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Table A-1. Lengths of clams collected from the LDW

STATION	SAMPLE No.	SPECIES	LENGTH OF SHELL (cm)
C1	1	<i>Mya arenaria</i>	7.9
	1	<i>Mya arenaria</i>	7.5
	1	<i>Mya arenaria</i>	5.5
	1	<i>Mya arenaria</i>	7.9
	1	<i>Mya arenaria</i>	6.0
	1	<i>Mya arenaria</i>	6.2
	1	<i>Mya arenaria</i>	7.6
	1	<i>Mya arenaria</i>	6.6
	1	<i>Mya arenaria</i>	7.0
	1	<i>Mya arenaria</i>	6.9
	1	<i>Mya arenaria</i>	3.2
	1	<i>Mya arenaria</i>	2.9
	1	<i>Mya arenaria</i>	2.2
	1	<i>Mya arenaria</i>	6.7
	1	<i>Mya arenaria</i>	7.7
	1	<i>Mya arenaria</i>	8.2
	1	<i>Mya arenaria</i>	7.4
	1	<i>Mya arenaria</i>	2.2
	1	<i>Mya arenaria</i>	4.9
	1	<i>Mya arenaria</i>	5.6
	1	<i>Mya arenaria</i>	5.7
	1	<i>Mya arenaria</i>	6.6
	1	<i>Mya arenaria</i>	6.7
	1	<i>Mya arenaria</i>	6.1
	1	<i>Mya arenaria</i>	2.9
Total	25	Mean Length	5.9
C2	1	<i>Mya arenaria</i>	6.5
	1	<i>Mya arenaria</i>	6.7
	1	<i>Mya arenaria</i>	5.7
	1	<i>Mya arenaria</i>	6.1
	1	<i>Mya arenaria</i>	4.5
	1	<i>Mya arenaria</i>	5.1
	1	<i>Mya arenaria</i>	5.8
	1	<i>Mya arenaria</i>	5.5
	1	<i>Mya arenaria</i>	6.6
	1	<i>Mya arenaria</i>	7.3
	1	<i>Mya arenaria</i>	6.2
	1	<i>Mya arenaria</i>	5.6
	1	<i>Mya arenaria</i>	5.0
	1	<i>Mya arenaria</i>	6.0
	1	<i>Mya arenaria</i>	4.8
	1	<i>Mya arenaria</i>	5.1
	1	<i>Mya arenaria</i>	4.7
	1	<i>Mya arenaria</i>	4.9
	1	<i>Mya arenaria</i>	4.3
	1	<i>Mya arenaria</i>	3.9
	1	<i>Mya arenaria</i>	4.3
	1	<i>Mya arenaria</i>	4.3
	1	<i>Mya arenaria</i>	2.3
	1	<i>Mya arenaria</i>	3.1
	1	<i>Mya arenaria</i>	7.4
	1	<i>Mya arenaria</i>	5.8

STATION	SAMPLE No.	SPECIES	LENGTH OF SHELL (cm)
	1	<i>Mya arenaria</i>	6.4
	1	<i>Mya arenaria</i>	4.6
	1	<i>Mya arenaria</i>	3.8
	1	<i>Mya arenaria</i>	3.7
	1	<i>Mya arenaria</i>	2.9
	1	<i>Mya arenaria</i>	4.6
Total	32	Mean Length	5.1
C2	2	<i>Mya arenaria</i>	7.9
	2	<i>Mya arenaria</i>	7.8
	2	<i>Mya arenaria</i>	8.6
	2	<i>Mya arenaria</i>	7.5
	2	<i>Mya arenaria</i>	8.2
	2	<i>Mya arenaria</i>	7.2
	2	<i>Mya arenaria</i>	7.6
	2	<i>Mya arenaria</i>	6.3
	2	<i>Mya arenaria</i>	8.9
	2	<i>Mya arenaria</i>	7.9
	2	<i>Mya arenaria</i>	9.9
	2	<i>Mya arenaria</i>	7.7
	2	<i>Mya arenaria</i>	7.6
	2	<i>Mya arenaria</i>	7.1
	2	<i>Mya arenaria</i>	6.7
	2	<i>Mya arenaria</i>	6.5
	2	<i>Mya arenaria</i>	3.6
	2	<i>Mya arenaria</i>	9.7
	2	<i>Mya arenaria</i>	8.4
	2	<i>Mya arenaria</i>	7.7
	2	<i>Mya arenaria</i>	8.7
	2	<i>Mya arenaria</i>	8.9
	2	<i>Mya arenaria</i>	7.4
	2	<i>Mya arenaria</i>	8.9
	2	<i>Mya arenaria</i>	9.9
	2	<i>Mya arenaria</i>	7.8
	2	<i>Mya arenaria</i>	6.7
	2	<i>Mya arenaria</i>	7.7
	2	<i>Mya arenaria</i>	7.1
	2	<i>Mya arenaria</i>	7.6
	2	<i>Mya arenaria</i>	6.5
	2	<i>Mya arenaria</i>	3.6
	2	<i>Mya arenaria</i>	8.9
	2	<i>Mya arenaria</i>	7.7
	2	<i>Mya arenaria</i>	7.2
	2	<i>Mya arenaria</i>	7.9
	2	<i>Mya arenaria</i>	8.0
	2	<i>Mya arenaria</i>	7.5
	2	<i>Mya arenaria</i>	8.6
	2	<i>Mya arenaria</i>	6.8
	2	<i>Mya arenaria</i>	7.2
	2	<i>Mya arenaria</i>	8.1
	2	<i>Mya arenaria</i>	7.2
	2	<i>Mya arenaria</i>	8.0
	2	<i>Mya arenaria</i>	8.5

Table A-1, cont.

STATION	SAMPLE No.	SPECIES	LENGTH OF SHELL (cm)
	2	<i>Mya arenaria</i>	7.6
	2	<i>Mya arenaria</i>	7.9
	2	<i>Mya arenaria</i>	7.9
	2	<i>Mya arenaria</i>	8.4
	2	<i>Mya arenaria</i>	7.9
	2	<i>Mya arenaria</i>	7.4
	2	<i>Mya arenaria</i>	7.9
Total	52	Mean Length	7.7
C3	1	<i>Mya arenaria</i>	7.9
	1	<i>Mya arenaria</i>	8.2
	1	<i>Mya arenaria</i>	7.3
	1	<i>Mya arenaria</i>	7.6
	1	<i>Mya arenaria</i>	8.8
	1	<i>Mya arenaria</i>	6.8
	1	<i>Mya arenaria</i>	7.1
	1	<i>Mya arenaria</i>	7.1
	1	<i>Mya arenaria</i>	6.1
	1	<i>Mya arenaria</i>	6.5
	1	<i>Mya arenaria</i>	6.0
	1	<i>Mya arenaria</i>	8.4
	1	<i>Mya arenaria</i>	8.4
	1	<i>Mya arenaria</i>	8.3
	1	<i>Mya arenaria</i>	9.3
	1	<i>Mya arenaria</i>	7.7
	1	<i>Mya arenaria</i>	6.2
	1	<i>Mya arenaria</i>	6.0
	1	<i>Mya arenaria</i>	6.1
	1	<i>Mya arenaria</i>	5.1
	1	<i>Mya arenaria</i>	5.6
	1	<i>Mya arenaria</i>	5.8
	1	<i>Mya arenaria</i>	5.3
	1	<i>Mya arenaria</i>	4.9
	1	<i>Mya arenaria</i>	4.7
	1	<i>Mya arenaria</i>	5.1
Total	26	Mean Length	6.8
C3	2	<i>Mya arenaria</i>	7.0
	2	<i>Mya arenaria</i>	7.1
	2	<i>Mya arenaria</i>	7.5
	2	<i>Mya arenaria</i>	8.5
	2	<i>Mya arenaria</i>	6.8
	2	<i>Mya arenaria</i>	6.2
	2	<i>Mya arenaria</i>	6.8
	2	<i>Mya arenaria</i>	7.1
	2	<i>Mya arenaria</i>	7.0
	2	<i>Mya arenaria</i>	6.4
	2	<i>Mya arenaria</i>	5.3
	2	<i>Mya arenaria</i>	6.2
	2	<i>Mya arenaria</i>	7.5
	2	<i>Mya arenaria</i>	8.3
	2	<i>Mya arenaria</i>	8.3
	2	<i>Mya arenaria</i>	8.6
	2	<i>Mya arenaria</i>	7.1
	2	<i>Mya arenaria</i>	8.4
	2	<i>Mya arenaria</i>	5.8

STATION	SAMPLE No.	SPECIES	LENGTH OF SHELL (cm)
	2	<i>Mya arenaria</i>	8.5
	2	<i>Mya arenaria</i>	8.1
	2	<i>Mya arenaria</i>	7.9
Total	22	Mean Length	7.3
C4	1	<i>Mya arenaria</i>	8.3
	1	<i>Mya arenaria</i>	7.3
	1	<i>Mya arenaria</i>	7.9
	1	<i>Mya arenaria</i>	9.1
	1	<i>Mya arenaria</i>	8.3
	1	<i>Mya arenaria</i>	8.2
	1	<i>Mya arenaria</i>	7.1
	1	<i>Mya arenaria</i>	7.8
	1	<i>Mya arenaria</i>	8.0
	1	<i>Mya arenaria</i>	2.6
	1	<i>Mya arenaria</i>	7.1
	1	<i>Mya arenaria</i>	8.9
	1	<i>Mya arenaria</i>	8.3
	1	<i>Mya arenaria</i>	7.7
	1	<i>Mya arenaria</i>	7.5
	1	<i>Mya arenaria</i>	7.2
	1	<i>Mya arenaria</i>	7.4
	1	<i>Mya arenaria</i>	4.7
	1	<i>Mya arenaria</i>	5.1
	1	<i>Mya arenaria</i>	5.7
	1	<i>Mya arenaria</i>	6.7
	1	<i>Mya arenaria</i>	6.4
Total	28	Mean Length	7.5
C5	1	<i>Mya arenaria</i>	9.0
	1	<i>Mya arenaria</i>	7.5
	1	<i>Mya arenaria</i>	7.9
	1	<i>Mya arenaria</i>	8.1
	1	<i>Mya arenaria</i>	8.7
	1	<i>Mya arenaria</i>	8.1
	1	<i>Mya arenaria</i>	8.1
	1	<i>Mya arenaria</i>	7.5
	1	<i>Mya arenaria</i>	7.6
	1	<i>Mya arenaria</i>	8.7
	1	<i>Mya arenaria</i>	8.4
	1	<i>Mya arenaria</i>	7.8
	1	<i>Mya arenaria</i>	8.2
	1	<i>Mya arenaria</i>	7.5
	1	<i>Mya arenaria</i>	8.2
	1	<i>Mya arenaria</i>	7.4
	1	<i>Mya arenaria</i>	6.8
	1	<i>Mya arenaria</i>	6.7
	1	<i>Mya arenaria</i>	6.3
	1	<i>Mya arenaria</i>	4.7
	1	<i>Mya arenaria</i>	5.9
	1	<i>Mya arenaria</i>	4.3
	1	<i>Mya arenaria</i>	9.0
	1	<i>Mya arenaria</i>	8.7
	1	<i>Mya arenaria</i>	8.1
	1	<i>Mya arenaria</i>	8.1
	1	<i>Mya arenaria</i>	8.0
	1	<i>Mya arenaria</i>	6.9

Table A-1, cont.

STATION	SAMPLE No.	SPECIES	LENGTH OF SHELL (cm)
	1	<i>Mya arenaria</i>	7.0
Total	28	Mean Length	7.5
C6	1	<i>Mya arenaria</i>	8.9
	1	<i>Mya arenaria</i>	8.6
	1	<i>Mya arenaria</i>	7.8
	1	<i>Mya arenaria</i>	8.8
	1	<i>Mya arenaria</i>	8.3
	1	<i>Mya arenaria</i>	8.2
	1	<i>Mya arenaria</i>	7.4
	1	<i>Mya arenaria</i>	9.2
	1	<i>Mya arenaria</i>	6.9
	1	<i>Mya arenaria</i>	6.0
	1	<i>Mya arenaria</i>	5.7
	1	<i>Mya arenaria</i>	4.8
	1	<i>Mya arenaria</i>	4.9
	1	<i>Mya arenaria</i>	5.4
	1	<i>Mya arenaria</i>	5.9
	1	<i>Mya arenaria</i>	7.0
	1	<i>Mya arenaria</i>	8.3
	1	<i>Mya arenaria</i>	8.6
	1	<i>Mya arenaria</i>	9.5
	1	<i>Mya arenaria</i>	7.3
	1	<i>Mya arenaria</i>	8.1
	1	<i>Mya arenaria</i>	8.0
Total	22	Mean Length	7.4
C7	1	<i>Macoma nasuta</i>	2.3
	1	<i>Macoma nasuta</i>	2.3
	1	<i>Macoma nasuta</i>	2.2
	1	<i>Mya arenaria</i>	7.5
	1	<i>Mya arenaria</i>	6.2
	1	<i>Mya arenaria</i>	7.1
	1	<i>Mya arenaria</i>	7.8
	1	<i>Mya arenaria</i>	7.3
	1	<i>Mya arenaria</i>	5.7
	1	<i>Mya arenaria</i>	7.5
	1	<i>Mya arenaria</i>	8.3
	1	<i>Mya arenaria</i>	6.4
	1	<i>Mya arenaria</i>	5.1
	1	<i>Mya arenaria</i>	6.6
	1	<i>Mya arenaria</i>	8.1
	1	<i>Mya arenaria</i>	8.9
	1	<i>Mya arenaria</i>	7.2
	1	<i>Mya arenaria</i>	9.0
	1	<i>Mya arenaria</i>	8.7
	1	<i>Mya arenaria</i>	7.8
Total	20	Mean Length	7.4
C7	2	<i>Mya arenaria</i>	7.2
	2	<i>Mya arenaria</i>	7.3
	2	<i>Mya arenaria</i>	7.8
	2	<i>Mya arenaria</i>	7.5
	2	<i>Mya arenaria</i>	5.6
	2	<i>Mya arenaria</i>	7.2
	2	<i>Mya arenaria</i>	6.8
	2	<i>Mya arenaria</i>	8.2

STATION	SAMPLE No.	SPECIES	LENGTH OF SHELL (cm)
	2	<i>Mya arenaria</i>	7.6
	2	<i>Mya arenaria</i>	4.9
	2	<i>Mya arenaria</i>	3.6
	2	<i>Mya arenaria</i>	5.1
	2	<i>Mya arenaria</i>	7.5
	2	<i>Mya arenaria</i>	6.8
	2	<i>Mya arenaria</i>	8.0
	2	<i>Mya arenaria</i>	8.1
	2	<i>Mya arenaria</i>	8.1
	2	<i>Mya arenaria</i>	7.5
	2	<i>Mya arenaria</i>	5.9
	2	<i>Mya arenaria</i>	6.2
	2	<i>Mya arenaria</i>	5.8
	2	<i>Mya arenaria</i>	6.7
Total	22	Mean Length	6.8
C8	1	<i>Mya arenaria</i>	10.0
	1	<i>Mya arenaria</i>	8.5
	1	<i>Mya arenaria</i>	7.0
	1	<i>Mya arenaria</i>	7.0
	1	<i>Mya arenaria</i>	7.7
	1	<i>Mya arenaria</i>	7.1
	1	<i>Mya arenaria</i>	5.4
	1	<i>Mya arenaria</i>	6.4
	1	<i>Mya arenaria</i>	7.8
	1	<i>Mya arenaria</i>	5.8
	1	<i>Mya arenaria</i>	8.4
	1	<i>Mya arenaria</i>	7.8
	1	<i>Mya arenaria</i>	8.0
	1	<i>Mya arenaria</i>	7.7
	1	<i>Mya arenaria</i>	7.4
	1	<i>Mya arenaria</i>	3.9
	1	<i>Mya arenaria</i>	6.4
	1	<i>Mya arenaria</i>	5.0
	1	<i>Mya arenaria</i>	5.4
	1	<i>Mya arenaria</i>	6.4
	1	<i>Mya arenaria</i>	3.8
	1	<i>Mya arenaria</i>	4.7
	1	<i>Mya arenaria</i>	3.8
Total	23	Mean Length	6.6
C9	1	<i>Mya arenaria</i>	8.1
	1	<i>Mya arenaria</i>	9.3
	1	<i>Mya arenaria</i>	8.0
	1	<i>Mya arenaria</i>	7.1
	1	<i>Mya arenaria</i>	7.9
	1	<i>Mya arenaria</i>	8.0
	1	<i>Mya arenaria</i>	6.9
	1	<i>Mya arenaria</i>	7.5
	1	<i>Mya arenaria</i>	8.9
	1	<i>Mya arenaria</i>	9.0
	1	<i>Mya arenaria</i>	8.5
	1	<i>Mya arenaria</i>	9.0
	1	<i>Mya arenaria</i>	8.4
	1	<i>Mya arenaria</i>	6.3
	1	<i>Mya arenaria</i>	8.5

Table A-1, cont.

STATION	SAMPLE No.	SPECIES	LENGTH OF SHELL (cm)
	1	<i>Mya arenaria</i>	9.3
	1	<i>Mya arenaria</i>	9.1
	1	<i>Mya arenaria</i>	8.0
	1	<i>Mya arenaria</i>	8.0
	1	<i>Mya arenaria</i>	5.6
	1	<i>Mya arenaria</i>	3.7
	1	<i>Mya arenaria</i>	8.0
Total	22	Mean Length	7.9
C10	1	<i>Macoma nasuta</i>	2.2
	1	<i>Macoma nasuta</i>	2.2
	1	<i>Mya arenaria</i>	8.7
	1	<i>Mya arenaria</i>	7.5
	1	<i>Mya arenaria</i>	7.9
	1	<i>Mya arenaria</i>	7.5
	1	<i>Mya arenaria</i>	8.5
	1	<i>Mya arenaria</i>	7.0
	1	<i>Mya arenaria</i>	6.2
	1	<i>Mya arenaria</i>	7.7
	1	<i>Mya arenaria</i>	5.3
	1	<i>Mya arenaria</i>	2.9
	1	<i>Mya arenaria</i>	6.2
	1	<i>Mya arenaria</i>	6.4
	1	<i>Mya arenaria</i>	7.2
	1	<i>Mya arenaria</i>	6.7
	1	<i>Mya arenaria</i>	8.3
	1	<i>Mya arenaria</i>	6.8
	1	<i>Mya arenaria</i>	6.7
	1	<i>Mya arenaria</i>	8.3
	1	<i>Mya arenaria</i>	8.7
Total	21	Mean Length	7.1
C10	2	<i>Macoma nasuta</i>	2.0
	2	<i>Macoma nasuta</i>	2.4
	2	<i>Mya arenaria</i>	6.2
	2	<i>Mya arenaria</i>	6.2
	2	<i>Mya arenaria</i>	7.0
	2	<i>Mya arenaria</i>	8.6
	2	<i>Mya arenaria</i>	8.5
	2	<i>Mya arenaria</i>	6.8
	2	<i>Mya arenaria</i>	6.2
	2	<i>Mya arenaria</i>	7.8
	2	<i>Mya arenaria</i>	6.7
	2	<i>Mya arenaria</i>	6.8
	2	<i>Mya arenaria</i>	2.6
	2	<i>Mya arenaria</i>	6.7
	2	<i>Mya arenaria</i>	7.7
	2	<i>Mya arenaria</i>	7.6
	2	<i>Mya arenaria</i>	7.6
	2	<i>Mya arenaria</i>	8.1
	2	<i>Mya arenaria</i>	7.5
Total	19	Mean Length	7.0

Table A-2. Lengths of clams collected from background areas

STATION	SAMPLE No.	CLAM SPECIES	LENGTH OF SHELL (cm)
BI-T1	1	<i>Saxidomus giganteus</i>	7.9
BI-T1	1	<i>Clinocardium nuttallii</i>	7.5
BI-T1	1	<i>Clinocardium nuttallii</i>	6.0
BI-T1	1	<i>Clinocardium nuttallii</i>	6.9
BI-T1	1	<i>Saxidomus giganteus</i>	7.7
BI-T1	1	<i>Saxidomus giganteus</i>	8.1
BI-T1	1	<i>Clinocardium nuttallii</i>	6.4
BI-T1	1	<i>Clinocardium nuttallii</i>	5.6
BI-T1	1	<i>Macoma nasuta</i>	6.5
BI-T1	1	<i>Macoma nasuta</i>	6.4
BI-T1	1	<i>Macoma nasuta</i>	7.2
BI-T1	1	<i>Macoma nasuta</i>	5.2
BI-T1	1	<i>Macoma nasuta</i>	6.3
BI-T1	1	<i>Macoma nasuta</i>	5.2
BI-T1	1	<i>Macoma nasuta</i>	5.5
BI-T1	1	<i>Macoma nasuta</i>	5.0
BI-T1	1	<i>Macoma nasuta</i>	5.3
BI-T1	1	<i>Macoma nasuta</i>	3.8
BI-T1	1	<i>Macoma nasuta</i>	5.5
Total	19	Mean Length	6.2
BI-T2	1	<i>Saxidomus giganteus</i>	8.0
BI-T2	1	<i>Clinocardium nuttallii</i>	2.7
BI-T2	1	<i>Macoma nasuta</i>	7.1
BI-T2	1	<i>Macoma nasuta</i>	5.2
BI-T2	1	<i>Macoma nasuta</i>	3.6
BI-T2	1	<i>Macoma nasuta</i>	5.8
BI-T2	1	<i>Macoma nasuta</i>	4.2
BI-T2	1	<i>Macoma nasuta</i>	4.8
BI-T2	1	<i>Macoma nasuta</i>	4.0
BI-T2	1	<i>Macoma nasuta</i>	5.3
BI-T2	1	<i>Macoma nasuta</i>	6.7
BI-T2	1	<i>Macoma nasuta</i>	3.4
BI-T2	1	<i>Macoma nasuta</i>	6.8
BI-T2	1	<i>Macoma nasuta</i>	4.9
BI-T2	1	<i>Macoma nasuta</i>	2.7
BI-T2	1	<i>Macoma nasuta</i>	7.0
BI-T2	1	<i>Saxidomus giganteus</i>	3.6
BI-T2	1	<i>Macoma nasuta</i>	5.3
BI-T2	1	<i>Macoma nasuta</i>	4.9
BI-T2	1	<i>Macoma nasuta</i>	4.2
BI-T2	1	<i>Clinocardium nuttallii</i>	4.3
BI-T2	1	<i>Clinocardium nuttallii</i>	3.0
BI-T2	1	<i>Macoma nasuta</i>	5.6
Total	23	Mean Length	4.9
BI-T3	1	<i>Clinocardium nuttallii</i>	6.6
BI-T3	1	<i>Clinocardium nuttallii</i>	3.1
BI-T3	1	<i>Clinocardium nuttallii</i>	3.5
BI-T3	1	<i>Clinocardium nuttallii</i>	2.6
BI-T3	1	<i>Macoma nasuta</i>	4.5
BI-T3	1	<i>Macoma nasuta</i>	3.4
BI-T3	1	<i>Macoma nasuta</i>	4.3

STATION	SAMPLE No.	CLAM SPECIES	LENGTH OF SHELL (cm)
BI-T3	1	<i>Macoma nasuta</i>	4.6
BI-T3	1	<i>Macoma nasuta</i>	6.9
BI-T3	1	<i>Tresus capax</i>	6.3
BI-T3	1	<i>Tresus capax</i>	2.2
BI-T3	1	<i>Clinocardium nuttallii</i>	7.8
BI-T3	1	<i>Tresus capax</i>	10.1
BI-T3	1	<i>Clinocardium nuttallii</i>	9.0
BI-T3	1	<i>Clinocardium nuttallii</i>	8.9
BI-T3	1	<i>Clinocardium nuttallii</i>	7.9
BI-T3	1	<i>Clinocardium nuttallii</i>	8.9
BI-T3	1	<i>Saxidomus giganteus</i>	9.4
BI-T3	1	<i>Macoma nasuta</i>	6.9
BI-T3	1	<i>Macoma nasuta</i>	6.1
BI-T3	1	<i>Macoma nasuta</i>	4.7
Total	21	Mean Length	6.1
BI-T4	1	<i>Clinocardium nuttallii</i>	6.7
BI-T4	1	<i>Clinocardium nuttallii</i>	7.1
BI-T4	1	<i>Clinocardium nuttallii</i>	7.8
BI-T4	1	<i>Protothaca staminea^a</i>	5.2
BI-T4	1	<i>Protothaca staminea^a</i>	4.5
BI-T4	1	<i>Protothaca staminea^a</i>	2.0
BI-T4	1	<i>Saxidomus giganteus</i>	8.2
BI-T4	1	<i>Saxidomus giganteus</i>	6.1
BI-T4	1	<i>Macoma nasuta</i>	5.4
BI-T4	1	<i>Macoma nasuta</i>	5.1
BI-T4	1	<i>Macoma nasuta</i>	4.1
BI-T4	1	<i>Macoma nasuta</i>	2.3
BI-T4	1	<i>Tresus capax</i>	10.4
BI-T4	1	<i>Tresus capax</i>	10.4
BI-T4	1	<i>Tresus capax</i>	13.8
BI-T4	1	<i>Tresus capax</i>	3.8
BI-T4	1	<i>Saxidomus giganteus</i>	9.4
BI-T4	1	<i>Macoma nasuta</i>	3.7
BI-T4	1	<i>Macoma nasuta</i>	5.2
BI-T4	1	<i>Clinocardium nuttallii</i>	8.6
BI-T4	1	<i>Clinocardium nuttallii</i>	6.8
Total	21	Mean Length	6.5
BI-T5	1	<i>Saxidomus giganteus</i>	8.9
BI-T5	1	<i>Saxidomus giganteus</i>	9.6
BI-T5	1	<i>Macoma nasuta</i>	5.5
BI-T5	1	<i>Macoma nasuta</i>	4.4
BI-T5	1	<i>Macoma nasuta</i>	4.7
BI-T5	1	<i>Macoma nasuta</i>	3.0
BI-T5	1	<i>Macoma nasuta</i>	3.5
BI-T5	1	<i>Saxidomus giganteus</i>	9.5
BI-T5	1	<i>Clinocardium nuttallii</i>	6.1
BI-T5	1	<i>Clinocardium nuttallii</i>	7.8
BI-T5	1	<i>Clinocardium nuttallii</i>	9.0
BI-T5	1	<i>Clinocardium nuttallii</i>	7.4
BI-T5	1	<i>Saxidomus giganteus</i>	9.4
BI-T5	1	<i>Saxidomus giganteus</i>	8.7

Table A-2, cont.

STATION	SAMPLE No.	CLAM SPECIES	LENGTH OF SHELL (cm)
BI-T5	1	<i>Saxidomus giganteus</i>	7.9
BI-T5	1	<i>Tresus capax</i>	10.0
BI-T5	1	<i>Tresus capax</i>	5.8
BI-T5	1	<i>Clinocardium nuttallii</i>	8.1
BI-T5	1	<i>Clinocardium nuttallii</i>	7.9
BI-T5	1	<i>Clinocardium nuttallii</i>	7.8
Total	20	Mean Length	7.3
BI-T6	1	<i>Clinocardium nuttallii</i>	8.7
BI-T6	1	<i>Clinocardium nuttallii</i>	7.9
BI-T6	1	<i>Clinocardium nuttallii</i>	8.0
BI-T6	1	<i>Clinocardium nuttallii</i>	6.5
BI-T6	1	<i>Clinocardium nuttallii</i>	8.6
BI-T6	1	<i>Clinocardium nuttallii</i>	8.3
BI-T6	1	<i>Tresus capax</i>	8.9
BI-T6	1	<i>Tresus capax</i>	7.0
BI-T6	1	<i>Saxidomus giganteus</i>	7.5
BI-T6	1	<i>Saxidomus giganteus</i>	4.7
BI-T6	1	<i>Macoma nasuta</i>	4.8
BI-T6	1	<i>Macoma nasuta</i>	5.6
BI-T6	1	<i>Macoma nasuta</i>	5.9
BI-T6	1	<i>Macoma nasuta</i>	5.6
BI-T6	1	<i>Macoma nasuta</i>	4.4
BI-T6	1	<i>Macoma nasuta</i>	6.4
BI-T6	1	<i>Clinocardium nuttallii</i>	8.9
BI-T6	1	<i>Saxidomus giganteus</i>	10.2
BI-T6	1	<i>Tresus capax</i>	16.0
BI-T6	1	<i>Tresus capax</i>	11.9
BI-T6	1	<i>Tresus capax</i>	9.7
Total	21	Mean Length	7.9
SP-T1	1	<i>Clinocardium nuttallii</i>	3.6
SP-T1	1	<i>Clinocardium nuttallii</i>	4.4
SP-T1	1	<i>Clinocardium nuttallii</i>	3.2
SP-T1	1	<i>Tresus capax</i>	3.9
SP-T1	1	<i>Tresus capax</i>	2.9
SP-T1	1	<i>Tresus capax</i>	3.0
SP-T1	1	<i>Tresus capax</i>	3.3
SP-T1	1	<i>Tresus capax</i>	3.4
SP-T1	1	<i>Tresus capax</i>	3.7
SP-T1	1	<i>Tresus capax</i>	2.9
SP-T1	1	<i>Tresus capax</i>	2.6
SP-T1	1	<i>Tresus capax</i>	3.0
SP-T1	1	<i>Tresus capax</i>	3.1
SP-T1	1	<i>Tresus capax</i>	3.6
SP-T1	1	<i>Tresus capax</i>	3.6
SP-T1	1	<i>Tresus capax</i>	3.1
SP-T1	1	<i>Tresus capax</i>	3.0
SP-T1	1	<i>Tresus capax</i>	3.0
SP-T1	1	<i>Tresus capax</i>	3.1
SP-T1	1	<i>Tresus capax</i>	3.8
SP-T1	1	<i>Tresus capax</i>	2.9
SP-T1	1	<i>Tresus capax</i>	3.1
SP-T1	1	<i>Tresus capax</i>	3.1
SP-T1	1	<i>Tresus capax</i>	2.7
SP-T1	1	<i>Protothaca staminea</i>	2.5

STATION	SAMPLE No.	CLAM SPECIES	LENGTH OF SHELL (cm)
SP-T1	1	<i>Protothaca staminea</i>	2.7
Total	26	Mean Length	3.2
SP-T2	1	<i>Macoma secta</i>	6.8
SP-T2	1	<i>Macoma secta</i>	6.2
SP-T2	1	<i>Macoma secta</i>	6.8
SP-T2	1	<i>Macoma secta</i>	6.6
SP-T2	1	<i>Macoma secta</i>	6.3
SP-T2	1	<i>Macoma secta</i>	6.3
SP-T2	1	<i>Macoma secta</i>	6.3
SP-T2	1	<i>Macoma secta</i>	6.7
SP-T2	1	<i>Macoma secta</i>	6.6
SP-T2	1	<i>Macoma secta</i>	6.4
SP-T2	1	<i>Macoma secta</i>	4.9
SP-T2	1	<i>Macoma secta</i>	4.7
SP-T2	1	<i>Macoma secta</i>	4.9
SP-T2	1	<i>Macoma secta</i>	3.9
SP-T2	1	<i>Macoma secta</i>	4.7
SP-T2	1	<i>Macoma secta</i>	5.3
SP-T2	1	<i>Macoma secta</i>	6.2
SP-T2	1	<i>Macoma secta</i>	6.6
SP-T2	1	<i>Macoma secta</i>	7.0
SP-T2	1	<i>Macoma secta</i>	7.0
SP-T2	1	<i>Macoma secta</i>	6.5
SP-T2	1	<i>Macoma secta</i>	6.3
SP-T2	1	<i>Macoma secta</i>	7.0
SP-T2	1	<i>Macoma secta</i>	6.9
Total	24	Mean Length	6.1
SP-T3	1	<i>Macoma secta</i>	6.6
SP-T3	1	<i>Macoma secta</i>	5.7
SP-T3	1	<i>Macoma secta</i>	6.3
SP-T3	1	<i>Macoma secta</i>	6.1
SP-T3	1	<i>Macoma secta</i>	6.3
SP-T3	1	<i>Macoma secta</i>	6.6
SP-T3	1	<i>Macoma secta</i>	6.4
SP-T3	1	<i>Macoma secta</i>	6.9
SP-T3	1	<i>Macoma secta</i>	6.2
SP-T3	1	<i>Macoma secta</i>	6.6
SP-T3	1	<i>Macoma secta</i>	5.9
SP-T3	1	<i>Macoma secta</i>	5.2
SP-T3	1	<i>Macoma secta</i>	6.2
SP-T3	1	<i>Macoma secta</i>	6.3
SP-T3	1	<i>Macoma secta</i>	6.4
SP-T3	1	<i>Macoma secta</i>	5.3
SP-T3	1	<i>Macoma secta</i>	6.1
SP-T3	1	<i>Macoma secta</i>	6.9
SP-T3	1	<i>Macoma secta</i>	5.0
Total	19	Mean Length	6.2
SP-T4	1	<i>Macoma secta</i>	6.7
SP-T4	1	<i>Macoma secta</i>	6.7
SP-T4	1	<i>Macoma secta</i>	5.9
SP-T4	1	<i>Macoma secta</i>	6.3
SP-T4	1	<i>Macoma secta</i>	6.8
SP-T4	1	<i>Macoma secta</i>	5.0
SP-T4	1	<i>Macoma secta</i>	6.5

Table A-2, cont.

STATION	SAMPLE No.	CLAM SPECIES	LENGTH OF SHELL (cm)
SP-T4	1	<i>Macoma secta</i>	5.8
SP-T4	1	<i>Macoma secta</i>	5.0
SP-T4	1	<i>Macoma secta</i>	6.3
SP-T4	1	<i>Macoma secta</i>	5.9
SP-T4	1	<i>Macoma secta</i>	3.9
SP-T4	1	<i>Macoma secta</i>	5.3
SP-T4	1	<i>Macoma secta</i>	6.1
SP-T4	1	<i>Macoma secta</i>	6.1
SP-T4	1	<i>Macoma secta</i>	6.4
SP-T4	1	<i>Macoma secta</i>	6.5
SP-T4	1	<i>Macoma secta</i>	6.2
SP-T4	1	<i>Macoma secta</i>	6.6
SP-T4	1	<i>Macoma secta</i>	6.3
SP-T4	1	<i>Macoma secta</i>	6.1
Total	21	Mean Length	6.0
SP-T5	1	<i>Macoma secta</i>	6.9
SP-T5	1	<i>Macoma secta</i>	6.7
SP-T5	1	<i>Macoma secta</i>	6.8
SP-T5	1	<i>Macoma secta</i>	7.0
SP-T5	1	<i>Macoma secta</i>	6.2
SP-T5	1	<i>Macoma secta</i>	6.6
SP-T5	1	<i>Macoma secta</i>	6.6
SP-T5	1	<i>Macoma secta</i>	6.8
SP-T5	1	<i>Macoma secta</i>	5.3
SP-T5	1	<i>Macoma secta</i>	6.5
SP-T5	1	<i>Macoma secta</i>	5.9
SP-T5	1	<i>Macoma secta</i>	5.0
SP-T5	1	<i>Macoma secta</i>	5.6

STATION	SAMPLE No.	CLAM SPECIES	LENGTH OF SHELL (cm)
SP-T5	1	<i>Macoma secta</i>	6.0
SP-T5	1	<i>Macoma secta</i>	7.1
SP-T5	1	<i>Macoma secta</i>	7.1
SP-T5	1	<i>Macoma secta</i>	7.4
SP-T5	1	<i>Macoma secta</i>	4.5
SP-T5	1	<i>Macoma secta</i>	5.1
Total	19	Mean Length	6.3
SP-T6	1	<i>Macoma secta</i>	6.4
SP-T6	1	<i>Macoma secta</i>	6.1
SP-T6	1	<i>Macoma secta</i>	6.5
SP-T6	1	<i>Macoma secta</i>	5.2
SP-T6	1	<i>Macoma secta</i>	6.0
SP-T6	1	<i>Macoma secta</i>	5.5
SP-T6	1	<i>Macoma secta</i>	5.4
SP-T6	1	<i>Macoma secta</i>	6.5
SP-T6	1	<i>Macoma secta</i>	6.0
SP-T6	1	<i>Macoma secta</i>	5.5
SP-T6	1	<i>Macoma secta</i>	5.2
SP-T6	1	<i>Macoma secta</i>	5.2
SP-T6	1	<i>Macoma secta</i>	5.0
SP-T6	1	<i>Macoma secta</i>	5.0
SP-T6	1	<i>Macoma secta</i>	4.5
SP-T6	1	<i>Macoma secta</i>	4.5
SP-T6	1	<i>Macoma secta</i>	4.3
SP-T6	1	<i>Macoma secta</i>	4.1
SP-T6	1	<i>Macoma secta</i>	3.4
SP-T6	1	<i>Macoma nasuta</i>	3.2
Total	20	Mean Length	5.2

^a Identified by sunken ligament and no pattern

Table A-3. Concentrations of all analytes in intertidal benthic invertebrate tissue samples

ANALYTE	UNIT	B1a-T	B2a-T	B3a-T	B4a-T	B5a-T	B6a-T	B7a-T	B8a-T	B9a-T	B10a-T
Alkylated PAHs											
C1-Chrysenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C1-Dibenzothiophenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	46 J*	25 UJ*	25 UJ*	25 UJ*
C1-Fluoranthene	µg/kg ww	25 UJ*	50 J*	25 UJ*	39 J*	46 UJ*	160 J*	43 J*	84 J*	25 UJ*	25 UJ*
C1-Fluorenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	34 J*	39 J*	25 UJ*	25 UJ*	25 UJ*
C1-Phenanthrenes/anthracenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	140 J*	98 J*	120 J*	25 UJ*	25 UJ*
C2-Chrysenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C2-Dibenzothiophenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	36J*	25 UJ*	25 UJ*	25 UJ*
C2-Fluorenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	58J*	84J*	25 UJ*	25 UJ*	25 UJ*
C2-Naphthalenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	68J*	25 UJ*	25 UJ*	25 UJ*
C2-Phenanthrenes/anthracenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	100	94 J*	62 J*	25 UJ*	25 UJ*
C3-Chrysenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C3-Dibenzothiophenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C3-Fluorenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	44 J*	92 J*	25 UJ*	25 UJ*	25 UJ*
C3-Naphthalenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	120J*	25 UJ*	25 UJ*	25 UJ*
C3-Phenanthrenes/anthracenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	55 J*	43 J*	60 J*	25 UJ*	25 UJ*	25 UJ*
C4-Chrysenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C4-Naphthalenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	110J*	25 UJ*	25 UJ*	25 UJ*
C4-Phenanthrenes/anthracenes	µg/kg ww	25 UJ*	25 UJ*	25 UJ*	25 UJ*	46 UJ*	25 UJ*	29 J*	25 UJ*	25 UJ*	25 UJ*
Metals and trace elements											
Antimony	mg/kg ww	0.0074	0.0128	0.0031	0.0943	0.017	0.0354	0.0076	0.0107	0.0014	0.0057
Arsenic	mg/kg ww	0.623	1.820	0.915	2.450	1.770	1.710	0.923	0.788	0.947	0.809
Cadmium	mg/kg ww	0.0269 J	0.0361 J	0.0677 J	0.0377 J	0.055 J	0.0303 J	0.0308 J	0.0549	0.0211 J	0.0264
Chromium	mg/kg ww	0.08	0.27	0.18	0.18	2.80	0.41	3.90	0.31	0.27	0.23
Cobalt	mg/kg ww	0.0514 J	0.1510 J	0.1340 J	0.1370 J	0.3070	0.2920 J	0.1440 J	0.1280 J	0.1360 J	0.1070 J
Copper	mg/kg ww	4.38 J	3.04 J	7.86 J	9.28 J	21.8	3.85 J	3.50 J	4.37 J	2.61 J	4.82 J
Lead	mg/kg ww	0.506	0.488	0.179	0.519	2.260	1.560	14.60	0.532	0.182	0.409
Mercury	mg/kg ww	0.016	0.007	0.004 U	0.006	0.010	0.005	0.004	0.024	0.002	0.044
Molybdenum	mg/kg ww	0.0563	0.1440	0.0953	0.1420	0.1780	0.1870	0.1260	0.1010	0.0720	0.0667
Nickel	mg/kg ww	0.094	0.385	0.206	0.184	0.888	0.355	0.157	0.253 J	0.234	0.235 J
Selenium	mg/kg ww	0.085	0.179	0.148	0.150	0.214	0.178	0.120	0.089	0.092	0.092
Silver	mg/kg ww	0.0129 J	0.024 J	0.0346 J	0.0827 J	0.0333	0.0302 J	0.0268 J	0.165 J	0.0132 J	0.0202 J
Thallium	mg/kg ww	0.0006	0.0011	0.0021	0.0015	0.0028	0.0022	0.0010	0.0011	0.0015	0.0014

Table A-3, cont.

ANALYTE	UNIT	B1a-T	B2a-T	B3a-T	B4a-T	B5a-T	B6a-T	B7a-T	B8a-T	B9a-T	B10a-T
Vanadium	mg/kg ww	0.26	0.54	0.58	0.48	1.55	1.13	0.42	0.54	0.75	0.65
Zinc	mg/kg ww	8.22	17.5	17.4	27.7	31.6	43.6	25.7	22.9	12.9	10.3
Organometals											
Monobutyltin as ion	µg/kg ww	5.0 U	4.6 U	5.0 U	6.1	4.3 J	4.9 U	6.7 U	2.4 J	4.8 U	4.6 U
Dibutyltin as ion	µg/kg ww	5.0 U	6.6	4.0 J	8.9	4.6 J	3.6 J	6.1 J	2.2 J	4.8 U	2.5 J
Tributyltin as ion	µg/kg ww	5.0 U	27	12	30	22	15	30	18	7.4	3.8 J
Tetrabutyltin as ion	µg/kg ww	5.0 U	4.6 U	5.0 U	5.0 U	7.1 U	4.9 U	6.7 U	4.9 U	4.8 U	4.6 U
Pesticides											
2,4'-DDD	µg/kg ww	4.1 JN	11 U	6.9 J	16 U	15 U	9.8 U	14 U	43 J	21 U	10 U
2,4'-DDE	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	3.0 JN	14 U	45 U	9.9 U	5.8 J
2,4'-DDT	µg/kg ww	7.4 JN	10 U	17	9.9 U	70 J	10 U	18 J	34 U	16	10 U
4,4'-DDD	µg/kg ww	10 U	10 U	10 U	9.9 U	13 J	2.5 JN	14 U	10 U	9.9 U	2.5 J
4,4'-DDE	µg/kg ww	10 U	10 U	10 U	1.4 JN	39	9.8 U	2.9 J	10 U	9.9 U	3.5 J
4,4'-DDT	µg/kg ww	4.4 JN	10 JN	6.3 J	5.8 JN	45	12 JN	14 U	82	9.9 U	4.5 J
Aldrin	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	10 U
alpha-BHC	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	10 U
alpha-Chlordane	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	10 U
alpha-Endosulfan	µg/kg ww	10 U	3.9 JN	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	3.8 J
beta-BHC	µg/kg ww	10 U	12 U	13 J	7.9 JN	15 UJ	13 JN	14 U	10 U	10	10 U
beta-Endosulfan	µg/kg ww	10 U	8.0 JN	10 U	9.9 U	15 U	6.8 JN	14 U	10 U	9.9 U	10 U
DDTs (total-calc'd) ^b	µg/kg ww	15.9 JN	10 JN	30 J	7.2 JN	167 J	18 JN	21 J	125 J	16	16.3 J
delta-BHC	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	10 U
Dieldrin	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	2.8 J
Endosulfan sulfate	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	10 U
Endrin	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	10 U
Endrin aldehyde	µg/kg ww	10 U	10 U	2.4 J	9.9 U	15 U	9.8 U	14 U	10 U	11	10 U
Endrin ketone	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	16 U	9.9 U	10 U
gamma-BHC	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	10 U
gamma-Chlordane	µg/kg ww	10 U	10 U	10 U	3.1 JN	16	9.8 U	3.9 J	12 U	9.9 U	10 U
Heptachlor	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	8.6 J	10 U
Heptachlor epoxide	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	6.6 J	10 U	9.9 U	10 U
Methoxychlor	µg/kg ww	10 U	5.6 JN	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	10 U
Mirex	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	10 U
Toxaphene	µg/kg ww	500 U	500 U	500 U	500 U	710 U	490 U	660 U	2,100 U	500 U	500 U

Table A-3, cont.

ANALYTE	UNIT	B1a-T	B2a-T	B3a-T	B4a-T	B5a-T	B6a-T	B7a-T	B8a-T	B9a-T	B10a-T
Polychlorinated biphenyls											
Aroclor-1016	µg/kg ww	100 U	100 U	100 U	99 U	150 U	98 U	140 U	100 U	99 U	100 U
Aroclor-1221	µg/kg ww	200 U	200 U	200 U	200 U	290 U	200 U	270 U	200 U	200 U	200 U
Aroclor-1232	µg/kg ww	100 U	100 U	100 U	99 U	150 U	98 U	140 U	100 U	99 U	100 U
Aroclor-1242	µg/kg ww	100 U	100 U	100 U	99 U	150 U	98 U	140 U	100 U	99 U	100 U
Aroclor-1248	µg/kg ww	100 U	100 U	100 U	99 U	150 U	98 U	140 U	100 U	99 U	100 U
Aroclor-1254	µg/kg ww	66 J	180	92 J	99 U	730	220	110 J	100 U	110	62 J
Aroclor-1260	µg/kg ww	100 U	100 U	100 U	99 U	660	98 U	140 U	1,400	99 U	100 U
PCBs (total calc'd) ^b	µg/kg ww	66 J	180	92 J	200 U	1,390	220	110 J	1,400	110	62 J
Semivolatile organic compounds											
1,2,4-Trichlorobenzene	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
1,2-Dichlorobenzene	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
1,3-Dichlorobenzene	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
1,4-Dichlorobenzene	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
1-Methylnaphthalene	µg/kg ww	1.9 J	1.6 J	1.2 J	1.5 J	2.4 J	2.4 J	5.0 J	3.3 J	1.4 J	1.2 J
2,4,5-Trichlorophenol	µg/kg ww	400 U	400 U	400 U	390 U	730 U	400 U	400 U	400 U	400 U	400 U
2,4,6-Trichlorophenol	µg/kg ww	400 U	400 U	400 U	390 U	730 U	400 U	400 U	400 U	400 U	400 U
2,4-Dichlorophenol	µg/kg ww	400 U	400 U	400 U	390 U	730 U	400 U	400 U	400 U	400 U	400 U
2,4-Dimethylphenol	µg/kg ww	400 UJ	400 UJ	400 UJ	390 UJ	730 U	400 UJ	400 UJ	400 UJ	400 UJ	400 UJ
2,4-Dinitrophenol	µg/kg ww	4,000 U	4,000 U	4,000 U	3,900 U	7,300 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
2,4-Dinitrotoluene	µg/kg ww	400 U	400 U	400 U	390 U	730 U	400 U	400 U	400 U	400 U	400 U
2,6-Dinitrotoluene	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
2-Chloronaphthalene	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
2-Chlorophenol	µg/kg ww	400 U	400 U	400 U	390 U	730 U	400 U	400 U	400 U	400 U	400 U
2-Methylnaphthalene	µg/kg ww	2.3 J	2.1 J	1.3 J	1.7 J	3.0 J	2.7 J	5.6 J	2.9 J	1.5 J	1.3 J
2-Methylphenol	µg/kg ww	400 U	400 U	400 U	390 U	730 U	400 U	400 U	400 U	400 U	400 U
2-Nitroaniline	µg/kg ww	1,000 U	1,000 U	990 U	970 U	1,900 U	980 U	990 U	980 U	990 U	980 U
2-Nitrophenol	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
3,3'-Dichlorobenzidine	µg/kg ww	10,000 U	10,000 U	9,900 U	9,700 U	19,000 U	9,800 U	9,900 U	9,800 U	9,900 U	9,800 U
3-Nitroaniline	µg/kg ww	2,000 U	2,000 U	2,000 U	2,000 U	3,700 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
4,6-Dinitro-o-cresol	µg/kg ww	2,000 U	2,000 U	2,000 U	2,000 U	3,700 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
4-Bromophenyl phenyl ether	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
4-Chloro-3-methylphenol	µg/kg ww	1,000 U	1,000 U	990 U	970 U	1,900 U	980 U	990 U	980 U	990 U	980 U
4-Chloroaniline	µg/kg ww	1,000 U	1,000 U	990 U	970 U	1,900 U	980 U	990 U	980 U	990 U	980 U
4-Chlorophenyl phenyl ether	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U

Table A-3, cont.

ANALYTE	UNIT	B1a-T	B2a-T	B3a-T	B4a-T	B5a-T	B6a-T	B7a-T	B8a-T	B9a-T	B10a-T
4-Methylphenol	µg/kg ww	400 U	400 U	230 J	86 J	730 U	400 U	400 U	400 U	44,000	400 U
4-Nitroaniline	µg/kg ww	1,000 U	1,000 U	990 U	970 U	1,900 U	980 U	990 U	980 U	990 U	980 U
4-Nitrophenol	µg/kg ww	2,000 U	2,000 U	2,000 U	2,000 U	2,300 J	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
Acenaphthene	µg/kg ww	2.3 J	2.6 J	1.4 J	2.5 J	2.8 J	22 J	4.0 J	35	2.0 J	0.95 J
Acenaphthylene	µg/kg ww	0.81 J	2.1 J	0.54 J	2.3 J	1.6 J	2.6 J	3.8 J	1.6 J	25 U	0.40 J
Aniline	µg/kg ww	4,000 UJ	4,000 UJ	4,000 UJ	3,900 UJ	7,300 U	4,000 UJ	4,000 UJ	4,000 UJ	4,000 UJ	4,000 UJ
Anthracene	µg/kg ww	2.6 J	6.4 J	1.7 J	5.8 J	4.7 J	30	6.5 J	32	1.4 J	1.0 J
Benzidine	µg/kg ww	25,000 U	25,000 U	25,000 U	25,000 U	46,000 U	25,000 U	25,000 U	25,000 U	25,000 U	25,000 U
Benzo(a)anthracene	µg/kg ww	2.1 J	21 J	3.3 J	16 J	12 J	59	16 J	41	3.9 J	0.93 J
Benzo(a)pyrene	µg/kg ww	2.3 J	12 J	25 U	12 J	4.1 J	10 J	6.8 J	9.3 J	2.0 J	25 U
Benzo(b)fluoranthene	µg/kg ww	3.3 J	23 J	2.1 J	18 J	6.1 J	18 J	13 J	13 J	2.4 J	1.5 J
Benzo(e)pyrene	µg/kg ww	12 J	23 J	6.8 J	19 J	6.7 J	17 J	15 J	13 J	5.7 J	3.8 J
Benzo(g,h,i)perylene	µg/kg ww	2.9 J	7.5 J	1.1 J	9.8 J	3.5 J	4.1 J	6.0 J	3.6 J	1.4 J	1.2 J
Benzo(k)fluoranthene	µg/kg ww	3.7 J	15 J	1.6 J	12 J	3.8 J	11 J	8.7 J	12 J	2.6 J	1.9 J
Benzofluoranthenes (total-calc'd) ^b	µg/kg ww	7.0 J	38 J	3.7 J	30 J	9.9 J	29 J	22 J	25 J	5.0 J	3.4 J
Benzoic acid	µg/kg ww	4,000 U	4,200	1,700 J	2,700 J	8,200	9,700	1,500 J	1,300 J	1,900 J	1,000 J
Benzyl alcohol	µg/kg ww	200 U	200 U	57 J	200 U	1,100	200 U	200 U	200 U	90 J	200 U
Biphenyl	µg/kg ww	1.5 J	1.6 J	1.6 J	1.7 J	3.1 J	1.7 J	4.9 J	5.0 J	1.8 J	1.5 J
bis(2-chloroethoxy)methane	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
bis(2-chloroethyl)ether	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
bis(2-chloroisopropyl)ether	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
Bis(2-ethylhexyl)phthalate	µg/kg ww	2,500 U	2,500 U	2,500 U	2,500 U	2,100 J	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U
Butyl benzyl phthalate	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
Carbazole	µg/kg ww	1,000 U	1,000 U	990 U	970 U	1,900 U	980 U	990 U	980 U	990 U	980 U
Chrysene	µg/kg ww	26	42	16 J	42	25 J	76	33	42	12 J	8.2 J
Dibenzo(a,h)anthracene	µg/kg ww	1.4 J	1.7 J	25 U	4.4 J	1.2 J	1.3 J	1.3 J	0.81 J	25 U	25 U
Dibenzofuran	µg/kg ww	1.7 J	2.5 J	0.82 J	1.9 J	1.5 J	6.0 J	3.7 J	32	0.73 J	25 U
Dibenzothiophene	µg/kg ww	1.5 J	1.8 J	0.82 J	1.5 J	1.4 J	26	12 J	18 J	25 U	25 U
Diethyl phthalate	µg/kg ww	400 U	400 U	400 U	390 U	730 U	400 U	400 U	400 U	400 U	400 U
Dimethyl phthalate	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
Di-n-butyl phthalate	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
Di-n-octyl phthalate	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
Fluoranthene	µg/kg ww	26	73	23 J	52	41 J	430	58	270	19 J	10 J
Fluorene	µg/kg ww	3.1 J	4.3 J	1.5 J	3.1 J	2.5 J	14 J	12 J	57	1.1 J	0.83 J
Hexachlorobenzene	µg/kg ww	10 U	10 U	10 U	9.9 U	15 U	9.8 U	14 U	10 U	9.9 U	10 U

Table A-3, cont.

ANALYTE	UNIT	B1a-T	B2a-T	B3a-T	B4a-T	B5a-T	B6a-T	B7a-T	B8a-T	B9a-T	B10a-T
Hexachlorobutadiene	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
Hexachlorocyclopentadiene	µg/kg ww	25,000 U	25,000 U	25,000 U	25,000 U	46,000 U	25,000 U	25,000 U	25,000 U	25,000 U	25,000 U
Hexachloroethane	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
Indeno(1,2,3-cd)pyrene	µg/kg ww	1.5 J	6.4 J	25 U	9.5 J	2.8 J	3.5 J	4.5 J	3.1 J	1.2 J	0.84 J
Isophorone	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
Naphthalene	µg/kg ww	5.0 J	5.5 J	5.1 J	5.3 J	7.3 J	6.4 J	6.4 J	6.5 J	6.5 J	5.4 J
Nitrobenzene	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
N-Nitrosodimethylamine	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
N-Nitroso-di-n-propylamine	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	2,300 U
N-Nitrosodiphenylamine	µg/kg ww	200 U	200 U	200 U	200 U	370 U	200 U	200 U	200 U	200 U	200 U
Pentachlorophenol	µg/kg ww	2,000 U	2,000 U	2,000 U	2,000 U	2,300 J	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
Perylene	µg/kg ww	25 U	14 J	25 U	25 U	4.1 J	4.4 J	25 U	3.2 J	25 U	25 U
Phenanthrene	µg/kg ww	14 J	19 J	5.8 J	14 J	10 J	57	48	320	3.7 J	3.8 J
Phenol	µg/kg ww	580	150 J	150 J	490 U	910 U	120 J	120 J	490 U	200 J	490 U
Pyrene	µg/kg ww	36	78	23 J	54	51	290	61	230	20 J	11 J
Total HPAH (calc'd) ^b	µg/kg ww	105 J	280 J	70 J	230 J	151 J	900 J	208 J	620 J	65 J	36 J
Total LPAH (calc'd) ^b	µg/kg ww	28 J	40 J	16 J	33 J	29 J	132 J	81 J	450 J	14.7 J	12.4 J
Conventional parameters											
Lipid	% ww	0.97	0.99	0.87	0.79	1.1	1.4	0.66	0.35	0.91	0.95
Total solids	% ww	8.29	9.73	9.75	9.39	15.2	15.7	6.70 ^a	6.6 ^a	7.65	10.1

^a Laboratory replicate was run for sample. Value selected using averaging rules in Appendix B.

^b Totals were calculated following rules described in Appendix B

ww – wet weight

Data qualifiers: U - not detected at reporting limit shown; J - estimated concentration; UJ - not detected at estimated reporting limit shown; JN - analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification; value is an estimate; J* - Alkylated PAHs were analyzed by the method specified in the QAPP. The validation review did not result in qualification. EPA QA office requested the J qualification based on the use of parent compound response factors to quantify the alkylated compounds.

Table A-4. Concentrations of all analytes in subtidal benthic invertebrate tissue samples

ANALYTE	UNIT	B1b-T	B2b-T	B3b-T	B4b-T	B5b-T	B6b-T	B7b-T	B8b-T	B9b-T	B10b-T
Alkylated PAHs											
C1-Chrysenes	µg/kg ww	49 UJ*	50 UJ*	240 J*	140 J*	36 J*	72 J*	38 J*	25 UJ*	25 UJ*	25 UJ*
C1-Dibenzothiophenes	µg/kg ww	49 UJ*	50 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C1-Fluoranthene	µg/kg ww	64 J*	61 J*	560 J*	250 J*	100 J*	140 J*	100 J*	25 UJ*	25 UJ*	25 UJ*
C1-Fluorenes	µg/kg ww	49 UJ*	50 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C1-Phenanthrenes/anthracenes	µg/kg ww	49 UJ*	50 UJ*	140 J*	99 J*	25 UJ*	28 J*	26 J*	25 UJ*	25 UJ*	25 UJ*
C2-Chrysenes	µg/kg ww	49 UJ*	50 UJ*	140 J*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C2-Dibenzothiophenes	µg/kg ww	49 UJ*	50 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C2-Fluorenes	µg/kg ww	49 UJ*	50 UJ*	72 J*	25 UJ*	25 UJ*	36 J*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C2-Naphthalenes	µg/kg ww	49 UJ*	50 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C2-Phenanthrenes/anthracenes	µg/kg ww	49 UJ*	50 UJ*	110 J*	74 J*	25 UJ*	28 J*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C3-Chrysenes	µg/kg ww	49 UJ*	50 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C3-Dibenzothiophenes	µg/kg ww	49 UJ*	50 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C3-Fluorenes	µg/kg ww	49 UJ*	50 UJ*	37 J*	47 J*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C3-Naphthalenes	µg/kg ww	49 UJ*	50 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C3-Phenanthrenes/anthracenes	µg/kg ww	49 UJ*	50 UJ*	71 J*	62 J*	25 UJ*	35 J*	44 J*	25 UJ*	25 UJ*	25 UJ*
C4-Chrysenes	µg/kg ww	49 UJ*	50 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C4-Naphthalenes	µg/kg ww	49 UJ*	50 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*	25 UJ*
C4-Phenanthrenes/anthracenes	µg/kg ww	49 UJ*	50 UJ*	35 J*	43 J*	25 UJ*	25 UJ*	55 J*	25 UJ*	25 UJ*	25 UJ*
Metals and trace elements											
Antimony	mg/kg ww	0.019	0.029	0.172	0.0080	0.016	0.0061	0.0022	0.0049	0.0013	0.0046
Arsenic	mg/kg ww	1.40	1.32	17.4	1.89	1.12	4.45	3.07	1.99	0.573	0.843
Cadmium	mg/kg ww	0.172 J	0.202 J	0.103 J	0.072 J	0.048 J	0.0501	0.0424 J	0.0397	0.0175 J	0.0599
Chromium	mg/kg ww	2.66	1.32	1.93	1.82	0.84	1.08	1.20	0.59	0.15	0.28
Cobalt	mg/kg ww	0.3050	0.2130	0.5520 J	0.3710	0.1460	0.3400 J	0.3640 J	0.2280 J	0.0908 J	0.1290 J
Copper	mg/kg ww	20.6	15.5	13.2 J	19.2	10.3	4.78 J	5.10 J	5.25 J	1.94 J	9.05 J
Lead	mg/kg ww	1.390	1.410	4.700	2.390	0.821	1.810	1.030	0.217	0.143	0.202
Mercury	mg/kg ww	0.009	0.012	0.014	0.015	0.009 U	0.010	0.008	0.006	0.005	0.004
Molybdenum	mg/kg ww	0.4330	0.2490	0.4110	0.1760	0.1240	0.1350	0.1280	0.1210	0.0613	0.0758
Nickel	mg/kg ww	1.630	0.957	0.939	2.950	0.778	0.688 J	0.736	0.660 J	0.170	1.060 J
Selenium	mg/kg ww	0.603	0.434	0.323	0.358	0.263	0.368	0.328	0.153	0.055	0.086
Silver	mg/kg ww	0.073	0.112	0.0907 J	0.095	0.054	0.0427 J	0.0397 J	0.0295 J	0.0126 J	0.0279 J
Thallium	mg/kg ww	0.0032	0.0030	0.0049	0.0068	0.0024	0.0049	0.0056	0.0018	0.0009	0.0012

Table A-4, cont.

ANALYTE	UNIT	B1b-T	B2b-T	B3b-T	B4b-T	B5b-T	B6b-T	B7b-T	B8b-T	B9b-T	B10b-T
Vanadium	mg/kg ww	1.97	1.10	2.48	2.70	1.13	2.80	3.04	0.82	0.40	0.49
Zinc	mg/kg ww	14.4	20.7	42.3	19.6	26.4	21.7	15.7	19.7	9.55	11.1
Organometals											
Monobutyltin as ion	µg/kg ww	30	8.5 J	6.5	8.5	4.1	9.4 U	4.7	4.9 U	4.9 U	5.0 U
Dibutyltin as ion	µg/kg ww	21	22	24	20	7.1	7.3 J	18	4.9 U	4.9 U	5.0 U
Tributyltin as ion	µg/kg ww	92	77	46	46	33	35	37	13	7.0	7.9
Tetrabutyltin as ion	µg/kg ww	11 U	8.9 U	5.0 U	1.6 U	2.4 U	9.4 U	4.5 U	4.9 U	4.9 U	5.0 U
Pesticides											
2,4'-DDD	µg/kg ww	10 U	16 J	10 U	9.9 U	13 J ^a	17 J	9.9 U	9.7 U	9.9 U	10 U
2,4'-DDE	µg/kg ww	10 U	10 U	11 JN	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
2,4'-DDT	µg/kg ww	10 U	38 J	28 U	18 J	83 J ^a	44 J	12 U	9.7 U	9.9 JN	8.0 J
4,4'-DDD	µg/kg ww	10 U	3.9 J	10 U	2.4 J	2.2 J ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
4,4'-DDE	µg/kg ww	5.0 J	5.5 J	9.0 JN	4.4 J	4.8 J ^a	3.9 J	3.7 JN	2.2 J	2.7 JN	2.1 J
4,4'-DDT	µg/kg ww	11	18	17 U	14	18 ^a	27 J	10 JN	9.7 U	6.8 JN	5.2 J
Aldrin	µg/kg ww	10 U	10 U	10 U	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
alpha-BHC	µg/kg ww	10 U	10 U	21 JN	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
alpha-Chlordane	µg/kg ww	10 U	10 U	12 JN	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
alpha-Endosulfan	µg/kg ww	10 U	10 U	10 U	2.8 J	9.9 U ^a	30	9.9 U	9.7 U	9.9 U	10 U
beta-BHC	µg/kg ww	10 UJ	10 UJ	10 U	9.9 UJ	9.9 U ^a	18 U	11 U	9.7 U	9.9 U	10 U
beta-Endosulfan	µg/kg ww	10 U	10 U	10 U	9.9 U	9.9 U ^a	18 U	16 JN	13	9.9 U	10 U
DDTs (total-calc'd) ^b	µg/kg ww	16 J	81 J	20 JN	39 J	121 J ^a	92 J	14 JN	2.2 J	19.4 JN	15.3 J
delta-BHC	µg/kg ww	10 U	10 U	10 U	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
Dieldrin	µg/kg ww	10 U	10 U	10 U	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
Endosulfan sulfate	µg/kg ww	10 U	54 U	58 U	27 U	9.9 U ^a	87 U	190 U	9.7 U	9.9 U	10 U
Endrin	µg/kg ww	10 U	10 U	10 U	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
Endrin aldehyde	µg/kg ww	10 U	10 U	10 U	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
Endrin ketone	µg/kg ww	10 U	10 U	6.5 JN	9.9 U	8.4 J ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
gamma-BHC	µg/kg ww	10 U	10 U	10 U	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
gamma-Chlordane	µg/kg ww	4.9 J	7.0 J	22 JN	3.4 J	9.9 U ^a	18 U	4.3 JN	1.4	3.7 JN	10 U
Heptachlor	µg/kg ww	10 U	10 U	10 U	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
Heptachlor epoxide	µg/kg ww	10 U	10 U	10 U	6.0 J	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	2.8 J
Methoxychlor	µg/kg ww	6.3 J	10 U	10 U	9.9 U	9.9 U ^a	42	9.9 U	9.7 U	9.9 U	10 U
Mirex	µg/kg ww	10 U	10 U	10 U	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U
Toxaphene	µg/kg ww	500 U	500 U	940 U	500 U	500 U ^a	890 U	500 U	490 U	500 U	500 U

Table A-4, cont.

ANALYTE	UNIT	B1b-T	B2b-T	B3b-T	B4b-T	B5b-T	B6b-T	B7b-T	B8b-T	B9b-T	B10b-T
Polychlorinated biphenyls											
Aroclor-1016	µg/kg ww	100 U	100 U	100 U	99 U	99 U ^a	180 U	99 U	97 U	99 U	100 U
Aroclor-1221	µg/kg ww	200 U	200 U	200 U	200 U	200 U ^a	360 U	200 U	200 U	200 U	200 U
Aroclor-1232	µg/kg ww	100 U	100 U	100 U	99 U	99 U ^a	180 U	99 U	97 U	99 U	100 U
Aroclor-1242	µg/kg ww	100 U	100 U	100 U	99 U	99 U ^a	180 U	99 U	97 U	99 U	100 U
Aroclor-1248	µg/kg ww	100 U	100 U	100 U	99 U	99 U ^a	180 U	99 U	97 U	99 U	100 U
Aroclor-1254	µg/kg ww	100	240	310	160	210 ^a	220	180	60 J	99 J	74 J
Aroclor-1260	µg/kg ww	100 U	100 U	100 U	99 U	99 U ^a	180 U	99 U	97 U	99 U	100 U
PCBs (total calc'd) ^b	µg/kg ww	100	240	310	160	210 ^a	220	180	60 J	99 J	74 J
Semivolatile organic compounds											
1,2,4-Trichlorobenzene	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
1,2-Dichlorobenzene	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
1,3-Dichlorobenzene	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
1,4-Dichlorobenzene	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
1-Methylnaphthalene	µg/kg ww	1.9 J	50 U	3.1 J	2.6 J	0.98 J	1.8 J	1.4 J	0.75 J	1.6 J	1.5 J
2,4,5-Trichlorophenol	µg/kg ww	780 U	790 U	400 U	400 U	400 U	75 J	400 U	400 U	400 U	400 U
2,4,6-Trichlorophenol	µg/kg ww	780 U	790 U	400 U	400 U	400 U	47 J	400 U	400 U	400 U	400 U
2,4-Dichlorophenol	µg/kg ww	780 U	790 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
2,4-Dimethylphenol	µg/kg ww	780 U	790 U	400 UJ	400 U	400 U	71 J	400 UJ	400 UJ	400 UJ	400 UJ
2,4-Dinitrophenol	µg/kg ww	7,800 U	7,900 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U	4,000 U
2,4-Dinitrotoluene	µg/kg ww	780 U	790 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
2,6-Dinitrotoluene	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
2-Chloronaphthalene	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
2-Chlorophenol	µg/kg ww	780 U	790 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
2-Methylnaphthalene	µg/kg ww	2.3 J	1.9 J	4.6 J	3.3 J	1.3 J	2.2 J	1.7 J	1.0 J	1.9 J	2.0 J
2-Methylphenol	µg/kg ww	780 U	790 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
2-Nitroaniline	µg/kg ww	2,000 U	2,000 U	990 U	1,000 U	1,000 U	990 U	990 U	1,000 U	980 U	990 U
2-Nitrophenol	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
3,3'-Dichlorobenzidine	µg/kg ww	20,000 U	20,000 U	9,900 U	10,000 U	10,000 U	9,900 U	9,900 U	10,000 U	9,800 U	9,900 U
3-Nitroaniline	µg/kg ww	3,900 U	4,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
4,6-Dinitro-o-cresol	µg/kg ww	3,900 U	4,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
4-Bromophenyl phenyl ether	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Chloro-3-methylphenol	µg/kg ww	2,000 U	2,000 U	990 U	1,000 U	1,000 U	990 U	990 U	1,000 U	980 U	990 U
4-Chloroaniline	µg/kg ww	2,000 U	2,000 U	990 U	1,000 U	1,000 U	53 J	990 U	1,000 U	980 U	990 U
4-Chlorophenyl phenyl ether	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U

Table A-4, cont.

ANALYTE	UNIT	B1b-T	B2b-T	B3b-T	B4b-T	B5b-T	B6b-T	B7b-T	B8b-T	B9b-T	B10b-T
4-Methylphenol	µg/kg ww	780 U	790 U	150 J	400 U	400 U	200 J	77 J	400 U	400 U	400 U
4-Nitroaniline	µg/kg ww	2,000 U	2,000 U	990 U	1,000 U	1,000 U	990 U	990 U	1,000 U	980 U	990 U
4-Nitrophenol	µg/kg ww	3,900 U	4,000 U	2,000 U	2,000 U	2,000 U	280 J	2,000 U	2,000 U	2,000 U	2,000 U
Acenaphthene	µg/kg ww	5.1 J	1.0 J	28	6.9 J	2.1 J	12 J	5.2 J	0.61 J	1.3 J	1.6 J
Acenaphthylene	µg/kg ww	3.5 J	2.6 J	12 J	5.0 J	3.0 J	3.8 J	1.8 J	0.57 J	0.67 J	0.55 J
Aniline	µg/kg ww	7,800 U	7,900 U	4,000 UJ	4,000 U	4,000 U	4,000 UJ	4,000 UJ	4,000 UJ	4,000 UJ	4,000 UJ
Anthracene	µg/kg ww	18 J	10 J	110	53	9.8 J	25 J	16 J	1.6 J	1.7 J	1.1 J
Benzidine	µg/kg ww	49,000 U	50,000 U	25,000 U	25,000 U	25,000 U	25,000 U	25,000 U	25,000 U	25,000 U	25,000 U
Benzo(a)anthracene	µg/kg ww	35 J	31 J	270	190	42	89	39	7.4 J	6.1 J	1.7 J
Benzo(a)pyrene	µg/kg ww	21 J	16 J	190	130	20 J	56	22 J	3.5 J	3.2 J	25 U
Benzo(b)fluoranthene	µg/kg ww	34 J	32 J	290	160	46	85	38	6.0 J	6.4 J	1.9 J
Benzo(e)pyrene	µg/kg ww	33 J	28 J	250	130	41	72	37	7.3 J	7.0 J	4.2 J
Benzo(g,h,i)perylene	µg/kg ww	12 J	9.0 J	88	74	12 J	33	17 J	3.1 J	3.2 J	1.4 J
Benzo(k)fluoranthene	µg/kg ww	25 J	19 J	220	130	29	65	28	4.5 J	3.9 J	2.0 J
Benzofluoranthenes (total-calc'd) ^b	µg/kg ww	59 J	51 J	510	290	75	150	66	10.5 J	10.3 J	3.9 J
Benzoic acid	µg/kg ww	3,800 J	4,500 J	4,000	3,700 J	14,000	1,400 J	2,700 J	1,900 J	1,900 J	990 J
Benzyl alcohol	µg/kg ww	69 J	400 U	100 J	83 J	61 J	410	200 U	200 U	200 U	200 U
Biphenyl	µg/kg ww	3.3 J	3.7 J	5.3 J	3.6 J	2.3 J	3.0 J	1.8 J	1.5 J	1.4 J	2.2 J
bis(2-chloroethoxy)methane	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
bis(2-chloroethyl)ether	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
bis(2-chloroisopropyl)ether	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Bis(2-ethylhexyl)phthalate	µg/kg ww	2,200 J	2,100 J	2,500 U	1,100 J	1,100 J	2,500 U	2,500 U	2,500 U	2,500 U	2,500 U
Butyl benzyl phthalate	µg/kg ww	390 U	400 U	200 U	200 U	190 J	200 U	200 U	200 U	200 U	200 U
Carbazole	µg/kg ww	2,000 U	2,000 U	990 U	1,000 U	1,000 U	990 U	990 U	1,000 U	980 U	990 U
Chrysene	µg/kg ww	61	46 J	780	260	72	120	58	12 J	11 J	8.3 J
Dibenzo(a,h)anthracene	µg/kg ww	2.2 J	1.6 J	25 J	20 J	1.8 J	5.9 J	3.0 J	25 U	0.61 J	25 U
Dibenzofuran	µg/kg ww	3.7 J	1.3 J	26	4.3 J	1.5 J	9.4 J	4.8 J	0.72 J	0.98 J	0.97 J
Dibenzothiophene	µg/kg ww	2.2 J	50 U	18 J	8.8 J	1.6 J	6.8 J	3.8 J	25 U	0.69 J	25 U
Diethyl phthalate	µg/kg ww	780 U	790 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U	400 U
Dimethyl phthalate	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Di-n-butyl phthalate	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Di-n-octyl phthalate	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Fluoranthene	µg/kg ww	71	64	680	400	120	270	120	23 J	19 J	13 J
Fluorene	µg/kg ww	5.3 J	1.8 J	45	12 J	2.3 J	16 J	7.8 J	0.93 J	1.7 J	1.2 J
Hexachlorobenzene	µg/kg ww	10 U	10 U	10 U	9.9 U	9.9 U ^a	18 U	9.9 U	9.7 U	9.9 U	10 U

Table A-4, cont.

ANALYTE	UNIT	B1b-T	B2b-T	B3b-T	B4b-T	B5b-T	B6b-T	B7b-T	B8b-T	B9b-T	B10b-T
Hexachlorobutadiene	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Hexachlorocyclopentadiene	µg/kg ww	49,000 U	50,000 U	25,000 U	25,000 U	25,000 U	25,000 U	25,000 U	25,000 U	25,000 U	25,000 U
Hexachloroethane	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Indeno(1,2,3-cd)pyrene	µg/kg ww	10 J	6.9 J	87	83	9.4 J	33	13 J	2.2 J	2.3 J	0.80 J
Isophorone	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Naphthalene	µg/kg ww	6.7 J	6.2 J	6.2 J	5.7 J	3.4 J	7.3 J	4.8 J	4.6 J	5.4 J	5.7 J
Nitrobenzene	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
N-Nitrosodimethylamine	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
N-Nitroso-di-n-propylamine	µg/kg ww	390 U	400 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	3,700
N-Nitrosodiphenylamine	µg/kg ww	390 U	400 U	200 U	200 U	170 J	200 U	200 U	200 U	200 U	200 U
Pentachlorophenol	µg/kg ww	2,100 J	4,000 U	2,000 U	1,100 J	1,100 J	4,700	2,000 U	2,000 U	2,000 U	2,000 U
Perylene	µg/kg ww	11 J	13 J	69	45	11 J	35	39	16 J	4.5 J	25 U
Phenanthrene	µg/kg ww	27 J	13 J	230	150	12 J	48	32	5.0 J	6.3 J	5.0 J
Phenol	µg/kg ww	980 U	990 U	300 J	500 U	91 J	160 J	500 U	99 UJ	490 U	500 U
Pyrene	µg/kg ww	120	94	570	500	270	260	170	20 J	20 J	13 J
Total HPAH (calc'd) ^b	µg/kg ww	390 J	320 J	3,200 J	1,950 J	620 J	1,020 J	510 J	82 J	76 J	42 J
Total LPAH (calc'd) ^b	µg/kg ww	66 J	35 J	430 J	230 J	33 J	112 J	68 J	13.3 J	17.1 J	15.2 J
Conventional parameters											
Lipid	% ww	0.82	0.69	1.3	0.84	1.0 ^a	1.2	1.1	0.63	0.51	0.62
Total solids	% ww	16.6	15.5	15.0	12.7	11.6	14.1	13.7	9.47 ^a	4.10	10.7

^a Laboratory replicate was run for sample. Value selected using averaging rules in Appendix B.

^b Totals were calculated following rules described in Appendix B

ww – wet weight

Data qualifiers: U - not detected at reporting limit shown; J - estimated concentration; UJ - not detected at estimated reporting limit shown; JN - analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification; value is an estimate; J* - Alkylated PAHs were analyzed by the method specified in the QAPP. The validation review did not result in qualification. EPA QA office requested the J qualification based on the use of parent compound response factors to quantify the alkylated compounds.

Table A-5. Concentrations of all analytes in intertidal sediment samples co-located with benthic invertebrate tissue samples

ANALYTE	UNIT	B1a-S	B2a-S	B3a-S	B4a-S	B5a-S1	B5a-S2	B6a-S	B7a-S	B8a-S	B9a-S	B10a-S
Alkylated PAHs												
C1-Chrysenes	µg/kg dw	41 J ^{*a}	150	17 J [*]	980 J [*]	na	42 J [*]	58 J [*]	28 J ^{*a}	74 J [*]	52 J [*]	55 J [*]
C1-Dibenzothiophenes	µg/kg dw	7.3 J ^a	8.1	5.0 UJ [*]	59 J [*]	na	32 J [*]	16 J [*]	8.7 J ^{*a}	5.0 UJ [*]	11 J [*]	6.9 J [*]
C1-Fluoranthene	µg/kg dw	86 J ^{*a}	200	28 J [*]	2,600 J [*]	na	84 J [*]	98 J [*]	4.9 UJ ^{*a}	130 J [*]	100 J [*]	58 J [*]
C1-Fluorenes	µg/kg dw	4.5 J ^a	6.3	5.0 UJ [*]	150 J [*]	na	7.8 UJ [*]	5.3 J [*]	5.3 J ^{*a}	5.0 UJ [*]	5.0 UJ [*]	5.0 UJ [*]
C1-Phenanthrenes/anthracenes	µg/kg dw	39 J ^a	77	15 J [*]	1,700 J [*]	na	34 J [*]	34 J [*]	25 J ^{*a}	37 J [*]	42 J [*]	19 J [*]
C2-Chrysenes	µg/kg dw	27 J ^{*a}	66	8.7 J [*]	370 J [*]	na	36 J [*]	82 J [*]	17 J ^{*a}	67 J [*]	30 J [*]	57 J [*]
C2-Dibenzothiophenes	µg/kg dw	4.4 J ^a	12	5.0 UJ [*]	190 J [*]	na	18 J [*]	14 J [*]	7.2 J ^{*a}	8.7 J [*]	5.3 J [*]	4.3 J [*]
C2-Fluorenes	µg/kg dw	6.2 J ^a	11	5.0 UJ [*]	250 J [*]	na	17 J [*]	11 J [*]	8.5 J ^{*a}	6.1 J [*]	5.1 J [*]	5.0 UJ [*]
C2-Naphthalenes	µg/kg dw	11 J ^{*a}	14	6.7 J [*]	100 J [*]	na	30 J [*]	22 J [*]	19 J ^{*a}	7.8 J [*]	11 J [*]	10 J [*]
C2-Phenanthrenes/anthracenes	µg/kg dw	33 J ^a	47	11 J [*]	840 J [*]	na	40 J [*]	42 J [*]	22 J ^{*a}	32 J [*]	27 J [*]	21 J [*]
C3-Chrysenes	µg/kg dw	19 J ^{*a}	43	7.3 J [*]	210 J [*]	na	43 J [*]	83 J [*]	12 J ^{*a}	72 J [*]	20 J [*]	55 J [*]
C3-Dibenzothiophenes	µg/kg dw	13 J ^{*a}	20	5.0 UJ [*]	130 J [*]	na	32 J [*]	26 J [*]	4.9 UJ ^{*a}	20 J [*]	13 J [*]	14 J [*]
C3-Fluorenes	µg/kg dw	9.3 J ^{*a}	15	5.2 J [*]	220 J [*]	na	36 J [*]	17 J [*]	12 J ^{*a}	13 J [*]	8.9 J [*]	5.0 UJ [*]
C3-Naphthalenes	µg/kg dw	19 J ^{*a}	26	4.4 J [*]	310 J [*]	na	46 J [*]	34 J [*]	34 J ^{*a}	17 J [*]	24 J [*]	25 J [*]
C3-Phenanthrenes/anthracenes	µg/kg dw	27 J ^a	32	6.8 J [*]	420 J [*]	na	62 J [*]	55 J [*]	15 J ^{*a}	47 J [*]	21 J [*]	24 J [*]
C4-Chrysenes	µg/kg dw	12 J ^{*a}	20	5.0 UJ [*]	78 J [*]	na	40 J [*]	51 J [*]	4.9 UJ ^{*a}	56 J [*]	12 J [*]	43 J [*]
C4-Naphthalenes	µg/kg dw	13 J ^{*a}	14	6.0 J [*]	250 J [*]	na	68 J [*]	24 J [*]	26 J ^{*a}	9.3 J [*]	16 J [*]	14 J [*]
C4-Phenanthrenes/anthracenes	µg/kg dw	15 J ^{*a}	29	5.6 J [*]	150 J [*]	na	90 J [*]	28 J [*]	14 J ^{*a}	32 J [*]	23 J [*]	15 J [*]
Metals and trace elements												
Antimony	mg/kg dw	1.05 J	0.57 J ^a	0.16 J	20.3 J	na	0.74 J ^a	0.90 J	0.26 J	1.68 J	0.20 J ^a	1.72 J
Arsenic	mg/kg dw	3.90 J	9.34 J ^a	5.77 J	46.5 J	na	7.41 J ^a	5.26 J	6.56 J	7.89 J	6.63 J ^a	9.23 J
Cadmium	mg/kg dw	0.066	0.204 ^a	0.109	0.323	na	0.296 ^a	0.140	0.176	0.693	0.206 ^a	0.118
Chromium	mg/kg dw	18.1	27.8 ^a	13.4	31.9	na	27.0 ^a	14.9	22.9	26.9	20.8 ^a	17.9
Cobalt	mg/kg dw	6.1	6.8 ^a	5.1	9.8	na	7.7 ^a	4.9	6.5	5.7	9.5 ^a	6.3
Copper	mg/kg dw	50.2	43.6 ^a	18.7	189	na	36.7 ^a	25.5	30.9	56.9	25.0 ^a	46.7
Lead	mg/kg dw	38.2 J	37.0 J ^a	9.13	67.8 J	na	74.7 ^a	44.6 J	21.4 J	52.5 J	13.5 ^a	20.9 J
Mercury	mg/kg dw	0.079	0.085	0.025	0.115	na	0.160	0.059	0.060	0.528 J ^a	0.110	0.060 J
Molybdenum	mg/kg dw	0.501	0.660 ^a	0.977	5.210	na	1.685 J ^a	0.562	0.749	1.260	0.639 ^a	0.979
Nickel	mg/kg dw	15.9	19.5 ^a	6.70	16.9	na	16.0 ^a	12.5	11.7	18.7	17.0 ^a	11.3
Selenium	mg/kg dw	0.2	0.9 ^a	0.7	0.7	na	0.3 ^a	0.5	0.6	0.9	0.7 ^a	0.6

Table A-5, cont.

ANALYTE	UNIT	B1a-S	B2a-S	B3a-S	B4a-S	B5a-S1	B5a-S2	B6a-S	B7a-S	B8a-S	B9a-S	B10a-S
Silver	mg/kg dw	0.046 U	0.267 ^a	0.086	0.545	na	0.168 J ^a	0.088	0.139	0.257	0.122 ^a	0.090
Thallium	mg/kg dw	0.032 U	0.091 ^a	0.052	0.095	na	0.068 ^a	0.055	0.057	0.036	0.076 ^a	0.046
Vanadium	mg/kg dw	45.7	48.9 ^a	41.5	54.8	na	46.5 ^a	37.3	50.4	34.9	54 ^a	50.7
Zinc	mg/kg dw	75.1	101 ^a	37.8	291	na	121 ^a	65.6	81.6	130	70.6 ^a	211
Organometals												
Monobutyltin as ion	µg/kg dw	0.27 J ^a	8.6	0.12 J	4.9	na	5.2	1.1 J	2.5 J ^a	8.3	1.2 J	1.2 J
Dibutyltin as ion	µg/kg dw	0.39 J ^a	14	2.2	15	na	10	2.6	5.1 ^a	6.2	2.0	2.2
Tributyltin as ion	µg/kg dw	0.35 J ^a	22	2.1	32	na	6.4	2.3	5.6 ^a	5.8	1.6 J	3.6
Tetrabutyltin as ion	µg/kg dw	1.3 U ^a	0.56 J	1.6 U	0.74 J	na	1.6 U	1.4 U	2.0 U ^a	1.9 U	1.9 U	1.6 U
Pesticides												
2,4'-DDD	µg/kg dw	1.0 U	1.6 U	1.0 U	1.9 U	9.3 J ^a	14 U	3.1 U	1.2 U	9.4 UJ	1.0 U	1.6 J
2,4'-DDE	µg/kg dw	1.0 U	1.5 U	1.0 U	1.0 U	1.0 U ^a	2.8 J	1.0 U	11	12 U	1.0 U	1.0 U
2,4'-DDT	µg/kg dw	0.44 JN	5.4 JN	1.3	8.8 JN	7.9 J ^a	5.5	7.6 JN	6.3 J	5.0 UJ	3.9 J	1.4 J
4,4'-DDD	µg/kg dw	0.46 JN	0.40 JN	0.31 J	1.0 U	23 J ^a	22	4.7 JN	3.5 J	1.0 U	0.79 J	0.96 J
4,4'-DDE	µg/kg dw	1.0 U	1.0 U	0.45 J	3.5 JN	8.4 J ^a	31	5.3 JN	2.3	6.5 UJ	1.0 U	0.75 J
4,4'-DDT	µg/kg dw	1.0 U	5.5 JN	1.6	9.3 JN	19 J ^a	16	9.3 JN	12	36 J	5.4	3.5
Aldrin	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
alpha-BHC	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.8 J	1.0 U	1.0 U
alpha-Chlordane	µg/kg dw	1.0 U	0.24 JN	1.0 U	1.0 U	0.24 J ^a	1.6	0.25 JN	1.5 U	1.0 U	1.0 U	1.2
alpha-Endosulfan	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	0.21 J ^a	1.0 U	1.0 UJ	1.0 U	2.3 U	1.0 U	1.0 U
beta-BHC	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
beta-Endosulfan	µg/kg dw	1.0 U	1.0 U	1.0 U	3.0 U	0.54 J ^a	10 J	1.0 UJ	1.0 U	6.3 U	1.0 U	1.0 U
DDTs (total-calc'd) ^b	µg/kg dw	0.90 JN	11.3 JN	3.7 J	21.6 JN	68 J ^a	125 J	26.9 JN	35 J	380 J	10.1 J	8.2 J
delta-BHC	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dieldrin	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	0.48 J ^a	1.0 U	1.0 U	1.0 U	4.8 U	1.0 U	2.3
Endosulfan sulfate	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.0 U	1.0 U	25	1.0 U	1.0 U	1.0 U
Endrin	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.5 J	1.0 U	1.0 U	1.7 U	1.0 U	1.0 U
Endrin aldehyde	µg/kg dw	1.0 U	1.0 U	1.0 U	1.7 U	1.0 U ^a	4.7 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Endrin ketone	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	6.0 U	1.2 U	1.5 J	62 J	1.2 J	1.0 U
gamma-BHC	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 JN	1.0 U ^a	1.3 J	0.18 JN	1.0 U	1.6 U	1.2	2.8 U
gamma-Chlordane	µg/kg dw	1.0 U	3.5 U	1.0 U	4.6 U	0.97 J ^a	16 J	3.7 UJ	1.7 J	11 U	2.0 U	1.9
Heptachlor	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Heptachlor epoxide	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	6.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methoxychlor	µg/kg dw	0.84 JN	1.0 U	1.0 U	1.0 U	5.0 J ^a	3.1 U	1.0 UJ	1.0 U	22 U	1.0 U	1.0 U
Mirex	µg/kg dw	1.0 U	1.0 U	1.1 U	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table A-5, cont.

ANALYTE	UNIT	B1a-S	B2a-S	B3a-S	B4a-S	B5a-S1	B5a-S2	B6a-S	B7a-S	B8a-S	B9a-S	B10a-S
Toxaphene	µg/kg dw	50 U	110 U	56 U	170 U	70 U ^a	54 U	180 U	340 J	6,300 J	82 U	50 U
Polychlorinated biphenyls												
Aroclor-1016	µg/kg dw	10 U	10 U	10 U	10 U	10 U ^a	10 U	10 U	5.2 U	100 U	10 U	10 U
Aroclor-1221	µg/kg dw	20 U	20 U	20 U	20 U	20 U ^a	20 U	20 U	11 U	200 U	20 U	20 U
Aroclor-1232	µg/kg dw	10 U	10 U	10 U	10 U	10 U ^a	10 U	10 U	5.2 U	100 U	10 U	10 U
Aroclor-1242	µg/kg dw	10 U	10 U	10 U	10 U	10 U ^a	10 U	10 U	5.2 U	100 U	180	10 U
Aroclor-1248	µg/kg dw	10 U	10 U	10 U	10 U	50 ^a	600	10 U	5.2 U	100 U	10 U	10 U
Aroclor-1254	µg/kg dw	10 U	80	22	170	10 U ^a	630	150	26	1,300 J	85	10 U
Aroclor-1260	µg/kg dw	10 U	83	10 U	160	54 J ^a	500	150	35	4,600	10 U	22
PCBs (total calc'd) ^b	µg/kg dw	20 U	163	22	330	104 J ^a	1,730	300	61	5,900 J	270	22
Semivolatile organic compounds												
1,2,4-Trichlorobenzene	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
1,2-Dichlorobenzene	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
1,3-Dichlorobenzene	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
1,4-Dichlorobenzene	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
1-Methylnaphthalene	µg/kg dw	3.6 J ^a	6.2	2.3 J	32	na	10	11	3.4 J ^a	2.5 J	3.7 J	2.8 J
2,4,5-Trichlorophenol	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 U	20 U	20 U	50 U	20 U	20 U
2,4,6-Trichlorophenol	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 U	20 U	20 U	50 U	20 U	20 U
2,4-Dichlorophenol	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 U	20 U	20 U	50 U	20 U	20 U
2,4-Dimethylphenol	µg/kg dw	50 UJ	50 UJ	100 UJ	100 UJ	na	43 UJ	100 UJ	100 UJ	250 UJ	100 UJ	100 UJ
2,4-Dinitrophenol	µg/kg dw	200 U	200 U	400 U	400 U	na	180 U	400 U	400 U	990 U	400 U	400 U
2,4-Dinitrotoluene	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
2,6-Dinitrotoluene	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
2-Chloronaphthalene	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
2-Chlorophenol	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 U	20 U	20 U	50 U	20 U	20 U
2-Methylnaphthalene	µg/kg dw	4.1 J	7.4	2.7 J	53	na	14	15	4.6 J	3.4 J	4.2 J	3.2 J
2-Methylphenol	µg/kg dw	10 U ^a	10 U	20 U	20 U	na	8.6 U	20 U	20 U ^a	50 U	20 U	20 U
2-Nitroaniline	µg/kg dw	20 U	20 U	40 U	40 U	na	18 UJ	40 U	40 U	99 U	40 U	40 U
2-Nitrophenol	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 U	20 U	20 U	50 U	20 U	20 U
3,3'-Dichlorobenzidine	µg/kg dw	100 U	100 U	200 U	200 U	na	86 UJ	200 U	200 U	500 U	200 U	200 U
3-Nitroaniline	µg/kg dw	20 U	20 U	40 U	40 U	na	18 UJ	40 U	40 U	99 U	40 U	40 U
4,6-Dinitro-o-cresol	µg/kg dw	100 U	100 U	200 U	200 U	na	86 U	200 U	200 U	500 U	200 U	200 U
4-Bromophenyl phenyl ether	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
4-Chloro-3-methylphenol	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 U	20 U	20 U	50 U	20 U	20 U
4-Chloroaniline	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U

Table A-5, cont.

ANALYTE	UNIT	B1a-S	B2a-S	B3a-S	B4a-S	B5a-S1	B5a-S2	B6a-S	B7a-S	B8a-S	B9a-S	B10a-S
4-Chlorophenyl phenyl ether	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
4-Methylphenol	µg/kg dw	10 U	10 U	22	20 U	na	8.6 U	20 U	20 U	50 U	20 U	20 U
4-Nitroaniline	µg/kg dw	20 U	20 U	40 U	40 U	na	18 UJ	40 U	40 U	99 U	40 U	40 U
4-Nitrophenol	µg/kg dw	100 U	100 U	200 U	200 U	na	86 U	200 U	200 U	500 U	200 U	200 U
Acenaphthene	µg/kg dw	11 ^a	13	1.5 J	36	na	4.1	10	2.6 J ^a	5.1	7.9	1.1 J
Acenaphthylene	µg/kg dw	12 ^a	23	4.2 J	180	na	4.6	9.8	5.7 J ^a	10	2.8 J	7.0
Aniline	µg/kg dw	20 U	20 U	40 U	40 U	na	18 UJ	40 U	40 U	99 U	40 U	40 U
Anthracene	µg/kg dw	28 ^a	74	9.2	340	na	15	22	16 J ^a	28	27	14
Benzidine	µg/kg dw	R	R	R	R	na	R	R	R	R	R	R
Benzo(a)anthracene	µg/kg dw	46 ^a	140	17	1,000	na	41	38	34 ^a	64	76	48
Benzo(a)pyrene	µg/kg dw	53 ^a	220	17	1,100	na	37	35	41 ^a	65	80	74
Benzo(b)fluoranthene	µg/kg dw	46 ^a	280	21	1,900	na	54 J	53	52 ^a	110	74	77
Benzo(e)pyrene	µg/kg dw	43 ^a	210	16	1,300	na	44	46	43 ^a	87	65	73
Benzo(g,h,i)perylene	µg/kg dw	40 ^a	140	13	870	na	41	34	34 ^a	58	61	76
Benzo(k)fluoranthene	µg/kg dw	50 ^a	210	18	1,100	na	46	41	47 ^a	75	84	78
Benzofluoranthenes (total-calc'd) ^b	µg/kg dw	96 ^a	490	39	3,000	na	100 J	94	99 ^a	190	158	155
Benzoic acid	µg/kg dw	200 U	200 U	400 U	400 U	na	180 U	400 U	400 U	990 U	400 U	400 U
Benzyl alcohol	µg/kg dw	10 U	10 U	20 U	20 U	na	8.2 J	20 U	20 U	50 U	20 U	20 U
Biphenyl	µg/kg dw	2.0 J ^a	2.9 J	1.4 J	33	na	4.1	4.0 J	2.1 J ^a	1.5 J	1.5 J	1.4 J
bis(2-chloroethoxy)methane	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
bis(2-chloroethyl)ether	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
bis(2-chloroisopropyl)ether	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
Bis(2-ethylhexyl)phthalate	µg/kg dw	15 UJ	53 J	67 J	140 J	na	52 J	61 J	63 J	190 J	210 J	39 U
Butyl benzyl phthalate	µg/kg dw	10 U	16	20 U	21	na	7.4 J	16 J	11 J	51	17 J	7.3 J
Carbazole	µg/kg dw	4.7 J	18	20 U	25	na	7.6 J	6.3 J	6.2 J	26 J	19 J	6.9 J
Chrysene	µg/kg dw	62 ^a	270	47	2,600	na	81	83	65 ^a	170	100	70
Dibenzo(a,h)anthracene	µg/kg dw	6.7 ^a	34	2.4 J	130	na	8.6	6.2	6.2 ^a	12	13	17
Dibenzofuran	µg/kg dw	6.4 ^a	8.3	2.4 J	39	na	5.8	7.9	3.4 J ^a	4.3 J	4.4 J	2.2 J
Dibenzothiophene	µg/kg dw	3.0 J ^a	6.8	1.1 J	150	na	5.0	4.1 J	3.0 J ^a	3.1 J	4.6 J	1.5 J
Diethyl phthalate	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
Dimethyl phthalate	µg/kg dw	10 U	10 U	20 U	20 U	na	3.4 J	20 U	7.1 J	50 U	20 U	20 U
Di-n-butyl phthalate	µg/kg dw	5.8 J	10 U	8.6 J	16 J	na	7.2 J	7.7 J	20 U	280	13 J	11 J
Di-n-octyl phthalate	µg/kg dw	20 U	20 U	40 U	40 U	na	18 UJ	40 U	40 U	99 U	40 U	40 U
Fluoranthene	µg/kg dw	120 ^a	370	55	9,300	na	160	140	110 ^a	120	200	95
Fluorene	µg/kg dw	7.1 ^a	14	2.7 J	97	na	6.5	7.7	4.7 J ^a	6.9	8.4	2.1 J

Table A-5, cont.

ANALYTE	UNIT	B1a-S	B2a-S	B3a-S	B4a-S	B5a-S1	B5a-S2	B6a-S	B7a-S	B8a-S	B9a-S	B10a-S
Hexachlorobenzene	µg/kg dw	1.0 U ^a	1.0 U	1.0 U	5.3 JN	1.0 U ^a	0.60 J	1.0 U	63 ^a	1.0 U	1.4 J	1.3 U
Hexachlorobutadiene	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
Hexachlorocyclopentadiene	µg/kg dw	50 UJ	50 UJ	100 U	100 UJ	na	43 UJ	100 UJ	100 U	250 U	100 U	100 U
Hexachloroethane	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	37 ^a	150	13	890	na	36 J	29	34 ^a	55	63	75
Isophorone	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
Naphthalene	µg/kg dw	9.9 ^a	13	3.7 J	82	na	10	14	5.5 ^a	4.3 J	3.6 J	2.8 UJ
Nitrobenzene	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
N-Nitrosodimethylamine	µg/kg dw	50 U	50 U	100 U	100 U	na	43 UJ	100 U	100 U	250 U	100 U	100 U
N-Nitroso-di-n-propylamine	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
N-Nitrosodiphenylamine	µg/kg dw	10 U	10 U	20 U	20 U	na	8.6 UJ	20 U	20 U	50 U	20 U	20 U
Pentachlorophenol	µg/kg dw	50 U	50 U	100 U	80 J	na	14 J	100 U	100 U	250 U	100 U	100 U
Perylene	µg/kg dw	16 ^a	65	9.0	230	na	45	39	21 J ^a	31	43	52
Phenanthrene	µg/kg dw	48 ^a	140	29	2,400	na	31	38	41 J ^a	53	94	28
Phenol	µg/kg dw	78	34	220	23 U	na	24 J	31 U	13 U	2,800	27 J	1,100 U
Pyrene	µg/kg dw	140 ^a	320	48	7,100	na	130	120	91 ^a	120	180	79
Total HPAH (calc'd) ^b	µg/kg dw	600	2,130	251 J	26,000	na	630 J	580	510	850	930	689
Total LPAH (calc'd) ^b	µg/kg dw	116	280	50 J	3,100	na	71	102	76 J	107 J	144 J	52 J
Sediment grain size												
Fines (percent silt+clay)	% dw	4.91	45.7 ^a	30.5	34.2	na	23.2 ^a	16.1	33.3	27.5	39.7	22.1
Fractional % phi >-1 (>2,000 µm)	% dw	1.61	1.10 ^a	0.44	10.7	na	21.2 ^a	11.0	2.95	0.48	0.88	14.3
Fractional % phi 0-1 (500-1,000 µm)	% dw	19.2	3.27 ^a	7.62	7.64	na	7.63 ^a	8.57	8.23	8.15	9.57	5.14
Fractional % phi -1-0 (1,000-2,000 µm)	% dw	2.48	0.66 ^a	0.85	3.31	na	4.27 ^a	1.99	2.33	1.15	2.50	2.68
Fractional % phi 10+ (<0.98 µm)	% dw	0.79	3.14 ^a	3.60	3.38	na	0.70 ^a	1.17	2.55	3.05	2.99	2.04
Fractional % phi 1-2 (250-500 µm)	% dw	45.2	7.48 ^a	27.8	16.9	na	17.6 ^a	31.7	26.3	23.6	9.68	20.0
Fractional % phi 2-3 (125-250 µm)	% dw	22.2	14.7 ^a	21.3	17.6	na	14.9 ^a	18.8	15.2	20.8	19.9	21.7
Fractional % phi 3-4 (62.5-125 µm)	% dw	4.29	28.4 ^a	11.7	14.7	na	14.5 ^a	10.1	13.5	10.7	19.5	11.4
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	1.39	20.3 ^a	6.83	8.97	na	7.54 ^a	6.83	12.0	7.41	13.5	7.24
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	0.97	8.61 ^a	7.19	9.64	na	6.19 ^a	3.39	10.2	7.88	11.9	6.10
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	0.65	5.47 ^a	5.37	5.14	na	3.70 ^a	2.23	4.56	4.16	5.60	3.36
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	0.56	4.03 ^a	3.42	3.02	na	3.07 ^a	1.38	2.02	2.61	3.07	1.76
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	0.47	3.13 ^a	2.51	2.66	na	1.71 ^a	0.69	1.38	1.65	1.69	1.12
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	0.080	0.98 ^a	1.58	1.38	na	0.26 ^a	0.39	0.62	0.78	0.90	0.45
Rocks (total calc'd) ^c	% dw	1.61	1.10 ^a	0.44	10.7	na	21.2 ^a	11.0	2.95	0.48	0.88	14.3

Table A-5, cont.

ANALYTE	UNIT	B1a-S	B2a-S	B3a-S	B4a-S	B5a-S1	B5a-S2	B6a-S	B7a-S	B8a-S	B9a-S	B10a-S
Sand (total calc'd) ^c	% dw	93.4	54.5 ^a	69.3	60.2	na	58.9 ^a	71.2	65.6	64.4	61.2	60.9
Silt (total calc'd) ^c	% dw	3.57	38.4 ^a	22.8	26.8	na	20.5 ^a	13.8	28.8	22.1	34.1	18.5
Clay (total calc'd) ^c	% dw	1.34	7.25 ^a	7.69	7.42	na	2.67 ^a	2.25	4.55	5.48	5.58	3.61
Conventional parameters												
Total organic carbon (TOC)	% dw	1.70	1.97	1.36	1.96	0.29	1.40 ^a	0.89	1.64	3.31	2.14	1.73
Total solids	% ww	80.3	50.0 ^a	61.6	53.7	77.1 ^a	66.2 ^a	71.2	51.7 ^a	53.6	52.4 ^a	63.0

^a Laboratory replicate was run for sample. Value selected using averaging rules in Appendix B.

^b Totals were calculated following rules described in Appendix B

^c Total were calculated for each category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

dw – dry weight

na – not analyzed

ww – wet weight

Data qualifiers: U - not detected at reporting limit shown; J - estimated concentration; JJ - not detected at estimated reporting limit shown; JN - analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification; value is an estimate; R - rejected concentration; J* - Alkylated PAHs were analyzed by the method specified in the QAPP. The validation review did not result in qualification. EPA QA office requested the J qualification based on the use of parent compound response factors to quantify the alkylated compounds.

Table A-6. Concentrations of all analytes in subtidal sediment samples co-located with benthic invertebrate tissue samples

ANALYTE	UNIT	B1b-S	B2b-S	B3b-S	B4b-S	B5b-S	B6b-S	B7b-S	B8b-S	B9b-S	B10b-S
Alkylated PAHs											
C1-Chrysenes	µg/kg dw	27 J ^{*a}	73 J*	2,100 J*	200 J*	200 J*	130 J*	83 J*	36 J*	39 J*	12 J*
C1-Dibenzothiophenes	µg/kg dw	5.0 UJ ^{*a}	5.0 UJ*	45 J*	5.5 UJ*	5.0 UJ*	12 J*	16 J*	9.3 J*	14 J*	4.6 J
C1-Fluoranthene/pyrene	µg/kg dw	62 J ^{*a}	140 J*	4,900 J*	340 J*	470 J*	240 J*	150 J*	70 J*	72 J*	18 J*
C1-Fluorenes	µg/kg dw	5.0 UJ ^{*a}	5.0 UJ*	55 J*	7.4 J*	5.8 J*	8.7 J*	5.4 J*	5.4 UJ*	5.0 UJ*	5.0 UJ*
C1-Phenanthrenes/anthracenes	µg/kg dw	21 J ^{*a}	50 J*	1,000 J*	120 J*	94 J*	90 J*	50 J*	21 J*	25 J*	8.0 J*
C2-Chrysenes	µg/kg dw	15 J ^{*a}	51 J*	660 J*	100 J*	100 J*	66 J*	51 J*	23 J*	23 J*	8.1 J*
C2-Dibenzothiophenes	µg/kg dw	5.0 UJ ^{*a}	5.0 UJ*	130 J*	30 J*	20 J*	14 J*	10 J*	5.4 UJ*	7.9 J*	5.0 UJ*
C2-Fluorenes	µg/kg dw	3.4 J ^a	11 J*	140 J*	16 J*	17 J*	17 J*	9.4 J*	5.4 UJ*	6.9 J*	5.0 UJ*
C2-Naphthalenes	µg/kg dw	6.9 J ^{*a}	15 J*	52 J*	21 J*	21 J*	18 J*	18 J*	15 J*	20 J*	6.2 J*
C2-Phenanthrenes/anthracenes	µg/kg dw	15 J ^{*a}	36 J*	560 J*	77 J*	71 J*	61 J*	43 J*	23 J*	24 J*	8.5 J*
C3-Chrysenes	µg/kg dw	13 J ^{*a}	38 J*	370 J*	72 J*	70 J*	44 J*	35 J*	21 J*	21 J*	9.7 J*
C3-Dibenzothiophenes	µg/kg dw	5.0 UJ ^{*a}	5.0 UJ*	150 J*	51 J*	27 J*	22 J*	21 J*	14 J*	17 J*	7.6 J*
C3-Fluorenes	µg/kg dw	3.9 J ^a	19 J*	170 J*	29 J*	30 J*	26 J*	15 J*	9.3 J*	12 J*	5.0 UJ*
C3-Naphthalenes	µg/kg dw	16 J ^{*a}	24 J*	61 J*	30 J*	25 J*	34 J*	20 J*	35 J*	46 J*	17 J*
C3-Phenanthrenes/anthracenes	µg/kg dw	10 J ^{*a}	31 J*	400 J*	66 J*	60 J*	48 J*	36 J*	19 J*	23 J*	7.6 J*
C4-Chrysenes	µg/kg dw	7.7 J ^{*a}	18 J*	130 J*	27 J*	31 J*	21 J*	17 J*	12 J*	7.8 J*	5.0 UJ*
C4-Naphthalenes	µg/kg dw	8.3 J ^{*a}	18 J*	57 J*	24 J*	18 J*	27 J*	29 J*	20 J*	36 J*	9.2 J*
C4-Phenanthrenes/anthracenes	µg/kg dw	12 J ^{*a}	30 J*	180 J*	53 J*	47 J*	39 J*	37 J*	26 J*	27 J*	12 J*
Metals and trace elements											
Antimony	mg/kg dw	0.38 J	2.01 J	122 J	1.04 J	0.59 J	0.72 J	0.38 J	0.16 J	0.21 J	0.09 J
Arsenic	mg/kg dw	5.34 J	7.86 J	725 J	10.3 J	6.74 J	13.6 J	8.78 J	7.55 J	8.85 J	5.05 J
Cadmium	mg/kg dw	0.071	0.417	1.67	0.58	0.257	0.492	0.261	0.191	0.222	0.068
Chromium	mg/kg dw	10.5	24.6	42.5	37.7	20.3	33.8	32.7	24.5	25.1	16.1
Cobalt	mg/kg dw	4.7	8.7	31.5	12.0	7.1	11.2	9.4	8.6	9.1	6.9
Copper	mg/kg dw	15.1	54.9	495	86.6	42.0	80.8	39.6	32.7	31.0	17.2
Lead	mg/kg dw	17.5	44.6	437 J	79.4	30.8	40.9 J	23.3 J	12.7 J	19.0 J	6.40 J
Mercury	mg/kg dw	0.049 ^a	0.146	0.059	0.291	0.095	0.178 ^a	0.203	0.095	0.133	0.030
Molybdenum	mg/kg dw	0.543 J	0.625 J	62.00	1.010 J	1.080 J	0.731	0.472	0.505	0.770	0.399
Nickel	mg/kg dw	7.00	16.2	22.9	24.8	14.0	23.8	18.4	17.3	15.6	11.4
Selenium	mg/kg dw	0.4	0.5	1.4	0.8	0.8	0.9	0.6	0.7	0.7	0.7

Table A-6, cont.

ANALYTE	UNIT	B1b-S	B2b-S	B3b-S	B4b-S	B5b-S	B6b-S	B7b-S	B8b-S	B9b-S	B10b-S
Silver	mg/kg dw	0.054 J	0.389 J	0.891	0.497 J	0.236 J	0.460	0.215	0.128	0.184	0.055
Thallium	mg/kg dw	0.060	0.096	0.236	0.151	0.092	0.121	0.108	0.073	0.069	0.040
Vanadium	mg/kg dw	27.7	47.9	47.8	72.5	43.3	70.7	72.6	60.9	62.7	46.1
Zinc	mg/kg dw	36.6	109	2,080	155	93.9	157	102	82.1	80.6	51.4
Organometals											
Monobutyltin as ion	µg/kg dw	4.6 J	14	120	48	14 ^a	8.2	4.3	1.0 J	4.4	0.46 J
Dibutyltin as ion	µg/kg dw	130	26	360	44	18 ^a	12	8.7	1.4 J	10	1.7 J
Tributyltin as ion	µg/kg dw	2,300 J	63	320	96	30 ^a	20	13	1.7 J	6.7	2.3
Tetrabutyltin as ion	µg/kg dw	58	1.6	3.8 J	2.0 J	0.74 J ^a	0.46 J	0.27 J	2.2 U	1.9 U	1.7 U
Pesticides											
2,4'-DDD	µg/kg dw	1.0 U	3.5 U	2.3 U	19 U	7.0 J ^a	2.2 U	1.0 U	1.0 U	1.8 U	1.0 U
2,4'-DDE	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.6 U	1.0 U	1.0 U	2.2 U	1.0 U
2,4'-DDT	µg/kg dw	1.8 J	7.8	8.5	5.2 U	5.1 ^a	8.4	5.4	1.4	7.2 JN	0.65 J
4,4'-DDD	µg/kg dw	0.29 J	1.6	1.9	1.1	0.86 J ^a	2.0 J	1.1	0.63 J	1.8 JN	0.39 J
4,4'-DDE	µg/kg dw	1.0 U	2.9 J	1.2 U	1.8	1.4 J ^a	1.1 U	1.0 U	0.66 J	1.0 U	0.28 J
4,4'-DDT	µg/kg dw	1.6	9.8	11	3.4 J	6.5 ^a	12	13 J	2.5	8.2 JN	1.4 J
Aldrin	µg/kg dw	1.0 U	1.0 U	1.6	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
alpha-BHC	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
alpha-Chlordane	µg/kg dw	1.0 U	0.78 J	1.0 U	1.0 U	1.0 U ^a	0.24 J	1.0 U	1.0 U	1.0 U	1.0 U
alpha-Endosulfan	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
beta-BHC	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U
beta-Endosulfan	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
DDTs (total-calc'd) ^b	µg/kg dw	3.7 J	22.1 J	21	6.3 J	20.9 J ^a	22 J	20 J	5.2 J	17.2 JN	2.7 J
delta-BHC	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dieldrin	µg/kg dw	1.0 U	1.0 U	1.0 U	3.7 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Endosulfan sulfate	µg/kg dw	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Endrin	µg/kg dw	1.0 U	1.0 U	1.0 U	14 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Endrin aldehyde	µg/kg dw	1.0 UJ	1.0 UJ	1.0 U	12 UJ	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Endrin ketone	µg/kg dw	0.83 J	1.0 U	1.6 U	5.0 U	1.0 U ^a	1.4 J	1.2 U	1.0 U	1.0 U	1.0 U
gamma-BHC	µg/kg dw	1.0 U	0.61 J	1.0 U	1.0 U	0.36 J ^a	1.0 U	1.0 U	1.0 U	1.0 U	2.1 U
gamma-Chlordane	µg/kg dw	1.0 U	7.1 J	6.2 U	2.7 U	1.0 U ^a	4.5 U	3.2	1.3 U	3.8 JN	1.0 U
Heptachlor	µg/kg dw	1.0 U	1.0 U	1.0 U	2.4 U	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Heptachlor epoxide	µg/kg dw	0.47 J	2.1 U	1.0 U	1.2 U	4.9 J ^a	1.1 U	1.0 U	1.0 U	1.0 U	1.0 U
Methoxychlor	µg/kg dw	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U ^a	1.3 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Mirex	µg/kg dw	1.0 U	0.37 J	1.0 U	13 U	0.29 J ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table A-6, cont.

ANALYTE	UNIT	B1b-S	B2b-S	B3b-S	B4b-S	B5b-S	B6b-S	B7b-S	B8b-S	B9b-S	B10b-S
Toxaphene	µg/kg dw	50 U	140 U	130 U	270 U	58 U ^a	110 U	140 U	120 U	73 U	50 U
Polychlorinated biphenyls											
Aroclor-1016	µg/kg dw	10 U ^a	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9.9 U	10 U
Aroclor-1221	µg/kg dw	20 U ^a	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Aroclor-1232	µg/kg dw	10 U ^a	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9.9 U	10 U
Aroclor-1242	µg/kg dw	8.8 J ^a	170	10 U	100	10 U	10 U	10 U	14 J	9.9 U	10 U
Aroclor-1248	µg/kg dw	15 U ^a	140 U	10 U	84 U	68	120	10 U	10 U	9.9 U	10 U
Aroclor-1254	µg/kg dw	26 ^a	190	180	150	120	150	79	10 U	110	10 U
Aroclor-1260	µg/kg dw	26 J ^a	150	170	150	90	150	88	23	100	9.8 J
PCBs (total calc'd) ^b	µg/kg dw	61 J ^a	510	350	400	280	420	167	37 J	210	9.8 J
Semivolatile organic compounds											
1,2,4-Trichlorobenzene	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
1,2-Dichlorobenzene	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
1,3-Dichlorobenzene	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
1,4-Dichlorobenzene	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
1-Methylnaphthalene	µg/kg dw	3.1 J ^a	6.2	14	11	7.0	5.7	5.9	4.9 J	5.8	1.9 J
2,4,5-Trichlorophenol	µg/kg dw	10 U	10 U ^a	50 U	11 U	10 U	11 U	20 U	11 U	10 U	10 U
2,4,6-Trichlorophenol	µg/kg dw	10 U	10 U ^a	50 U	11 U	10 U	11 U	20 U	11 U	10 U	10 U
2,4-Dichlorophenol	µg/kg dw	10 U	10 U ^a	50 U	11 U	10 U	11 U	20 U	11 U	10 U	10 U
2,4-Dimethylphenol	µg/kg dw	50 UJ	50 U ^a	250 UJ	55 UJ	50 UJ	53 UJ	100 UJ	54 UJ	50 UJ	50 UJ
2,4-Dinitrophenol	µg/kg dw	200 U	200 U ^a	1,000 U	220 U	200 U	210 U	400 U	220 UJ	200 U	200 UJ
2,4-Dinitrotoluene	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 U	10 U	10 U
2,6-Dinitrotoluene	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
2-Chloronaphthalene	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
2-Chlorophenol	µg/kg dw	10 U	10 U ^a	50 U	11 U	10 U	11 U	20 U	11 U	10 U	10 U
2-Methylnaphthalene	µg/kg dw	3.1 J ^a	8.5	34	14	9.3	8.1	7.7	5.9	7.0	2.3 J
2-Methylphenol	µg/kg dw	10 U	10 U ^a	50 U	11 U	10 U	11 U	20 U	11 U	10 U	10 U
2-Nitroaniline	µg/kg dw	20 U	20 U ^a	100 U	22 UJ	20 U	21 U	40 U	22 UJ	20 U	20 UJ
2-Nitrophenol	µg/kg dw	10 U	10 U ^a	50 U	11 U	10 U	11 U	20 U	11 U	10 U	10 U
3,3'-Dichlorobenzidine	µg/kg dw	100 U	100 U ^a	500 U	110 UJ	100 U	110 U	200 U	110 UJ	100 U	100 UJ
3-Nitroaniline	µg/kg dw	20 U	20 U ^a	100 U	22 UJ	20 U	21 U	40 U	22 UJ	20 U	20 UJ
4,6-Dinitro-o-cresol	µg/kg dw	100 U	100 U ^a	500 U	110 U	100 U	110 U	200 U	110 U	100 U	100 U
4-Bromophenyl phenyl ether	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
4-Chloro-3-methylphenol	µg/kg dw	10 U	10 U ^a	50 U	11 U	10 U	11 U	20 U	11 U	10 U	10 U
4-Chloroaniline	µg/kg dw	10 UJ	10 U ^a	50 U	11 UJ	10 UJ	11 U	20 U	11 UJ	10 U	10 UJ

Table A-6, cont.

ANALYTE	UNIT	B1b-S	B2b-S	B3b-S	B4b-S	B5b-S	B6b-S	B7b-S	B8b-S	B9b-S	B10b-S
4-Chlorophenyl phenyl ether	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
4-Methylphenol	µg/kg dw	4.8 J	11 J ^a	50 U	21	10 U	6.2 J	20 U	11 U	10 U	10 U
4-Nitroaniline	µg/kg dw	20 U	20 U ^a	100 U	22 UJ	20 U	21 U	40 U	22 UJ	20 U	20 UJ
4-Nitrophenol	µg/kg dw	100 U	100 U ^a	500 U	110 U	100 U	110 U	200 U	110 U	100 U	100 U
Acenaphthene	µg/kg dw	6.5 J ^a	7.6	35	13	11	12	11	2.4 J	3.8 J	1.0 J
Acenaphthylene	µg/kg dw	4.6 J ^a	11	80	28	31	19	9.5	4.0 J	6.3	1.5 J
Aniline	µg/kg dw	20 UJ	20 U ^a	100 U	22 UJ	20 UJ	13 J	40 U	22 UJ	20 U	20 UJ
Anthracene	µg/kg dw	18 J ^a	42	1,100	82	100	73	40	12	15	4.2 J
Benzidine	µg/kg dw	R	310 U ^a	R	R	R	R	R	R	R	R
Benzo(a)anthracene	µg/kg dw	40 J ^a	89	2,800	210	320	170	96	42	49	12
Benzo(a)pyrene	µg/kg dw	39 J ^a	95	1,400	200	220	160	97	58	63	16
Benzo(b)fluoranthene	µg/kg dw	43 J ^a	120	1,700	310	340	190	110	71	75	21
Benzo(e)pyrene	µg/kg dw	39 J ^a	99	1,300	220	230	150	96	61	62	17
Benzo(g,h,i)perylene	µg/kg dw	32 J ^a	72	600	140	120	100	69	56	56	17
Benzo(k)fluoranthene	µg/kg dw	36 J ^a	91	1,200	200	230	180	120	67	72	18
Benzofluoranthenes (total-calc'd) ^b	µg/kg dw	79 J ^a	210	2,900	510	570	370	230	138	147	39
Benzoic acid	µg/kg dw	200 U	200 U ^a	1,000 U	250	200 U	210 U	400 U	220 U	200 U	200 U
Benzyl alcohol	µg/kg dw	10 U	10 U ^a	50 U	70 J	10 U	13	20 U	11 UJ	10 U	10 UJ
Biphenyl	µg/kg dw	2.2 J ^a	3.1 J	8.9	4.8 J	4.3 J	3.8 J	3.4 J	2.4 J	3.0 J	0.86 J
bis(2-chloroethoxy)methane	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
bis(2-chloroethyl)ether	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
bis(2-chloroisopropyl)ether	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
Bis(2-ethylhexyl)phthalate	µg/kg dw	28 J	170 J ^a	260 J	140 J	110 J	160 J	65 J	60 J	69 J	35 J
Butyl benzyl phthalate	µg/kg dw	10 U	21 J ^a	27 J	11 UJ	8.5 J	23	9.3 J	9.2 J	18	4.4 J
Carbazole	µg/kg dw	12	24 ^a	54	180 J	20	41	29	8.1 J	7.7 J	3.2 J
Chrysene	µg/kg dw	64 J ^a	140	5,400	430	510	260	160	79	95	23
Dibenzo(a,h)anthracene	µg/kg dw	4.5 J ^a	12	240	26	24	24	13	9.2	11	2.4 J
Dibenzofuran	µg/kg dw	7.0 J ^a	8.1	36	13	11	13	13	4.0 J	4.7 J	1.5 J
Dibenzothiophene	µg/kg dw	2.3 J ^a	4.0 J	35	9.0	6.8	7.6	5.7	2.5 J	3.1 J	0.81 J
Diethyl phthalate	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
Dimethyl phthalate	µg/kg dw	10 U	3.8 J ^a	50 U	11 UJ	3.6 J	6.4 J	20 U	4.7 J	19	10 UJ
Di-n-butyl phthalate	µg/kg dw	4.8 J	10 J ^a	50 U	9.3 J	8.6 J	37	20 U	6.9 J	9.5 J	10 UJ
Di-n-octyl phthalate	µg/kg dw	20 U	20 U ^a	100 U	11 UJ	20 U	21 U	40 U	22 UJ	20 U	20 UJ
Fluoranthene	µg/kg dw	150 J ^a	200	3,600	620	890	400	250	120	130	35
Fluorene	µg/kg dw	7.2 J ^a	12	150	19	18	18	13	3.6 J	5.3	1.4 J

Table A-6, cont.

ANALYTE	UNIT	B1b-S	B2b-S	B3b-S	B4b-S	B5b-S	B6b-S	B7b-S	B8b-S	B9b-S	B10b-S
Hexachlorobenzene	µg/kg dw	1.0 U	1.0 U ^a	1.0 U	1.0 U	1.0 U ^a	1.9	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobutadiene	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
Hexachlorocyclopentadiene	µg/kg dw	50 UJ	50 U ^a	250 U	55 UJ	50 UJ	53 U	100 U	54 UJ	50 UJ	50 UJ
Hexachloroethane	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
Indeno(1,2,3-cd)pyrene	µg/kg dw	28 J ^a	69	660	140	130	110	68	55	57	15
Isophorone	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
Naphthalene	µg/kg dw	7.5 ^a	12	36	23	10	11	8.6	4.8 J	7.4	2.5 UJ
Nitrobenzene	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
N-Nitrosodimethylamine	µg/kg dw	50 U	50 U ^a	250 U	55 UJ	50 U	53 U	100 U	54 UJ	50 U	50 UJ
N-Nitroso-di-n-propylamine	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
N-Nitrosodiphenylamine	µg/kg dw	10 U	10 U ^a	50 U	11 UJ	10 U	11 U	20 U	11 UJ	10 U	10 UJ
Pentachlorophenol	µg/kg dw	50 U	50 U ^a	92 J	55 U	50 U	53 U	100 U	54 U	50 U	50 U
Perylene	µg/kg dw	16 J ^a	38	350	78	74	66	51	50	48	15
Phenanthrene	µg/kg dw	39 J ^a	82	760	160	110	130	85	42	47	15
Phenol	µg/kg dw	19 J	48 ^a	52 U	33 U	11 UJ	35	10 U	7.3 UJ	92	10 UJ
Pyrene	µg/kg dw	150 J ^a	200	2,300	500	660	310	230	100	130	32
Total HPAH (calc'd) ^b	µg/kg dw	590 J ^a	1,090	19,900	2,780	3,440	1,900	1,210	660	740	191 J
Total LPAH (calc'd) ^b	µg/kg dw	83 J ^a	167	2,200	330	280	260	167	69 J	85 J	23 J
Sediment grain size											
Fines (percent silt+clay)	% dw	5.41	27.9	34.6	63.9	29.6	69.3	31.7	69.4	48.0	20.5
Fractional % phi >-1 (>2,000 µm)	% dw	8.29	5.76	23.0	1.37	2.11	2.57	0.33	0.24	0.91	0.14
Fractional % phi 0-1 (500-1,000 µm)	% dw	13.7	9.36	11.8	2.66	8.55	2.54	7.36	2.58	9.42	14.4
Fractional % phi -1-0 (1,000-2,000 µm)	% dw	3.06	3.06	8.15	2.37	1.82	1.20	0.49	0.78	1.54	1.82
Fractional % phi 10+ (<0.98µm)	% dw	0.89	2.36	4.76	5.18	2.73	7.50	2.62	3.55	3.03	2.20
Fractional % phi 1-2 (250-500 µm)	% dw	37.4	21.7	9.49	10.2	32.2	4.84	22.2	3.31	23.5	34.6
Fractional % phi 2-3 (125-250 µm)	% dw	22.9	15.4	4.23	9.39	18.0	5.42	19.6	8.06	5.97	19.9
Fractional % phi 3-4 (62.5-125 µm)	% dw	4.83	14.8	2.48	9.81	7.11	13.8	18.7	16.7	11.8	9.36
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	1.16	7.50	2.78	12.0	6.35	10.8	7.68	29.3	19.5	7.46
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	0.53	5.29	8.71	15.6	7.85	18.5	7.78	18.1	12.0	4.83
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	0.82	4.32	8.26	14.7	5.42	15.2	6.16	9.58	6.35	2.81
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	0.78	3.33	4.44	8.96	3.58	8.00	3.64	4.73	3.55	1.48
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	0.86	3.38	3.08	5.81	2.50	5.44	2.67	2.73	2.42	1.30
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	0.37	1.73	2.52	1.69	1.20	3.86	1.16	1.36	1.14	0.40
Rocks (total calc'd) ^c	% dw	8.29	5.76	23.0	1.37	2.11	2.57	0.33	0.24	0.91	0.14
Sand (total calc'd) ^c	% dw	81.9	64.3	36.2	34.4	67.7	27.8	68.4	31.4	52.2	80.1

Table A-6, cont.

ANALYTE	UNIT	B1b-S	B2b-S	B3b-S	B4b-S	B5b-S	B6b-S	B7b-S	B8b-S	B9b-S	B10b-S
Silt (total calc'd) ^c	% dw	3.29	20.4	24.2	51.3	23.2	52.5	25.3	61.7	41.4	16.6
Clay (total calc'd) ^c	% dw	2.12	7.47	10.4	12.7	6.43	16.8	6.45	7.64	6.59	3.90
Conventional parameters											
Total organic carbon (TOC)	% dw	0.50	0.93	1.82	2.79	1.39	2.96	1.30 ^a	2.36	1.74	1.09
Total solids	% ww	75.2 ^a	66.4	66.4	45.9	57.8	47.9 ^a	52.0 ^a	47.0	54.2	59.1

^a Laboratory replicate was run for sample. Value selected using averaging rules in Appendix B.

^b Totals were calculated following rules described in Appendix B

^c Total were calculated for each category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

dw – dry weight

na – not analyzed

ww – wet weight

Data qualifiers: U - not detected at reporting limit shown; J - estimated concentration; UJ - not detected at estimated reporting limit shown; JN - analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification; value is an estimate; R - rejected concentration; J* - Alkylated PAHs were analyzed by the method specified in the QAPP. The validation review did not result in qualification. EPA QA office requested the J qualification based on the use of parent compound response factors to quantify the alkylated compounds.

Table A-7. Concentrations of all analytes in clam tissue samples collected from the LDW

ANALYTE	UNIT	C1-T	C2-T1	C2-T2	C3-T1	C3-T2	C4-T	C5-T	C6-T	C7-T1	C7-T2	C8-T	C9-T	C10-T1	C10-T2
Metals and trace elements															
Antimony	mg/kg ww	0.011	0.010	0.007 ^a	0.062	0.096	0.252	0.029	0.052	0.022	0.023	0.072	0.010	0.043	0.026
Arsenic	mg/kg ww	1.300 J	1.840 J	1.875 J ^a	2.010 J	4.640 J	5.870 J	2.280 J	2.730 J	2.820 J	3.860 J	5.440 J	1.480 J	4.070 J	2.810 J
Arsenic (Inorganic)	mg/kg ww	0.132	0.648	na	0.885	na	3.27	0.795	1.85	na	2.11	na	0.233	na	na
Cadmium	mg/kg ww	0.123	0.064	0.087 ^a	0.124	0.080	0.083	0.100	0.069	0.124	0.111	0.148	0.122	0.066	0.092
Chromium	mg/kg ww	0.54	0.36	0.59 ^a	0.58	0.93	0.77	0.70	0.38	0.88	0.75	1.32	0.49	0.57	0.48
Cobalt	mg/kg ww	0.2820	0.1470	0.2445 ^a	0.2740	0.2710	0.3300	0.3150	0.3560	0.2630	0.2560	0.3530	0.2640	0.7110	0.6220
Copper	mg/kg ww	6.03	4.00	6.74 ^a	7.30	6.24	6.27	6.41	3.50	4.12	4.02	5.39	6.59	4.20	3.96
Lead	mg/kg ww	0.446	0.368	0.384 ^a	3.940	4.570	1.700	1.970	2.310	1.130	1.140	6.370	1.590	0.877	0.597
Mercury	mg/kg ww	0.015	0.011	0.009 ^a	0.016	0.020	0.018	0.018	0.014	0.015	0.014	0.022	0.020	0.019	0.019
Molybdenum	mg/kg ww	0.2280	0.1990	0.2315 ^a	0.2130	0.2320	0.2550	0.2890	0.1750	0.2190	0.2080	0.3070	0.2340	0.3610	0.3100
Nickel	mg/kg ww	0.539	0.313	0.702 ^a	0.539	0.744	0.490	0.542	0.590	0.642	0.614	1.090	0.480	0.573	0.493
Selenium	mg/kg ww	0.313	0.259	0.269 ^a	0.261	0.292	0.269	0.373	0.215	0.261	0.237	0.239	0.318	0.301	0.294
Silver	mg/kg ww	0.021	0.019	0.025 ^a	0.013	0.016	0.038	0.026	0.012	0.056	0.056	0.093	0.060	0.031	0.028
Thallium	mg/kg ww	0.0009	0.0011	0.0014 ^a	0.0014	0.0021	0.0011	0.0014	0.0010	0.0013	0.0020	0.0042	0.0011	0.0019	0.0014
Vanadium	mg/kg ww	0.69	1.05	1.03 ^a	1.08	1.65	1.20	1.24	1.07	1.15	1.33	2.65	0.68	1.61	1.13
Zinc	mg/kg ww	19.3	16.1	22.8 ^a	23.5	30.1	27.7	22.7	19.1	24.6	21.6	32.3	27.1	20.6	24.9
Organometals															
Monobutyltin as ion	µg/kg ww	1.4	1.1	1.0 J ^a	0.78 J	1.0	1.9	2.5	0.57 J	0.79 J	0.65 J	2.2	0.72 J	1.5	1.3
Dibutyltin as ion	µg/kg ww	3.7 J	2.4	3.5 J ^a	1.8	4.0 J	3.9 U	10 J	1.9	3.3	2.6	4.9 J	4.1	5.4 J	4.4 J
Tributyltin as ion	µg/kg ww	350	200	270 ^a	290	300	560	660	160	210	160	150	420	390	420
Tetrabutyltin as ion	µg/kg ww	0.98 U	0.99 U	1.0 U ^a	0.99 U	0.99 U	1.0 U	0.99 U	0.98 U	0.98 U	0.98 U	1.0 U	0.97 U	0.98 U	1.0 U
Pesticides															
2,4'-DDD	µg/kg ww	1.0 U	1.0 UJ	2.0 J ^a	2.1 J	2.2 J	2.8 J	3.2 J	2.6 J	2.3 UJ	2.9 U	4.4 U	3.1 J	4.2	4.8
2,4'-DDE	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 UJ	1.2 U	1.3 U	1.0 U	1.4 U	1.5 U
2,4'-DDT	µg/kg ww	2.1 J	2.8 J	2.7 ^a	2.1	2.8	3.3 J	2.9	3.2 J	7.1 J	6.9	21 J	3.0 J	3.2 U	3.5 U
4,4'-DDD	µg/kg ww	0.66 J	0.92 J	1.4 ^a	0.45 J	0.48 J	0.40 J	0.54 J	0.49 J	1.3 J	1.2	1.0 U	0.56 J	0.23 J	0.24 J
4,4'-DDE	µg/kg ww	1.0 U	1.0 UJ	1.6 J ^a	1.3 J	1.1	0.70 J	0.86 J	0.84 J	3.5 J	2.4	1.0 U	1.0 J	1.0 U	1.0 U
4,4'-DDT	µg/kg ww	1.0 J	0.84 J	1.9 ^a	1.7	1.8	1.2 J	2.1	1.4	4.1 J	5.2	12	2.2	8.9	8.6 J
Aldrin	µg/kg ww	1.0 U	0.95 J	1.0 J ^a	1.0 U	0.77 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Table A-7, cont.

ANALYTE	UNIT	C1-T	C2-T1	C2-T2	C3-T1	C3-T2	C4-T	C5-T	C6-T	C7-T1	C7-T2	C8-T	C9-T	C10-T1	C10-T2
alpha-BHC	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.0 U	0.35 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
alpha-Chlordane	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
alpha-Endosulfan	µg/kg ww	1.0 U	1.0 UJ	0.53 J ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8 UJ	2.8	4.3 U	1.0 U	1.0 U	1.0 U
beta-BHC	µg/kg ww	1.3 J	0.76 J	0.41 J ^a	0.88 J	1.1 J	0.74 J	1.1 J	0.78 J	1.9 J	1.0 UJ	1.0 UJ	1.0 UJ	1.1 UJ	1.6 J
beta-Endosulfan	µg/kg ww	1.1 U	1.0 UJ	1.0 U ^a	4.8 J	1.2 U	1.0 U	1.0 U	1.1 U	4.8 J	1.0 U	1.0 U	1.0 U	4.6 J	3.8
DDTs (total-calc'd) ^b	µg/kg ww	3.8 J	4.6 J	9.6 J ^a	7.7 J	8.4 J	8.4 J	9.6 J	8.5 J	16 J	15.7	33 J	9.9 J	13.3 J	13.6 J
delta-BHC	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 J	0.98 J	2.2 J	1.0 U	1.0 U	1.0 U
Dieldrin	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	3.8 J	4.6 J	1.0 U	5.0 J	1.0 U	1.0 UJ	1.0 U	24 U	3.8	1.0 U	1.0 U
Endosulfan sulfate	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Endrin	µg/kg ww	1.0 U	0.14 J	0.21 J ^a	1.0 U	0.14 J	0.10 J	0.27	0.16 J	0.67 J	0.45 J	1.6 J	1.0 U	0.23 J	0.23 J
Endrin aldehyde	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.49 J	0.42 J	3.6 U	1.0 U	1.0 U	1.0 U
Endrin ketone	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	2.4 U	2.6 U
gamma-BHC	µg/kg ww	1.0 U	1.0 UJ	0.51 J ^a	1.0 U	1.0 U	1.0 U	0.99 J	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	2.5 J	1.0 U
gamma-Chlordane	µg/kg ww	1.3 J	0.99 J	1.1 J ^a	1.1 J	1.0	0.86 J	1.2	1.0	3.5 J	3.6 J	9.3	1.5 J	1.2 J	1.1 J
Heptachlor	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Heptachlor epoxide	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.1 J	1.0 U	1.0 U	1.5 J	1.2 J	1.0 UJ	1.0 U	1.5 J	1.5 J	1.0 U	1.0 U
Methoxychlor	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.0 U	0.63 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Mirex	µg/kg ww	1.0 U	1.0 UJ	1.0 U ^a	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toxaphene	µg/kg ww	50 U	50 UJ	50 U ^a	50 U	50 U	50 U	50 U	50 U	57 UJ	57 U	100 U	50 U	240 U	250 U
Polychlorinated biphenyls															
Aroclor-1016	µg/kg ww	10 U	10 U	10 U ^a	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Aroclor-1221	µg/kg ww	20 U	20 U	20 U ^a	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Aroclor-1232	µg/kg ww	10 U	10 U	10 U ^a	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Aroclor-1242	µg/kg ww	10 U	10 U	10 U ^a	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Aroclor-1248	µg/kg ww	10 U	10 U	10 U ^a	10 U	10 U	10 U	10 U	10 U	64 J	75 J	190 J	10 U	10 U	10 U
Aroclor-1254	µg/kg ww	24	24	29 ^a	33	32	31	43	34	160	170	390	50	77	79
Aroclor-1260	µg/kg ww	10 U	10 U	10 U ^a	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	240	250
PCBs (total calc'd) ^b	µg/kg ww	24	24	29 ^a	33	32	31	43	34	220 J	250 J	580 J	50	320	330
Semivolatile organic compounds															
1,2,4-Trichlorobenzene	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
1,2-Dichlorobenzene	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
1,3-Dichlorobenzene	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U

Table A-7, cont.

ANALYTE	UNIT	C1-T	C2-T1	C2-T2	C3-T1	C3-T2	C4-T	C5-T	C6-T	C7-T1	C7-T2	C8-T	C9-T	C10-T1	C10-T2
1,4-Dichlorobenzene	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
2,4,5-Trichlorophenol	µg/kg ww	78 U	78 U	79 U ^a	77 U	78 U	80 U	79 U	77 U	80 U	80 U	77 U	78 U	80 U	80 U
2,4,6-Trichlorophenol	µg/kg ww	78 U	78 U	79 U ^a	77 U	78 U	80 U	79 U	77 U	80 U	80 U	77 U	78 U	80 U	80 U
2,4-Dichlorophenol	µg/kg ww	78 U	78 U	79 U ^a	77 U	78 U	80 U	79 U	77 U	80 U	80 U	77 U	78 U	80 U	80 U
2,4-Dimethylphenol	µg/kg ww	78 UJ	78 UJ	79 U ^a	77 UJ	78 UJ	80 UJ	79 UJ	77 UJ	80 UJ	80 UJ	77 UJ	78 UJ	80 UJ	80 UJ
2,4-Dinitrophenol	µg/kg ww	780 U	780 U	790 U ^a	770 U	780 U	800 U	790 U	770 U	800 U	800 U	770 U	780 U	800 U	800 U
2,4-Dinitrotoluene	µg/kg ww	78 U	78 U	79 U ^a	77 U	78 U	80 U	79 U	77 U	80 U	80 U	77 U	78 U	80 U	80 U
2,6-Dinitrotoluene	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
2-Chloronaphthalene	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
2-Chlorophenol	µg/kg ww	78 U	78 U	79 U ^a	77 U	78 U	80 U	79 U	77 U	80 U	80 U	77 U	78 U	80 U	80 U
2-Methylnaphthalene	µg/kg ww	0.87 J	0.73 J	0.77 J ^a	1.1	1.1	0.90 J	0.88 J	0.66 J	0.77 J	0.79 J	1.9	0.69 J	0.41 J	0.44 J
2-Methylphenol	µg/kg ww	78 U	78 U	79 U ^a	77 U	78 U	80 U	79 U	77 U	80 U	80 U	77 U	78 U	80 U	80 U
2-Nitroaniline	µg/kg ww	200 U	200 U	200 U ^a	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
2-Nitrophenol	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
3,3'-Dichlorobenzidine	µg/kg ww	2,000 U	2,000 U	2,000 U ^a	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U	2,000 U
3-Nitroaniline	µg/kg ww	390 U	390 U	400 U ^a	390 U	390 U	400 U	400 U	390 U	400 U	400 U	390 U	390 U	400 U	400 U
4,6-Dinitro-o-cresol	µg/kg ww	390 U	390 U	400 U ^a	390 U	390 U	400 U	400 U	390 U	400 U	400 U	390 U	390 U	400 U	400 U
4-Bromophenyl phenyl ether	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
4-Chloro-3-methylphenol	µg/kg ww	200 U	200 U	200 U ^a	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Chloroaniline	µg/kg ww	200 U	200 U	200 U ^a	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Chlorophenyl phenyl ether	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
4-Methylphenol	µg/kg ww	78 U	78 U	20 J ^a	77 U	78 U	23 J	79 U	24 J	20 J	41 J	32 J	78 U	15 J	80 U
4-Nitroaniline	µg/kg ww	200 U	200 U	200 U ^a	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
4-Nitrophenol	µg/kg ww	390 U	390 U	400 U ^a	390 U	390 U	400 U	400 U	390 U	400 U	400 U	390 U	390 U	400 U	400 U
Acenaphthene	µg/kg ww	1.1	0.97	1.2 ^a	1.8	1.5	1.5	3.0	1.8	2.6	2.2	7.6	1.6	0.82	1.2
Acenaphthylene	µg/kg ww	0.68	0.60	0.83 ^a	1.2	1.1	1.5	1.9	0.96	1.6	1.1	1.5	1.3	0.61	0.56
Aniline	µg/kg ww	780 U	780 U	790 U ^a	770 U	780 U	800 U	790 U	770 U	800 U	800 U	770 U	780 U	800 U	800 U
Anthracene	µg/kg ww	2.7	2.0	2.9 ^a	3.7	3.4	3.7	7.2	3.4	5.6	4.3	8.0	4.8	1.8	1.8
Benzidine	µg/kg ww	5,000 U	5,000 U	5,000 U ^a	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U
Benzo(a)anthracene	µg/kg ww	21	15	19 ^a	21	19	23	39	21	31	23	42	26	12	12
Benzo(a)pyrene	µg/kg ww	6.2	3.0	4.6 ^a	5.4	4.8	7.3	13	5.2	14	9.8	26	7.2	4.6	4.3
Benzo(b)fluoranthene	µg/kg ww	14	7.8	9.5 ^a	11	11	13	23	11	24	21	44	14	8.2	7.3

Table A-7, cont.

ANALYTE	UNIT	C1-T	C2-T1	C2-T2	C3-T1	C3-T2	C4-T	C5-T	C6-T	C7-T1	C7-T2	C8-T	C9-T	C10-T1	C10-T2
Benzo(g,h,i)perylene	µg/kg ww	6.1	3.3	4.5 ^a	6.0	5.5	8.6	12	5.3	16	15	32	8.0	8.0	7.1
Benzo(k)fluoranthene	µg/kg ww	12	6.8	8.9 ^a	9.8	9.8	11	18	8.4	22	18	38	12	6.5	6.2
Benzo(a)fluoranthene (total-calc'd) ^b	µg/kg ww	26	14.6	18.4 ^a	21	21	24	41	19	46	39	82	26	14.7	13.5
Benzoic acid	µg/kg ww	600 J	430 J	530 J ^a	340 J	360 J	600 J	430 J	440 J	640 J	420 J	340 J	450 J	500 J	460 J
Benzyl alcohol	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
bis(2-chloroethoxy)methane	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
bis(2-chloroethyl)ether	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
bis(2-chloroisopropyl)ether	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
Bis(2-ethylhexyl)phthalate	µg/kg ww	67 J	490 U	72 J ^a	490 U	56 J	120 J	500 U	86 J	84 J	100 J	220 J	120 J	56 J	500 U
Butyl benzyl phthalate	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
Carbazole	µg/kg ww	200 U	200 U	200 U ^a	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U	200 U
Chrysene	µg/kg ww	37	27	31 ^a	39	36	42	63	34	58	52	85	44	20	20
Dibenzo(a,h)anthracene	µg/kg ww	1.4	0.81	1.0 ^a	1.2	0.63	1.2	1.4	0.74	1.7	1.9	5.1	0.85	1.3	0.65
Dibenzofuran	µg/kg ww	1.0	0.84	1.1 ^a	1.3	1.4	1.2	2.3	1.6	1.6	1.5	2.8	1.3	0.61	0.62
Diethyl phthalate	µg/kg ww	78 U	78 U	14 J ^a	77 U	78 U	9.5 J	79 U	77 U	80 U	80 U	77 U	78 U	80 U	80 U
Dimethyl phthalate	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
Di-n-butyl phthalate	µg/kg ww	32 J	34 J	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	19 J	33 J	39 U	40 U	40 U
Di-n-octyl phthalate	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
Fluoranthene	µg/kg ww	57	48	59 ^a	74	74	65	110	62	88	84	120	74	34	37
Fluorene	µg/kg ww	1.5	1.2	1.5 ^a	2.1	2.1	1.9	3.7	2.0	2.6	2.3	4.6	1.8	0.93	0.81
Hexachlorobenzene	µg/kg ww	1.0 U	1.0 UJ	0.61 J ^a	1.0 U	0.50 J	0.77 J	0.88 J	0.96 J	1.0 J	0.38 J	1.0 U	1.0 U	0.75 J	0.91 J
Hexachlorobutadiene	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
Hexachlorocyclopentadiene	µg/kg ww	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U	5,000 U
Hexachloroethane	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
Indeno(1,2,3-cd)pyrene	µg/kg ww	3.9	2.1	2.3 ^a	3.3	2.7	4.7	5.4	3.0	8.6	10	28	4.0	3.1	2.8
Isophorone	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
Naphthalene	µg/kg ww	0.79 UJ	0.71 UJ	0.80 J ^a	0.83 UJ	0.91 UJ	1.0 U	0.96 UJ	0.80 UJ	0.90 UJ	0.80 UJ	1.6 U	0.78 UJ	0.57 UJ	0.59 UJ
Nitrobenzene	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
N-Nitrosodimethylamine	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
N-Nitroso-di-n-propylamine	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
N-Nitrosodiphenylamine	µg/kg ww	39 U	39 U	40 U ^a	39 U	39 U	40 U	40 U	39 U	40 U	40 U	39 U	39 U	40 U	40 U
Pentachlorophenol	µg/kg ww	390 U	390 U	400 U ^a	390 U	390 U	400 U	400 U	390 U	400 U	400 U	390 U	390 U	400 U	400 U

Table A-7, cont.

ANALYTE	UNIT	C1-T	C2-T1	C2-T2	C3-T1	C3-T2	C4-T	C5-T	C6-T	C7-T1	C7-T2	C8-T	C9-T	C10-T1	C10-T2
Phenanthrene	µg/kg ww	9.0	6.7	7.3 ^a	11	11	9.2	19	10	13	11	26	10	4.0	4.4
Phenol	µg/kg ww	19 J	20 J	23 J ^a	97 U	18 J	50 J	18 J	23 J	29 J	30 J	36 J	24 J	35 J	100 U
Pyrene	µg/kg ww	48	39	48 ^a	61	62	57	97	54	81	81	130	66	34	36
Total HPAH (calc'd) ^b	µg/kg ww	207	153	188 ^a	232	225	233	380	205	344	316	550	256	132	133
Total LPAH (calc'd) ^b	µg/kg ww	15	11.5	14.5 J ^a	20	19	17.8	35	18	25	21	48	20	8.2	8.8
Conventional parameters															
Lipid	% ww	0.65	0.60	0.66 ^a	0.64	0.76	0.75	0.79	0.81	0.78	0.83	0.80	0.79	0.55	0.57
Total solids	% ww	13.7	13.1 ^a	15.7 ^a	15.1	17.3	13.6	15.6	15.3	14.9	15.3	16.2	15.6	13.7	12.8

^a Result shown is average of one or more laboratory replicate analyses

^b Totals were calculated following rules described in Appendix B

Data qualifiers: U - not detected at reporting limit shown; J - estimated concentration; UJ - not detected at estimated reporting limit shown; JN - analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification; value is an estimate

na – not applicable

ww – wet weight

Table A-8. Concentrations of all analytes in clam tissue samples collected from background areas

ANALYTE	UNIT	BI-C-T1	BI-C-T2	BI-C-T3	BI-C-T4	BI-C-T5	BI-C-T6	SP-C-T1	SP-C-T2	SP-C-T3	SP-C-T4	SP-C-T5	SP-C-T6
Arsenic (total)	mg/kg ww	2.55	2.83	1.70	2.31	2.35	1.89	1.09	2.25	2.11	2.04	2.13	1.98
Arsenic (inorganic)	mg/kg ww	0.074 J	0.085 J	0.069 J ^a	0.446 J	0.044 J	0.331 J	0.098 J	0.616 J	0.537 J	0.536 J	0.541 J	0.485 J
Lipid	% ww	0.61 ^a	0.64	0.66	0.88	0.83	0.73	0.40	0.20	0.21	0.26	0.26	0.23
Total solids	% ww	19.2	18.6	17.3 ^a	21.0 ^a	19.7	18.8	15.2	20.9	22.5	22.2	22.0	21.9

^a Result shown is average of one or more laboratory replicate analyses

Data qualifier: J - estimated concentration

Table A-9. Concentrations of all analytes in sediment samples co-located with clam tissue samples from the LDW

ANALYTE	UNIT	C1-S	C2-S1	C2-S2	C3-S1	C3-S2	C4-S	C5-S	C6-S	C7-S1	C7-S2	C8-S	C9-S	C10-S1	C10-S2
Metals and trace elements															
Antimony	mg/kg dw	0.21 J	0.76 J	0.15 J	2.28 J	1.08 J ^a	20.2 J	0.67 J	2.04 J	6.12 J	0.33 J	2.64 J	0.45 J	2.17 J	0.79 J
Arsenic	mg/kg dw	3.53	5.79	3.13	4.63	3.62 ^a	49.0	4.72	5.52	6.17	6.80	10.5	3.94	11.9	10.8
Cadmium	mg/kg dw	0.050	0.140	0.110	0.220	0.180 ^a	0.200	0.070	0.120	0.310	0.190	1.40	0.060	0.210	0.160
Chromium	mg/kg dw	9.10	11.4	9.84	12.2	10.6 ^a	19.9	10.4	12.0	11.6	13.1	27.4	12.2	17.4	14.7
Cobalt	mg/kg dw	3.83	3.26	3.07	3.12	2.82 ^a	5.43	3.92	3.91	3.99	4.24	5.78	3.88	7.92	7.37
Copper	mg/kg dw	17.6	21.6	14.8	98.5	21.9 ^a	118	17.4	22.1	22.0	20.9	54.0	18.0	26.7	22.9
Lead	mg/kg dw	13.1 J	10.9 J	7.94 J	134 J	51.0 J ^a	59.6 J	22.5 J	91.5 J	32.0 J	17.5 J	181 J	51.2 J	34.2 J	33.0 J
Mercury	mg/kg dw	0.053	0.041	0.066	0.047	0.029	0.051 ^a	0.021	0.038	0.030	0.039	0.211	0.076	0.042	0.036
Molybdenum	mg/kg dw	0.494 J	1.250 J	0.666 J	0.455 J	0.537 J ^a	3.710 J	0.495 J	0.543 J	1.150 J	0.390 J	2.430 J	0.486 J	0.994 J	0.902 J
Nickel	mg/kg dw	7.52	6.40	6.31	8.36	8.73 ^a	9.73	11.3	8.96	13.1	13.6	19.6	11.3	14.3	11.4
Selenium	mg/kg dw	0.4	0.6	0.4	0.4	0.3 ^a	0.5	0.3	0.4	0.4	0.4	0.6	0.3	0.6	0.6
Silver	mg/kg dw	0.040	0.164	0.117	0.094	0.073 ^a	0.485	0.077	0.083	0.510	0.139	0.980	0.084	0.157	0.155
Thallium	mg/kg dw	0.036	0.064	0.049	0.054	0.054 ^a	0.053	0.044	0.047	0.050	0.053	0.079	0.037	0.060	0.111
Vanadium	mg/kg dw	44.2	44.7	43.7	39.6	34.8 ^a	43.5	41.5	45.1	45.9	31.1	54.9	41.8	64.8	65.1
Zinc	mg/kg dw	42.6 J	45.8 J	36.4 J	199 J	148 J ^a	236 J	70.4 J	64.8 J	101 J	60.3 J	275 J	55.8 J	136 J	143 J
Organometals															
Monobutyltin as ion	µg/kg dw	0.31 J	0.66 J	1.2 ^a	1.4	0.64 J	2.0	0.85 J	2.3	0.63 J	0.68 J	5.9	0.60 J	2.5	1.2 J
Dibutyltin as ion	µg/kg dw	0.43 J	2.5	1.2 J ^a	0.83 J	0.42 J	3.1	2.9	1.4 J	1.9	1.5	9.8	1.3 J	2.8	1.6 J
Tributyltin as ion	µg/kg dw	0.28 J	4.3	1.2 J ^a	0.74 J	0.39 J	3.4	6.5	1.8	2.0	1.1 J	7.0	1.3 J	3.8	2.7
Tetrabutyltin as ion	µg/kg dw	1.4 U	1.8 U	1.5 U ^a	1.4 U	1.4 U	1.5 U	1.4 U	1.5 U	1.3 U	1.3 U	1.7 U	1.4 U	2.0 U	2.0 U
Pesticides															
2,4'-DDD	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	1.9 U	0.98 U	0.99 U	8.1 U	3.1 U	25 U	1.6 J	10 J	25 U
2,4'-DDE	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	1.4 U	0.98 U	0.99 U	14 U	3.9 U	25 U	0.97 U	4.8 U	1.1 UJ
2,4'-DDT	µg/kg dw	0.24 J	2.2	3.3 ^a	1.9	1.8	4.0	2.0	2.1	25 U	11	34 U	1.3	12 U	25 U
4,4'-DDD	µg/kg dw	1.0 U	0.47 J	0.42 J ^a	0.30 J	0.96 J	0.98 U	0.44 J	0.61 J	4.4 J	1.0	5.8 J	0.30 J	2.1 U	6.9 UJ
4,4'-DDE	µg/kg dw	1.0 U	0.95 J	0.98 U ^a	1.1 J	2.6	1.6 J	0.98 U	0.54 J	0.99 U	1.0 U	1.4 U	0.97 U	1.0 U	0.98 UJ
4,4'-DDT	µg/kg dw	0.48 J	1.9	3.3 ^a	2.8	7.9	4.8	2.5	3.0	25 U	13	25 U	1.9	9.9 U	20 J
Aldrin	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	0.81 J	0.98 U	0.39 J	0.99 U	1.0 U	6.8 U	0.97 U	1.0 U	0.98 UJ
alpha-BHC	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	0.98 U	0.98 U	0.99 U	0.99 U	1.0 U	0.99 U	0.97 U	0.81 J	0.98 UJ
alpha-Chlordane	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	0.98 U	0.13 J	0.99 U	0.99 U	1.0 U	0.99 U	0.10 J	1.0 U	0.98 UJ
alpha-Endosulfan	µg/kg dw	1.0 U	0.24 J	0.63 J ^a	0.26 J	1.0 U	0.98 U	0.33 J	0.29 J	27 J	1.0 U	71 J	0.18 J	1.0 U	1.5 UJ

Table A-9, cont.

ANALYTE	UNIT	C1-S	C2-S1	C2-S2	C3-S1	C3-S2	C4-S	C5-S	C6-S	C7-S1	C7-S2	C8-S	C9-S	C10-S1	C10-S2
beta-BHC	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.69 J	1.0 U	0.98 U	0.98 U	0.99 U	0.99 U	1.0 U	0.99 U	0.97 U	2.5	0.98 UJ
beta-Endosulfan	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	0.98 U	0.98 U	0.99 U	1.2 U	1.0 U	5.5 U	0.97 U	5.7 U	6.6 UJ
DDTs (total-calc'd) ^b	µg/kg dw	0.72 J	5.5 J	7.0 J ^a	6.1 J	13.3 J	10.4 J	4.9 J	6.3 J	4.4 J	25	5.8 J	5.1 J	12 U	20 J
delta-BHC	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	0.98 U	0.98 U	0.99 U	0.42 J	1.0 U	11	0.97 U	1.0 U	0.98 UJ
Dieldrin	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	3.8 U	0.98 U	0.99 U	0.99 U	1.0 U	1.1 U	0.97 U	41 UJ	91 UJ
Endosulfan sulfate	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	0.63 J	0.98 U	0.98 U	0.99 U	0.99 U	1.0 U	7.2 U	0.97 U	1.0 U	0.98 UJ
Endrin	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	0.98 U	0.98 U	0.99 U	4.6 J	0.99 J	3.5 U	0.97 U	1.0 U	2.0 UJ
Endrin aldehyde	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	0.28 J	0.98 U	0.98 U	0.99 U	9.3 J	2.4 J	41 J	0.97 U	25 U	53 UJ
Endrin ketone	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	0.98 U	0.98 U	0.99 U	1.3 U	1.0 U	7.9 U	0.97 U	59 UJ	110 J
gamma-BHC	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	0.98 U	0.98 U	0.99 U	1.8 J	1.0 U	6.7 J	0.97 U	9.9 U	0.98 UJ
gamma-Chlordane	µg/kg dw	0.20 J	1.4 J	1.5 J ^a	0.99 J	1.0 U	2.3 U	1.1 J	1.1 J	35 J	5.5 J	130 J	0.47 J	49 UJ	96 UJ
Heptachlor	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	0.98 U	0.98 U	0.99 U	0.99 U	1.0 U	0.99 U	0.97 U	1.0 U	0.89 J
Heptachlor epoxide	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	0.98 U	0.98 U	0.99 U	0.99 U	1.0 U	1.9 U	0.97 U	1.0 U	0.62 UJ
Methoxychlor	µg/kg dw	0.96 J	0.50 J	0.98 U ^a	0.34 J	1.7 U	0.98 U	0.98 U	0.99 U	1.1 U	1.0 U	2.5 U	0.97 U	18 U	4.0 UJ
Mirex	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	1.4 U	1.4 U	0.99 U	0.99 U	1.0 U	1.9 U	0.97 U	5.2 U	1.0 J
Toxaphene	µg/kg dw	50 U	50 U	49 U ^a	49 U	50 U	170 U	49 U	51 U	240 U	200 U	1,200 UJ	49 U	4,300 UJ	2,900 UJ
Polychlorinated biphenyls															
Aroclor-1016	µg/kg dw	10 U	9.9 U	9.8 U ^a	9.7 U	10 U	9.8 U	9.8 U	9.9 U	99 U	10 U	99 U	9.7 U	100 U	200 U
Aroclor-1221	µg/kg dw	20 U	20 U	20 U ^a	20 U	20 U	20 U	20 U	20 U	200 U	20 U	200 U	20 U	200 U	400 U
Aroclor-1232	µg/kg dw	10 U	9.9 U	9.8 U ^a	9.7 U	10 U	9.8 U	9.8 U	9.9 U	99 U	10 U	99 U	9.7 U	100 U	200 U
Aroclor-1242	µg/kg dw	10 U	9.9 U	9.8 U ^a	9.7 U	10 U	9.8 U	9.8 U	9.9 U	99 U	10 U	99 U	9.7 U	100 U	200 U
Aroclor-1248	µg/kg dw	10 U	9.9 U	9.8 U ^a	9.7 U	10 U	9.8 U	9.8 U	9.9 U	99 U	10 U	99 U	9.7 U	100 U	200 U
Aroclor-1254	µg/kg dw	10 U	28	50 ^a	24	11 U	69	25	28	1,000	180	3,300	14	100 U	200 U
Aroclor-1260	µg/kg dw	3.1 J	28	49 ^a	28 J	11 U	57 U	28	33	99 U	200 J	99 U	21	6,600	15,000
PCBs (total calc'd) ^b	µg/kg dw	3.1 J	56	99 ^a	52 J	20 U	69	53	61	1,000	380 J	3,300	35	6,600	15,000
Semivolatile organic compounds															
1,2,4-Trichlorobenzene	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
1,2-Dichlorobenzene	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
1,3-Dichlorobenzene	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
1,4-Dichlorobenzene	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
2,4,5-Trichlorophenol	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
2,4,6-Trichlorophenol	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
2,4-Dichlorophenol	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
2,4-Dimethylphenol	µg/kg dw	100 UJ	100 UJ	100 UJ	100 UJ	250 UJ	500 UJ	100 UJ ^a	96 UJ	500 UJ	250 UJ	500 UJ	100 UJ	500 UJ	250 UJ
2,4-Dinitrophenol	µg/kg dw	400 U	400 U	400 U	400 U	1,000 U	2,000 U	400 U ^a	390 U	2,000 U	990 U	2,000 U	400 U	2,000 U	1,000 U

Table A-9, cont.

ANALYTE	UNIT	C1-S	C2-S1	C2-S2	C3-S1	C3-S2	C4-S	C5-S	C6-S	C7-S1	C7-S2	C8-S	C9-S	C10-S1	C10-S2
2,4-Dinitrotoluene	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
2,6-Dinitrotoluene	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
2-Chloronaphthalene	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
2-Chlorophenol	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
2-Methylnaphthalene	µg/kg dw	1.7 J ^a	6.2	1.8 J	3.6 J	3.0 J	17	6.2	3.7 J	4.2 J	3.1 J	43	2.8 J	8.2	9.4
2-Methylphenol	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
2-Nitroaniline	µg/kg dw	40 U	40 U	40 U	40 U	100 U	200 U	40 U ^a	39 U	200 U	99 U	200 U	40 U	200 U	100 U
2-Nitrophenol	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
3,3'-Dichlorobenzidine	µg/kg dw	200 U	200 U	200 U	200 U	500 U	1,000 U	200 U ^a	200 U	990 U	500 U	1,000 U	200 U	1,000 U	500 U
3-Nitroaniline	µg/kg dw	40 U	40 U	40 U	40 U	100 U	200 U	40 U ^a	39 U	200 U	99 U	200 U	40 U	200 U	100 U
4,6-Dinitro-o-cresol	µg/kg dw	200 U	200 U	200 U	200 U	500 U	1,000 U	200 U ^a	200 U	990 U	500 U	1,000 U	200 U	1,000 U	500 U
4-Bromophenyl phenyl ether	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
4-Chloro-3-methylphenol	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	6.4 J	99 U	50 U	100 U	20 U	100 U	50 U
4-Chloroaniline	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
4-Chlorophenyl phenyl ether	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
4-Methylphenol	µg/kg dw	8.7 J	62	160	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	24	150	29 J
4-Nitroaniline	µg/kg dw	40 U	40 U	40 U	40 U	100 U	200 U	40 U ^a	39 U	200 U	99 U	200 U	40 U	200 U	100 U
4-Nitrophenol	µg/kg dw	200 U	200 U	200 U	200 U	500 U	1,000 U	200 U ^a	200 U	990 U	500 U	1,000 U	200 U	1,000 U	500 U
Acenaphthene	µg/kg dw	1.4 J ^a	15	1.1 J	1.4 J	3.7 J	2.7 J	41	4.6 J	6.0	4.6 J	530	2.7 J	7.5	8.1
Acenaphthylene	µg/kg dw	4.0 J ^a	31	1.3 J	9.9	8.9	47	12	5.3	16	6.2	77	4.3 J	7.1	9.8
Aniline	µg/kg dw	40 U	40 U	40 U	40 U	100 U	200 U	40 U ^a	39 U	200 U	99 U	200 U	40 U	200 U	100 U
Anthracene	µg/kg dw	8.2 ^a	78	3.6 J	15	19	33	59	17	47	25	650	12	77	56
Benzdine	µg/kg dw	R	R	R	R	R	R	1,400 U ^a	R	R	R	R	R	R	R
Benzo(a)anthracene	µg/kg dw	16 ^a	180	7.6	44	53	140	160	41	130	98	3,100	42	200	160
Benzo(a)pyrene	µg/kg dw	16 ^a	160	8.4	47	76	190	170	42	150	110	4,900	41	200	120
Benzo(b)fluoranthene	µg/kg dw	17 ^a	120	12	45	79	140	210	58	220	160	4,600	67	220	180
Benzo(g,h,i)perylene	µg/kg dw	12 ^a	80	7.8	36	79	140	110	37	130	98	3,800	31	140	81
Benzo(k)fluoranthene	µg/kg dw	16 ^a	130	8.4	40	61	140	180	47	150	110	3,500	45	150	140
Benzofluoranthenes (total-calc'd) ^b	µg/kg dw	33	250	20	85	140	280	390	105	370	270	8,100	112	370	320
Benzoic acid	µg/kg dw	400 UJ	400 UJ	400 UJ	400 UJ	1,000 UJ	2,000 UJ	400 UJ ^a	390 UJ	2,000 UJ	990 UJ	2,000 UJ	400 UJ	2,000 UJ	1,000 UJ
Benzyl alcohol	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	23	99 U	50 U	100 U	20 U	100 U	50 U
bis(2-chloroethoxy)methane	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
bis(2-chloroethyl)ether	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
bis(2-chloroisopropyl)ether	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
Bis(2-ethylhexyl)phthalate	µg/kg dw	30 J	12 J	20 J	12 J	58 J	90 J	41 J ^a	55 J	230 J	160 J	2,500	24 J	100 J	100 J

Table A-9, cont.

ANALYTE	UNIT	C1-S	C2-S1	C2-S2	C3-S1	C3-S2	C4-S	C5-S	C6-S	C7-S1	C7-S2	C8-S	C9-S	C10-S1	C10-S2
Butyl benzyl phthalate	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	9.7 J ^a	7.0 J	99 U	50 U	220	20 U	100 U	50 U
Carbazole	µg/kg dw	20 U	66	20 U	4.3 J	50 U	82 J	21 J ^a	5.0 J	70 J	17 J	140	4.1 J	2,100	59
Chrysene	µg/kg dw	36 ^a	190	12	65	120	220	290	71	220	170	3,600	74	330	310
Dibenzo(a,h)anthracene	µg/kg dw	2.4 J ^a	21	1.6 J	7.0	18	27	28	7.5	26	20	1,500	7.7	37	20
Dibenzofuran	µg/kg dw	1.3 J ^a	17	1.6 J	1.7 J	3.3 J	4.5 J	21	4.8 J	5.3	4.7 J	87	2.8 J	6.7	7.7
Diethyl phthalate	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
Dimethyl phthalate	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	99 U	50 U	100 U	20 U	100 U	50 U
Di-n-butyl phthalate	µg/kg dw	7.2 J	20 U	20 U	20 U	50 U	100 U	29 J ^a	20 U	99 U	50 U	100 U	9.1 J	100 U	380
Di-n-octyl phthalate	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U ^a	20 U	32 J	34 J	160	20 U	100 U	30 J
Fluoranthene	µg/kg dw	39 ^a	460	18	95	130	190	440	97	270	200	5,500	100	450	340
Fluorene	µg/kg dw	2.3 J ^a	54	1.4 J	2.3 J	6.2	5.2	33	5.5	7.9	6.0	190	3.9 J	14	19
Hexachlorobenzene	µg/kg dw	1.0 U	0.99 U	0.98 U ^a	0.97 U	1.0 U	4.3	0.98 U	0.99 U ^a	0.99 U	1.0 U	1.1 U	0.80 J	1.3 U	1.3 J
Hexachlorobutadiene	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U	20 U ^a	99 U	50 U	100 U	20 U	100 U	50 U
Hexachlorocyclopentadiene	µg/kg dw	100 U	100 U	100 U	100 U	250 U	500 U	100 U	96 U ^a	500 U	250 U	500 U	100 U	500 U	250 U
Hexachloroethane	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U	20 U ^a	99 U	50 U	100 U	20 U	100 U	50 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	12 ^a	99	7.6	35	64	140	130	38	120	100	4,300	31	130	83
Isophorone	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U	20 U ^a	99 U	50 U	100 U	20 U	100 U	50 U
Naphthalene	µg/kg dw	3.8 J	8.7	4.6	5.2	5.2	27	13	6.7	7.1	4.2 J	44	4.1 J	6.3	5.8
Nitrobenzene	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U	20 U ^a	99 U	50 U	100 U	20 U	100 U	50 U
N-Nitrosodimethylamine	µg/kg dw	100 U	100 U	100 U	100 U	250 U	500 U	100 U	96 U ^a	500 U	250 U	500 U	100 U	500 U	250 U
N-Nitroso-di-n-propylamine	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U	20 U ^a	99 U	50 U	100 U	20 U	100 U	50 U
N-Nitrosodiphenylamine	µg/kg dw	20 U	20 U	20 U	20 U	50 U	100 U	20 U	20 U ^a	99 U	50 U	100 U	20 U	100 U	50 U
Pentachlorophenol	µg/kg dw	200 U	200 U	200 U	200 U	500 U	1,000 U	23 J	200 U ^a	990 U	500 U	1,000 U	200 U	1,000 U	500 U
Phenanthrene	µg/kg dw	18 ^a	460	7.9	25	63	43	230	36	69	78	2,200	48	200	170
Phenol	µg/kg dw	600	450	290	40 J	150 U	99 J	59 ^a	12 J ^a	300 U	14 J	47 J	87	1,900	1,400
Pyrene	µg/kg dw	38 ^a	420	23	110	130	260	390	87	310	180	5,300	85	440	270
Total HPAH (calc'd) ^b	µg/kg dw	204 J ^a	1,860	106 J	520	810	1,590	2,110	526	1,730	1,250	40,100	520	2,300	1,700
Total LPAH (calc'd) ^b	µg/kg dw	38 J ^a	650	19.9 J	59 J	106 J	158 J	390	75 J	153	124 J	3,700	75 J	310	270
Sediment grain size															
Fines (percent silt+clay)	% dw	23.3	46.0	24.6	12.9	18.0	11.06 ^a	5.46	18.8	7.38	7.41	24.3	6.94	18.9	14.2
Fractional % phi >-1 (>2,000 µm)	% dw	1.64	1.32	3.05	18.0	4.17	16.2 ^a	1.72	2.18	48.0	71.5	37.4	4.32	19.7	24.0
Fractional % phi 0-1 (500-1,000 µm)	% dw	9.50	6.47	3.26	14.2	10.7	14.2 ^a	12.3	11.2	10.5	7.16	4.91	25.0	10.4	11.1
Fractional % phi -1-0 (1,000-2,000 µm)	% dw	1.06	2.08	1.27	3.34	2.71	4.91 ^a	1.47	2.05	6.22	8.47	3.64	5.69	8.13	8.23
Fractional % phi 10+ (<0.98 µm)	% dw	1.79	3.34	1.71	1.04	1.42	1.52 ^a	1.02	1.77	0.81	0.54	1.40	0.91	1.99	1.58
Fractional % phi 1-2 (250-500 µm)	% dw	37.9	20.9	13.2	30.8	30.0	29.6 ^a	54.4	40.2	15.1	6.22	10.5	40.2	17.8	17.7

Table A-9, cont.

ANALYTE	UNIT	C1-S	C2-S1	C2-S2	C3-S1	C3-S2	C4-S	C5-S	C6-S	C7-S1	C7-S2	C8-S	C9-S	C10-S1	C10-S2
Fractional % phi 2-3 (125-250 µm)	% dw	19.0	14.2	31.0	16.1	16.9	20.6 ^a	22.4	19.4	3.70	3.71	12.8	13.7	18.8	15.6
Fractional % phi 3-4 (62.5-125 µm)	% dw	8.56	9.98	24.0	7.08	17.7	6.15 ^a	2.97	7.39	0.87	1.63	9.51	3.48	7.79	6.17
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	8.38	10.3	10.9	5.51	8.98	2.14 ^a	1.09	4.88	0.77	1.17	8.42	1.47	6.08	4.89
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	5.46	10.1	4.52	2.53	4.61	2.36 ^a	0.96	5.31	1.85	2.04	7.61	1.39	3.81	2.68
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	3.23	9.35	3.18	1.70	1.59	2.06 ^a	0.88	3.65	1.82	1.77	3.57	1.25	2.69	1.92
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	2.20	6.55	2.13	1.04	0.66	1.26 ^a	0.71	1.76	1.15	1.06	1.48	0.96	1.92	1.41
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	1.23	3.92	1.31	0.62	0.41	0.87 ^a	0.68	0.97	0.64	0.60	0.94	0.54	1.41	1.04
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	0.98	2.48	0.88	0.50	0.34	0.85 ^a	0.12	0.44	0.34	0.23	0.90	0.42	1.00	0.72
Rocks (total calc'd) ^c	% dw	1.64	1.32	3.05	18.0	4.17	16.2 ^a	1.72	2.18	48.0	71.5	37.4	4.32	19.7	24.0
Sand (total calc'd) ^c	% dw	76.0	53.6	72.7	71.5	78.0	75.5 ^a	93.5	80.2	36.4	27.2	41.4	88.1	62.9	58.8
Silt (total calc'd) ^c	% dw	19.3	36.3	20.7	10.8	15.8	7.82 ^a	3.64	15.6	5.59	6.04	21.1	5.07	14.5	10.9
Clay (total calc'd) ^c	% dw	4.00	9.74	3.90	2.16	2.17	3.24 ^a	1.82	3.18	1.79	1.37	3.24	1.87	4.40	3.34
Conventional parameters															
Total organic carbon (TOC)	% dw	0.47	1.82	1.06	0.93	1.31	1.40 ^a	0.32	1.24	1.55	0.78	2.11	0.56	1.63	2.27
Total solids	% ww	74.2	55.9	70.4	72.2	75.2	67.5 ^a	73.8 ^a	70.2	78.0	78.3	60.3	75.7	50.4	51.5

^a Laboratory replicate was run for sample. Value selected using averaging rules in Appendix B.

^b Totals were calculated following rules described in Appendix B

^c Total were calculated for each category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

dw – dry weight

ww – wet weight

Data qualifiers: U - not detected at reporting limit shown; J - estimated concentration; UJ - not detected at estimated reporting limit shown; R - rejected concentration

Table A-10. Concentrations of all analytes in sediment samples co-located with clam tissue samples from background areas

ANALYTE	UNIT	BI-C-S1	BI-C-S2	BI-C-S3	BI-C-S4	BI-C-S5	BI-C-S6	SP-C-S1	SP-C-S2	SP-C-S3	SP-C-S4	SP-C-S5	SP-C-S6
Arsenic	mg/kg dw	1.39	1.58	1.61	1.63	1.60	1.53	1.76	1.30 ^a	1.42	1.64	1.69	1.45
Total solids	% dw	74.6	72.4	74.1	73.2 ^a	73.8	75.0	84.0 ^a	77.2	79.5	75.9	76.0	80.1