

# EBASCO

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Superfund Records Center

SITE: New Bedford

BREAK: 04.01

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SDMS DocID 46237

March 11, 1993

ARCS I 93-115

No Response Required

Ms. Gayle Garman  
U. S. Environmental Protection Agency  
Waste Management Division  
JFK Federal Building (HPS-CAN 2)  
Boston, MA 02203-2211

Subject: ARCS I - EPA CONTRACT NO. 68-W9-0034  
WORK ASSIGNMENT NO. 12-1L43  
NEW BEDFORD HARBOR - POST FS SUPPORT  
SELECTED REMEDY COSTS

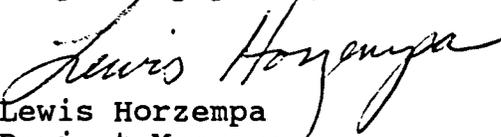
Dear Ms. Garman:

Attached please find the FS cost estimate which Ebasco has developed for EPA's selected remedy for the Estuary Lower Harbor and Upper Bay portions of the New Bedford Harbor site.

Included is a summary of the principal assumptions which have been made in developing the cost estimate.

If you have any questions, please contact me at (617) 451-1201.

Very truly yours,

  
Lewis Horzempa  
Project Manager

LH/clc  
/enclosure

cc: N. Barmakian (letter only)  
L. Seijido  
A. Fowler

FILE: ARCS PM 1.1

EBASCO SERVICES INCORPORATED

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ATTACHMENT A  
FEASIBILITY STUDY COST ESTIMATE  
ASSUMPTIONS FOR SELECTED REMEDY

The following assumptions have been used in developing the feasibility study cost estimate for the selected remedy for the Estuary, Lower Harbor and Upper Bay for the New Bedford Harbor site.

- Action levels of 10 ppm in the Estuary and 50 ppm in the Lower Harbor and Bay
- Dredging volumes of 412,100 yd<sup>3</sup> in the Estuary including footprint corrections of 75,400 yd<sup>3</sup> and 40,500 yd<sup>3</sup> for CDFs 1 and 1B, respectively. The dredge volume in the Lower Harbor is 31,000 yd<sup>3</sup> including a footprint correction of 17,000 yd<sup>3</sup> associated with the sheet pile wall developed by the Corps of Engineers. The dredge volume for the Buzzards Bay Region of the site is 28,000 yd<sup>3</sup>.\*\*
- The elevation of CDF 1 was raised by four feet to elevation 16 MLW to obtain the required storage capacity. CDF 1B remains at 12 MLW as presented in report 11 of the EFS.
- All CDFs include side wall lining.

\*\* The above dredge volumes are based on the 1990 FS.

Footprint correction for CDFs 1 and 1B are based on the "footprint" letter and memo dated 9/24/91 and 9/10/91. Footprint correction of 17,000 yd<sup>3</sup> for CDF 7 is based on a dredge depth of one foot and the 10.56 acre area of the facility.

**NEW BEDFORD HARBOR**

**COST ESTIMATE: SELECTED REMEDY  
DREDGE ESTUARY @ 10 ppm & LOWER HARBOR/BAY @ 50 ppm  
SHORELINE SEDIMENT DISPOSAL IN CDFs 1, 1b & 7**

ACTIVITY	COST
<b>I. DIRECT COSTS</b>	
A. Dredging	\$4,597,000
B. Water Treatment	\$3,731,000
C. CDF Construction	\$14,231,000
<b>DIRECT COST</b>	<b>\$22,559,000</b>
<b>II. INDIRECT COSTS</b>	
A. Health & Safety (@ 5%) Level D Protection [Activities: A, B & C]	\$1,128,000
B. Legal, Administration, Permitting (@ 6%)	\$1,354,000
C. Engineering (@ 10%)	\$2,256,000
D. Services During Construction (@ 10%)	\$2,256,000
E. Turnkey Contractor Fee (@ 15%)	\$3,384,000
<b>INDIRECT COST</b>	<b>\$10,378,000</b>
<b>SUBTOTAL COST</b>	<b>\$32,937,000</b>
<b>CONTINGENCY (@ 20%)</b>	<b>\$6,587,000</b>
<b>TOTAL CAPITAL COST</b>	<b>\$39,524,000</b>
<b>PRESENT WORTH COST – 1989 (@ 5% for 6 years)</b>	<b>\$33,435,000</b>
<b>O&amp;M COSTS (CDFs)</b> (present worth @ 5% for 30 years upon completion)	<b>\$906,000</b>
<b>MONITORING PROGRAM (present worth @ 5% for 30 years)</b>	<b>\$5,817,000</b>
<b>TOTAL COST – SELECTED REMEDY</b>	<b>\$40,158,000</b>

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