



DEPARTMENT OF  
**ECOLOGY**  
State of Washington

**Northlake Shipyards  
Interim Action Work Plan  
July 2012**

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## 1.0 INTRODUCTION

The Washington State Department of Ecology intends to perform an Interim Action to remove sandblast grit at Northlake Shipyards and Waterway # 21 under an existing Prospective Purchaser Consent Decree 94-2 20115.

## 2.0 SITE LOCATION

Northlake Shipyard is a working shipyard located at 1441 N. Northlake Way in the Seattle, Washington. The area being dredged comprises most of the SE ¼ of Section 18 of Township 25N Range 4E, and is located near 47.64640 N latitude 122.34163 W longitude. The tax parcel numbers for this area are 4088804620, 40888046224, 088804643, and 182504HYDR. Part of the area to be dredged is owned by Northlake Shipyard and Part by the Department of Natural Resources (DNR). See Figures 1 and 2. No upland areas are involved.

## 3.0 BACKGROUND INFORMATION

The site is contaminated primarily as a result of uncontrolled sandblasting by the previous owners, United Marine International and Marine Power and Equipment. In 1994 the current owner, Northlake Shipyard, Inc. entered into a Prospective Purchaser Consent Decree (PPCD) prior to purchasing the Site through bankruptcy proceedings from United Marine International. Under the terms of the PPCD Northlake Shipyard created a trust fund solely for the purpose of cleaning up the sandblast grit. Ecology intends to spend this money to dredge the grit later this year, as soon as fish passage concerns allow.

Metals detected in sediment samples near the Site included antimony up to 420 parts per million (ppm), arsenic up to 2,920 ppm, cadmium up to 9 ppm, copper up to 4,180 ppm, lead up to 2,550 ppm, mercury up to 3 ppm, nickel up to 131 ppm, silver up to 8 ppm and zinc up to 9,440 ppm. Total PAH concentrations in surface sediments ranged from 9 to 3,749 ppm.

Northlake Shipyards has two operating drydocks. The drydocks are of made of steel.

<b>Operation</b>	<b>Tonnage</b>	<b>Length</b>	<b>Width</b>	<b>Cycles/yr</b>
Drydock #2	1200 Tons	200 Feet	44 Feet	25-35 per year
Drydock #9	1900 Tons	288 Feet	44 Feet	25-35 per year

## 4.0 INTERIM ACTION

The Interim Action will consist of dredging approximately 8,000 cubic yards of sediments and sandblast grit using an environmental clamshell bucket, and then backfilling the dredge prism with six inches of clean sand. Ecology estimates that the interim action will last one to two weeks.

The contractor will use the following best management practices (BMPs) to prevent the spread of contamination through re-suspension.

1. Dredging will be by cable arm environmental bucket or approved equivalent.
2. Production will be controlled to prevent turbidity.
3. The dredging contractor will provide silt curtains around the dredging area.
4. The dredging contractor or the consultant will provide turbidity monitoring in the water column outside each wall of the silt curtain or cofferdam, either continuously or at least four times per hour.
5. Dredging operations will be suspended if turbidity outside the silt curtains exceed 5 NTU above background.
6. Dredging contractor will sample and test dredge spoils as required by the uplands disposal facility.
7. At a minimum a two step dewatering process for dredged sediment is required.
8. Dredging contractor or the consultant will sample the bottom of the completed dredge prism at 6 points specified by Ecology and analyze for arsenic.
9. Dredging contractor will backfill dredge prism with six inches of clean sand.
10. Dredging contractor will be prepared to contain and cleanup LNAPL, which is not expected.
11. After the completion of dredging the contractor or the consultant will take, and analyze three samples at locations specified by Ecology to identify any spread of contamination.

## 5.0 USE OF THIS REPORT

This document was prepared to provide public involvement information, and to instruct and inform the design contractor. It is not a bid document, and should not be used to estimate costs or otherwise produce a bid. It is not for construction. It will be finalized before the bid specifications are posted.

## 6.0 REFERENCES

*Biological Evaluation Northlake Shipyards Sand Blast Grit Dredging-Interim Action Seattle, Washington.* Hart Crowser, Inc. May 28, 2012

*Northlake Shipyard Sandblast Grit Study Project Report.* Ecology and Environment. June 2009

*Prospective Purchaser Consent Decree RE: Northlake Shipyard, INC 94-2 20115 8.*  
Ecology. August 12, 1994

**Figure 1 Site location**

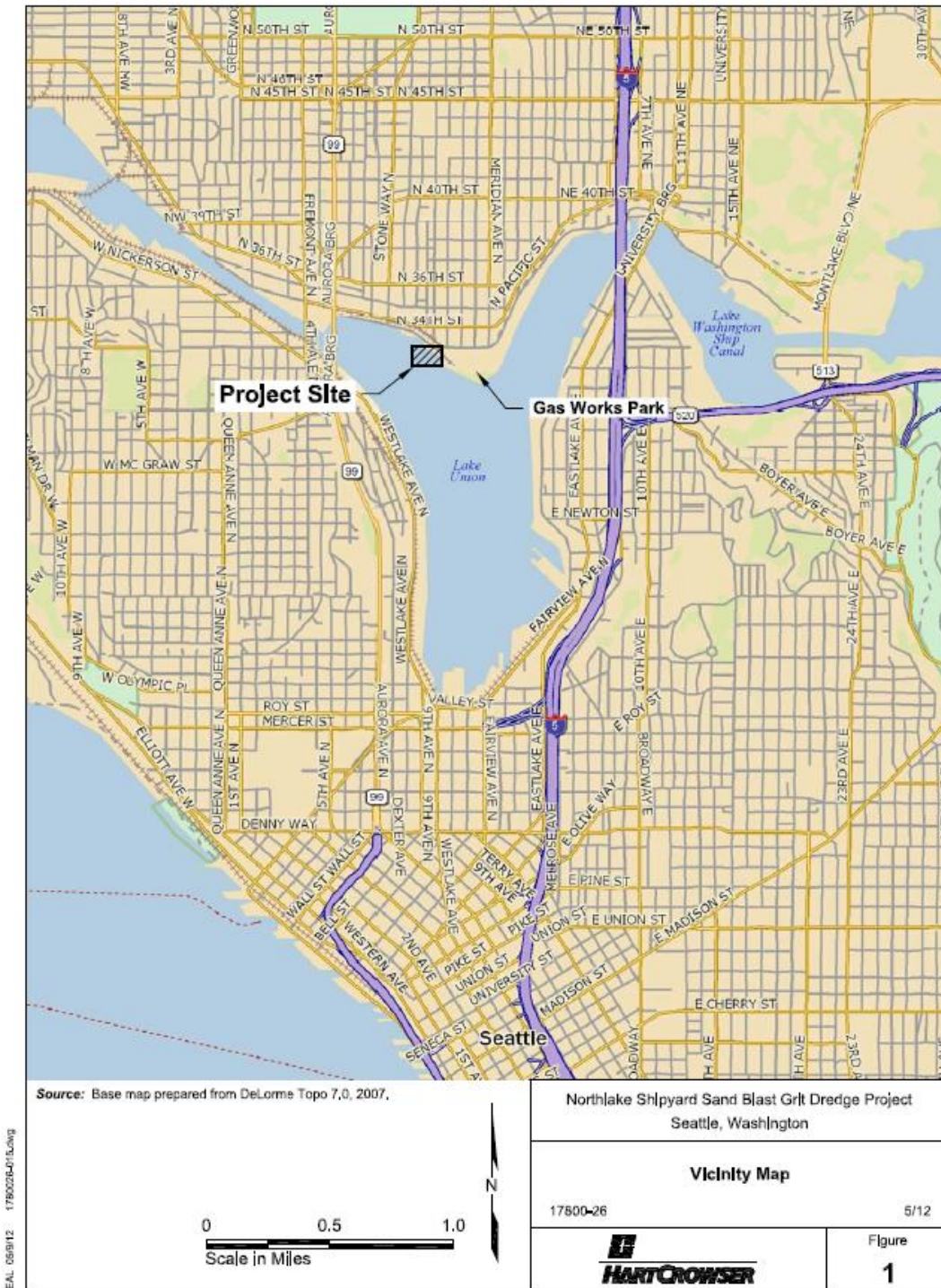
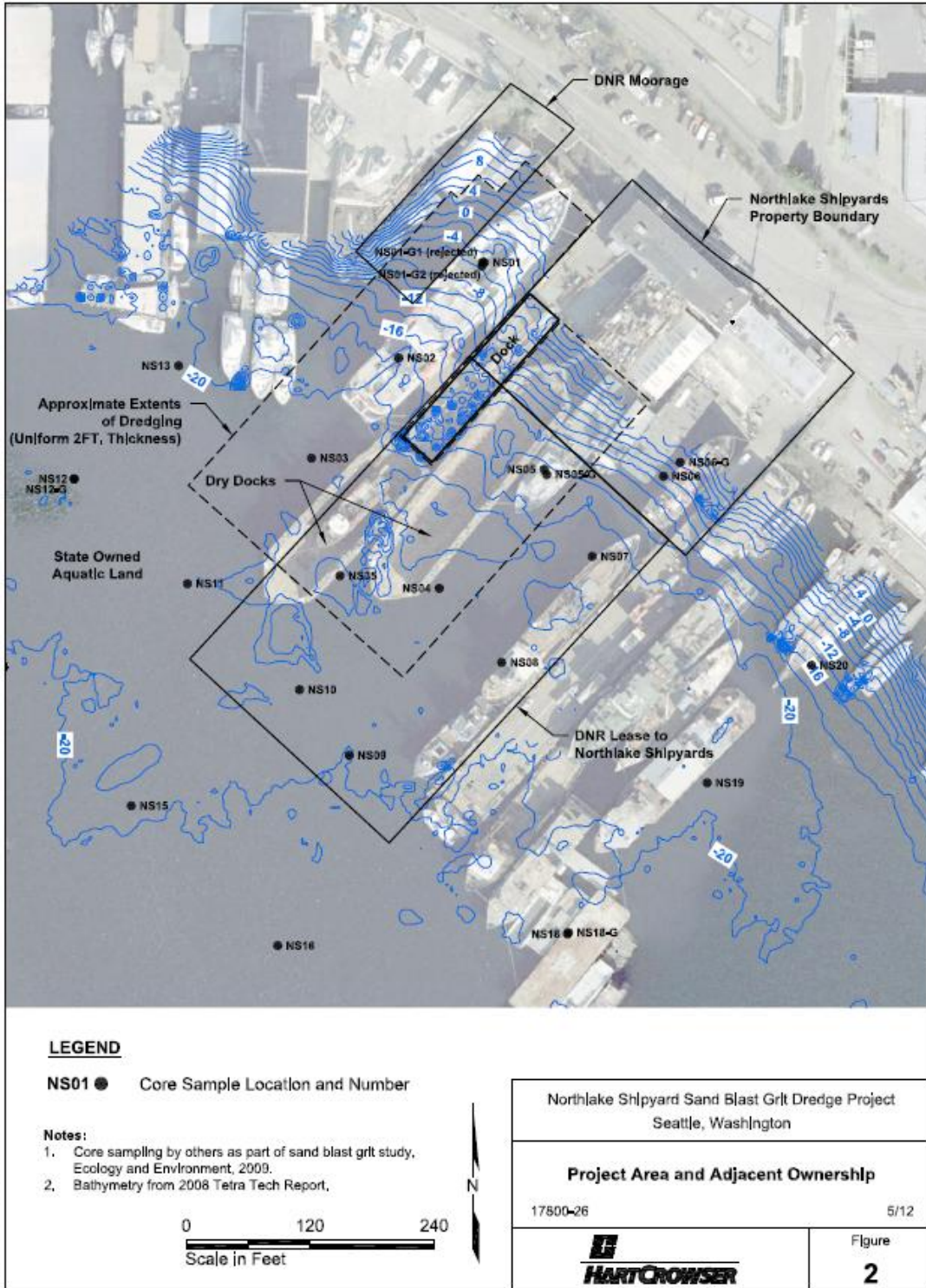


Figure 2 Project Area and Adjacent Ownership



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