CENWS-OD-TS **6 July 2001**
Dredged Material Management Office

MEMORANDUM FOR RECORD

SUBJECT: DETERMINATION OF THE SUITABILITY OF DREDGED MATERIAL TESTED UNDER DMMP EVALUATION PROCEDURES FOR THE OAK HARBOR MUNICIPAL PIER PROJECT (2001-2-0565) FOR DISPOSAL AT THE ROSARIO STRAIT OPEN WATER DISPOSAL SITE.

1. The City of Oak Harbor proposes to dredge approximately 144,500 cubic yards of material from an existing but unmaintained boat basin. This dredging is part of an overall project to expand an existing pier and construct a wave barrier as well as deepen the boat basin. The following summary reflects the DMMP 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. The ranking for this project is low-moderate, based on the lack of potential sources of contamination in the area and known historical uses of the site.

3. A sampling and analysis plan was completed for this project and approved by the DMMP agencies on 27 December 2000. Sampling for this project was performed on 31 January 2001.

SAP approval date	27 December 2000
Sampling date	31 January 2001
Data Report submittal date	8 June 2001
Recency determination date	31 January 2006 – 31 January 2008

4. Surface samples from eight locations were composited for two analyses. (C-1 and C-2). Samples were taken from eight locations and composited for 2 subsurface analyses (C-3 and C-4). No z-samples were taken. As shown in Table 1 of the data report, the cores taken did not reach the proposed depth of dredging of –12 feet MLLW plus one foot overdepth. Penetrations resulted in the dredging prism being sampled to a depth of –10.4 feet MLLW to –15.1 feet MLLW, with the majority being around –11 feet MLLW. The DMMP agencies do not anticipate heterogeneity exists at depth in the prism and feel that the slightly short cores are still representative of the dredging prism at depth.

5. There were no exceedances of 2001 DMMP screening levels. All detection limits were below screening level. Each composite was analyzed for porewater Tributyltin. TBT was detected in three of the four composites (C-1, C-2 and C-3) at levels well below the screening level.

6. The chemical analytical data were also compared to the State Sediment Management Standards. No chemicals exceeded SMS criteria. Based on this information, the DMMP agencies determined that the sediments from the Oak Harbor Municipal Pier project are chemically suitable for use in beneficial use projects. Sediment conventional data is included in Table 1.

7. In summary, the DMMP-approved sampling and analysis plan was followed, and quality assurance and quality control guidelines specified by the DMMP were followed. The data gathered were deemed sufficient and acceptable for regulatory decision-making under the DMMP program. Based on the results of the chemical testing, the consensus determination of the DMMP agencies is that all 144,500 cubic yards from the Oak Harbor Municipal Pier site are suitable for open-water disposal.

8. This memorandum documents the suitability of proposed dredged sediments for disposal at a DMMP open water disposal site or for beneficial use. It 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 and public input, and after an alternatives analysis is done under section 404 (b) 1 of the Clean Water Act.

Table 1
Sediment Conventional Parameters

Parameter	C-1	C-2	C-3	C-4
Total Solids (%)	72	69.8	70.9	69.9
Total Organic Carbon (%)	1.1	0.96	1.15	0.91
Bulk ammonia (mg/kg)	37.8	33.6	64.7	54.4
Total Sulfides (mg/kg)	236	339	68.9	154
Grain-size(%)				
Gravel	1	1	0	0
Sand	77	74	66	71
Silt	15	15	19	17
Clay	7	10	15	12

City of Oak Harbor
Municipal Pier
2001-2-00565

Concur:

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