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CENED-PD-E

April 19, 1995

TO: Dave Dickerson

FROM: Mark Otis

SUBJECT: New Bedford Harbor
Hot Spot After Dredge Sediment Sampling

The approach being followed to confirm that dredging has reduced the PCB levels to less than 4,000 ppm involves randomly generating sample locations within each dredging area. The areas are then sampled when dredging is completed with composite samples analyzed for PCBs. The results represent conditions in the top 6 inches of sediment.

AREA H

Pre Dredge Condition: 5,598 ppm PCB (1 sample)

After Dredge: 104 ppm (composite representing 4 samples)
67 ppm (composite representing 3 samples)

Dredging completed in May 1994

AREA G

Pre Dredge Condition: PCB levels ranging from 34,334 ppm to 102,099 ppm in the top foot of sediment and 11,386 ppm to 54,000 ppm in the second foot.

After Dredge: The northern portion of the area (2 dredging lanes for a total width of approximately 90 feet) was dredged in May 1994. There were no pre dredge samples in this area. Two sediment core samples were taken at the completion of dredging and the results are shown below:

Sample 1	338 ppm (0-1')	8 ppm (1-2')
Sample 2	1,371 ppm (0-1')	42 ppm (1-2')

Sampling was conducted on 2 March 95 after the dredge had made 1 pass through the entire area. These results are shown below:

Composite #1	2,033 ppm	(represents 3 samples)
Composite #2	17,899 ppm	(represents 3 samples)
Composite #3	776 ppm	(represents 3 samples)
Composite #4	483 ppm	(represents 3 samples)
Composite #5	8,440 ppm	(represents 3 samples)
Composite #6	13,904 ppm	(represents 4 samples)

Areas represented by composite samples 2, 5 and 6 were then redredged. Samples were taken from the dredge on three occasions with the results shown below:

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Sample 1 8,297 ppm (represents 2 samples)
Sample 2 4,547 ppm (represents 2 samples)
Sample 3 1,742 ppm (represents 2 samples)

Sample areas 1 and 2 were then redredged.

AREA F

Pre Dredge Condition: 2 samples (23,140 ppm and 4,040 ppm)

After Dredge: Sample results from the 3/2/95 sampling effort are shown below:

composite 1 438 ppm
composite 2 2068 ppm

AREA E

Pre Dredge Condition: 3 samples (4,388 ppm, 5,876 ppm, 10,453 ppm)

After Dredge: Composite 1 1,074 ppm
Composite 2 333 ppm

AREA D

Pre Dredge Condition: 3 samples (12,932 ppm, 6,760 ppm, 8,560 ppm)

After Dredge: Sampling of western portion of area conducted on 9/19/94

composite #1 2,210 ppm (the 3 grab samples representing this composite were then analyzed with the results being 11,660 ppm, 4,649 ppm and 1,867 ppm)

composite #2 1,355 ppm

The area represented by composite sample #1 was then redredged.

The eastern portion of area D was to be sampled on 1/4/95. The sampling barge was out of position and the samples were actually taken in the western portion of the area. One composite sample had a PCB level above 4,000 ppm so the 3 grab samples represented were analyzed with the results being 5,855 ppm, 7,876 ppm and 367 ppm. This area was also redredged.

The eastern portion of the area was re-sampled on 3/14/95 and the results are shown below:

composite #1 983 ppm
composite #2 367 ppm