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NEW ENGLAND DISTRICT**
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**2007 DREDGE SEASON DATA SUBMITTAL
NEW BEDFORD HARBOR
REMEDIAL ACTION**
New Bedford Harbor Superfund Site
New Bedford, MA

January 2008

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DATA SUBMITTAL SUMMARY

The purpose of this 2007 Dredge Season Data Submittal is to provide documentation regarding key activities from the New Bedford Harbor Superfund Site 2007 field season. As directed by the U.S. Environmental Protection Agency (EPA) this submittal, similar to the 2006 Dredge Season Data Submittal, does not contain a text summary section; information is summarized in tabular or graphic format.

The following bullets will explain the significance or intended use of the various tables, figures and attachments that comprise the 2007 Dredge Season Data Submittal.

Tables 1 and 2 analyze the post dredge bathymetric survey data to quantify the dredge control.

Attachment A is composed of 21 figures; the figures are more easily described individually rather than as one attachment.

- **Figure A-1** illustrates the dredge areas proposed for dredging in the Addendum No. 3 to Execution Plan, New Bedford Harbor Remedial Action. The actual dredge area was modified prior to the commencement of dredging activities.
- **Figure A-2** depicts the areas dredged during the 2004-2007 field seasons; bathymetry is provided only for areas actually dredged.
- **Figures A-3 and A-4** show the Area G and Area H dredge areas, respectively, as proposed for the 2007 field season. The actual dredge areas differed slightly from those pictured due to revisions.
- **Figure A-5** shows the pipeline and booster pump locations from the dredge areas to the Area C desanding plant.
- **Figures A-6 through A-9** detail the final dredge areas, quantity of sediment targeted for removal, the target elevations and the “rod readings”. The rod readings are a tool the dredge engineer used to check the dredge elevation using a shore-based laser reference station.
- **Figures A-10 through A-14** are selected copies of daily dredge progress figures. The progress figure documents the daily dredging activities; the figure is based on GPS dredge tracking and dredge operator’s cut sheets.
- **Figures A-15 and A-16** are examples of periodic sediment elevation checks by Jacobs. The elevation checks are performed via rod and plate with GPS.

- [Figure A-17](#) compares actual post dredge sediment elevations to target sediment elevations in Area G.
- [Figure A-18](#) graphically depicts Area G post dredge bathymetry.
- [Figure A-19](#) compares actual post dredge sediment elevations to target sediment elevations in Area H.
- [Figure A-20](#) graphically depicts Area H post dredge bathymetry.

Attachment B is a brief description of major events associated with the 2007 field season, arranged chronologically by activity type.

Attachment C is a collection of analytical data from the 2007 field season. The seven tables characterize the various process waste or treatment streams.

Attachment D is a record of transportation and disposal activities for materials generated or disposed of during the 2007 field season. Copies of manifests and Certificates of Disposal are maintained in the project file.

Attachment E is a table of airborne PCB data which was collected during the 2007 field season to evaluate worker exposure.

Attachment F is a summary of PCB air sampling events and the associated Personal Exposure Tracking System (PETS) Curves.

Attachment G contains the mass balance tabulations and calculations. The data is based on actual quantities as well as calculated quantities and provides a way to account for process inputs process outputs. PCB mass removed calculations are also provided in Attachment G. This calculation utilizes production quantities and analytical data to estimate the mass of PCBs contained in the various solid waste streams generated during the 2007 field season. PCB mass removed tables for 2004 through 2006 are included for comparison.

Attachment H is a copy of the final “Sevenson Operational Monitoring Data Report”. This table was updated and distributed daily by Sevenson during the 2007 field season to track and illustrate progress.

Attachment I is a summarization of data collected for the purpose of process improvement. A project note summarizing 2007 iron testing activities conducted during the 2007 field season is attached. The iron testing was conducted to evaluate the ferric dosing regimen. Air Filtration Sampling Data for 2007 is included in the process improvement attachment as well; this data was used to evaluate the effectiveness of the air filtration equipment during the 2007 field season.

Attachment J is a summary of lessons learned and conclusions reached during the 2007 field season for the purpose of future process improvement.

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TABLES

Table 1
Area G Dredge Plan Compliance Review
New Bedford Harbor Superfund Site - 2007 Season

Under-Dredged Z Blocks

Cell	Dredged Elevation	Target Elevation	Under-Dredge Tolerance Elevation	Difference from Tolerance Elevation	ft ² of Z-Block	ft ³ of Material	yd ³ of Material
M5	-1.4	-2.0	-1.5	0.1	625	62.5	2.3
I11	-2.0	-2.6	-2.1	0.1	625	62.5	2.3
J18	-2.7	-3.3	-2.8	0.1	625	62.5	2.3
J19	-3.0	-3.6	-3.1	0.1	625	62.5	2.3
K19	-2.8	-3.4	-2.9	0.1	625	62.5	2.3
M19	-3.0	-3.7	-3.2	0.2	625	125	4.6
K20	-3.0	-4.0	-3.5	0.5	625	312.5	11.6
J21	-3.9	-5.0	-4.5	0.6	625	375	13.9
K21	-3.5	-4.4	-3.9	0.4	625	250	9.3
Total					1375		51
Total Volume Removed from Area G (Bathymetric Survey)							5,539
Volume of Material Under-Dredged							51
Under-Dredged Percent of Total Dredged Volume							0.9%
Dredge Plan Volume for the Same Area							6,037
Under-Dredged Percent of Dredge Plan Volume							0.8%

Note:
Elevations are referenced to NGVD 29 - ft
Volumes in cubic yards unless otherwise noted
ft² = square feet
ft³ = cubic feet
yd³ = cubic yards

Over-Dredged Z Blocks

Cell	Dredged Elevation	Target Elevation	Over-Dredge Tolerance Elevation	Difference from Tolerance Elevation	ft ² of Z-Block	ft ³ of Material	yd ³ of Material
L1	-2.4	-1.6	-2.1	0.3	625	187.5	6.9
N1	-2.6	-1.6	-2.1	0.5	625	312.5	11.6
O1	-2.1	-1.4	-1.9	0.2	625	125	4.6
P1	-2.4	-1.4	-1.9	0.5	625	312.5	11.6
Q1	-2.0	-1.4	-1.9	0.1	625	62.5	2.3
L2	-2.3	-1.6	-2.1	0.2	625	125	4.6
M2	-2.2	-1.5	-2.0	0.2	625	125	4.6
N2	-2.6	-1.5	-2.0	0.6	625	375	13.9
O2	-2.6	-1.5	-2.0	0.6	625	375	13.9
P2	-2.3	-1.3	-1.8	0.5	625	312.5	11.6
Q2	-2.2	-1.3	-1.8	0.4	625	250	9.3
J3	-2.3	-1.7	-2.2	0.1	625	62.5	2.3
N3	-2.8	-1.6	-2.1	0.7	625	437.5	16.2
O3	-2.3	-1.7	-2.2	0.1	625	62.5	2.3
J4	-2.1	-1.5	-2.0	0.1	625	62.5	2.3
K4	-2.1	-1.5	-2.0	0.1	625	62.5	2.3
N4	-2.8	-1.7	-2.2	0.6	625	375	13.9
N5	-2.8	-1.8	-2.3	0.5	625	312.5	11.6
N6	-2.6	-1.8	-2.3	0.3	625	187.5	6.9
O6	-2.4	-1.8	-2.3	0.1	625	62.5	2.3
N7	-2.6	-1.9	-2.4	0.2	625	125	4.6
O7	-2.8	-2.0	-2.5	0.3	625	187.5	6.9
Q7	-2.7	-2.0	-2.5	0.2	625	125	4.6
K8	-2.7	-1.9	-2.4	0.3	625	187.5	6.9
K9	-2.6	-2.0	-2.5	0.1	625	62.5	2.3
M9	-2.6	-2.0	-2.5	0.1	625	62.5	2.3
M10	-2.6	-2.0	-2.5	0.1	625	62.5	2.3
N10	-2.7	-2.0	-2.5	0.2	625	125	4.6
O10	-2.8	-2.1	-2.6	0.2	625	125	4.6
Q10	-2.6	-2.0	-2.5	0.1	625	62.5	2.3
N11	-3.2	-2.0	-2.5	0.7	625	437.5	16.2
O11	-2.9	-2.0	-2.5	0.4	625	250	9.3
P11	-2.8	-2.1	-2.6	0.2	625	125	4.6
M12	-3.3	-2.6	-3.1	0.2	625	125	4.6
N14	-3.5	-2.8	-3.3	0.2	625	125	4.6
Total					6375		236

Total Volume Removed from Area G (Bathymetric Survey)							5,539
Volume of Material Over-Dredged							236
Over-Dredging Percent of Total Dredged Volume							4.3%
Dredge Plan Volume for the Same Area							6,037
Over-Dredged Percent of Dredge Plan Volume							3.9%

Table 2
Area H Dredge Plan Compliance Review
New Bedford Harbor Superfund Site - 2007 Season

Under-Dredged Z Blocks

Cell	Dredged Elevation	Target Elevation	Under-Dredge Tolerance Elevation	Difference from Tolerance Elevation	ft ² of Z-Block	ft ³ of Material	yd ³ of Material
CC22	-5.6	-7.6	-7.1	1.5	625	937.5	34.7
CC23	-5.7	-7.7	-7.2	1.5	625	937.5	34.7
DD22	-5.9	-7.2	-6.7	0.8	625	500	18.5
DD23	-5.8	-6.8	-6.3	0.5	625	312.5	11.6
DD31	-6.1	-7.2	-6.7	0.6	625	375	13.9
DD39	-8.6	-9.2	-8.7	0.1	625	62.5	2.3
DD40	-8.4	-9.5	-9.0	0.6	625	375	13.9
DD41	-7.6	-8.4	-7.9	0.3	625	187.5	6.9
EE23	-6.1	-6.8	-6.3	0.2	625	125	4.6
EE37	-7.0	-7.7	-7.2	0.2	625	125	4.6
EE38	-6.9	-7.8	-7.3	0.4	625	250	9.3
EE39	-7.5	-9.3	-8.8	1.3	625	812.5	30.1
EE40	-7.6	-8.4	-7.9	0.3	625	187.5	6.9
EE41	-7.6	-8.4	-7.9	0.3	625	187.5	6.9
FF22	-5.5	-6.7	-6.2	0.7	625	437.5	16.2
FF23	-5.5	-6.3	-5.8	0.3	625	187.5	6.9
FF24	-4.9	-6.3	-5.8	0.9	625	562.5	20.8
FF39	-6.9	-7.6	-7.1	0.2	625	125	4.6
GG22	-5.6	-6.7	-6.2	0.6	625	375	13.9
GG24	-5.4	-6.2	-5.7	0.3	625	187.5	6.9
GG25	-5.2	-5.8	-5.3	0.1	625	62.5	2.3
GG39	-6.2	-6.9	-6.4	0.2	625	125	4.6
GG42	-6.4	-7.0	-6.5	0.1	625	62.5	2.3
HH22	-5.8	-6.7	-6.2	0.4	625	250	9.3
II26	-5.2	-5.8	-5.3	0.1	625	62.5	2.3
JJ30	-5.3	-6.0	-5.5	0.2	625	125	4.6
NN31	-4.7	-5.9	-5.4	0.7	625	437.5	16.2
NN32	-5.4	-6.0	-5.5	0.1	625	62.5	2.3
OO31	-5.2	-5.9	-5.4	0.2	625	125	4.6
OO32	-5.1	-5.9	-5.4	0.3	625	187.5	6.9
OO35	-5.9	-6.5	-6.0	0.1	625	62.5	2.3
PP31	-5.2	-5.8	-5.3	0.1	625	62.5	2.3
QQ26	-2.4	-5.4	-4.9	2.5	625	1562.5	57.9
RR22	-4.9	-5.5	-5.0	0.1	625	62.5	2.3
RR35	-4.9	-5.8	-5.3	0.4	625	250	9.3
RR40	-5.2	-5.8	-5.3	0.1	625	62.5	2.3
RR41	-5.0	-5.9	-5.4	0.4	625	250	9.3
UU25	-4.7	-5.3	-4.8	0.1	625	62.5	2.3
UU26	-4.7	-5.3	-4.8	0.1	625	62.5	2.3
UU27	-4.7	-5.3	-4.8	0.1	625	62.5	2.3
WW29	-3.2	-4.7	-4.2	1.0	625	625	23.1
XX29	-4.1	-4.7	-4.2	0.1	625	62.5	2.3
XX30	-4.0	-4.7	-4.2	0.2	625	125	4.6
ZZ32	-3.4	-4.2	-3.7	0.3	625	187.5	6.9
ZZ33	-3.5	-4.1	-3.6	0.1	625	62.5	2.3
ZZ41	-2.5	-3.4	-2.9	0.4	625	250	9.3
ZZ42	-1.2	-3.5	-3.0	1.8	625	1125	41.7
AAA40	-2.2	-3.3	-2.8	0.6	625	375	13.9
AAA41	-2.1	-3.4	-2.9	0.8	625	500	18.5
BBB38	-2.2	-2.8	-2.3	0.1	625	62.5	2.3
Total						14,625	542

Total Volume Removed from Area H (Bathymetric Survey)	17,768
Less Estimated Amount Under CDF on Western Side	760
Volume of Material Under-Dredged	542
Under-Dredged Percent of Total Dredged Volume	3.2%

Dredge Plan Volume for the Same Area	22,894
Under-Dredged Percent of Dredge Plan Volume	2.4%

Note:
Elevations are referenced to NGVD 29 - ft
Volumes in cubic yards unless otherwise noted
CDF = confined disposal facility
ft² = square feet
ft³ = cubic feet
yd³ = cubic yards

Over-Dredged Z Blocks

Cell	Dredged Elevation	Target Elevation	Over-Dredge Tolerance Elevation	Difference from Tolerance Elevation	ft ² of Z-Block	ft ³ of Material	yd ³ of Material
DD32	-8.1	-7.5	-8.0	0.1	625	62.5	2.3
DD33	-8.9	-7.7	-8.2	0.7	625	437.5	16.2
DD34	-9.0	-8.0	-8.5	0.5	625	312.5	11.6
DD42	-9.1	-8.4	-8.9	0.2	625	125	4.6
EE26	-6.4	-5.8	-6.3	0.1	625	62.5	2.3
EE27	-6.3	-5.3	-5.8	0.5	625	312.5	11.6
EE28	-6.3	-5.4	-5.9	0.4	625	250	9.3
EE29	-6.1	-5.4	-5.9	0.2	625	125	4.6
EE30	-6.2	-5.5	-6.0	0.2	625	125	4.6
EE31	-6.7	-5.5	-6.0	0.7	625	437.5	16.2
EE33	-7.0	-6.1	-6.6	0.4	625	250	9.3
EE34	-6.9	-6.2	-6.7	0.2	625	125	4.6
FF32	-7.0	-5.5	-6.0	1.0	625	625	23.1
FF33	-7.0	-5.6	-6.1	0.9	625	562.5	20.8
FF34	-6.7	-5.7	-6.2	0.5	625	312.5	11.6
FF35	-6.8	-6.2	-6.7	0.1	625	62.5	2.3
FF37	-6.8	-5.8	-6.3	0.5	625	312.5	11.6
GG32	-6.4	-5.5	-6.0	0.4	625	250	9.3
GG33	-6.6	-5.5	-6.0	0.6	625	375	13.9
HH33	-6.3	-5.5	-6.0	0.3	625	187.5	6.9
HH34	-6.2	-5.6	-6.1	0.1	625	62.5	2.3
HH36	-6.0	-5.1	-5.6	0.4	625	250	9.3
II39	-6.0	-5.3	-5.8	0.2	625	125	4.6
II40	-6.0	-5.4	-5.9	0.1	625	62.5	2.3
JJ23	-5.6	-5.0	-5.5	0.1	625	62.5	2.3
JJ24	-5.9	-5.0	-5.5	0.4	625	250	9.3
JJ33	-6.2	-5.3	-5.8	0.4	625	250	9.3
JJ34	-6.0	-5.4	-5.9	0.1	625	62.5	2.3
KK22	-6.1	-5.1	-5.6	0.5	625	312.5	11.6
KK23	-5.9	-4.9	-5.4	0.5	625	312.5	11.6
KK24	-5.8	-4.9	-5.4	0.4	625	250	9.3
KK30	-6.1	-5.4	-5.9	0.2	625	125	4.6
KK32	-6.2	-5.3	-5.8	0.4	625	250	9.3
KK33	-6.1	-5.4	-5.9	0.2	625	125	4.6
KK34	-6.1	-5.4	-5.9	0.2	625	125	4.6
KK35	-6.2	-5.5	-6.0	0.2	625	125	4.6
KK36	-6.3	-5.5	-6.0	0.3	625	187.5	6.9
KK39	-6.4	-5.8	-6.3	0.1	625	62.5	2.3
LL23	-5.5	-4.8	-5.3	0.2	625	125	4.6
LL24	-5.7	-4.9	-5.4	0.3	625	187.5	6.9
LL33	-6.1	-5.4	-5.9	0.2	625	125	4.6
LL34	-6.2	-5.5	-6.0	0.2	625	125	4.6
LL35	-6.2	-5.5	-6.0	0.2	625	125	4.6
LL36	-6.3	-5.5	-6.0	0.3	625	187.5	6.9
LL37	-6.3	-5.6	-6.1	0.2	625	125	4.6
LL42	-6.3	-5.5	-6.0	0.3	625	187.5	6.9
MM23	-5.8	-4.9	-5.4	0.4	625	250	9.3
MM25	-6.2	-5.3	-5.8	0.4	625	250	9.3
MM26	-6.0	-5.3	-5.8	0.2	625	125	4.6
MM27	-5.9	-5.3	-5.8	0.1	625	62.5	2.3
MM33	-6.0	-5.4	-5.9	0.1	625	62.5	2.3
MM37	-6.3	-5.6	-6.1	0.2	625	125	4.6
MM38	-6.3	-5.6	-6.1	0.2	625	125	4.6
NN27	-5.4	-4.8	-5.3	0.1	625	62.5	2.3
OO25	-5.6	-4.7	-5.2	0.4	625	250	9.3
OO26	-5.5	-4.7	-5.2	0.3	625	187.5	6.9
OO27	-5.4	-4.7	-5.2	0.2	625	125	4.6
OO39	-6.1	-5.5	-6.0	0.1	625	62.5	2.3
PP24	-5.7	-5.1	-5.6	0.1	625	62.5	2.3
PP25	-5.8	-4.7	-5.2	0.6	625	375	13.9
PP26	-5.7	-4.7	-5.2	0.5	625	312.5	11.6
PP27	-5.8	-4.7	-5.2	0.6	625	375	13.9
PP28	-5.7	-4.7	-5.2	0.5	625	312.5	11.6
PP29	-5.6	-4.8	-5.3	0.3	625	187.5	6.9
PP34	-6.1	-5.5	-6.0	0.1	625	62.5	2.3
PP37	-6.2	-5.5	-6.0	0.2	625	125	4.6
QQ23	-5.8	-5.1	-5.6	0.2	625	125	4.6
QQ24	-5.5	-4.6	-5.1	0.4	625	250	9.3
QQ25	-5.4	-4.6	-5.1	0.3	625	187.5	6.9
QQ28	-5.5	-4.7	-5.2	0.3	625	187.5	6.9
QQ35	-6.2	-5.4	-5.9	0.3	625	187.5	6.9
QQ38	-6.5	-5.9	-6.4	0.1	625	62.5	2.3
RR27	-5.2	-4.6	-5.1	0.1	625	62.5	2.3
TT38	-5.4	-4.5	-5.0	0.4	625	250	9.3
TT39	-5.4	-4.5	-5.0	0.4	625	250	9.3
TT40	-5.2	-4.5	-5.0	0.2	625	125	4.6
Total						14,688	544

Total Volume Removed from Area H (Bathymetric Survey)	17,768
Less Estimated Amount Under CDF on Western Side	760
Volume of Material Over-Dredged	544
Over-Dredging Percent of Total Dredged Volume	3.2%

Dredge Plan Volume for the Same Area	22,894
Over-Dredged Percent of Dredge Plan Volume	2.4%

ATTACHMENT A

Dredge Planning and Progress Figures

ATTACHMENT B

Summary of 2007 Activities

Attachment B
Summary of 2007 Activities
New Bedford Harbor Superfund Site - 2007 Season

Date	Activity	Summary
Revise/Submit Planning Documents		
Draft April 2004, Final July 2004, Addendum No. 1 May 2005 Addendum No. 2 April 2006 Addendum No. 3 March 2007	Prepare and submit revised plan.	Preparation and submittal of <i>Addendum No. 3 to the Execution Plan</i> outlining the remediation of the New Bedford Harbor Superfund Site to be accomplished for the 2007 field season.
Draft April 2004, Final September 2004 Revised August 2007	Prepare and submit revised plan.	Preparation and submittal of Site Specific Safety & Health Plan
Draft May 2004, Final September 2004 Revised June 2007	Prepare and submit revised plan.	Preparation and submittal of Emergency Response Contingency Plan
Draft May 2004, Final August 2004, Revised August 2005, Revised December 2005 Revised June 2007	Prepare and submit revised plan.	Preparation and submittal of Field Sampling Plan
Draft July 2004, Final November 2004, Revised August 2005, Revised May 2007	Prepare and submit revised plan.	Preparation and submittal of Regulatory Compliance Plan
Draft May 2007 Final June 2007	Prepare and submit plan	Preparation and submittal of Fish Migration Impact Plan
Submittal of Initial Task Order/Subsequent Modifications		
2/9/2007	Modification 21	Tasks under Modification 21 were for the following: Planning and sampling activities associated with Aerovox Facility.
3/15/2007	Modification 22	Tasks under Modification 22 were for the following: Change POP to 6/30/2007; deobligate funds and move in order to open TO 5.
6/5/2007	Modification 23	Tasks under Modification 23 were for the following: Increase O&M funding for the period of 7/1/2007 - 12/31/2007.
10/17/2007	Modification 24	Tasks under Modification 24 were for the following: Incentive fee for project 03.
7/10/2007	D0006	Tasks under TO 6 were for the following: Original funding TO 6 and Project 35BG0601 (Tasks 1, 2, 3 - The mobilization, demobilization, T&D costs associated with the first 20 days of dredging in 2007 and Area D Settlement Repairs).

Attachment B
Summary of 2007 Activities
New Bedford Harbor Superfund Site - 2007 Season

Date	Activity	Summary
Submittal of Initial Task Order/Subsequent Modifications (Continued)		
8/21/2007	Modification 1	Tasks under Modification 1 were for the following: Task 4 - an additional 20 days of processing and the associated T&D of dredged material; Task 10 - T&D of 350 cy of TSCA Debris and 100 cy of Non-TSCA Coarse material from Area C; and FCN 51 - placement of coarse grained material from Area C's DDA into CDF cell 1.
9/12/2007	Modification 2	Tasks under Modification 2 were for the following: Task 8 - An additional 5 days of dredging.
10/5/2007	Modification 3	Tasks under Modification 3 were for the following: Additional T&D associated with higher production rates, FCNs 47, 48, 50, 52, 54 (GPS replacement, sampling prior to debris removal, Area D Settlement Area Repair, OU3 Bathymetric Survey and 2 week rental of GPS).
11/6/2007	Modification 4	Tasks under Modification 4 were for the following: No cost POP extension.
11/30/2007	Modification 5	Tasks under Modification 5 were for the following: 35BG0602 original (off season work and O&M for the first half of 2008).
Mobilization Activities		
July/August 2007	Mobilization of Equipment and Personnel Associated with 2007 Dredging Activities	The 2007 remobilization activities included the installation of sheet piles in Dredge Areas G and H, mobilizing the dredges and associated dredge pipelines, staging the combined booster pump/ferric injection system at Aerovox, and the staging of a second booster pump station at Manomet Street. At Area D, the major activities were the rebuilding of the conveyor belts at the filter presses and the replacement of granular activated carbon in air filtration vessel and water treatment GAC vessels. The remainder of the mobilization activities involved general maintenance and repair activities.
July/August 2007	Booster Pumps and Ferric System Setup	Assemble combination of booster pump and ferric sulfate injection system at Aerovox and the associated booster pump station at Manomet Street. Installed in-line grinder 8/2/07. Preparatory meeting (7/24/07). Quality Control Report (QCR #39 Ferric Injection Pump)
July/August 2007	Service Test Pipelines Preparation and Shakedown.	Preparatory meeting (7/24/07), Initial Inspection (7/30/07) and Follow-up Inspection & Quality Control Reports (QCR #37 - Pipeline Re-assembly and QCR #34 - Scale Inspections 2007, and QCR #38 - Pipeline Service Test).
August 2007	Transportation & Disposal Preparation	Preparatory meeting (8/2/07), liner training (8/2/07), rail worker training (8/3/07).

Attachment B
Summary of 2007 Activities
New Bedford Harbor Superfund Site - 2007 Season

Date	Activity	Summary
Dredging and Associated Activities		
7/25 - 10/23/2007	Area D bulkhead repairs.	Preparatory meeting (7/18/07), remove asphalt (7/27/07), drill concrete and set rebar (8/2/07), pour concrete (8/13/07), complete drainage trench and re-pave (10/23/07).
8/2/2007	Initiated debris removal activities.	Mobilized scows, flexi-floats, excavator with add-a-stick and debris rake.
8/9/2007	Initiated dredging activities in the southern dredge area, Dredge Area H, primarily Dredge Management Unit-11 (DMU-11) also included DMU-9, and DMU-10.	Waste water treatment plant on-line (8/1/07). Begin pumping mud 8/8/07, begin full scale dredging 8/9/07. QCR #41 dredge plan compliance. Post dredge harbor elevation checks performed regularly.
8/16/2007	Initiate loading of Rail Cars with Filter Cake at Area D	First railcar loaded with filter cake.
8/17/2007	Initiated dredging activities in the northern Dredge Area G (primarily MU-102 (MF), and DMU-1.	Dredging of Area G partially completed during 2007 season. (see Figure A-19)
9/26/2007	Debris removal activities were completed in the 2007 Dredge Footprint.	On 9/26/07, debris removal activities in the active dredge areas were completed for the 2007 season, portions of Area G not completed. In addition, at the direction of the EPA and NAE, debris removal activities were conducted on the eastern boundary of proposed CDF B, along the western boundary of Dredge Area H.
September	Sand and coarse materials were transferred to Cell #1 at Area C	During this period, coarse material generated during the 2005, 2006, and 2007 dredging seasons and stockpiled in the DDA was placed in Cell #1 at Area C and covered with approximately 6 inches of clean dense grade.
10/4 - 10/18/2007	Transportation and Disposal of Debris from Area C DDA	During this period, H & S, the subcontracted transportation and disposal subcontractor, removed approximately 175 tons of debris, oil booms and other dredging generated waste that was stored at the Area C DDA. The debris was disposed of in the Romulus landfill as TSCA material.
8/8 - 10/4/2007	Completed the first 40 days of Dredging	Dredging activities completed under Modifications 15 and 17, which each included 20 days of dredging.
10/15 - 10/12/2007	Completed the 2007 Dredge Season	Dredging activities completed under Modification 19.
Air Monitoring Activities		
Not Conducted in 2007	Pre-Dredge Background Sampling	In 2007 pre-dredge sampling activities were not conducted.
8/20-21/2007	1st Round of Monthly Air Sampling	Air samples collected per site Sampling and Analysis Plan. Seven samples collected in first round. Preparatory Meeting (8/2/07), Initial Inspection 8/20/07, and the follow-up Inspection Quality & Control Report (QCR #26 - Air Sampling Audit).
9/17-18/2007	2nd Round of Monthly Air Sampling	Air samples were collected from seven sampling locations.
11/8-9/2007	Post Dredge 3rd Round of Air Sampling	Air samples were collected from six sampling locations.

Attachment B
Summary of 2007 Activities
New Bedford Harbor Superfund Site - 2007 Season

Date	Activity	Summary
Bathymetric Survey		
5/16-17/07	Pre-Dredge Survey in Dredge Areas G and H	Pre-dredge survey conducted.
6/22/2007	Pre-Dredge Survey in Dredge Areas G and H	Additional pre-dredge survey performed.
8/19/2007	Progress survey in Dredge Area H	Survey conducted by Apex. Preparatory Meeting (7/25/07).
8/25/2007	Progress survey in Dredge Areas G and H	Survey conducted by Apex.
8/31/2007	Progress survey in Dredge Area H	Survey conducted by Apex.
9/8/2007	Progress survey in Dredge Areas G and H	Survey conducted by Apex.
9/15/2007	Progress survey in Dredge Areas G and H	Survey conducted by Apex.
9/22/2007	Progress survey in Dredge Areas G and H	Survey conducted by Apex.
9/29/2007	Progress survey in Dredge Areas G and H	Survey conducted by Apex.
10/6/2007	Progress survey in Dredge Area H	Survey conducted by Apex.
10/13/2007	Post Dredge Survey in Dredge Area G	Survey conducted by Apex.
11/1/2007	Post Dredge Survey in Dredge Area H	Survey conducted by Apex.
Winterization Activities		
10/13-10/25/07	Winterization and Demobilization	Demobilization and winterization activities were completed for all operations. Preparatory Meeting (10/11/07). Completed 10/25/07.

CDF = confined disposal facility

DDA = dredge disposal area

EPA = U.S. Environmental Protection Agency

FCN = field change notice

GAC = granular activated carbon

NAE = U.S. Army Corps of Engineers - New England District

O&M = operations and maintenance

POP = period of performance

QCR = quality control report

T&D = transportation and disposal

TSCA = Toxic Substances Control Act

ATTACHMENT C

Sample Analytical Summary Tables

CBI

ATTACHMENT D

Transportation and Disposal Reports

CBI

CBI

CBI

CBI

CBI

CBI

ATTACHMENT E

NBH Occupational PCB Exposure Evaluation for 2007 Season

Table E-1
NBH Occupational PCB Exposure Evaluation for 2007 Season
New Bedford Harbor Superfund Site - 2007 Season

Location	Date Sampled	Results (mg/m ³) ⁽¹⁾	12-Hour TWA (mg/m ³) ^{(2), (3)}	Results (ng/m ³) ⁽⁴⁾	% of 12-Hour TWA
Dredge	8/16/2007	0.0020	0.375	2000	0.53
	8/23/2007	0.0024	0.375	2400	0.64
	8/30/2007	0.0021	0.375	2100	0.56
	9/6/2007	0.0019	0.375	1900	0.51
	9/13/2007	0.0029	0.375	2900	0.77
	9/20/2007	0.0026	0.375	2600	0.69
	9/27/2007	0.0036	0.375	3600	0.96
	10/4/2007	0.0019	0.375	1900	0.51
10/11/2007	0.0023	0.375	2300	0.61	
Excavator - Debris Removal	8/16/2007	0.0019	0.375	1900	0.51
	8/23/2007	0.0023	0.375	2300	0.61
	8/30/2007	0.0030	0.375	3000	0.80
	9/6/2007	0.0020	0.375	2000	0.53
	9/13/2007	0.0018	0.375	1800	0.48
	9/20/2007	0.0037	0.375	3700	0.99
	9/27/2007	0.0027	0.375	2700	0.72
	10/4/2007	0.0026	0.375	2600	0.69
10/11/2007	N/A ⁽⁵⁾	0.375	N/A	N/A	
Dewatering Mix Tank	8/16/2007	0.0071	0.375	7100	1.89
	8/23/2007	N/A	0.375	N/A	N/A
	8/30/2007	0.0035	0.375	3500	0.93
	9/6/2007	0.0025	0.375	2500	0.67
	9/13/2007	0.0026	0.375	2600	0.69
	9/20/2007	0.0036	0.375	3600	0.96
	9/27/2007	0.0020	0.375	2000	0.53
	10/4/2007	0.0060	0.375	6000	1.60
10/11/2007	0.0023	0.375	2300	0.61	
Filter Press	8/16/2007	N/A	0.375	N/A	N/A
	8/23/2007	N/A	0.375	N/A	N/A
	8/30/2007	0.0064	0.375	6400	1.71
	9/6/2007	0.0035	0.375	3500	0.93
	9/13/2007	0.0030	0.375	3000	0.80
	9/20/2007	0.0046	0.375	4600	1.23
	9/27/2007	0.0041	0.375	4100	1.09
	10/4/2007	0.0101	0.375	10100	2.69
10/11/2007	0.0034	0.375	3400	0.91	
Desanding	8/16/2007	N/A	0.375	N/A	N/A
	8/23/2007	N/A	0.375	N/A	N/A
	8/30/2007	0.0024	0.375	2400	0.64
	9/6/2007	0.0041	0.375	4100	1.09
	9/13/2007	0.0033	0.375	3300	0.88
	9/20/2007	0.0036	0.375	3600	0.96
	9/27/2007	0.0040	0.375	4000	1.07
	10/4/2007	0.0029	0.375	2900	0.77
10/11/2007	0.0039	0.375	3900	1.04	

Notes:

- (1) mg/m³ = milligrams per cubic meter
- (2) TWA = Time Weighted Average Exposure Limit
- (3) TWA adjusted for 12-hour shift
- (4) ng/m³ = nanograms per cubic meter
- (5) N/A = not applicable

ATTACHMENT F

Ambient Air Monitoring Information



Y:\NHBP\Projects\3358\0920\080108\Aerial\CGIS\2007_ambient_sampling_stations.mxd

<p>Legend</p> <p>Ambient Air Sampling Locations</p> <p> Sample Station</p>	<p>Aerial Photography MASSGIS 2005</p>		<p>JE JACOBS</p> <p>2007 Ambient Air Sampling Station Locations</p> <p>New Bedford Harbor Superfund Site</p> <p>NAME: croberts DATE: 1/8/2008</p>
<p>0 750 1,500</p> <p>————— Feet</p> <p>1:18,000</p>		<p>Figure F-1</p>	

**Table F-1
Ambient Monitoring Program - Total Detectable PCBs (Homologues) in Air
New Bedford Harbor Superfund Site - 2007 Season**

	Station 24	Station 55	Station 25	Station 42	Station 46	Station 47	Station 48	Station 49	Station 50	Station 51	Station 52	Station 53	Station 56	Blank	
Sampling ⁽¹⁾ Period	Aerovox ⁽²⁾ (ng/m ³)	Aerovox West Upwind (ng/m ³)	Cliftex (ng/m ³)	Nstar (ng/m ³)	Coffin Avenue (ng/m ³)	Area C Downwind (ng/m ³)	Area C ⁽³⁾ Crosswind (ng/m ³)	Area C Downwind (ng/m ³)	Area D Downwind (ng/m ³)	Area D Downwind (ng/m ³)	Area D (ng/m ³)	Dredge (ng/m ³)	Acushnet Park (ng/m ³)	(ng/m ³) Sample	Comments
2005 Events															
8/10 to 8/11	216	42.1	103	25.9	37.2	NS ⁽⁴⁾	NS	29.3	NS	NS	21.3	NS	49.9	0.32	
Round 1 2005		44.1													Field Duplicate
9/14 to 9/15	1,490	37.6	58.2	22.5	99.8	NS	14.9	83.6	0.52	NS	NS	1,280	102	0.26	
Round 2 2005															No Duplicate Sample
9/22 to 9/23	178	2.64	35.2	83.3	115	NS	19.1	97	0.26	NS	NS	780	23.9	0.54	
Round 3 2005							18.8								Field Duplicate
9/28 to 9/29	383	87	104	5.28	124	NS	17.3	44.2	24.2	NS	NS	391	77.9	1.16	
Round 4 2005															NAE Duplicate ⁽⁷⁾
10/5 to 10/6	1,822	222	251	119	130	NS	60.1	114	81.7	NS	NS	6,315	180	0.96	
Round 5 2005		1708													Field Duplicate
10/27 to 10/28	15.4	3.97	NA ⁽⁵⁾	32.3	2.06	NS	4.61	12.3	0.01	NS	NS	505	2.73	0.42	
Round 6 2005															NAE Duplicate ⁽⁷⁾
11/17 to 11/18	15.9	0.12	0.12	63.6	0.14	NS	0.139	3.71	NA ⁽⁶⁾	NS	NS	913	3.76	1.73	
Round 7 2005		14.9													Field Duplicate
12/28 to 12/29	83.2	10.8	10.9	21.4	65.1	7.42	NS	NS	NS	2.18	NS	NS	13.5	0.33	
Round 8 2005															NAE Duplicate ⁽⁷⁾
2006 Events															
8/30 to 8/31	1,629	NS	176	NS	70.4	39.2	NS	NS	NS	67.3	NS	2,336	NS	1.57	
Round 1 2006		1,387													Field Duplicate
10/4 to 10/6	2,357	NS	451 ⁽⁸⁾	NS	108	NS	NS	157	NS	NS	197	13,430	NS	6.65	
Round 2 2006															NAE Duplicate ⁽⁷⁾
11/18 to 11/19	41.1	NS	0.14	NS	4.05	NS	NS	81.4	2.6	NS	NS	NS	NS	0.74	
Round 3 2006		0.25													Field Duplicate
2007 Events															
8/20 to 8/21	282	NS	147	19.2	36.1	46.9	NS	NS	36.7	NS	NS	138	NS	1.81	
Round 1 2007		291													Field Duplicate
9/17 to 9/18	176	NS	120	16.3	21.4	57.1	NS	NS	48.7	NS	NS	130	NS	1.66	
Round 2 2007															NAE Duplicate ⁽⁷⁾
11/8 to 11/9	19.7	NS	20.2	15.7	1.86	9.29	NS	NS	NS	4.39	NS	NS	NS	0.376	
Round 3 2007		19.4													Field Duplicate

Notes:

⁽¹⁾ Sampled and analyzed using EPA Method TO-10A (modified for low flow).

⁽²⁾ All results reported for 24-hour time-weighted average in nanograms per cubic meter of air (ng/m³).

⁽³⁾ Station 48 was a cross-wind location for the 2004 and 2005 season and is no longer sampled.

⁽⁴⁾ NS = not sampled.

⁽⁵⁾ NA = not analyzed, sample tube for Station 25 was broken during transport.

⁽⁶⁾ NA = not analyzed, sample tube for Station 50 was broken during analysis preparation.

⁽⁷⁾ Duplicate sent to USACE laboratory, no results provided.

⁽⁸⁾ During the first day of sampling in 2006, the duplicate sample was to be collected at Station 25. However, one of the two sampling pumps failed at Station 25, and neither sample were not submitted for analysis. Therefore, the sample and associated duplicate sample were collected on the following day from Station 25 and submitted for analysis.

Air Sampling Status Reports (PETS Curves)

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 24 Aerovox
Exposure Budget Slope (EBS) = 344 nanograms per cubic meter per day (ng/m³-day)

Collection Date: 11/30/2007

Construction Activity: The 2007 dredging activities were initiated on August 7, 2007 and demobilization activities were completed on October 25, 2007.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

Summary of This Sampling Period:

The results from the Foster Wheeler, Baseline Ambient Air Sampling program (June 1999 through May 2000) were used to assign background concentrations for each air sampling location. For Station 24 Aerovox, the Foster Wheeler quarterly average ambient air PCB concentrations for the June 1999 through May 2000 baseline sampling were used as background concentrations. These background concentrations were used to project the PCB concentrations during for the inactive field times from 11/12/02 through 9/8/04, for the period from 12/4/04 through 8/10/05, from 12/28/05 through 8/15/06, and from 11/19/06 through 8/6/07 to close the recent inactive field season. In addition, to better simulate the 2006 dredging season, the ambient air concentrations from the August 31, 2006 sampling event were used as the concentrations detected at Station 24 Aerovox from August 16, 2006 (the start of dredging activities). To better simulate the 2007 dredging season, the ambient air concentrations from the August 21, 2007 sampling event were used as the concentrations detected at Station 24 Aerovox from August 7, 2007 (the start of dredging activities).

Coordinating the sampling date with the start of dredging better simulates the ambient air PCB concentrations present at Station 24 Aerovox during the active dredging season. For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis. However, since monthly sampling was conducted in 2006, and the first 2006 sampling event was conducted two weeks after the start of dredging, this new variation of the PETs curve was used. Also, the background concentrations were projected to be at background levels at Station 24 Aerovox on October 19, 2006, which is the day after the 2006 dredging activities were completed. For the 2007 season, the PCB concentrations were projected to be at background levels at Station 24 Aerovox on October 13, 2007, which is the day after the 2007 dredging activities were completed. These changes in the background concentrations and associated active dredging concentrations better match the actual 2006 and 2007 dredging activities. No triggers were identified, therefore, no action is required.

Home Sheet

Monitoring Station		24 Aerovox
Exposure Budget Slope	[ng/m ³ -day]	344
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	75
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limits		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

**Sample Results, Calculated Budget and Exposure Values
24 Aerovox Location**

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaining	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	67	67.00	67.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	67	67.00	67.00	6192	6192	1206.0	1,206.0	19.5%	19.5%
3	12/1/2002	1	19	9476	32	49.50	66.08	344	6536	49.5	1,255.5	14.4%	19.2%
4	2/28/2003	89	108	9387	32	32.00	38.00	30616	37152	2848.0	4,103.5	9.3%	11.0%
5	5/31/2003	92	200	9295	76	54.00	45.36	31648	68800	4968.0	9,071.5	15.7%	13.2%
6	8/31/2003	92	292	9203	130	103.00	63.52	31648	100448	9476.0	18,547.5	29.9%	18.5%
7	11/30/2003	91	383	9112	67	98.50	71.83	31304	131752	8963.5	27,511.0	28.6%	20.9%
8	2/28/2004	90	473	9022	32	49.50	67.58	30960	162712	4455.0	31,966.0	14.4%	19.6%
9	5/31/2004	93	566	8929	76	54.00	65.35	31992	194704	5022.0	36,988.0	15.7%	19.0%
10	8/31/2004	92	658	8837	130	103.00	70.61	31648	226352	9476.0	46,464.0	29.9%	20.5%
11	9/8/2004	8	666	8829	67	98.50	70.95	2752	229104	788.0	47,252.0	28.6%	20.6%
12	9/9/2004	1	667	8828	1024	545.50	171.66	344	229448	545.5	47,797.5	158.6%	20.8%
13	9/14/2004	5	672	8823	1449	1236.50	80.33	1720	231168	6182.5	53,980.0	359.4%	23.4%
14	9/23/2004	9	681	8814	588	1018.50	92.73	3096	234264	9166.5	63,146.5	296.1%	27.0%
15	9/27/2004	4	685	8810	9557	5072.50	121.81	1376	235640	20290.0	83,436.5	1474.6%	35.4%
16	10/19/2004	22	707	8788	559	5058.00	275.41	7568	243208	111276.0	194,712.5	1470.3%	80.1%
17	11/5/2004	17	724	8771	578	568.50	282.29	5848	249056	9664.5	204,377.0	165.3%	82.1%
18	12/3/2004	28	752	8743	30	304.00	283.10	9632	258688	8512.0	212,889.0	88.4%	82.3%
19	2/28/2005	87	839	8656	32	31.00	256.96	29928	288616	2697.0	215,586.0	9.0%	74.7%
20	5/31/2005	92	931	8564	76	54.00	236.90	31648	320264	4968.0	220,554.0	15.7%	68.9%
21	8/10/2005	71	1002	8493	130	103.00	227.41	24424	344688	7313.0	227,867.0	29.9%	66.1%
22	8/11/2005	1	1003	8492	216	173.00	227.36	344	345032	173.0	228,040.0	50.3%	66.1%
23	9/15/2005	35	1038	8457	1490	853.00	248.45	12040	357072	29855.0	257,895.0	248.0%	72.2%
24	9/23/2005	8	1046	8449	178	834.00	252.93	2752	359824	6672.0	264,567.0	242.4%	73.5%
25	9/29/2005	6	1052	8443	383	280.50	253.09	2064	361888	1683.0	266,250.0	81.5%	73.6%
26	10/6/2005	7	1059	8436	1822	1102.50	258.70	2408	364296	7717.5	273,967.5	320.5%	75.2%
27	10/28/2005	22	1081	8414	15.4	918.70	272.14	7568	371864	20211.4	294,178.9	267.1%	79.1%
28	11/18/2005	21	1102	8393	15.9	15.65	267.25	7224	379088	328.7	294,507.6	4.5%	77.7%
29	12/29/2005	41	1143	8352	83.2	49.55	259.44	14104	393192	2031.6	296,539.1	14.4%	75.4%
30	2/28/2006	61	1204	8291	32	57.60	249.21	20984	414176	3513.6	300,052.7	16.7%	72.4%
31	5/31/2006	92	1296	8199	76	54.00	235.36	31648	445824	4968.0	305,020.7	15.7%	68.4%
32	8/15/2006	76	1372	8123	130	103.00	228.02	26144	471968	7828.0	312,848.7	29.9%	66.3%
33	8/16/2006	1	1373	8122	1629	879.50	228.50	344	472312	879.5	313,728.2	255.7%	66.4%
34	8/31/2006	15	1388	8107	1629	1629.00	243.63	5160	477472	24435.0	338,163.2	473.5%	70.8%
35	10/5/2006	35	1423	8072	2357	1993.00	286.66	12040	489512	69755.0	407,918.2	579.4%	83.3%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

**Sample Results, Calculated Budget and Exposure Values
24 Aerovox Location**

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
36	10/19/2006	14	1437	8058	41.1	1199.05	295.55	4816	494328	16786.7	424,704.9	348.6%	85.9%
37	11/19/2006	31	1468	8027	41.1	41.10	290.18	10664	504992	1274.1	425,979.0	11.9%	84.4%
38	11/30/2006	11	1479	8016	67	54.05	288.42	3784	508776	594.6	426,573.6	15.7%	83.8%
39	2/28/2007	90	1569	7926	32	49.50	274.72	30960	539736	4455.0	431,028.6	14.4%	79.9%
40	5/31/2007	92	1661	7834	76	54.00	262.49	31648	571384	4968.0	435,996.6	15.7%	76.3%
41	8/6/2007	67	1728	7767	130	103.00	256.31	23048	594432	6901.0	442,897.6	29.9%	74.5%
42	8/7/2007	1	1729	7766	282	206.00	256.28	344	594776	206.0	443,103.6	59.9%	74.5%
43	8/21/2007	14	1743	7752	282	282.00	256.48	4816	599592	3948.0	447,051.6	82.0%	74.6%
44	9/18/2007	28	1771	7724	176	229.00	256.05	9632	609224	6412.0	453,463.6	66.6%	74.4%
45	10/13/2007	25	1796	7699	67	121.50	254.18	8600	617824	3037.5	456,501.1	35.3%	73.9%
46	11/9/2007	27	1823	7672	19.7	43.35	251.05	9288	627112	1170.5	457,671.5	12.6%	73.0%
47	11/30/2007	21	1844	7651	67	43.35	248.69	7224	634336	910.4	458,581.9	12.6%	72.3%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

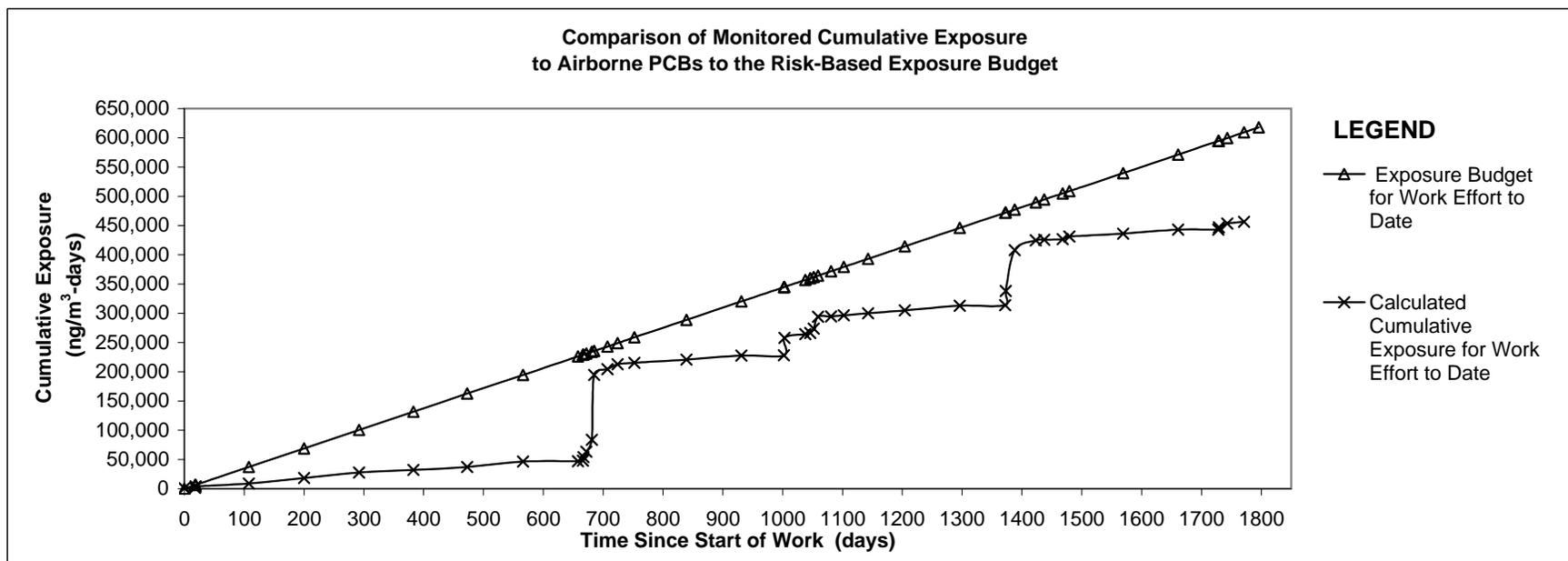
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	24 Aerovox
Collection Date:	11/30/2007
Measured PCB Concentration (ng/m³):	67
Exposure Budget Expended During This Period:	12.6%
Cumulative Exposure Budget Expended to Date:	72.3%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

- a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- b) 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).
- d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 25 Cliftex
Exposure Budget Slope (EBS) = 202 nanograms per cubic meter per day (ng/m³-day)

Collection Date: 11/30/2007

Construction Activity: The 2007 dredging activities were initiated on August 7, 2007 and demobilization activities were completed on October 25, 2007.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

Summary of This Sampling Period:

The results from the Foster Wheeler Baseline Ambient Air Sampling program (June 1999 through May 2000) were used to assign background concentrations for each air sampling location. For Station 25 Cliftex, the quarterly average ambient air PCB concentrations were used as a background concentration, which represent the quarterly baseline averages for the period of June 1999 through May 2000. These background concentrations were used to project the PCB concentrations during the inactive field times from 11/12/02 through 9/8/04, for the period from 12/4/04 through 8/10/05, from 12/28/05 through 8/15/06, and from 11/19/06 through 8/6/07 to close the recent inactive field season. In addition, to better simulate the 2006 dredging season, the ambient air concentrations from the August 31, 2006 sampling event were used as the concentrations detected at Station 25 Cliftex from August 16, 2006 (the start of dredging activities). To better simulate the 2007 dredging season, the ambient air concentrations from the August 21, 2007 sampling event were used as the concentrations detected at Station 25 Cliftex from August 7, 2007 (the start of dredging activities).

Coordinating the sampling date with the start of dredging better simulates the ambient air PCB concentrations at Station 25 Cliftex during the active dredging season. For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis. However, since monthly sampling was conducted in 2006, and the first 2006 sampling event was conducted two weeks after the start of dredging, this new variation of the PETs curve was used. Also, the concentrations were projected to be at background levels at Station 25 Cliftex on October 19, 2006, which is the day after the 2006 dredging activities were completed. For the 2007 season, the PCB concentrations were projected to be at background levels at Station 25 Cliftex on October 13, 2007, which is the day after the 2007 dredging activities were completed. These changes in the background concentrations and associated active dredging concentrations better match the actual 2006 and 2007 dredging activities. No triggers were identified, therefore, no action is required.

Home Sheet

Monitoring Station		25 Cliftex
Exposure Budget Slope	[ng/m ³ -day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	23
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

**Sample Results, Calculated Budget and Exposure Values
25 Cliftex Location**

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaining	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (J) [ng/m ³ -days]	Column (G) * Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	22	22.00	22.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	22	22.00	22.00	3636	3636	396.0	396.0	10.9%	10.9%
3	12/1/2002	1	19	9476	3.2	12.60	21.51	202	3838	12.6	408.6	6.2%	10.6%
4	2/28/2003	89	108	9387	3.2	3.20	6.42	17978	21816	284.8	693.4	1.6%	3.2%
5	5/31/2003	92	200	9295	35	19.10	12.25	18584	40400	1757.2	2,450.6	9.5%	6.1%
6	8/31/2003	92	292	9203	46	40.50	21.15	18584	58984	3726.0	6,176.6	20.0%	10.5%
7	11/30/2003	91	383	9112	22	34.00	24.21	18382	77366	3094.0	9,270.6	16.8%	12.0%
8	2/28/2004	90	473	9022	3.2	12.60	22.00	18180	95546	1134.0	10,404.6	6.2%	10.9%
9	5/31/2004	93	566	8929	35	19.10	21.52	18786	114332	1776.3	12,180.9	9.5%	10.7%
10	8/31/2004	92	658	8837	46	40.50	24.17	18584	132916	3726.0	15,906.9	20.0%	12.0%
11	9/8/2004	8	666	8829	22	34.00	24.29	1616	1616	272.0	16,178.9	16.8%	12.0%
12	9/9/2004	1	667	8828	167	94.50	24.40	202	134734	94.5	16,273.4	46.8%	12.1%
13	9/14/2004	5	672	8823	229	198.00	25.69	1010	135744	990.0	17,263.4	98.0%	12.7%
14	9/23/2004	9	681	8814	97	163.00	27.50	1818	137562	1467.0	18,730.4	80.7%	13.6%
15	9/28/2004	5	686	8809	423	260.00	29.20	1010	138572	1300.0	20,030.4	128.7%	14.5%
16	10/19/2004	21	707	8788	259	341.00	38.46	4242	142814	7161.0	27,191.4	168.8%	19.0%
17	11/15/2004	27	734	8761	61	160.00	42.93	5454	148268	4320.0	31,511.4	79.2%	21.3%
18	12/3/2004	18	752	8743	27	44.00	42.96	3636	151904	792.0	32,303.4	21.8%	21.3%
19	2/28/2005	87	839	8656	3.2	15.10	40.07	17574	169478	1313.7	33,617.1	7.5%	19.8%
20	5/31/2005	92	931	8564	35	19.10	38.00	18584	188062	1757.2	35,374.3	9.5%	18.8%
21	8/10/2005	71	1002	8493	46	40.50	38.17	14342	202404	2875.5	38,249.8	20.0%	18.9%
22	8/11/2005	1	1003	8492	103	74.50	38.21	202	202606	74.5	38,324.3	36.9%	18.9%
23	9/15/2005	35	1038	8457	58.2	80.60	39.64	7070	209676	2821.0	41,145.3	39.9%	19.6%
24	9/23/2005	8	1046	8449	35.2	46.70	39.69	1616	211292	373.6	41,518.9	23.1%	19.7%
25	9/29/2005	6	1052	8443	104	69.60	39.86	1212	212504	417.6	41,936.5	34.5%	19.7%
26	10/6/2005	7	1059	8436	251	177.50	40.77	1414	213918	1242.5	43,179.0	87.9%	20.2%
27	11/18/2005	43	1102	8393	0.12	125.56	44.08	8686	222604	5399.1	48,578.1	62.2%	21.8%
28	12/29/2005	41	1143	8352	10.9	5.51	42.70	8282	230886	225.9	48,804.0	2.7%	21.1%
29	2/28/2006	61	1204	8291	3.2	7.05	40.89	12322	243208	430.1	49,234.0	3.5%	20.2%
30	5/31/2006	92	1296	8199	35	19.10	39.35	18584	261792	1757.2	50,991.2	9.5%	19.5%
31	8/15/2006	76	1372	8123	46	40.50	39.41	15352	277144	3078.0	54,069.2	20.0%	19.5%
32	8/16/2006	1	1373	8122	176	111.00	39.46	202	277346	111.0	54,180.2	55.0%	19.5%
33	8/31/2006	15	1388	8107	176	176.00	40.94	3030	280376	2640.0	56,820.2	87.1%	20.3%
34	10/5/2006	35	1423	8072	451	313.50	47.64	7070	287446	10972.5	67,792.7	155.2%	23.6%
35	10/19/2006	14	1437	8058	0.14	225.57	49.37	2828	290274	3158.0	70,950.7	111.7%	24.4%
36	11/19/2006	31	1468	8027	0.14	0.14	48.33	6262	296536	4.3	70,955.1	0.1%	23.9%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Sample Results, Calculated Budget and Exposure Values 25 Cliftex Location

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	<u>Running Sum of Column (C) to Date</u> [days]	[days]	[ng/m ³]	[ng/m ³]	<u>Column (L)/Column (D)</u> [ng/m ³]	<u>EBS¹ * Column (C)</u> [ng/m ³ -days]	<u>Sum of Column (I)</u> [ng/m ³ -days]	<u>Column (G)* Column (C)</u> [ng/m ³ -days]	<u>Sum of Column (K)</u> [ng/m ³ -days]	<u>Column (K) /Column (I)</u> [%]	<u>Column (L) /Column (J)</u> [%]
37	11/30/2006	11	1479	8016	22	11.07	48.06	2222	298758	121.8	71,076.8	5.5%	23.8%
38	2/28/2007	90	1569	7926	3.2	12.60	46.02	18180	316938	1134.0	72,210.8	6.2%	22.8%
39	5/31/2007	92	1661	7834	35	19.10	44.53	18584	335522	1757.2	73,968.0	9.5%	22.0%
40	8/6/2007	67	1728	7767	46	40.50	44.38	13534	349056	2713.5	76,681.5	20.0%	22.0%
41	8/7/2007	1	1729	7766	147	96.50	44.41	202	349258	96.5	76,778.0	47.8%	22.0%
42	8/21/2007	14	1743	7752	147	147.00	45.23	2828	352086	2058.0	78,836.0	72.8%	22.4%
43	9/18/2007	28	1771	7724	120	133.50	46.63	5656	357742	3738.0	82,574.0	66.1%	23.1%
44	10/13/2007	25	1796	7699	22	71.00	46.96	5050	362792	1775.0	84,349.0	35.1%	23.2%
45	11/9/2007	27	1823	7672	20.2	21.10	46.58	5454	368246	569.7	84,918.7	10.4%	23.1%
46	11/30/2007	21	1844	7651	22	21.10	46.29	4242	372488	443.1	85,361.8	10.4%	22.9%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

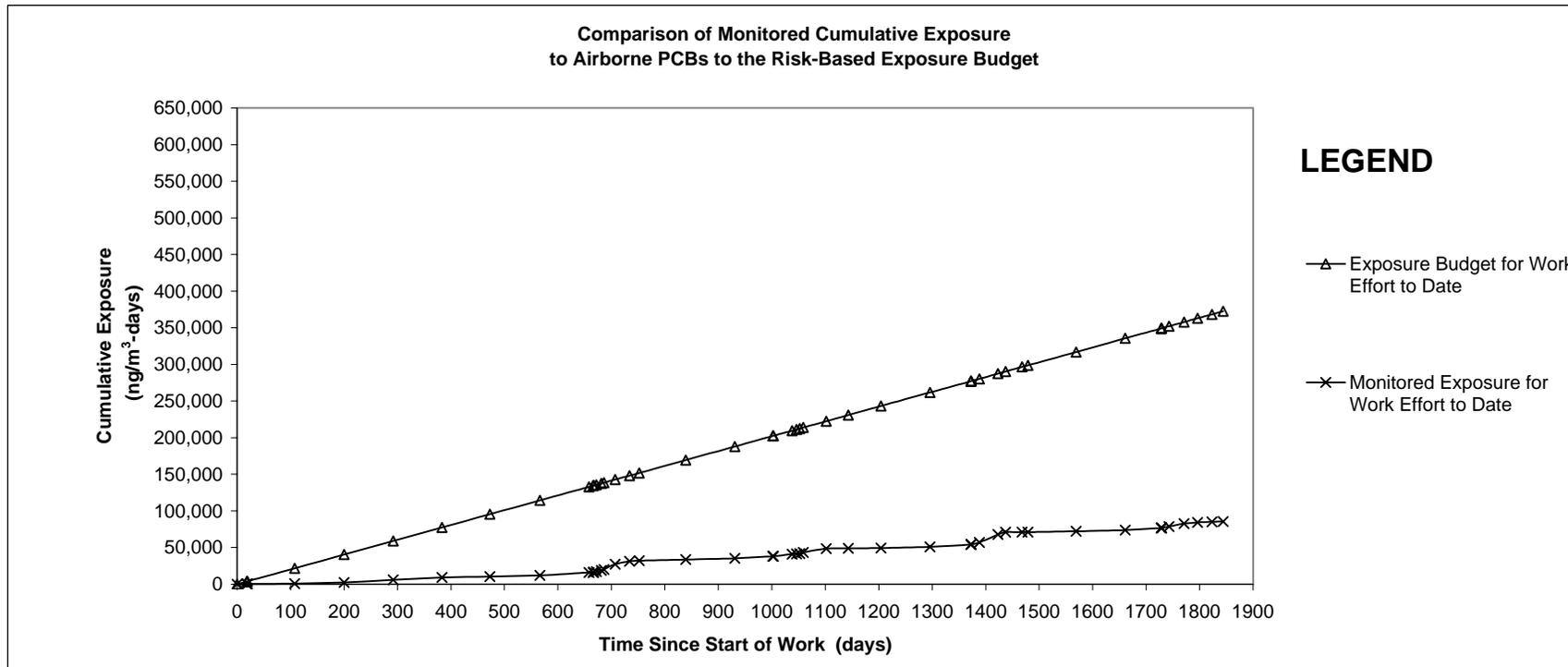
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	25 Cliftex
Collection Date:	11/30/2007
Measured PCB Concentration (ng/m³):	22
Exposure Budget Expended During This Period:	10.4%
Cumulative Exposure Budget Expended to Date:	22.9%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

- a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- b) 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).
- d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

Air Sampling Status

New Bedford Harbor Superfund Site

Station #: 42 NSTAR N

Exposure Budget Slope (EBS) = 202 (ng/m³-day)

Collection Date: 11/30/2007

Construction Activity: The 2007 dredging activities were initiated on August 7, 2007 and demobilization activities were completed on October 25, 2007.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

Summary of This Sampling Period:

The results from the Foster Wheeler Baseline Ambient Air Sampling program (June 1999 through May 2000) were used to assign background concentrations for each air sampling location. For Station 42 NSTAR N, the quarterly average ambient air PCB concentrations were used as a background concentration, which represent the quarterly baseline averages from Station 23 - Achusnet Substation, for the period of June 1999 through May 2000. These background concentrations were used to project the PCB concentrations during the inactive field times from 11/12/02 through 9/8/04, for the period from 12/4/04 through 8/10/05, 12/28/05 through 8/15/07, and from 11/19/06 through 8/6/07 to close the recent inactive field season. In addition, to better simulate the 2007 dredging season, the ambient air concentrations from the August 21, 2007 sampling event were used as the concentrations detected at Station 42 NSTAR from August 7, 2007 (the start of dredging activities).

Coordinating the sampling date with the start of dredging better simulates the ambient air PCB concentrations present at Station 42 during the active dredging season. For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis. However, since monthly sampling was conducted in 2006 and 2007, this new variation of the PETs curve was used for 2007. For the 2007 season, the PCB concentrations were projected to be at background levels at Station 42 NSTAR on October 13, 2007, which is the day after the 2007 dredging activities were completed. These changes in the background concentrations and associated active dredging concentrations better match the actual 2007 dredging activities. No triggers were identified, therefore, no action is necessary.

Home Sheet

Monitoring Station		42 NSTAR N
Exposure Budget Slope	[ng/m ³ -day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	23

Sample Results, Calculated Budget and Exposure Values 42 NSTAR North

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	24	24.00	24.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	24	24.00	24.00	3636	3636	432.0	432.0	11.9%	11.9%
3	12/1/2002	1	19	9476	9.9	16.95	23.63	202	3838	17.0	449.0	8.4%	11.7%
4	2/28/2003	89	108	9387	9.9	9.90	12.32	17978	21816	881.1	1,330.1	4.9%	6.1%
5	5/31/2003	92	200	9295	29	19.45	15.60	18584	40400	1789.4	3,119.5	9.6%	7.7%
6	8/31/2003	92	292	9203	31	30.00	20.14	18584	58984	2760.0	5,879.5	14.9%	10.0%
7	11/30/2003	91	383	9112	24	27.50	21.88	18382	77366	2502.5	8,382.0	13.6%	10.8%
8	2/28/2004	90	473	9022	9.9	16.95	20.95	18180	95546	1525.5	9,907.5	8.4%	10.4%
9	5/31/2004	93	566	8929	29	19.45	20.70	18786	114332	1808.9	11,716.3	9.6%	10.2%
10	8/31/2004	92	658	8837	31	30.00	22.00	18584	132916	2760.0	14,476.3	14.9%	10.9%
11	11/4/2004	65	723	8772	24	27.50	22.49	13130	146046	1787.5	16,263.8	13.6%	11.1%
12	11/5/2004	1	724	8771	73	48.50	22.53	202	146248	48.5	16,312.3	24.0%	11.2%
13	12/3/2004	28	752	8743	40	56.50	23.80	5656	151904	1582.0	17,894.3	28.0%	11.8%
14	2/28/2005	87	839	8656	9.9	24.95	23.92	17574	169478	2170.7	20,065.0	12.4%	11.8%
15	5/31/2005	92	931	8564	29	19.45	23.47	18584	188062	1789.4	21,854.4	9.6%	11.6%
16	8/10/2005	71	1002	8493	31	30.00	23.94	14342	202404	2130.0	23,984.4	14.9%	11.8%
17	8/11/2005	1	1003	8492	25.9	28.45	23.94	202	202606	28.5	24,012.8	14.1%	11.9%
18	9/15/2005	35	1038	8457	22.5	24.20	23.95	7070	209676	847.0	24,859.8	12.0%	11.9%
19	9/23/2005	8	1046	8449	83.3	52.90	24.17	1616	211292	423.2	25,283.0	26.2%	12.0%
20	9/29/2005	6	1052	8443	5.28	44.29	24.29	1212	212504	265.7	25,548.7	21.9%	12.0%
21	10/6/2005	7	1059	8436	119	62.14	24.54	1414	213918	435.0	25,983.7	30.8%	12.1%
22	10/28/2005	22	1081	8414	32.3	75.65	25.58	4444	218362	1664.3	27,648.0	37.5%	12.7%
23	11/18/2005	21	1102	8393	64.1	48.20	26.01	4242	222604	1012.2	28,660.2	23.9%	12.9%
24	12/29/2005	41	1143	8352	21.4	42.75	26.61	8282	230886	1752.8	30,413.0	21.2%	13.2%
25	2/28/2006	61	1204	8291	9.9	15.65	26.05	12322	243208	954.7	31,367.6	7.7%	12.9%
26	5/31/2006	92	1296	8199	29	19.45	25.58	18584	261792	1789.4	33,157.0	9.6%	12.7%
27	8/31/2006	92	1388	8107	31	30.00	25.88	18584	280376	2760.0	35,917.0	14.9%	12.8%
28	11/30/2006	91	1479	8016	24	27.50	25.98	18382	298758	2502.5	38,419.5	13.6%	12.9%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Sample Results, Calculated Budget and Exposure Values 42 NSTAR North

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaining	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
29	2/28/2007	90	1569	7926	9.9	16.95	25.46	18180	316938	1525.5	39,945.0	8.4%	12.6%
30	5/31/2007	92	1661	7834	29	19.45	25.13	18584	335522	1789.4	41,734.4	9.6%	12.4%
31	8/6/2007	67	1728	7767	31	30.00	25.32	13534	349056	2010.0	43,744.4	14.9%	12.5%
32	8/7/2007	1	1729	7766	19.2	25.10	25.31	202	349258	25.1	43,769.5	12.4%	12.5%
33	8/21/2007	14	1743	7752	19.2	19.20	25.27	2828	352086	268.8	44,038.3	9.5%	12.5%
34	9/18/2007	28	1771	7724	16.3	17.75	25.15	5656	357742	497.0	44,535.3	8.8%	12.4%
35	10/13/2007	25	1796	7699	24	20.15	25.08	5050	362792	503.8	45,039.1	10.0%	12.4%
36	11/9/2007	27	1823	7672	15.7	19.85	25.00	5454	368246	536.0	45,575.0	9.8%	12.4%
37	11/30/2007	21	1844	7651	24	19.85	24.94	4242	372488	416.9	45,991.9	9.8%	12.3%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

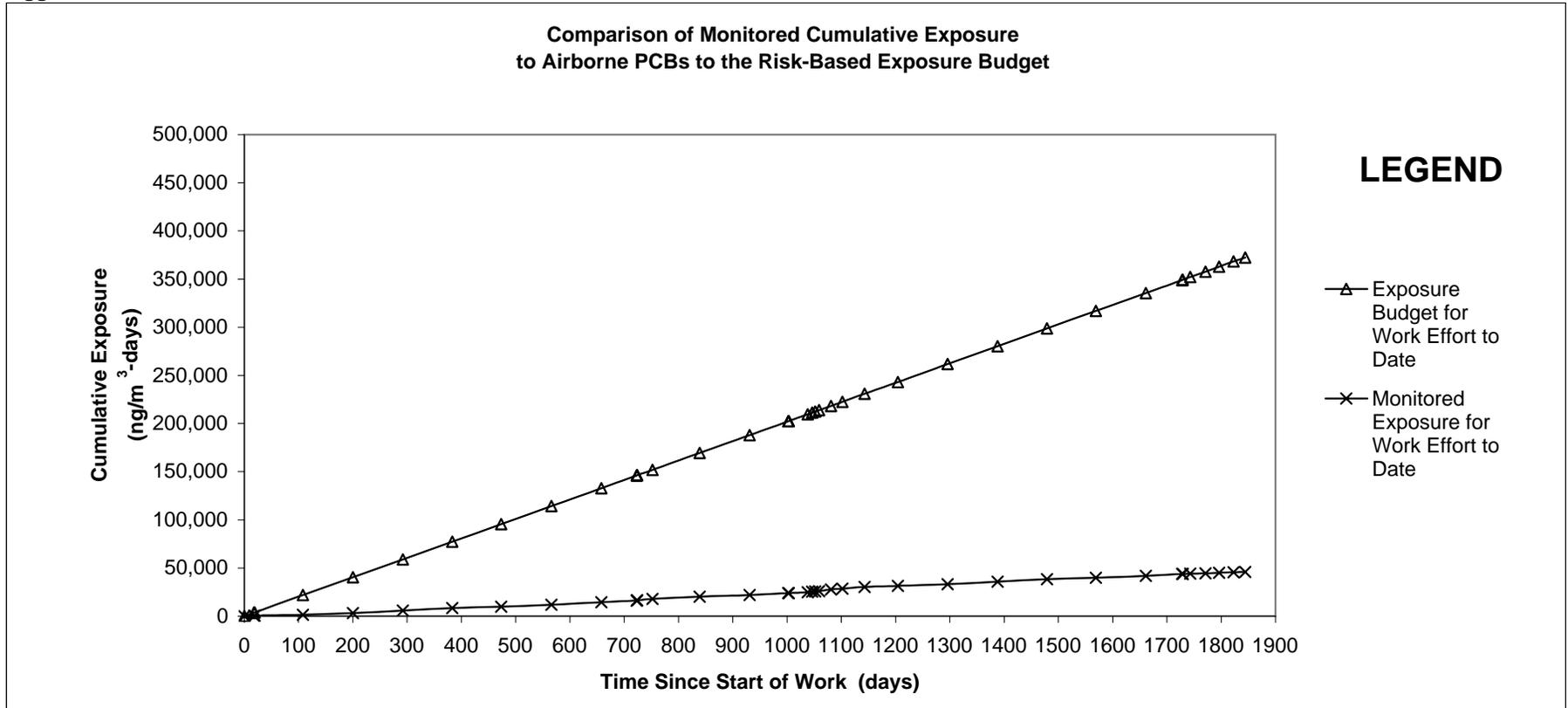
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	42 NSTAR N
Collection Date:	11/30/2007
Measured PCB Concentration (ng/m ³):	24
Exposure Budget Expended During This Period:	9.8%
Cumulative Exposure Budget Expended to Date:	12.3%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

- a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- b) 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).
- d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 46 Coffin Avenue
Exposure Budget Slope (EBS) = 202 nanograms per cubic meter per day (ng/m³-day)

Collection Date: 11/30/2007

Construction Activity: The 2006 dredging activities were initiated on August 7, 2007 and demobilization activities were completed on October 25, 2007.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

Summary of This Sampling Period:

The results from the Foster Wheeler Baseline Ambient Air Sampling program (June 1999 through May 2000) were used to assign background concentrations for each air sampling location. For Station 46 Coffin Ave., the quarterly ambient air PCB concentrations were used for background concentrations. These values represent the quarterly baseline averages from Stations 21 and 25 - Cliftex, for the period of June 1999 through May 2000. These background concentrations were used to project the PCB concentrations for the inactive field times from 11/12/02 through 9/8/04, for the period from 12/4/04 through 8/10/05, from 12/28/05 through 8/15/06, and from 11/19/06 through 8/6/07 to close the inactive field season. In addition, to better simulate the 2006 dredging season, the ambient air concentrations from the August 31, 2006 sampling event were used as the concentrations detected at Station 46 Coffin Ave from August 16, 2006 (the start of dredging activities). To better simulate the 2007 dredging season, the ambient air concentrations from the August 21, 2007 sampling event were used as the concentrations detected at Station 46 Coffin Avenue from August 7, 2007

(the start of dredging activities). Coordinating the sampling data with the start of dredging better simulates the ambient air PCB concentrations at Station 46 Coffin Avenue during the active dredging season. For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis. However, since monthly sampling was conducted in 2006, and the first 2006 sampling event was conducted two weeks after the start of dredging, this new variation of the PETs curve was used. Also, the PCB concentrations were projected to be at background levels at Station 46 Coffin Avenue on October 19, 2006, which is the day after the 2006 dredging activities were completed. For the 2007 season, the PCB concentrations were projected to be at background levels at Station 46 Coffin Avenue on October 13, 2007, which is the day after the 2007 dredging activities were completed. These changes in the background concentrations and associated active dredging concentrations better match the actual 2006 and 2007 dredging activities. No triggers were identified, therefore, no action is required.

Home Sheet

Monitoring Station		46 Coffin Ave
Exposure Budget Slope	[ng/m ³ -day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	26.1
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

**Sample Results, Calculated Budget and Exposure Values
46 Coffin Avenue**

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	22	22.00	22.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	22	22.00	22.00	3636	3636	396.0	396.0	10.9%	10.9%
3	12/1/2002	1	19	9476	3.2	12.60	21.51	202	3838	12.6	408.6	6.2%	10.6%
4	2/28/2003	89	108	9387	3.2	3.20	6.42	17978	21816	284.8	693.4	1.6%	3.2%
5	5/31/2003	92	200	9295	35	19.10	12.25	18584	40400	1757.2	2,450.6	9.5%	6.1%
6	8/31/2003	92	292	9203	46	40.50	21.15	18584	58984	3726.0	6,176.6	20.0%	10.5%
7	11/30/2003	91	383	9112	22	34.00	24.21	18382	77366	3094.0	9,270.6	16.8%	12.0%
8	2/28/2004	90	473	9022	3.2	12.60	22.00	18180	95546	1134.0	10,404.6	6.2%	10.9%
9	5/31/2004	93	566	8929	35	19.10	21.52	18786	114332	1776.3	12,180.9	9.5%	10.7%
10	8/31/2004	92	658	8837	46	40.50	24.17	18584	132916	3726.0	15,906.9	20.0%	12.0%
11	9/8/2004	8	666	8829	22	34.00	24.29	1616	134532	272.0	16,178.9	16.8%	12.0%
12	9/9/2004	1	667	8828	145	83.50	24.38	202	134734	83.5	16,262.4	41.3%	12.1%
13	9/14/2004	5	672	8823	48	96.50	24.92	1010	135744	482.5	16,744.9	47.8%	12.3%
14	9/23/2004	9	681	8814	5	26.50	24.94	1818	137562	238.5	16,983.4	13.1%	12.3%
15	9/28/2004	5	686	8809	342	173.50	26.02	1010	138572	867.5	17,850.9	85.9%	12.9%
16	10/19/2004	21	707	8788	36	189.00	30.86	4242	142814	3969.0	21,819.9	93.6%	15.3%
17	11/5/2004	17	724	8771	80	58.00	31.50	3434	146248	986.0	22,805.9	28.7%	15.6%
18	12/3/2004	28	752	8743	15	47.50	32.10	5656	151904	1330.0	24,135.9	23.5%	15.9%
19	2/28/2005	87	839	8656	3.2	9.10	29.71	17574	169478	791.7	24,927.6	4.5%	14.7%
20	5/31/2005	92	931	8564	35	19.10	28.66	18584	188062	1757.2	26,684.8	9.5%	14.2%
21	8/10/2005	71	1002	8493	46	40.50	29.50	14342	202404	2875.5	29,560.3	20.0%	14.6%
22	8/11/2005	1	1003	8492	37.2	41.60	29.51	202	202606	41.6	29,601.9	20.6%	14.6%
23	9/15/2005	35	1038	8457	99.8	68.50	30.83	7070	209676	2397.5	31,999.4	33.9%	15.3%
24	9/23/2005	8	1046	8449	115	107.40	31.41	1616	211292	859.2	32,858.6	53.2%	15.6%
25	9/29/2005	6	1052	8443	124	119.50	31.92	1212	212504	717.0	33,575.6	59.2%	15.8%
26	10/6/2005	7	1059	8436	130	127.00	32.54	1414	213918	889.0	34,464.6	62.9%	16.1%
27	10/28/2005	22	1081	8414	2.06	66.03	33.23	4444	218362	1452.7	35,917.3	32.7%	16.4%
28	11/18/2005	21	1102	8393	0.14	1.10	32.61	4242	222604	23.1	35,940.4	0.5%	16.1%
29	12/29/2005	41	1143	8352	65.1	32.62	32.61	8282	230886	1337.4	37,277.8	16.1%	16.1%
30	2/28/2006	61	1204	8291	3.2	34.15	32.69	12322	243208	2083.2	39,360.9	16.9%	16.2%
31	5/31/2006	92	1296	8199	35	19.10	31.73	18584	261792	1757.2	41,118.1	9.5%	15.7%
32	8/15/2006	76	1372	8123	46	40.50	32.21	15352	277144	3078.0	44,196.1	20.0%	15.9%
33	8/16/2006	1	1373	8122	70.4	58.20	32.23	202	277346	58.2	44,254.3	28.8%	16.0%
34	8/31/2006	15	1388	8107	70.4	70.40	32.64	3030	280376	1056.0	45,310.3	34.9%	16.2%
35	10/5/2006	35	1423	8072	108	89.20	34.04	7070	287446	3122.0	48,432.3	44.2%	16.8%
36	10/19/2006	14	1437	8058	4.05	56.03	34.25	2828	290274	784.4	49,216.7	27.7%	17.0%
37	11/19/2006	31	1468	8027	4.05	4.05	33.61	6262	296536	125.6	49,342.2	2.0%	16.6%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

**Sample Results, Calculated Budget and Exposure Values
46 Coffin Avenue**

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	<u>Running Sum of Column (C) to Date</u> [days]	[days]	[ng/m ³]	[ng/m ³]	<u>Column (L)/Column (D)</u> [ng/m ³]	<u>EBS¹ * Column (C)</u> [ng/m ³ -days]	<u>Sum of Column (I)</u> [ng/m ³ -days]	<u>Column (G)* Column (C)</u> [ng/m ³ -days]	<u>Sum of Column (K)</u> [ng/m ³ -days]	<u>Column (K) /Column (I)</u> [%]	<u>Column (L) /Column (J)</u> [%]
38	11/30/2006	11	1479	8016	22	13.03	33.46	2222	298758	143.3	49,485.5	6.4%	16.6%
39	2/28/2007	90	1569	7926	3.2	12.60	32.26	18180	316938	1134.0	50,619.5	6.2%	16.0%
40	5/31/2007	92	1661	7834	35	19.10	31.53	18584	335522	1757.2	52,376.7	9.5%	15.6%
41	8/6/2007	67	1728	7767	46	40.50	31.88	13534	349056	2713.5	55,090.2	20.0%	15.8%
42	8/7/2007	1	1729	7766	36.1	41.05	31.89	202	349258	41.1	55,131.3	20.3%	15.8%
43	8/21/2007	14	1743	7752	36.1	36.10	31.92	2828	352086	505.4	55,636.7	17.9%	15.8%
44	9/18/2007	28	1771	7724	21.4	28.75	31.87	5656	357742	805.0	56,441.7	14.2%	15.8%
45	10/13/2007	25	1796	7699	22	21.70	31.73	5050	362792	542.5	56,984.2	10.7%	15.7%
46	11/9/2007	27	1823	7672	1.86	11.93	31.44	5454	368246	322.1	57,306.3	5.9%	15.6%
47	11/30/2007	21	1844	7651	22	11.93	31.21	4242	372488	250.5	57,556.8	5.9%	15.5%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

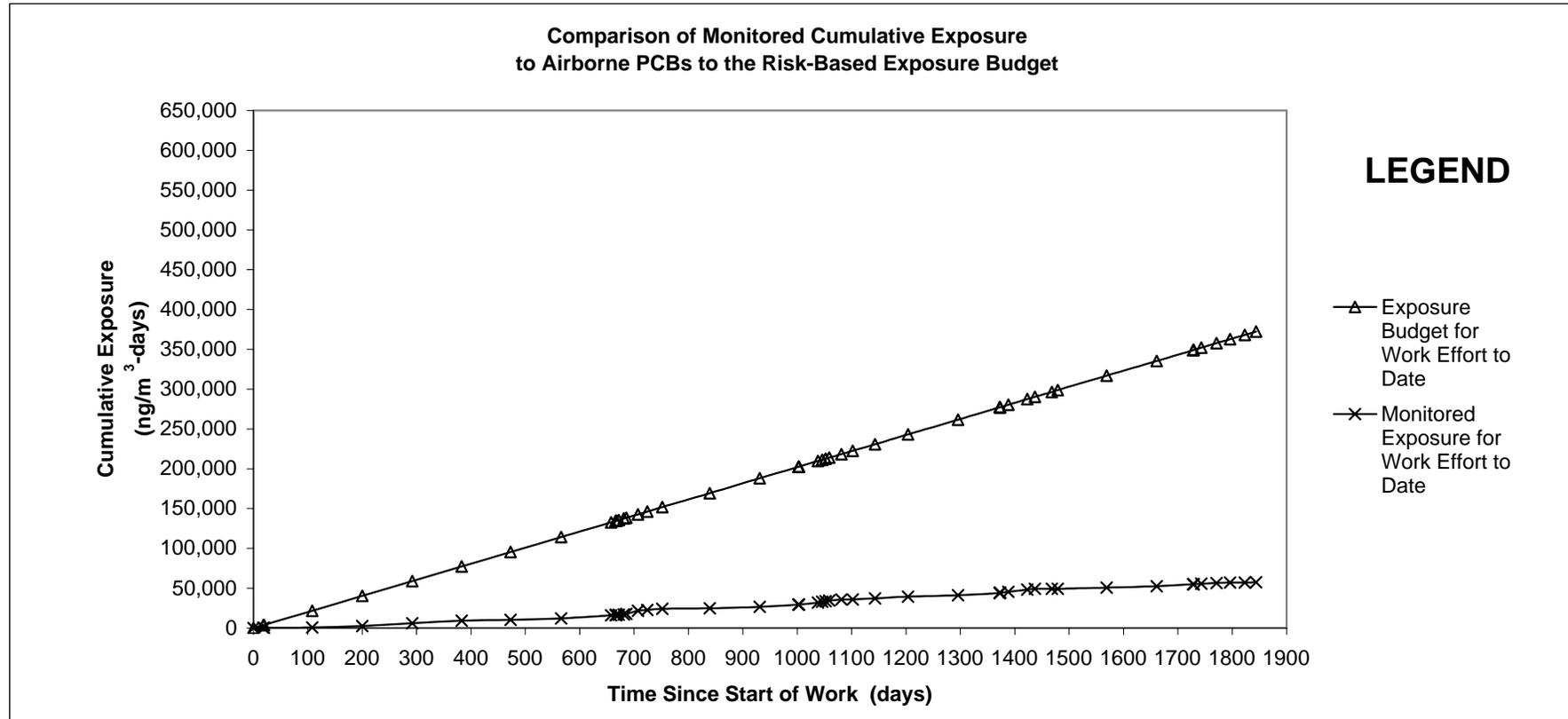
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station : 46 Coffin Ave
Collection Date: 11/30/2007
Measured PCB Concentration (ng/m³): 22
Exposure Budget Expended During This Period: 5.9%
Cumulative Exposure Budget Expended to Date: 15.5%
Response Level: No Triggers Identified
Response: No Response Necessary

Triggers:



Notes:

- a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- b) 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).
- d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 49 Area C Downwind
Exposure Budget Slope (EBS) = 202 nanograms per cubic meter per day (ng/m³-day)

Collection Date: 11/30/2007

Construction Activity: The 2007 dredging activities were initiated on August 7, 2007 and demobilization activities were completed on October 25, 2007.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

The results from the Foster Wheeler Baseline Ambient Air Sampling program (June 1999 through May 2000) were used to assign background concentrations for each air sampling location. For Station 49 Area C Downwind, the quarterly average ambient air PCB concentrations were used for background. These represent the average quarterly baseline averages from Station 26 - Sawyer Street, for the period of June 1999 through May 2000. These background concentrations were used for the inactive field times from 11/12/02 through 9/8/04, for the period from 12/4/04 through 8/10/05, from 12/28/05 through 8/15/06, and from 11/19/06 through 8/6/07 to close the recent inactive field season. For the December 2005 sampling event, based on wind direction for that day, the results from Station 47 were used to represent Area C downgradient air PCB concentrations. In 2006 and 2007, during each sampling event, ambient air data was collected from only one air sampling station at Area C. The location was selected based upon the predicted wind direction for that sampling event and was placed along the downwind portion of Area C.

Please refer to Table F-1 for the Area C stations used during the 2006 and 2007 sampling events. For the first month of the 2004 and 2005 seasons, the sampling was conducted on a weekly basis. However, since 2006, the active field season sampling has been conducted on a monthly basis. In addition, since the 2006 and 2007 first sampling events were conducted about two weeks after the start of dredging, a new variation of the PETs curve was used. To better simulate the 2006 dredging season, the ambient air concentrations from the August 31, 2006 sampling event were used as the concentrations detected at Station 47 from August 16, 2006 (start of dredging activities). For the 2007 dredge season, the August 21, 2007 sampling event was used as the concentrations detected downwind at Area C from August 7, 2007 (the start of dredging activities). Also, the background concentrations were used as the PCB concentration at Area C on October 19, 2006, which is the day after the 2006 dredging activities were completed.

For the 2007 season, the concentrations were projected to be at background levels at Area C from October 13, 2007, (the day after dredging activities were completed). Coordinating the sampling date with the start of dredging better simulates the ambient air PCB concentrations at Area C during active dredging season. No triggers were identified, therefore, no action is necessary.

Home Sheet

Monitoring Station		49 Area C Downwind
Exposure Budget Slope	[ng/m ³ -day]	202
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	56
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

**Sample Results, Calculated Budget and Exposure Values
49 Area C Downwind**

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaining	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G) * Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	43	43.00	43.00	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	43	43.00	43.00	3636	3636	774.0	774.0	21.3%	21.3%
3	12/1/2002	1	19	9476	89	66.00	44.21	202	3838	66.0	840.0	32.7%	21.9%
4	2/28/2003	89	108	9387	89	89.00	81.12	17978	21816	7921.0	8,761.0	44.1%	40.2%
5	5/31/2003	92	200	9295	61	75.00	78.31	18584	40400	6900.0	15,661.0	37.1%	38.8%
6	8/31/2003	92	292	9203	33	47.00	68.44	18584	58984	4324.0	19,985.0	23.3%	33.9%
7	11/30/2003	91	383	9112	43	38.00	61.21	18382	77366	3458.0	23,443.0	18.8%	30.3%
8	2/28/2004	90	473	9022	89	66.00	62.12	18180	95546	5940.0	29,383.0	32.7%	30.8%
9	5/31/2004	93	566	8929	61	75.00	64.24	18786	114332	6975.0	36,358.0	37.1%	31.8%
10	8/31/2004	92	658	8837	33	47.00	61.83	18584	132916	4324.0	40,682.0	23.3%	30.6%
11	9/8/2004	8	666	8829	43	38.00	61.54	1616	134532	304.0	40,986.0	18.8%	30.5%
12	9/9/2004	1	667	8828	56	49.50	61.52	202	134734	49.5	41,035.5	24.5%	30.5%
13	9/14/2004	5	672	8823	86	71.00	61.59	1010	135744	355.0	41,390.5	35.1%	30.5%
14	9/23/2004	9	681	8814	17	51.50	61.46	1818	137562	463.5	41,854.0	25.5%	30.4%
15	9/28/2004	5	686	8809	207	112.00	61.83	1010	138572	560.0	42,414.0	55.4%	30.6%
16	10/19/2004	21	707	8788	66	136.50	64.05	4242	142814	2866.5	45,280.5	67.6%	31.7%
17	11/5/2004	17	724	8771	28	47.00	63.65	3434	146248	799.0	46,079.5	23.3%	31.5%
18	12/3/2004	28	752	8743	26	27.00	62.28	5656	151904	756.0	46,835.5	13.4%	30.8%
19	2/28/2005	87	839	8656	89	57.50	61.79	17574	169478	5002.5	51,838.0	28.5%	30.6%
20	5/31/2005	92	931	8564	61	75.00	63.09	18584	188062	6900.0	58,738.0	37.1%	31.2%
21	8/10/2005	71	1002	8493	33	47.00	61.95	14342	202404	3337.0	62,075.0	23.3%	30.7%
22	8/11/2005	1	1003	8492	29.3	31.15	61.92	202	202606	31.2	62,106.2	15.4%	30.7%
23	9/15/2005	35	1038	8457	83.6	56.45	61.74	7070	209676	1975.8	64,081.9	27.9%	30.6%
24	9/23/2005	8	1046	8449	97	90.30	61.95	1616	211292	722.4	64,804.3	44.7%	30.7%
25	9/29/2005	6	1052	8443	44.2	70.60	62.00	1212	212504	423.6	65,227.9	35.0%	30.7%
26	10/6/2005	7	1059	8436	114	79.10	62.12	1414	213918	553.7	65,781.6	39.2%	30.8%
27	10/28/2005	22	1081	8414	12.3	63.15	62.14	4444	218362	1389.3	67,170.9	31.3%	30.8%
28	11/18/2005	21	1102	8393	3.71	8.01	61.11	4242	222604	168.1	67,339.0	4.0%	30.3%
29	12/29/2005	41	1143	8352	7.42	5.57	59.11	8282	230886	228.2	67,567.2	2.8%	29.3%
30	2/28/2006	61	1204	8291	89	48.21	58.56	12322	243208	2940.8	70,508.0	23.9%	29.0%
31	5/31/2006	92	1296	8199	61	75.00	59.73	18584	261792	6900.0	77,408.0	37.1%	29.6%
32	8/15/2006	76	1372	8123	31	46.00	58.97	15352	277144	3496.0	80,904.0	22.8%	29.2%
33	8/16/2006	1	1373	8122	39.2	35.10	58.95	202	277346	35.1	80,939.1	17.4%	29.2%
34	8/31/2006	15	1388	8107	39.2	39.20	58.74	3030	280376	588.0	81,527.1	19.4%	29.1%
35	10/5/2006	35	1423	8072	157	98.10	59.71	7070	287446	3433.5	84,960.6	48.6%	29.6%
36	10/19/2006	14	1437	8058	81.4	119.20	60.28	2828	290274	1668.8	86,629.4	59.0%	29.8%
37	11/19/2006	31	1468	8027	81.4	81.40	60.73	6262	296536	2523.4	89,152.8	40.3%	30.1%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

**Sample Results, Calculated Budget and Exposure Values
49 Area C Downwind**

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	<u>Running Sum of Column (C) to Date [days]</u>	[days]	[ng/m ³]	[ng/m ³]	<u>Column (L)/Column (D)</u> [ng/m ³]	<u>EBS¹ * Column (C)</u> [ng/m ³ -days]	<u>Sum of Column (I)</u> [ng/m ³ -days]	<u>Column (G) * Column (C)</u> [ng/m ³ -days]	<u>Sum of Column (K)</u> [ng/m ³ -days]	<u>Column (K) /Column (I)</u> [%]	<u>Column (L) /Column (J)</u> [%]
38	11/30/2006	11	1479	8016	43	62.20	60.74	2222	298758	684.2	89,837.0	30.8%	30.1%
39	2/28/2007	90	1569	7926	89	66.00	61.04	18180	316938	5940.0	95,777.0	32.7%	30.2%
40	5/31/2007	92	1661	7834	61	75.00	61.82	18584	335522	6900.0	102,677.0	37.1%	30.6%
41	8/6/2007	67	1728	7767	31	46.00	61.20	13534	349056	3082.0	105,759.0	22.8%	30.3%
42	8/7/2007	1	1729	7766	46.9	38.95	61.19	202	349258	39.0	105,797.9	19.3%	30.3%
43	9/18/2007	42	1771	7724	57.1	52.00	60.97	8484	357742	2184.0	107,981.9	25.7%	30.2%
44	10/13/2007	25	1796	7699	43	50.05	60.82	5050	362792	1251.3	109,233.2	24.8%	30.1%
45	11/9/2007	27	1823	7672	9.29	26.15	60.31	5454	368246	705.9	109,939.1	12.9%	29.9%
46	11/30/2007	21	1844	7651	43	26.15	59.92	4242	372488	549.0	110,488.1	12.9%	29.7%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

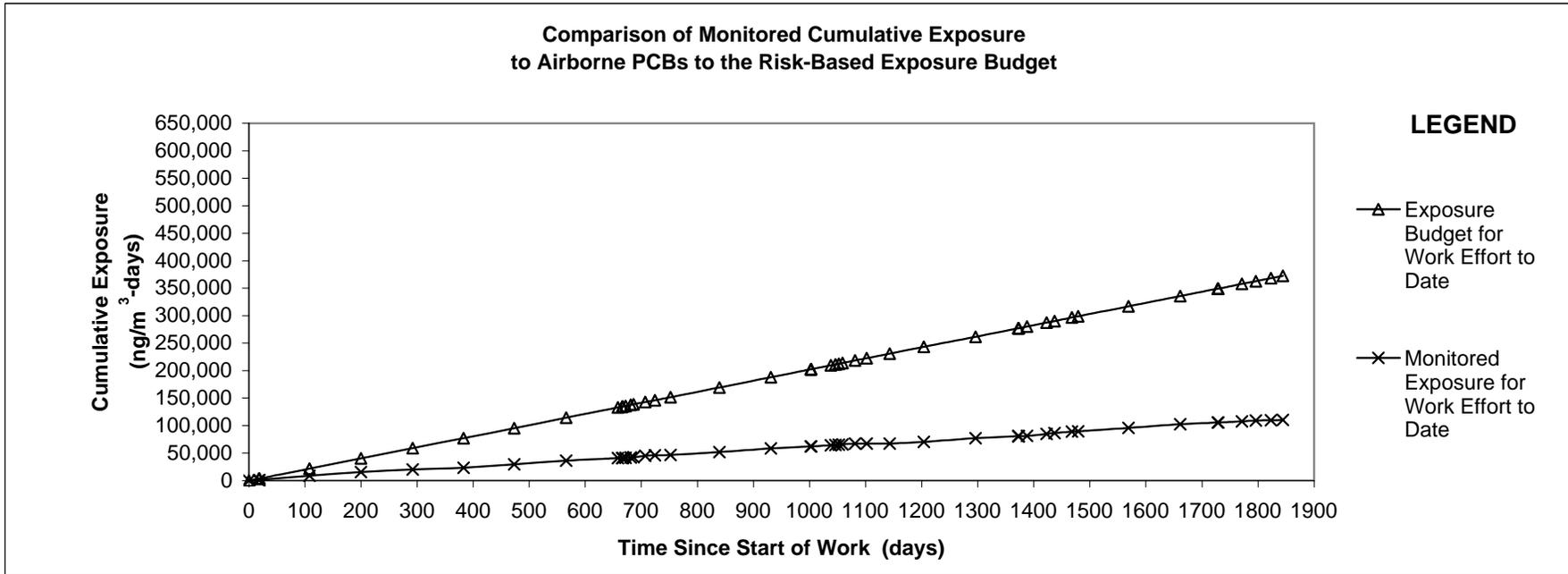
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station :	49 Area C Downwind
Collection Date:	11/30/2007
Measured PCB Concentration (ng/m³):	43
Exposure Budget Expended During This Period:	12.9%
Cumulative Exposure Budget Expended to Date:	29.7%
Response Level:	No Triggers Identified
Response:	No Response Necessary

Triggers:



Notes:

- a) 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- b) 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- c) 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).
- d) 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

Air Sampling Status Report

New Bedford Harbor Superfund Site

Station #: 50 Area D Downwind
Exposure Budget Slope (EBS) = 344 nanograms per cubic meter per day (ng/m³-day)

Collection Date: 11/30/2007

Construction Activity: The 2007 dredging activities were initiated on August 7, 2007 and demobilization activities were completed on October 25, 2007.

This report summarizes sample results for the above referenced location and date. The samples were collected on polyurethane foam (PUF)/XAD sample media with a glass fiber pre-filter using a BGI, PQ-1 Low-Volume sampler. The samples were analyzed using high-resolution mass spectrometry (HRGCMS) for total PCB homologue groups. Results are evaluated relative to the Exposure Budget Tracking Process described in the Development of PCB Air Action Levels for the Protection of the Public, New Bedford Harbor Superfund Site, August 2001. Cumulative data for this reporting period are included on pages 3 and 4.

Summary of This Sampling Period:

The results from the Foster Wheeler Baseline Ambient Air Sampling program (June 1999 through May 2000) were used to assign background concentrations for each air sampling location. However, for the August 2005 background sampling event, based on wind direction for that day, the results from Station 52 were used to represent Area D downgradient air PCB concentrations. For Station 50 Area D, the average quarterly air PCB concentrations were used as background concentrations, which represent the average quarterly from Station 21 - New Bedford Welding, for the period of June 1999 through May 2000. These background concentrations were used for the inactive field times from 11/12/02 to 9/8/04, from 12/4/04 to 8/10/05, from 12/28/05 to 8/15/06, and from 11/19/06 to 8/6/07 to close the recent inactive field season. For the December 2005 post-dredging sampling event, based on wind direction for the day, the results from Station 51 were used to represent Area D downwind air PCB concentrations. In 2006 and 2007, during each sampling event, ambient air data was collected from only one air sampling station, which was placed downwind of Area D, based upon the predicted wind direction for the sampling event.

Please refer to Table F-1 for the Area D stations used during the 2006 and 2007 sampling events. In 2004 and 2005, air sampling was conducted on a weekly basis during the first month. However, since 2006, during the active field season, sampling has been conducted on a monthly basis. Since the first 2006 and 2007 sampling events were conducted about two weeks after the start of dredging, a new variation of the PETs curve was used. Therefore, to better simulate the 2006 dredging season, the ambient air concentrations from the August 31, 2006 sampling event were used to as the concentrations detected at Station 50 from August 16, 2006 (the start of dredging activities). For the 2007 dredge season, the August 21, 2007 sampling event was used to project concentrations detected downwind at Area D on August 7, 2007 (the start of dredging activities). Also, the PCB concentrations were projected to be at background levels at Station 50 Area D on October 19, 2006, which is the day after the 2006 dredging activities were completed.

For the 2007 season, the concentrations were used as the background levels at Area D from October 13, 2007, (the day after dredging activities were completed). Coordinating the sampling date with the start of dredging better simulates the actual 2006 and 2007 dredging activities. No triggers were identified, therefore, no action is necessary.

Home Sheet

Monitoring Station		50 Area D Downwind
Exposure Budget Slope	[ng/m ³ -day]	344
Work Start Date	[mm/dd/yyyy]	11/12/2002
Projected Work End Date (Per EPA)	[mm/dd/yyyy]	11/10/2028
Occupational Limit Used as Ceiling	[ng/m ³]	500,000
TEL for Worker in Public	[ng/m ³]	50,000
NTEL for Worker in Public	[ng/m ³]	1,789
Minimum of TEL/NTEL	[ng/m ³]	1,789
Baseline Average Concentration	[ng/m ³]	16.7
Notes:		
TEL - Threshold Effects Exposure Limit		
NTEL - Non-Threshold Effects Exposure Limit		
The EPA periodically assesses this Projected Work End Date, which is subject to change.		

Sample Results, Calculated Budget and Exposure Values 50 Area D Downwind

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaining	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (J) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (L) [%]	Column (L) /Column (J) [%]
1	11/12/2002	0	0	9495	5.9	5.90	5.90	NC	NC	NC	NC	NC	NC
2	11/30/2002	18	18	9477	5.9	5.90	5.90	6192	6192	106.2	106.2	1.7%	1.7%
3	12/1/2002	1	19	9476	3.4	4.65	5.83	344	6536	4.7	110.9	1.4%	1.7%
4	2/28/2003	89	108	9387	3.4	3.40	3.83	30616	37152	302.6	413.5	1.0%	1.1%
5	5/31/2003	92	200	9295	6.8	5.10	4.41	31648	68800	469.2	882.7	1.5%	1.3%
6	8/31/2003	92	292	9203	12	9.40	5.98	31648	100448	864.8	1,747.5	2.7%	1.7%
7	11/30/2003	91	383	9112	5.9	8.95	6.69	31304	131752	814.5	2,561.9	2.6%	1.9%
8	2/28/2004	90	473	9022	3.4	4.65	6.30	30960	162712	418.5	2,980.4	1.4%	1.8%
9	5/31/2004	93	566	8929	6.8	5.10	6.10	31992	194704	474.3	3,454.7	1.5%	1.8%
10	8/31/2004	92	658	8837	12	9.40	6.56	31648	226352	864.8	4,319.5	2.7%	1.9%
11	9/8/2004	8	666	8829	5.9	8.95	6.59	2752	229104	71.6	4,391.1	2.6%	1.9%
12	9/9/2004	1	667	8828	20	12.95	6.60	344	229448	13.0	4,404.1	3.8%	1.9%
13	9/14/2004	5	672	8823	38	29.00	6.77	1720	231168	145.0	4,549.1	8.4%	2.0%
14	9/23/2004	9	681	8814	6	22.00	6.97	3096	234264	198.0	4,747.1	6.4%	2.0%
15	9/28/2004	5	686	8809	80	43.00	7.23	1720	235984	215.0	4,962.1	12.5%	2.1%
16	10/19/2004	21	707	8788	17	48.50	8.46	7224	243208	1018.5	5,980.6	14.1%	2.5%
17	12/3/2004	45	752	8743	22	19.50	9.12	15480	258688	877.5	6,858.1	5.7%	2.7%
18	2/28/2005	87	839	8656	3.4	12.70	9.49	29928	288616	1104.9	7,963.0	3.7%	2.8%
19	5/31/2005	92	931	8564	6.8	5.10	9.06	31648	320264	469.2	8,432.2	1.5%	2.6%
20	8/10/2005	71	1002	8493	12	9.40	9.08	24424	344688	667.4	9,099.6	2.7%	2.6%
21	8/11/2005	1	1003	8492	21.3	16.65	9.09	344	345032	16.7	9,116.2	4.8%	2.6%
22	9/15/2005	35	1038	8457	0.52	10.91	9.15	12040	357072	381.9	9,498.1	3.2%	2.7%
23	9/23/2005	8	1046	8449	0.26	0.39	9.08	2752	359824	3.1	9,501.2	0.1%	2.6%
24	9/29/2005	6	1052	8443	24.2	12.23	9.10	2064	361888	73.4	9,574.6	3.6%	2.6%
25	10/6/2005	7	1059	8436	81.7	52.95	9.39	2408	364296	370.7	9,945.2	15.4%	2.7%
26	10/28/2005	22	1081	8414	0.01	40.86	10.03	7568	371864	898.8	10,844.0	11.9%	2.9%
27	12/29/2005	62	1143	8352	2.18	1.10	9.55	21328	393192	67.9	10,911.9	0.3%	2.8%
28	2/28/2006	61	1204	8291	3.4	2.79	9.20	20984	414176	170.2	11,082.1	0.8%	2.7%
29	5/31/2006	92	1296	8199	6.8	5.10	8.91	31648	445824	469.2	11,551.3	1.5%	2.6%
30	8/15/2006	76	1372	8123	12	9.40	8.94	26144	471968	714.4	12,265.7	2.7%	2.6%
31	8/16/2006	1	1373	8122	67.3	39.65	8.96	344	472312	39.7	12,305.3	11.5%	2.6%
32	8/31/2006	15	1388	8107	67.3	67.30	9.59	5160	477472	1009.5	13,314.8	19.6%	2.8%
33	10/5/2006	35	1423	8072	197	132.15	12.61	12040	489512	4625.3	17,940.1	38.4%	3.7%
34	10/19/2006	14	1437	8058	2.6	99.80	13.46	4816	494328	1397.2	19,337.3	29.0%	3.9%
35	11/19/2006	31	1468	8027	2.6	2.60	13.23	10664	504992	80.6	19,417.9	0.8%	3.8%
36	11/30/2006	11	1479	8016	5.9	4.25	13.16	3784	508776	46.8	19,464.6	1.2%	3.8%

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Sample Results, Calculated Budget and Exposure Values 50 Area D Downwind

(A) Event	(B) Sampling Date	(C) Days Since Previous Sampling Event	(D) Work Effort Elapsed Time	(E) Estimated Work Effort Remaning	(F) PCB Concentration Result	(G) Average of Most Recent Two Concentration Results	(H) Weighted Average of Concentration Results	(I) Exposure Budget for the Period	(J) Cumulative Exposure Budget for Work Effort to Date	(K) Measured Exposure During the Period	(L) Calculated Cumulative Exposure for Work Effort to Date	(M) Exposure Budget Expended During the Period	(N) Cumulative Exposure Expended for Work Effort to Date
[#]	[month/day/year]	[days]	Running Sum of Column (C) to Date [days]	[days]	[ng/m ³]	[ng/m ³]	Column (L)/Column (D) [ng/m ³]	EBS ¹ * Column (C) [ng/m ³ -days]	Sum of Column (I) [ng/m ³ -days]	Column (G)* Column (C) [ng/m ³ -days]	Sum of Column (K) [ng/m ³ -days]	Column (K) /Column (I) [%]	Column (L) /Column (J) [%]
37	2/28/2007	90	1569	7926	3.4	4.65	12.67	30960	539736	418.5	19,883.1	1.4%	3.7%
38	5/31/2007	92	1661	7834	6.8	5.10	12.25	31648	571384	469.2	20,352.3	1.5%	3.6%
39	8/6/2007	67	1728	7767	31	18.90	12.51	23048	594432	1266.3	21,618.6	5.5%	3.6%
40	8/7/2007	1	1729	7766	36.7	33.85	12.52	344	594776	33.9	21,652.5	9.8%	3.6%
41	8/21/2007	14	1743	7752	36.7	36.70	12.72	4816	599592	513.8	22,166.3	10.7%	3.7%
42	9/18/2007	28	1771	7724	48.7	42.70	13.19	9632	609224	1195.6	23,361.9	12.4%	3.8%
43	10/13/2007	25	1796	7699	43	45.85	13.65	8600	617824	1146.3	24,508.1	13.3%	0.0
44	11/9/2007	27	1823	7672	4.39	23.70	13.79	9288	627112	639.8	25,147.9	6.9%	0.0
45	11/30/2007	21	1844	7651	5.9	5.15	13.70	7224	634336	108.0	25,256.0	1.5%	0.0

Notes:

¹EBS: Exposure Budget Slope= ng/m³-day

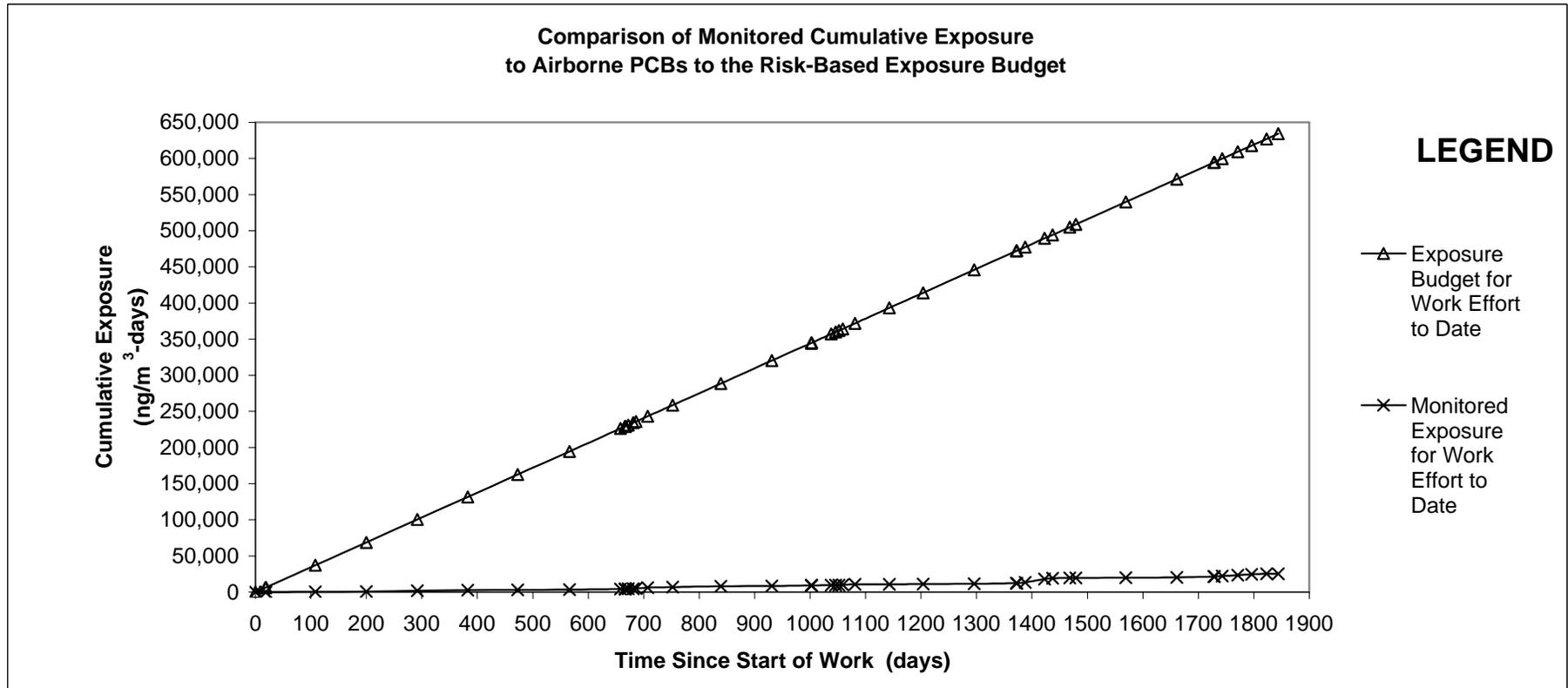
NC = Not Calculated

Shading represents actual sampling data. All other numbers represent projected PCB concentrations for that period.

Air Sampling Status Report

Sample Station : 50 Area D Downwind
Collection Date: 11/30/2007
Measured PCB Concentration (ng/m³): 5.9
Exposure Budget Expended During This Period: 1.5%
Cumulative Exposure Budget Expended to Date: 4.0%
Response Level: No Triggers Identified
Response: No Response Necessary

Triggers:



Notes:

- 2004 dredge season, including pre- and post-dredging sampling events, were from 667 to 752 days since start of work (September 9 through December 3, 2004).
- 2005 dredge season, including pre- and post-dredging sampling events, were from 1003 to 1143 days since start of work (August 11 through December 29, 2005).
- 2006 dredge season, which did not include a pre-dredge sampling event, was from 1388 to 1468 days since start of work (August 16 through October 18, 2006).
- 2007 dredge season, which did not include a pre-dredge sampling event, was from 1729 to 1823 days since start of work (August 7 through November 9, 2007).

ATTACHMENT G

Jacobs Solids and Water Balance and PCB Mass Removal Calculations

CBI

CBI

ATTACHMENT H

Sevenson Operational Monitoring Data

CBI

CBI

ATTACHMENT I

Process Improvement Data

CBI

CBI

CBI

CBI

CBI

CBI

ATTACHMENT J

2007 Lessons Learned/Conclusions

CBI

CBI

CBI