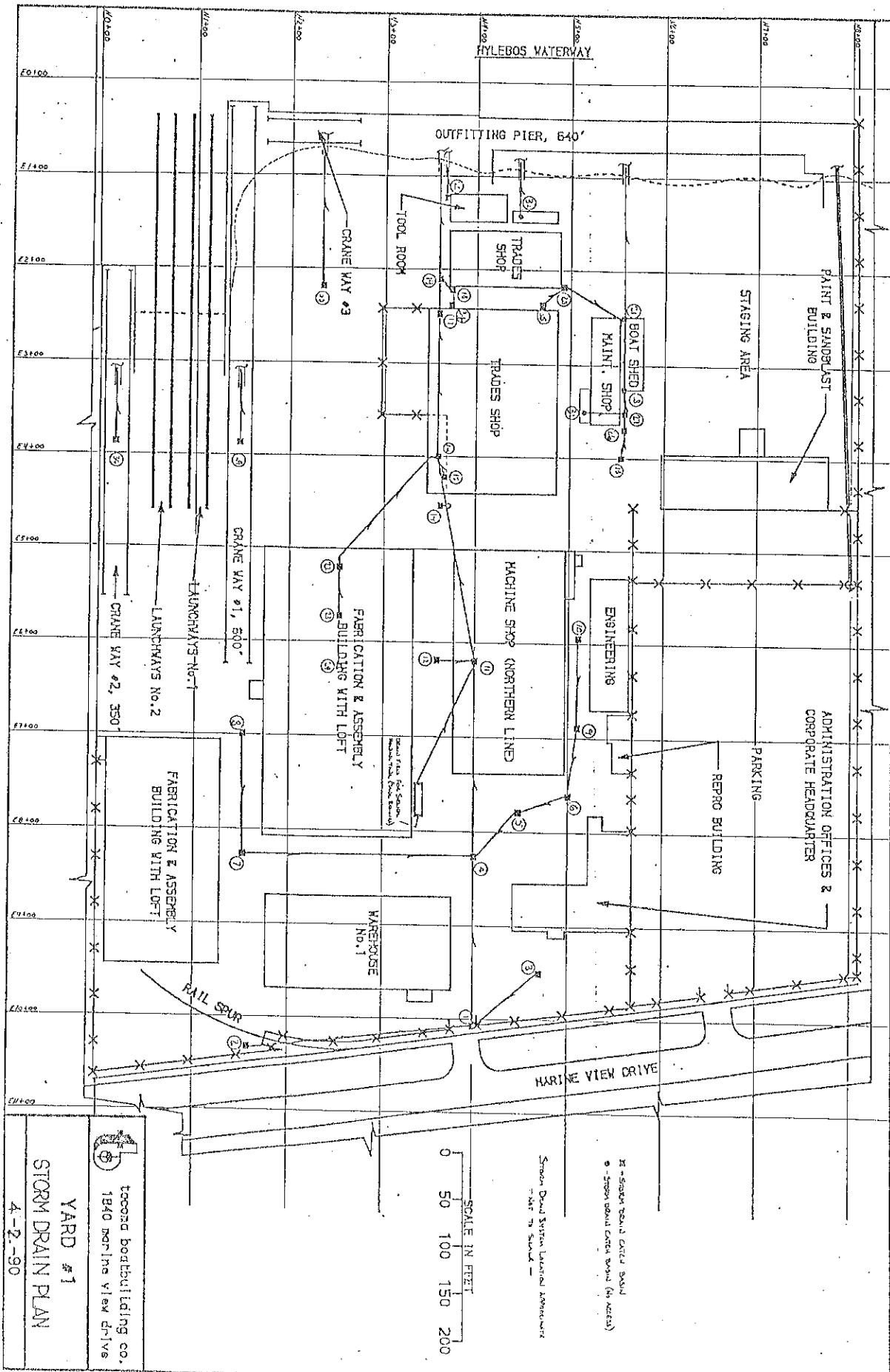
The storm drain system cleanout began the morning of August 2, 1995 and was completed late the afternoon of August 3, 1995. The cleanout was accomplished by an independent contractor using a flush/vacuum tanker truck as a collection point. Once the truck's holding tank was filled, the contents were allowed to decant to separate any solid material from the liquid. The solid material was transported to the sandblast accumulation area, while the liquid was pumped off using a portable submersible pump to a 20,000 gallon capacity commercial holding tank.

Once the cleaning evolution was complete, all the flushing liquid was collected in the holding tank, the approximately 4835 gallons of liquid collected internally was circulated in accordance with

the City of Tacoma Public Works discharge permit and a sample drawn for analysis. The sample analysis indicated that the levels of total copper and zinc (1.6 and 2.8 mg/L respectively) were in excess of discharge limits to the municipal sewer system. The liquid has been transferred to smaller capacity holding tanks for subsequent disposal.

## 2.1 Storm Drain Line Inspection

Inspection of storm drain line catch basins will be conducted quarterly and a log book maintained to record all information pertaining to the storm drain inspection program and sediment removal efforts.



YARD #1  
 STORM DRAIN PLAN  
 4-2-90

teecora boatbuilding co.  
 1840 marine view drive

Storm Drain System General Arrangement  
 Part of Standard

X - Storm Drain Catch Basin  
 O - Storm Drain Catch Basin (In Area)  
 --- Main Drain ---

FIGURE 1