

MEMORANDUM FOR RECORD

September 20, 1993

SUBJECT: DETERMINATION ON THE SUITABILITY OF DREDGED MATERIAL TESTED FROM THE PROPOSED NEAH BAY MARINA BOAT BASIN FOR DISPOSAL AT THE ADJACENT EAST BEACH FOR BEACH NOURISHMENT AND CORE MATERIAL WITHIN THE PONTOON (EAST BREAKWATER).

1. The following summary reflects the consensus determination of the following agencies (U.S. Army Corps of Engineers, Environmental Protection Agency, Washington State Departments of Ecology and Natural Resources) for the disposal of the estimated 50,000 cubic yards (cy) of material scheduled to be dredged from the boat basin of the proposed Neah Bay marina. These agencies were involved in the development of the **sampling and analysis** plan that outlines the chemical testing of the dredged material. Of this material, it is proposed that 14,000 cy be disposed in the interior of the pontoon for stabilization, 6,000 cy placed around the base of the pontoon for mitigation and 30,000 cy disposed on the adjacent east beach as beach nourishment for project mitigation. This project lies in both state and tribal waters (landward of -3.9 mean lower low water is designated tribal waters), with the majority of dredging in state waters. The determination of suitability is based on the acceptability of the sampling conducted on May 12-13, 1993, which characterized this material.

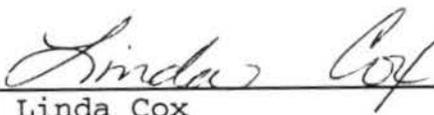
2. Sampling and testing followed the April 1993 Sampling and Analysis Plan for the proposed marina at Neah Bay. A total of six stations located at the proposed marina site were sampled. Four cores were collected from the boat basin and composited for one chemical analysis (C-1). Two additional cores were taken inshore of the dredging area, composited (C-2) and archived in the event that possible modifications to the marina design would require dredging of the boat basin closer to shore. The one composited analysis from the boat basin was analyzed for all PSDDA conventionals and chemicals of concern and the second composite from the inshore dredging area was analyzed for ammonia, total sulfides, PSDDA volatile organic compounds (VOCs) and mercury. These compounds were analyzed immediately to comply with their respective holding times. Sediments for all other PSDDA analyses for C-2 were archived in case the marina design is modified and these sediments need to be analyzed for the remaining PSDDA analyses.

3. Results showed all detected chemical levels were below PSDDA screening levels (SL's) and sediment quality standards (Chapter 173-204 WAC) for both samples. All organic compounds were undetected for C-1 except for four HPAHs: chrysene, fluoranthene, benzo(b)fluoranthene and pyrene. Concentrations for these organic compounds, however, were low and well below PSDDA SL's. For sample C-2, mercury was below the PSDDA SL and all PSDDA VOCs

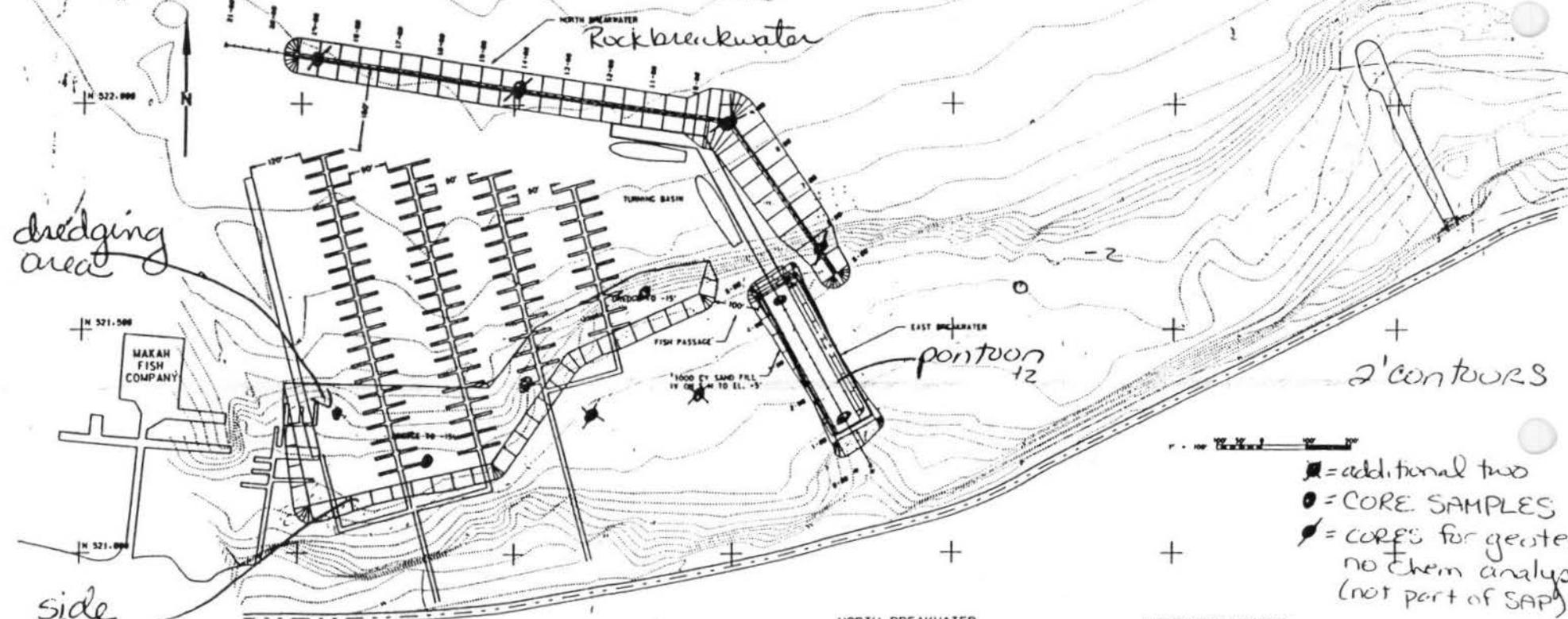
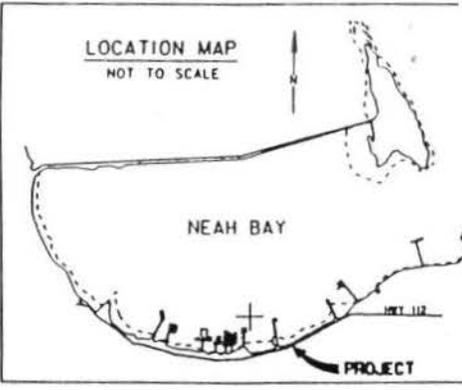
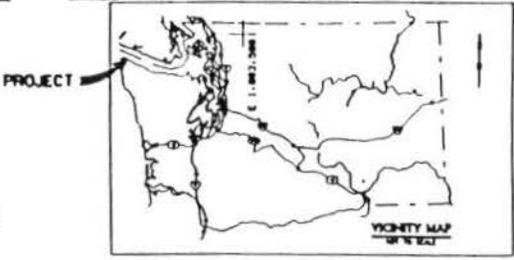
were undetected. C-2 dichlorobenzenes were included in the VOC analysis in order to achieve detection limits that were below the PSDDA SLs. The dichlorobenzene compounds were undetected in the C-2 sample. Most PSDDA chemicals of concern were undetected in the sediments from the proposed dredging location. The few chemicals of concern detected were well below PSDDA screening levels. Based on these chemistry results, biological testing of the sediments was not deemed necessary.

4. This memorandum documents the suitability of proposed dredged sediments for disposal within and around the pontoon and on the adjacent beach for mitigation. It does not constitute final agency approval of the project. A project report and public notice will be released for public comment. During the public comment period, the resource agencies will provide input on the overall project. A final decision will be made after full consideration of tribal, public and agency input and after an alternatives analysis is done under Section 404 (b)(1) of the Clean Water Act.

Concur:

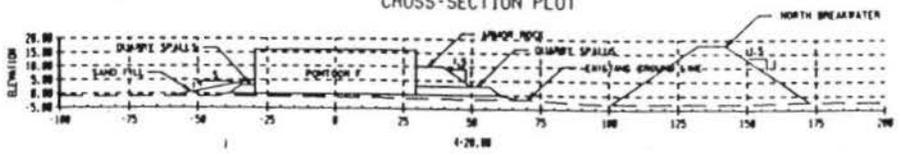
<u>9/20/93</u> Date	<u></u> Linda Cox Seattle District Corps of Engineers
<u>9/20/93</u> Date	<u></u> David R. Kendall Seattle District Corps of Engineers
<u>9/30/93</u> Date	<u></u> Justine Barton/John Malek EPA Region X
<u>9/28/93</u> Date	<u></u> Sandra Manning WA Dept. of Ecology

NEAH BAY

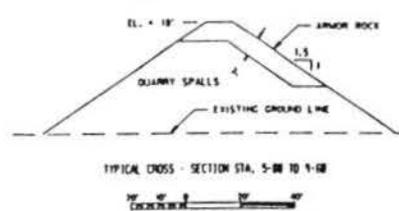


- = additional two
- = CORE SAMPLES
- ⊙ = CORES for geotec
no chem analysis
(not part of SAP)

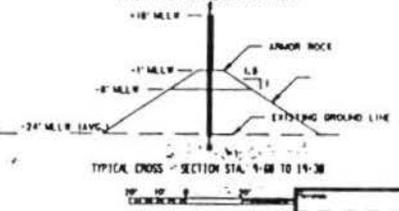
EAST BREAKWATER
CROSS-SECTION PLOT



NORTH BREAKWATER



NORTH BREAKWATER



NEAH BAY MARINA

NEAH BAY

2/11/19

NEALSON

REDUCED TO ONE OF FULL SIZE
U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
WAFLE, WASHINGTON

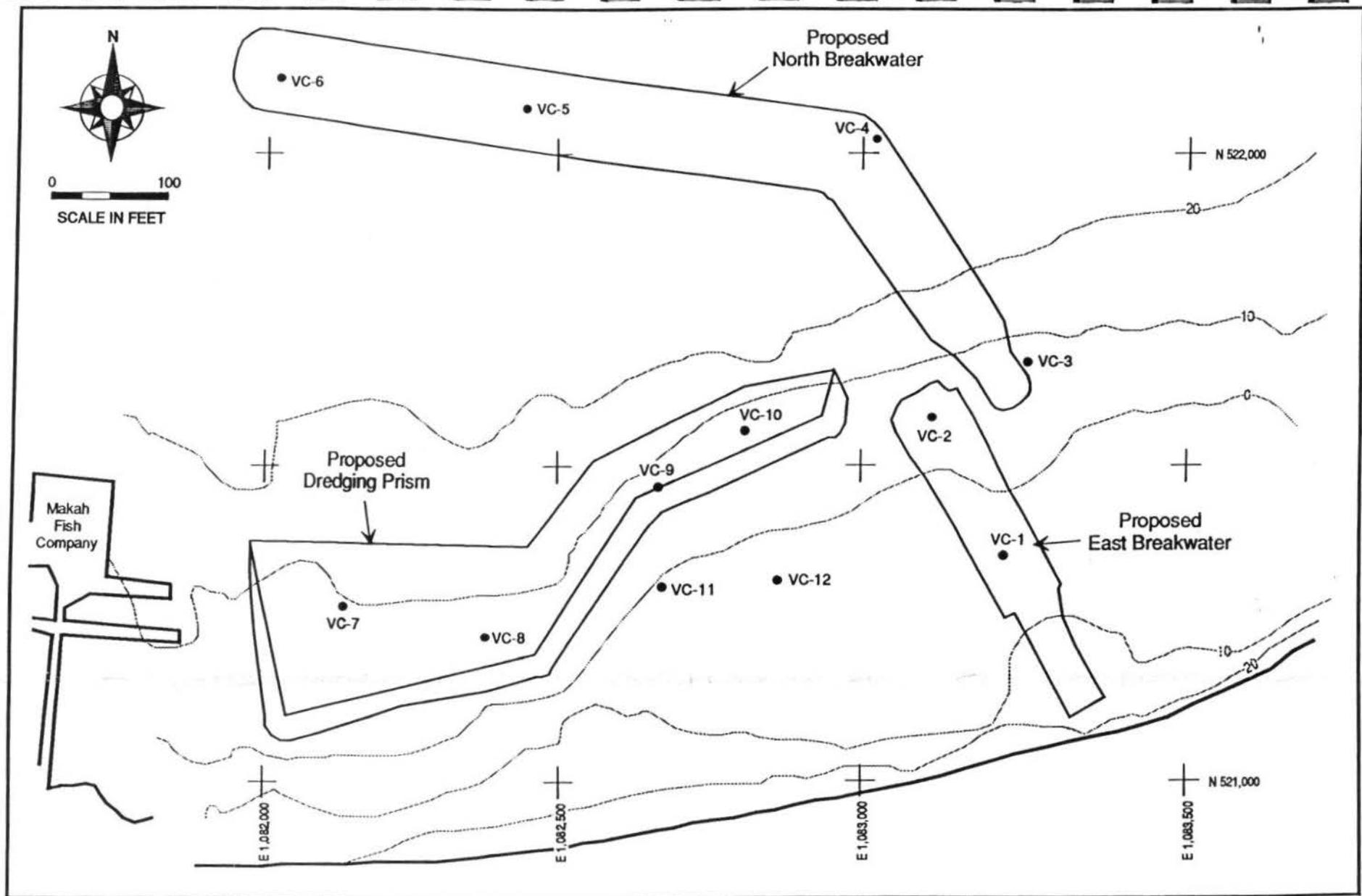


Figure 2-1. Sampling locations at the proposed marina site at Neah Bay, Washington.