

6 February 1997
1997 00550

MEMORANDUM FOR RECORD

SUBJECT: DETERMINATION OF THE SUITABILITY OF DREDGED MATERIAL TESTED UNDER PSDDA EVALUATION PROCEDURES FOR OAK HARBOR MARINA FOR DISPOSAL AT A PSDDA OPEN WATER DISPOSAL SITE.

1. The City of Oak Harbor proposes to dredge approximately 27,000 cubic yards from its marina located in Oak Harbor Bay. The following summary reflects the PSDDA agencies (Corps of Engineers, Department of Ecology, Department of Natural Resources and the Environmental Protection Agency) consensus decision on the acceptability of the sampling plan and all relevant test data to make a determination of suitability for the disposal of the material at a PSDDA open-water disposal site.
2. This project was ranked "moderate" based on guidance provided in the Management Plan Report, Phase 11, Page A-10.
3. A sampling and analysis plan was completed for this project and approved by the PSDDA agencies on 19 April 1996. Sampling for this project was performed on 23 April 1996.

SAP Approval Date	19 April 1996
Sampling dates	23 April 1996
Data Report submittal date	December 1996
Recency determination dates	23 April 2001- 23 April 2003

4. Two surface DMMU were characterized. The dredge prism was divided into 7 sample locations. Sample location S-1, S-2 S-3 and S-8 were composited for analysis C-1. Sample locations S-4, S-5, S-6 and S-7 were composited for analysis C-2.
5. There were no exceedances of Dredging Year 1996 PSDDA screening levels. There were no detection limits above screening level. In addition to the standard list of chemicals of concern, the sediments were analyzed for tributyltin. TBT was found at 2.62 ppb in sample C-1 and 0.55 ppb (as tin) in sample C-2. The screening level at the time of analysis was 30 ppb (as tin).
6. In summary, the PSDDA-approved sampling and analysis plan were followed, and quality assurance, quality control guidelines specified by PSDDA were followed. The data gathered were deemed sufficient and acceptable for Regulatory decision-making under the PSDDA program. Based on the results of the chemical testing, the consensus determination of the

PSDDA agencies is that all 27,000 cubic yards of sediment proposed to be dredged from the Oak Harbor Marina is suitable for disposal at a PSDDA open-water disposal site.

7. The chemical analytical data were also compared to the State Sediment Management Standards, including the analysis of chromium. All detection limits met SMS standards. All sediment in the project area meet the state Sediment Quality Standards. Based on this information, the PSDDA agencies determined that the sediments from Oak Harbor Marina are chemically suitable for use in beneficial uses projects. Sediment conventional data is included in Table 1.

8. This memorandum documents the suitability of proposed dredged sediments for disposal at a PSDDA open water disposal site, and the chemical suitability of the material for proposed beneficial uses. It does not constitute final agency approval of the project. A final decision will be made after full consideration of agency input, and after an alternatives analysis is done under section 404 (b) 1 of the Clean Water Act.

Concur:

2/12/97
Date

2/14/97
Date

Date

13 FEB 97
Date

Sally Fisher
Stephanie Stirling
Seattle District Corps of Engineers

Justine Barton
Justine Barton
Environmental Protection Agency, Region 10

Vernice Santee
Vernice Santee
Washington Department of Ecology

Ted Benson
Ted Benson
WA Department of Natural Resources

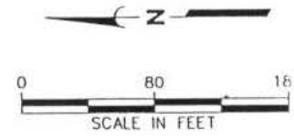
Copies Furnished:
EPA/Justine Barton
DOE/Vernice Santee
DNR/Ted Benson
Sally Fisher/GeoEngineers
CENPS-OP-RG
DMMO file

Table 1. Sediment Conventional Parameters

DMMU	Total Solids (%)	Total Organic Carbon (%)	Bulk Ammonia (mg/kg)	Total Sulfides (mg/kg)
C-1	51.2	1.3	25	310
C-2	58.8	0.95	36	44

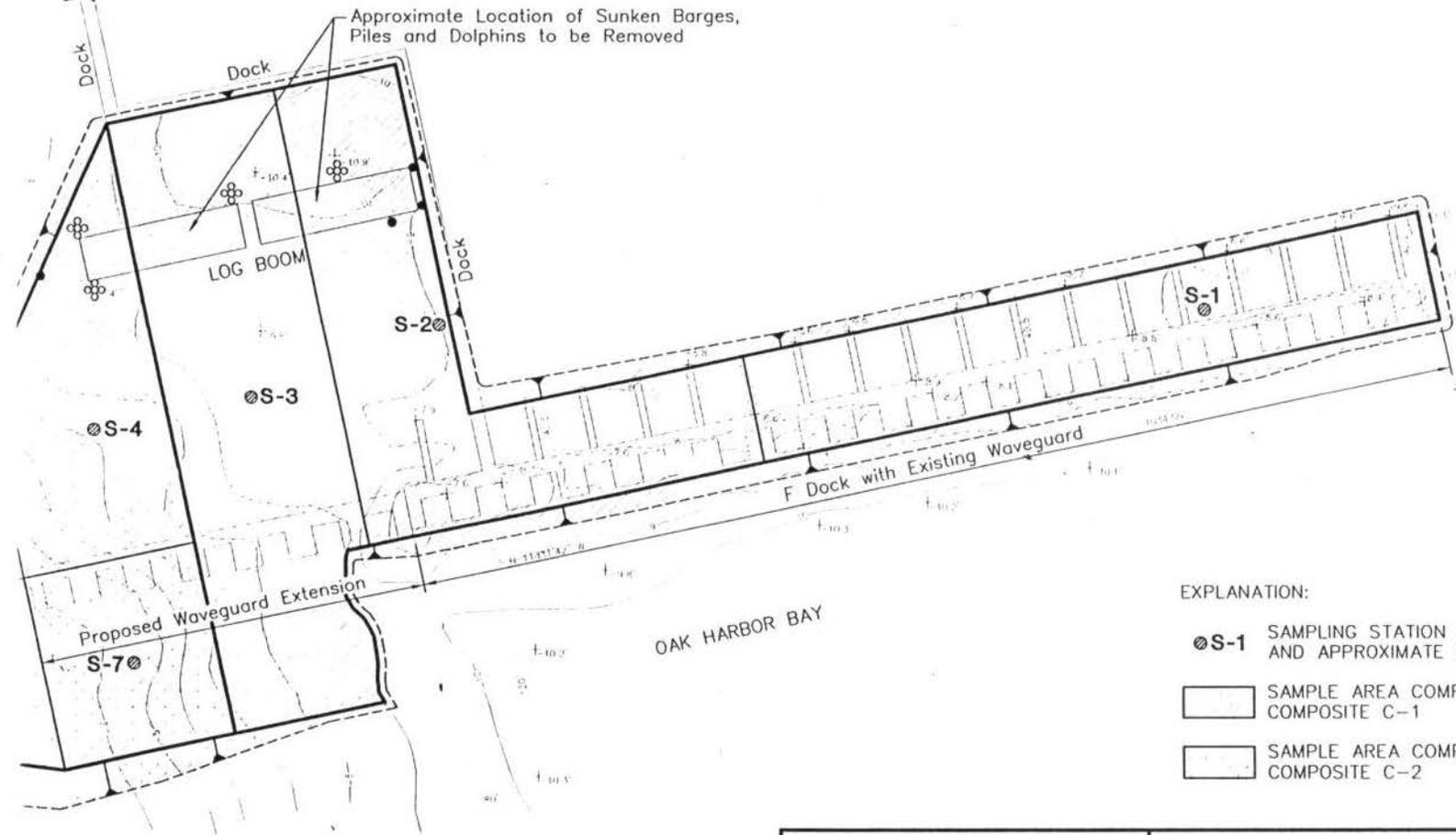
58

Base of Marina Gangplank
Maintenance Dredging Required



CITY OF OAK HARBOR MARINA

Approximate Location of Sunken Barges,
Piles and Dolphins to be Removed



55

56

EXPLANATION:

⊙S-1 SAMPLING STATION NUM
AND APPROXIMATE LOC/

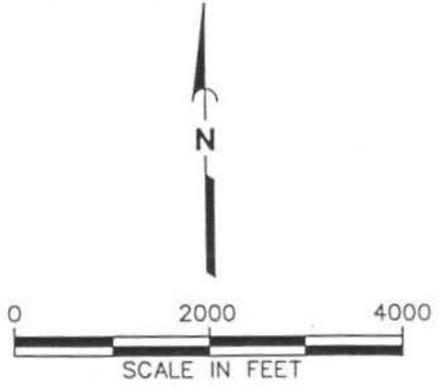
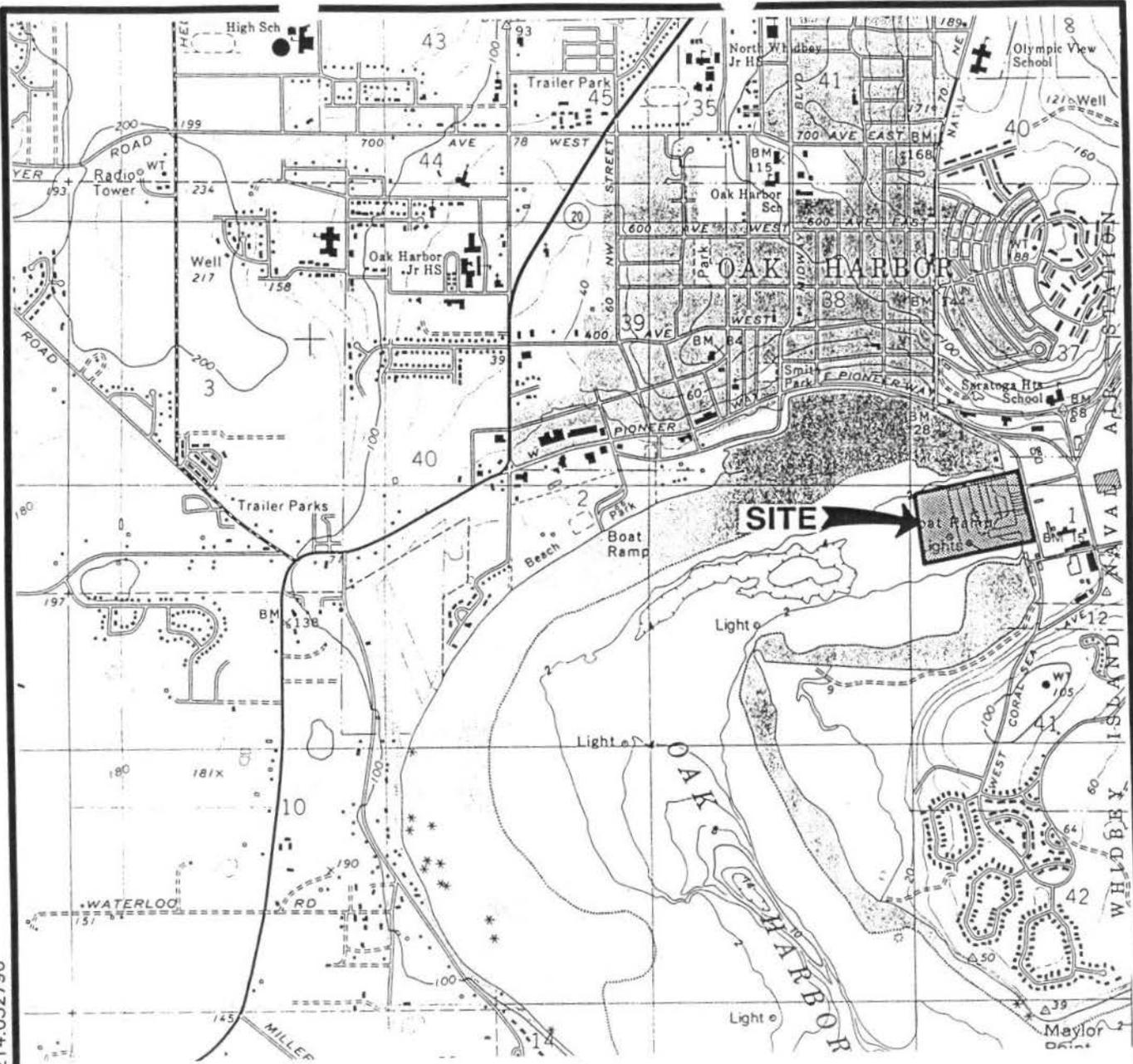
□ SAMPLE AREA COMPRISII
COMPOSITE C-1

□ SAMPLE AREA COMPRISII
COMPOSITE C-2

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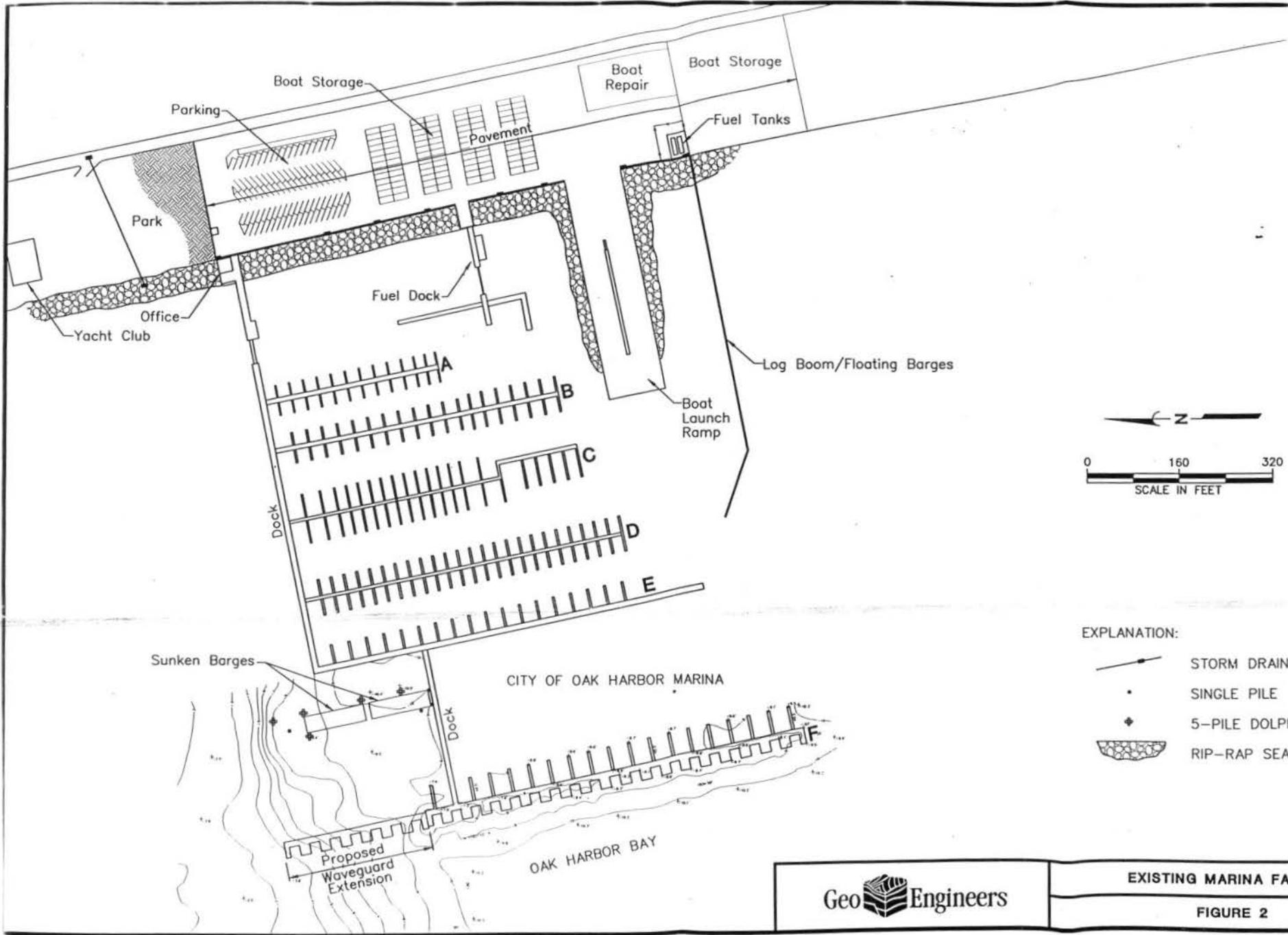
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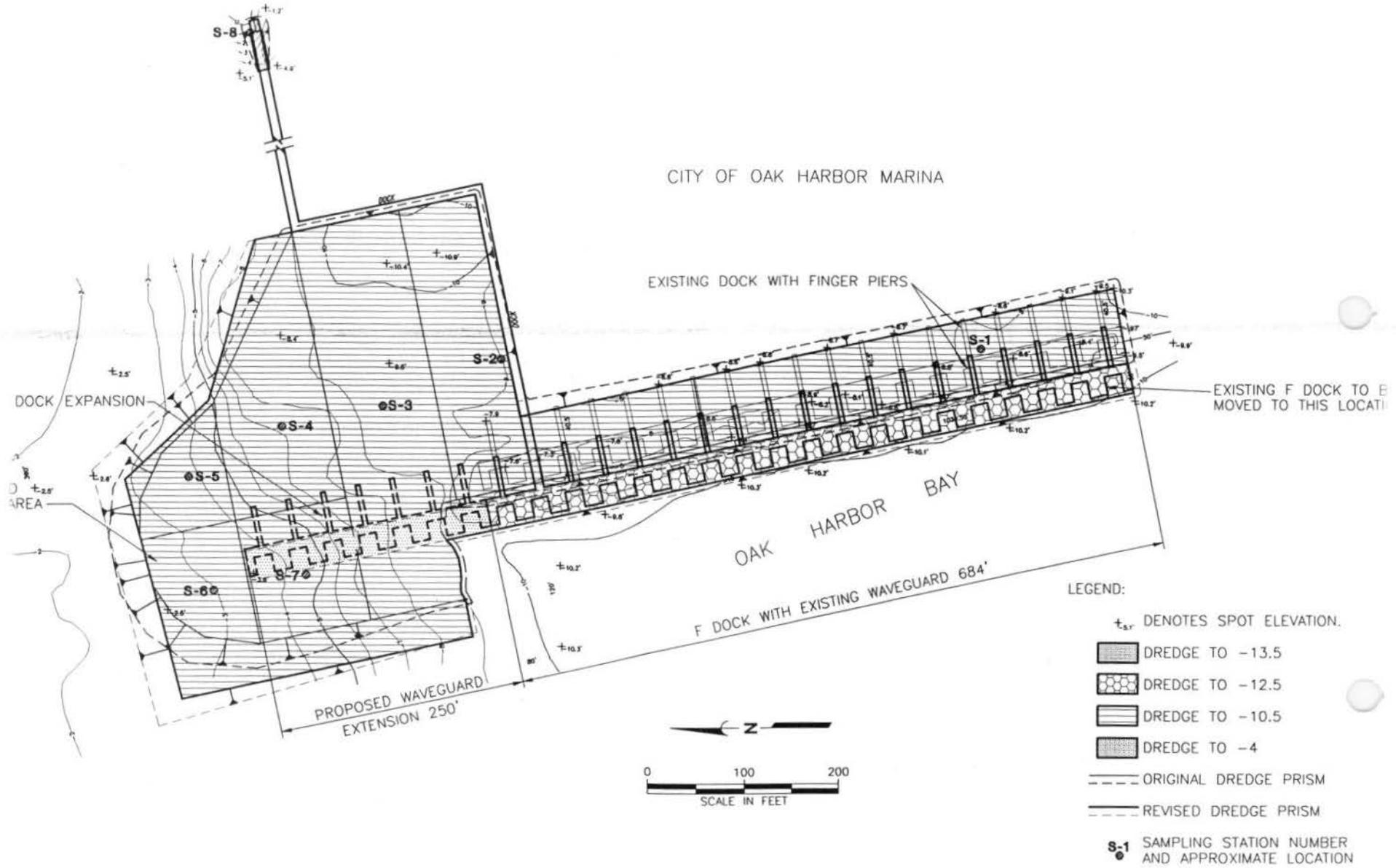


Reference:
 USGS 7.5' topographic quadrangle map "Oak Harbor, WA", 1973 bathymetry added in 1980.

	VICINITY MAP
	FIGURE 1



- EXPLANATION:
-  STORM DRAIN
 -  SINGLE PILE
 -  5-PILE DOLPHIN
 -  RIP-RAP SEAWALL



base drawing by Leonard, Boudinot & Skodje Inc., dated 12/22/95 job number 95271.

Geo  Engineers

REVISED DREDGE PRISM

FIGURE 1