

3 February 1997

MEMORANDUM FOR RECORD

SUBJECT: DETERMINATION OF THE SUITABILITY OF DREDGED MATERIAL TESTED UNDER PSDDA EVALUATION PROCEDURES FOR CITY OF BELLEVUE, MEYDENBAUER BAY STORMWATER OUTFALL FOR DISPOSAL AT THE ELLIOTT BAY OPEN WATER DISPOSAL SITE.

1. The City of Bellevue proposes to dredge the sandy material located near the Meydenbauer Bay stormwater outfall in Lake Washington. Initial estimates of volume were 2600 cubic yards. That volume was revised to 150 cubic yards. 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 the Elliott Bay open-water disposal site.
2. This project was ranked "high" 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 18 January 1996. Sampling for this project was initiated on 13 February 1996.

| | |
|-----------------------------|------------------|
| SAP Approval Date | 18 January 1996 |
| Sampling dates | 13 February 1996 |
| Data Report submittal date | December 1996 |
| Recency determination dates | NA |

4. One surface DMMU was characterized, with samples taken from two locations. Data from this characterization was not submitted to the PSDDA agencies. Additional samples were taken of the sandy material near the mouth of the outfall. Samples were taken within a two-meter radius of sample location 3, and were taken to a depth of approximately 0.5 meters. The samples were composited for one chemical analysis. The analysis area is marked M-1 on the attached map.
5. There were 14 exceedances of Dredging Year 1996 PSDDA screening levels and five exceedances of PSDDA maximum levels. The SL and ML exceedances are listed in Table 1. Due to the multiple ML exceedances, no biological testing was completed.

6. In summary, the data report states that PSDDA approved protocols and procedures were followed, and quality assurance/quality control guidelines specified in PSDDA were generally complied with. The full quality assurance data was not submitted to the PSDDA agencies. However, 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 material in the vicinity of the Meydenbauer Stormwater Outfall is not suitable for disposal at an open-water disposal site.

7. *This memorandum documents the suitability of proposed dredged sediments for disposal at a PSDDA open-water disposal site. 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

2/19/97
Date

13 FEB 97
Date

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DMMO file

Table 2. Sediment Conventional Parameters

| DMMU | Volume | Total Solids (%) | Total Organic Carbon (%) | Bulk Ammonia (mg/kg) | Total Sulfides (mg/kg) |
|------|--------|------------------|--------------------------|----------------------|------------------------|
| M-1 | 2600 | 59 | 0.039 | 16 | 32000 |

Table 1. Screening Level/Maximum Level Exceedances

| Parameters | Chemical Guidelines | | | M-1 |
|--------------------------------|---------------------|------|-------|-------|
| | SL | BT | ML | |
| 2-methylnaphthalene (Fg/kg) | 67 | | 670 | 110 |
| anthracene (Fg/kg) | 130 | | 1300 | 710 |
| acenaphthene (Fg/kg) | 63 | | 630 | 860 |
| fluorene (Fg/kg) | 64 | | 640 | 740 |
| phenanthrene (Fg/kg) | 320 | | 3200 | 4700 |
| Total LPAH (Fg/kg) | 610 | | 6100 | 7300 |
| Fluoranthene (Fg/kg) | 630 | 4600 | 6300 | 8400 |
| Pyrene (Fg/kg) | 430 | | 7300 | 5800 |
| Benzo(a)anthracene (Fg/kg) | 450 | | 4500 | 2100 |
| Chrysene (Fg/kg) | 670 | | 6700 | 3000 |
| Benzofluoranthenes (Fg/kg) | 800 | | 8000 | 4100 |
| Benzo(a)pyrene (Fg/kg) | 680 | | 6800 | 2300 |
| Indeno(1,2,3-cd)pyrene (Fg/kg) | 69 | | 5200 | 1600 |
| Dibenzo(a,h)anthracene (Fg/kg) | 120 | | 1200 | 860 |
| Benzo(g,h,i)perylene (Fg/kg) | 540 | | 5400 | 2200 |
| Total HPAH (Fg/kg) | 1800 | | 51000 | 30360 |
| Dibenzofuran (Fg/kg) | 54 | | 540 | 250 |
| Lead (mg/kg) | 66 | | 660 | 92 |
| Zinc (mg/kg) | 160 | | 1600 | 181 |

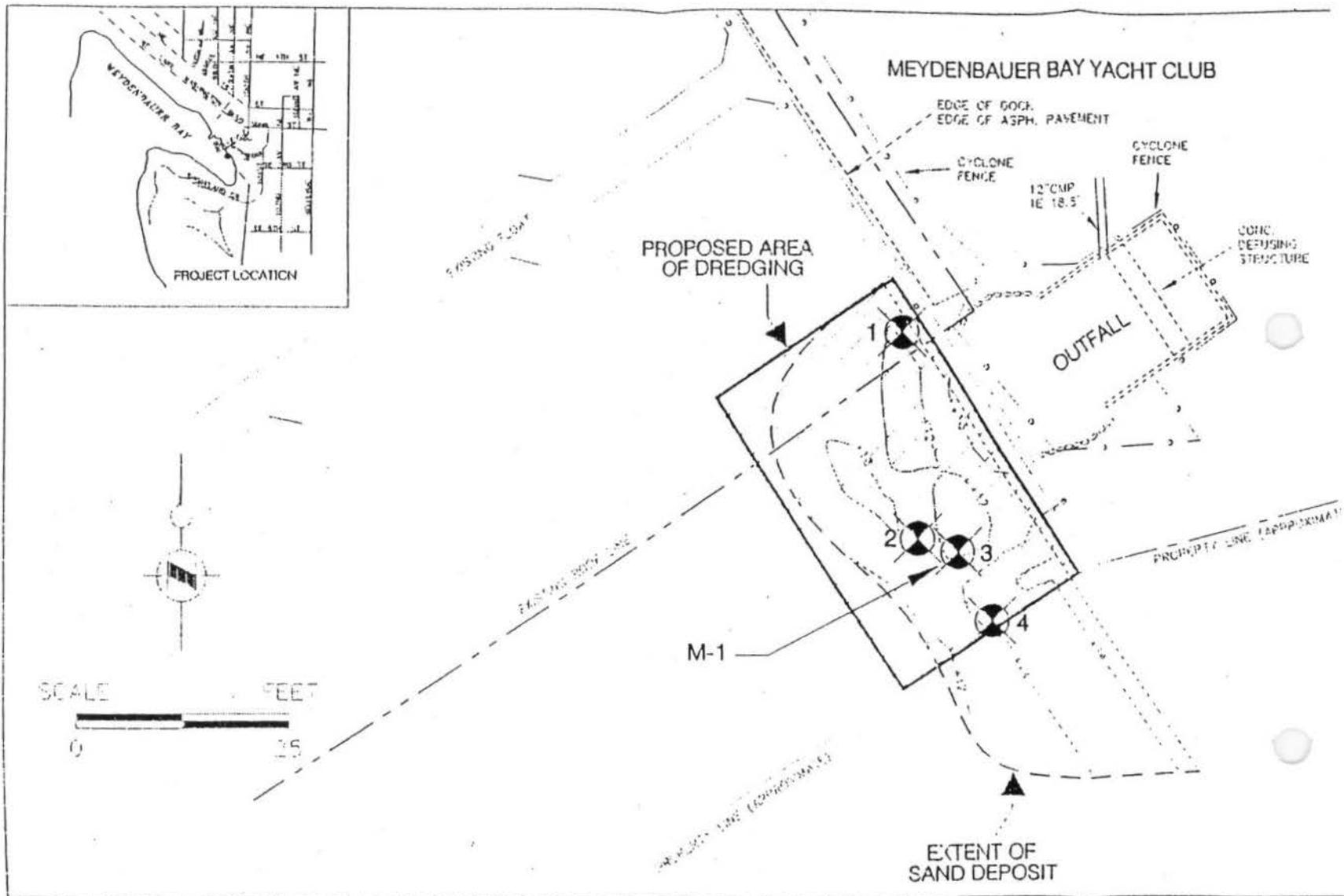


Figure 1 Meydenbauer Bay stormwater outfall sediment sampling locations.

