

15 January 1999

SUBJECT: DETERMINATION ON THE SUITABILITY OF PROPOSED DREDGED MATERIAL FROM THE OCEAN SHORES MARINA AND ACCESS CHANNEL, GRAYS HARBOR EVALUATED UNDER SECTION 404 OF THE CLEAN WATER ACT (CWA) FOR OPEN-WATER DISPOSAL AT THE POINT CHEHALIS DISPERSIVE DISPOSAL SITE.

1. The following summary reflects the consensus determination of the Agencies' (U.S. Army Corps of Engineers, Department of Ecology, Department of Natural Resources, and the Environmental Protection Agency) with jurisdiction on dredging and disposal on the suitability of the estimated 241,920 cy of material from the Ocean Shores Marina and Access Channel for unconfined open-water disposal at the Point Chehalis disposal site.
2. The Quinault Land and Timber Enterprise (QLTE) proposes to restore navigation depths in the Ocean Shores Marina and a relocated access channel to provide navigation access to the marina. The proposed project would dredge approximately 80,600 cy from the marina and an estimated 161,320 cy from the adjacent access channel for a total dredging volume of 241,920 cy. The DMMP agencies ranked the marina low-moderate and the access channel low for testing purposes based on previous testing.
3. Sampling was initiated between 21-23 July, 1998, and consisted of collecting sediment Vibracorer samples from 19 locations within the project area: 7 cores within the marina and 12 cores within the access channel (Figure 1). The seven cores collected within the marina were composited into two surface dredged material management units (DMMUs) and one subsurface DMMU, whereas the twelve cores within the access channel were composited into two surface DMMUs and one subsurface DMMU, for a total of six DMMUs collectively. The Agencies' approved sampling and analysis plan for testing surface sediment in marina and access channel was followed, and quality assurance/quality control guidelines specified by the Grays Harbor Users Manual were generally complied with. The data gathered were deemed sufficient and acceptable for decision making by the DMMP Agencies based on best professional judgment.
4. Table 2 summarizes the sediment conventional parameters for the six composited DMMUs analyzed. Chemical analysis of the composited sample indicated that there were no detected or undetected exceedances of screening levels for all 58 chemicals of concern.

Ln Sur 7/2 7/1 12/1
L 12/2 12/1

5. Relevant dates for regulatory tracking purposes are included in Table 1.

Table 1. Regulatory Tracking Dates

SAP Received:		June 25, 1998
SAP Approval date:	July 13, 1998	
Sampling date(s):	July 21-23, 1998	
Data report submittal date:	November 13, 1998	
Recency Determination Date:	Marina: Low-Moderate Concern (6 years)	July 2004
	Access Channel: Low Concern (7 years)	July 2005

Table 2. Sediment Conventional Results.

Parameter	Marina			Access Channel		
	C1 Surface 32,000 cy	C2 Surface 24,300 cy	C5 Subsurface 24,300 cy	C3 Surface 48,000 cy	C4 Surface 51,000 cy	C6 Subsurface 62,300 cy
Grain Size:						
% Gravel	0.00	0.0	0.0	0.0	0.0	6.9
% Sand	1.5	2.7	4.3	10.2	24.0	17.0
% Silt	64.8	66.6	61.8	62.6	52.2	54.9
% Clay	34.1	32.7	34.7	25.1	24.1	21.5
% Fines (clay+silt)	98.9	99.3	96.5	87.7	76.3	76.4
Total Solids, %	42.4	41.8	43.4	51.8	53.7	53.7
Volatile Solids, %	7.9	7.27	7.19	6.61	6.27	6.15
Total Organic Carbon, %	2.46	2.43	2.59	2.26	2.43	2.13
Total Sulfides, mg/kg	2030	2410	2720	1200	1280	1670
Total Ammonia, mg/kg	92.9	79.7	213	40.9	52.3	158

8. The agencies concluded that all 6 DMMU tested passed PSDDA GHWB disposal guidelines for open-water disposal. The 241,920 cy of material is suitable for placement at the Point Chehalis open-water disposal site.

9. This memorandum documents the suitability of proposed dredged sediments from the Ocean Shores Marina and Access Channel for disposal at the Point Chehalis dispersive open-water disposal site. However, this suitability determination does not constitute final agency approval of the project. A dredging plan for this project must be completed as part of the final project approval process. A final decision will be made after full consideration of agency input, and after an alternative analysis is done under Section 404(b)(1) of the Clean Water Act.

Concur:

2/11/99

Date

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David Kendall, Ph.D., Seattle District Corps of Engineers

1/28/99

Date

Justine Barton

Justine Barton, Environmental Protection Agency

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Date

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20 JAN 99

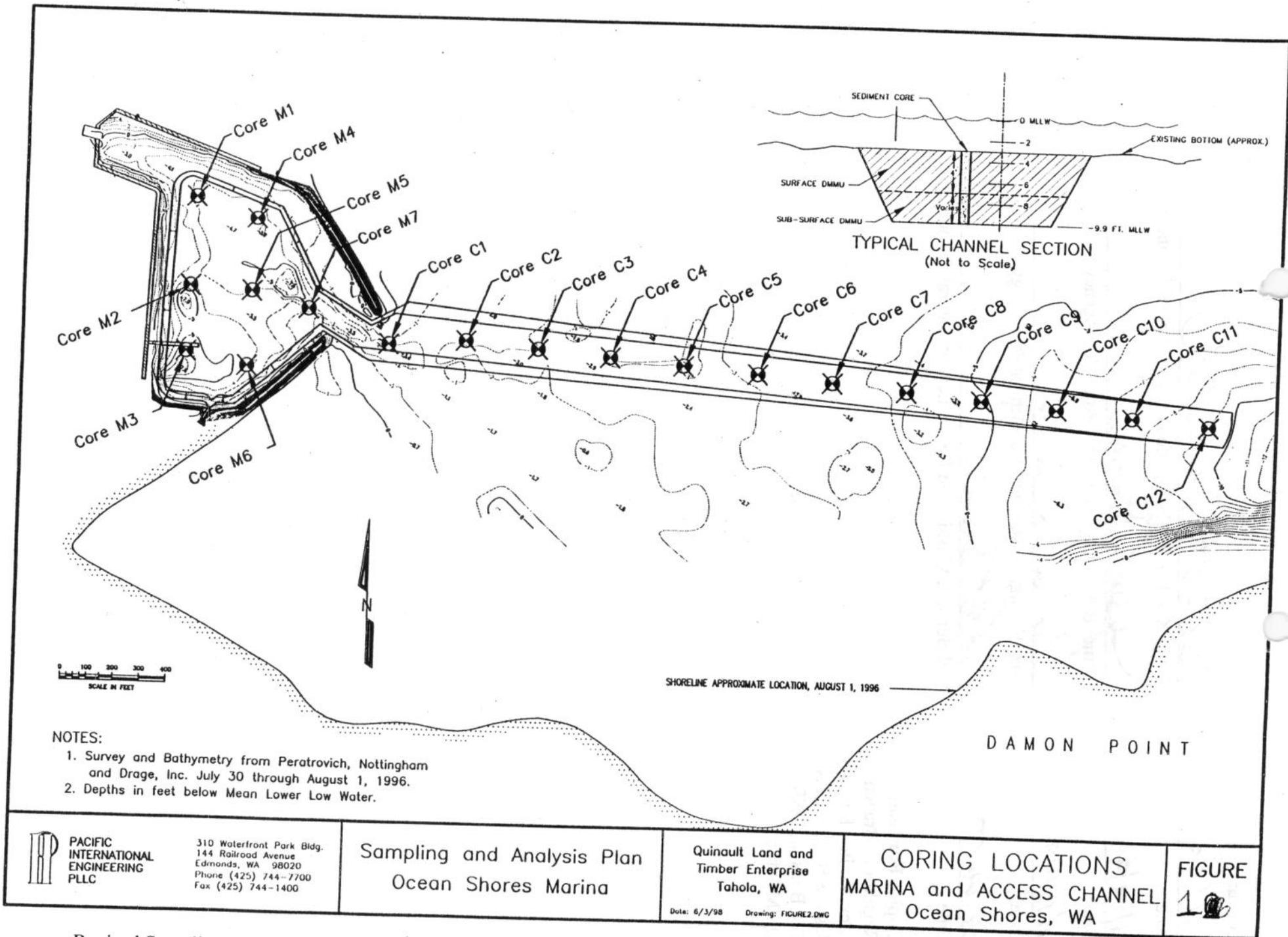
Date

Ted Benson

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Copies Furnished:

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NOTES:

1. Survey and Bathymetry from Peratrovich, Nottingham and Drage, Inc. July 30 through August 1, 1996.
2. Depths in feet below Mean Lower Low Water.



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Sampling and Analysis Plan
 Ocean Shores Marina

Quinault Land and
 Timber Enterprise
 Tahola, WA

Date: 6/3/98 Drawing: FIGURE2.DWG

CORING LOCATIONS
 MARINA and ACCESS CHANNEL
 Ocean Shores, WA

FIGURE
 1