



DEPARTMENT OF THE NAVY

NORTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
10 INDUSTRIAL HIGHWAY
MAIL STOP, #82
LESTER, PA 19113-2090

N00102.AR.000449
NSY PORTSMOUTH
5090.3a

IN REPLY REFER TO

5090
Code 1823/FE

JUL 11 1997

Ms. Meghan Cassidy
U.S. Environmental Protection Agency, Region I
JFK Federal Building HBT
Boston, MA 02203-2211

Mr. Iver McLeod
Maine Department of Environmental Protection
State House Station 17
Augusta, ME 04333-0017

Subj: PHASE I/PHASE II SEAFOOD COMPARISON FOR THE INSTALLATION
RESTORATION PROGRAM, PORTSMOUTH NAVAL SHIPYARD, KITTERY, ME

Dear Ms. Cassidy/ Mr. McLeod:

During our comparison of the Phase I and Phase II Seafood concentrations, we have discovered analytes which were either not analyzed for or not detected for during the Phase I sampling, but were during the Phase II. Enclosed are the potential COCs analyzed for during phase II which were not sampled for or not detected in the phase I human health risk assessment. The Navy proposes to compare these analytes to the U.S. EPA Region III's Risk Based Concentration's (RBC's).

Please advise us by August 1, 1997 if comparing these analytes to the RBC's is acceptable.

Subj: PHASE I/PHASE II SEAFOOD COMPARISION FOR THE INSTALLATION
RESTORATION PROGRAM, PORTSMOUTH NAVAL SHIPYARD, KITTERY, ME

If additional information is required, please contact Ms. Marty
Raymond at 207-438-2536 or myself at 610-595-0567, x159.

Sincerely,



FREDERICK J. EVANS, P.E.
Remedial Project Manager
By direction of the
Commanding Officer

Copy to:

NOAA (K. Finkelstein)

US Fish & Wildlife Service (K. Munney)

ME Dept. of Marine Resources (D. Card)

NH Fish & Game (J. Nelson)

PNS (Code 106.3R, M. Raymond)

Ms. Juanita Bell

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Ms. Michele Dionne

Ms. Mary Marshall

Mr. Jack McKenna

Mr. Onil Roy

Ms. Carolyn Lepage

COCs Identified During Phase II Which Were Not Identified
During the Phase I Human Health Risk Assessment
(All Concentrations Shown in mg/kg)

Medium	Region III RBC	Range of Detections ¹	Number of Exceedances	Frequency of Detection
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Mussels

Benzo(ghi)perylene	54 ²	0.00236 - 0.02148	0	26/28
Dibenzo(ah)anthracene	0.00043	0.00282 - 0.00793	4	4/28
Fluorene	54	0.0015 - 0.0589	0	28/28
Indeno(1,2,3-cd)perylene	0.0043	0.00272 - 0.02921	18	26/28

Flounder

Methyl Mercury ³	0.14	0.03092 - 0.071	0	2/2
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Lobster Tail - Adult

Methyl Mercury ³	0.14	0.04666 - 0.06355	0	3/3
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Lobster Tail - Juvenile

Methyl Mercury ³	0.14	0.03548 - 0.8759	1	2/2
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Lobster Hepatopancreas - Adult

Methyl Mercury ³	0.14	0.02834 - 0.05941	0	2/2
Dibenzo(ah)anthracene	0.00043	0.00804	1	1/5

Lobster Hepatopancreas - Subadult

Methyl Mercury ³	0.14	0.02101 - 0.04258	0	2/2
Dibenzo(ah)anthracene	0.00043	0.00678 - 0.01264	3	3/5

Lobster Hepatopancreas - Juvenile

Methyl Mercury ³	0.14	0.03023 - 0.06182	0	3/3
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References:

- 1 McLaren/Hart Environmental Engineering Corp., May 1994. Final Human Health Risk Assessment Report for Off-Shore Media, Portsmouth Naval Shipyard, Kittery, Maine.
- 2 U.S. EPA Region III, March 14, 1997. EPA Region III Risk-Based Concentration Table. Hazardous Waste Management Division, Philadelphia, PA.

- ¹ Based on procedures used in the Phase I Human Health Risk Assessment, sediment results are reported on a dry-weight basis, while all other results are reported on a wet-weight basis.
- ² An RBC is not available for this analyte. The RBC shown is based on the U.S. EPA Region III RBC for naphthalene.
- ³ Analysis not performed for this analyte during the Phase I investigation.

Associated Reference Sample Results for COCs Identified During Phase II Which Were Not Identified
 During the Phase I Human Health Risk Assessment
 (All Concentrations Shown in mg/kg)

Medium	Region III RBC ¹	Range of Detections ²	Number of Exceedances	Frequency of Detection
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Reference Area - Flounder

Methyl Mercury ³	0.14	0.02282 - 0.06338	0	2/2
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Reference Area - Lobster Tail - Adult

Methyl Mercury ³	0.14	0.11523 - 0.3066	1	2/2
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Reference Area - Lobster Tail - Juvenile

Methyl Mercury ³	0.14	NA ⁴	--	--
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Reference Area - Lobster Hepatopancreas - Adult

Methyl Mercury ³	0.14	0.03326 - 0.05616	0	2/2
Dibenzo(ah)anthracene	0.00043	0.00026 - 0.00142	3	5/5

Reference Area - Lobster Hepatopancreas - Subadult

Methyl Mercury ³	0.14	NA	--	--
Dibenzo(ah)anthracene	0.00043	0.00017 - 0.00519	3	5/5

Reference Area - Lobster Hepatopancreas - Juvenile

Methyl Mercury ³	0.14	NA	--	--
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¹ RBCs for all biota are based on U.S. EPA Region III RBCs for ingestion of fish tissue.

² Based on procedures used in the Phase I Human Health Risk Assessment, all biota results are reported on a wet-weight basis.

³ Analysis not performed for this analyte during the Phase I investigation.

⁴ NA - Based on the available database, samples in this media sub-group were not analyzed for methyl mercury.