APPENDIX H

PCB AND PAH SUMMATIONS

Memorandum

URS

To: Mike Gross, PE, U.S. Army Corps of Engineers, Portland District

From: Mike Powell, Laura McWilliams, and Chi-Wah Wong

Date: September 30, 2010

Subject: Modified Approach for Calculating Total Concentrations of PCBs and PAHs
Bradford Island Remedial Investigation
Cascade Locks, Oregon

Background

During negotiations with the Technical Advisory Group (TAG) in early 2010, the following conventions were developed for summing total concentrations of polychlorinated biphenyls (PCBs) and polycyclic aromatic hydrocarbons (PAHs) for use in the Bradford Island Remedial Investigation (RI) and risk assessments (RAs):

Total PCBs (as Congeners) – Total concentrations would be calculated using half of the reported detection limit (RDL) as a substitution value for the undetected congeners, and half of the reported value as a substitution value for the estimated maximum potential concentration (EMPC)-qualified data.

Total PCBs (as Aroclors) – Individual Aroclors which were never detected in a given media would be excluded from the sums. Aroclors that may be undetected in a certain sample but detected at least once in the remaining samples of a given media would be included in the sample-specific summations using half of the method detection limit (MDL) as a substitution value.

Total PAHs – Total concentrations would be calculated for low-molecular weight PAHs (LPAHs), high-molecular weight PAHs (HPAHs), and all PAHs (tPAHs). Individual PAHs never detected in a given media would be excluded from the sums. PAHs that may be undetected in a certain sample but detected at least once in the remaining samples of a given media would be included in the sample-specific summations using half of the MDL as a substitution value.

USACE Center of Expertise Recommendations

Upon review of the draft RI report by the USACE center of expertise, the reviewers recommended that, instead of the substitution method, the Kaplan-Meier method be used to calculate sums whenever possible. The substitution method (no matter what value – zero, the MDL, or half the MDL – is selected for the substitution) is not recommended by statisticians or the EPA (Helsel 1990, 2005b, 2005c, 2009; EPA 2006, 2010). Instead, the EPA currently recommends the Kaplan-Meier method with Efron's bias correction (EPA, 2010) which is generally applicable for summing data sets in which at least three of the components are detected. Use of the Kaplan-Meier method for calculating sums is

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also consistent with the fact that the Kaplan-Meier method is already used in the RI Report for calculating statistical parameters, including mean, standard deviation, and 95% UCL (upper confidence limit on the mean), for data sets with undetected results.

In order to comply with the recently updated Department of Defense Quality Systems Manual (DoD QSM) version 4.1 (DOD, 2009), the reviewers recommended that full method reporting limit (MRL) should be used for censoring undetected values and that the full reported value should be used for censoring EMPC-qualified data. The reviewers acknowledged that statisticians strongly recommend against insider censoring (e.g., Helsel, 2005a) in which undetected results are censored using MRL values, which are greater than the "J"-flagged detected data (which fall between the MDL and the MRL and are used at face value). However, the Kaplan-Meier method is non-parametric and the plotting position of survival function is based on the detected results; therefore, this method is relatively insensitive to the choice of censoring values. The reviewers recommended that the sums could be calculated twice, once using the MDLs and once using the MRLs for censoring non-detects, and the differences discussed in the uncertainty sections of the report.

Where the Kaplan-Meier method cannot be used, the reviewers recommended using the substitution method, substituting the full method reporting limit (MRL) for undetected compounds (in compliance with the DoD QSM; DOD, 2009). The reviewers agreed that individual compounds that were never detected in site media should be excluded from the sums for total PCBs as Aroclors.

Proposed Modifications to the RI Report

The Kaplan-Meier method is a non-parametric statistical method and does not require assumptions of normality (Kaplan and Meier, 1958). It is currently the recommended method used in EPA's ProUCL software for calculating the 95% UCL for data sets with one or more censored results (EPA 2009a, 2009b). In the application of summing a group of related compounds, the Kaplan-Meier mean is estimated from a set of data (consisting of detected and non-detected values) coming from a given sample, and this Kaplan-Meier mean is then multiplied by the number of compounds (mean × n) to compute the sum for the sample.

In the revised RI Report, the Kaplan-Meier method (as encoded in the ProUCL software) will be used to calculate total PCB and PAH concentrations, with the incorporation of the Efron's bias correction, in which the minimum result (if it is a censored value) is re-coded as a detected result (EPA, 2010). The Kaplan-Meier method is used whenever it is feasible with the ProUCL software (i.e., when there are five or more components to the sum and at least two detected results [three coded-detected results if Efron's bias correction is used]). To safeguard against a potential biased-high estimate of the KM mean, if the aforementioned summation method results in a total concentration greater than a simple summation of detected concentrations and full censoring concentrations

(MDL, MRL, RDL, or EMPC value) of the non-detected data, the simple sum will establish an upper bound of the total concentration.

Total PCBs (as Congeners) – Total concentrations would be calculated using the Kaplan-Meier method, censoring undetected data at the reported detection limit (RDL) and EMPC-qualified at the reported concentration. (Please note that although censoring using a MRL was suggested by the reviewers, the laboratory only provided RDL values.) The resulting total concentration will be capped by the simple sum of detected concentrations, EMPC-qualified concentrations, and RDLs for undetected congeners. This method is more statistically robust, as well as more conservative than calculating the sums by substitution of half of the RDL for undetected results and half of the reported value for EMPC-qualified data. However, it does not change the conclusions derived from the sums (i.e., comparison to screening level values).

For all samples used in the RI Report, the attached table compares the concentrations of total PCB (as congeners) computed in five different ways:

- Simple sum with undetected and EMPC-qualified data set to zero.
- Simple sum with undetected results set at one half the RDL and EMPC-qualified data at one half the reported value.
- Simple sum with undetected results set at the RDL and EMPC-qualified data at the reported value.
- Kaplan-Meier based sum.
- Kaplan-Meier based sum, capped at the simple sum with undetected results set at the RDL and EMPC-qualified data at the reported value

URS proposes that the final column (capped Kaplan-Meier method) be used in the RI Report and associated RAs.

Total PCBs (as Aroclors) – Since no more than two individual Aroclors were ever detected in a given sample, the Kaplan-Meier method cannot be used. Therefore, the substitution method will be used. Individual compounds that were never detected in a given media will be excluded from the sums. Two sums will be calculated for each sample. In the first sum, Aroclors that may be undetected in a certain sample but detected at least once in the remaining samples of a given media would be included in the sample-specific summations using the MDL as a substitution value. In the second sum, these Aroclors would be included using the MRL as a substitution value.

Total PAHs – Total concentrations will be calculated for low-molecular weight PAHs (LPAHs), high-molecular weight PAHs (HPAHs), and all PAHs (tPAHs). No individual PAHs will be excluded from the sums. The sums will be calculated twice: once using the MDL as the censoring value for non-detects, and once using the MRL as the censoring value for non-detects. Whenever a minimum of five component PAHs are included in

the sum, and at least two component PAHs are detected, the sum will be calculated using the Kaplan-Meier method, capped by the simple sum with undetected results set at the MDL (or MRL). When these requirements are not met, the sum will be calculated as the simple sum with undetected results set at the MDL (or MRL).

References

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Table 1. Comparison of Concentrations of Total PCBs (as Congeners) Calculated by Different Methods

Medium	Area	Station	Prep. Fraction	Units	No. of Congeners (Excl. coeluted congeners)	No. of Detected Congeners (Excl. NDs and EMPCs)	Percentage of Detected Congeners	Total PCBs (as Congeners)				
								Simple Sum (NDs=0 and EMPCs=0)	Simple Sum (NDs=half RDL and EMPCs=half value)	Simple Sum (NDs=RDL and EMPCs=full value)	Kaplan-Meier method, Efron's corrected	Kaplan-Meier method, Efron's corrected, capped
Sediment	Reference	P22	Total	ug/kg	159	109	69%	0.4116	0.4136	0.4156	0.4134	0.4134
Sediment	Reference	P24	Total	ug/kg	159	102	64%	0.4451	0.4478	0.4505	0.4484	0.4484
Sediment	Reference	P26	Total	ug/kg	159	109	69%	0.3589	0.3613	0.3638	0.3609	0.3609
Sediment	Reference	P27	Total	ug/kg	159	118	74%	0.9282	0.9324	0.9366	0.9317	0.9317
Sediment	Reference	P28	Total	ug/kg	159	107	67%	0.4556	0.4582	0.4609	0.4579	0.4579
Sediment	Reference	P29	Total	ug/kg	159	114	72%	0.5831	0.5851	0.5872	0.5851	0.5851
Sediment	Reference	P34	Total	ug/kg	159	128	81%	1.2017	1.2031	1.2046	1.2036	1.2036
Sediment	Reference	P35	Total	ug/kg	159	104	65%	0.4019	0.4051	0.4083	0.4055	0.4055
Sediment	Reference	P36	Total	ug/kg	159	102	64%	0.3987	0.4017	0.4048	0.4023	0.4023
Sediment	Reference	P37	Total	ug/kg	159	99	62%	0.3749	0.3792	0.3834	0.3784	0.3784
Sediment	Reference	P38	Total	ug/kg	159	110	69%	0.5886	0.5905	0.5924	0.5915	0.5915
Sediment	Reference	P39	Total	ug/kg	159	91	57%	0.2673	0.2719	0.2766	0.2719	0.2719
Sediment	Reference	P40	Total	ug/kg	159	101	64%	0.4385	0.4416	0.4447	0.4420	0.4420
Sediment	Reference	P41	Total	ug/kg	159	94	59%	0.2702	0.2743	0.2784	0.2735	0.2735
Sediment	Reference	P42	Total	ug/kg	159	73	46%	0.1558	0.1622	0.1686	0.1606	0.1606
Sediment	Reference	P85	Total	ug/kg	159	107	67%	0.6319	0.6348	0.6377	0.6344	0.6344
Sediment	Reference	P86	Total	ug/kg	159	96	60%	0.3216	0.3261	0.3305	0.3260	0.3260
Sediment	Reference	P87	Total	ug/kg	159	103	65%	0.4052	0.4089	0.4126	0.4086	0.4086
Sediment	Forebay	P04	Total	ug/kg	159	130	82%	29.7236	29.7355	29.7475	29.7330	29.7330
Sediment	Forebay	P05	Total	ug/kg	159	88	55%	0.2970	0.3014	0.3058	0.3005	0.3005
Sediment	Forebay	P06	Total	ug/kg	159	97	61%	0.7718	0.7781	0.7843	0.7775	0.7775
Sediment	Forebay	P07	Total	ug/kg	159	110	69%	1.6887	1.6924	1.6962	1.6854	1.6854
Sediment	Forebay	P08	Total	ug/kg	159	105	66%	1.0805	1.0845	1.0885	1.0844	1.0844
Sediment	Forebay	P09	Total	ug/kg	159	113	71%	2.0879	2.0929	2.0978	2.0988	2.0978
Sediment	Forebay	P10	Total	ug/kg	159	120	75%	1.2338	1.2370	1.2403	1.2370	1.2370
Sediment	Forebay	P11	Total	ug/kg	159	126	79%	1.1191	1.1223	1.1256	1.1210	1.1210
Sediment	Forebay	P13	Total	ug/kg	159	108	68%	0.6788	0.6873	0.6957	0.6837	0.6837
Sediment	Forebay	P14	Total	ug/kg	159	72	45%	0.1378	0.1466	0.1553	0.1435	0.1435
Sediment	Forebay	P15	Total	ug/kg	159	114	72%	0.9703	0.9746	0.9790	0.9731	0.9731
Sediment	Forebay	P16	Total	ug/kg	159	108	68%	0.8324	0.8374	0.8424	0.8363	0.8363
Sediment	Forebay	P17	Total	ug/kg	159	105	66%	0.5856	0.5895	0.5934	0.5883	0.5883
Sediment	Forebay	P18	Total	ug/kg	159	113	71%	0.5202	0.5220	0.5239	0.5231	0.5231
Sediment	Forebay	P21	Total	ug/kg	159	108	68%	0.5681	0.5715	0.5749	0.5708	0.5708
Sediment	Forebay	P65	Total	ug/kg	159	103	65%	0.3966	0.3993	0.4019	0.3991	0.3991
Sediment	Forebay	P67	Total	ug/kg	159	61	38%	0.0559	0.0614	0.0670	0.0611	0.0611
Sediment	Forebay	P88	Total	ug/kg	159	95	60%	0.2008	0.2033	0.2058	0.2035	0.2035
Sediment	Forebay	P89	Total	ug/kg	159	79	50%	0.1460	0.1536	0.1612	0.1510	0.1510
Sediment	Other	P110	Total	ug/kg	159	105	66%	1.1946	1.2052	1.2158	1.2005	1.2005
Sediment	Other	P111	Total	ug/kg	159	106	67%	1.3351	1.3455	1.3559	1.3404	1.3404
Sediment	Other	P46	Total	ug/kg	159	59	37%	0.0821	0.0905	0.0990	0.0880	0.0880
Sediment	Other	P47	Total	ug/kg	159	85	53%	0.2099	0.2154	0.2210	0.2147	0.2147
Sediment	Other	P48	Total	ug/kg	159	86	54%	0.1684	0.1746	0.1808	0.1733	0.1733
Sediment	Other	P49	Total	ug/kg	159	103	65%	0.4123	0.4210	0.4297	0.4182	0.4182
Sediment	Other	P50	Total	ug/kg	159	110	69%	0.9151	0.9191	0.9230	0.9174	0.9174
Sediment	Other	P51	Total	ug/kg	159	77	48%	0.2079	0.2157	0.2235	0.2131	0.2131
Clam	Reference	P22	Total	ug/kg	159	144	91%	30.9084	30.9116	30.9149	30.8460	30.8460
Clam	Reference	P24	Total	ug/kg	159	139	87%	28.2942	28.3235	28.3528	28.3020	28.3020
Clam	Reference	P26	Total	ug/kg	159	123	77%	31.5801	31.5897	31.5992	31.6410	31.5992
Clam	Reference	P27	Total	ug/kg	159	123	77%	32.9696	32.9783	32.9870	32.9130	32.9130
Clam	Reference	P28	Total	ug/kg	159	140	88%	31.3838	31.3931	31.4023	31.3230	31.3230
Clam	Reference	P29	Total	ug/kg	159	144	91%	29.7757	29.7812	29.7867	29.7330	29.7330
Clam	Reference	P34	Total	ug/kg	159	141	89%	30.3789	30.3846	30.3904	30.3690	30.3690
Clam	Reference	P35	Total	ug/kg	159	142	89%	34.4403	34.4457	34.4510	34.5030	34.4510
Clam	Reference	P36	Total	ug/kg	159	144	91%	33.6567	33.6640	33.6713	33.7080	33.6713
Clam	Reference	P37	Total	ug/kg	159	141	89%	30.1738	30.2054	30.2370	30.2100	30.2100
Clam	Reference	P38	Total	ug/kg	159	138	87%	28.6382	28.6609	28.6836	28.6200	28.6200
Clam	Reference	P39	Total	ug/kg	159	136	86%	34.3547	34.3822	34.4096	34.3440	34.3440
Clam	Reference	P40	Total	ug/kg	159	142	89%	32.9312	32.9550	32.9788	32.9130	32.9130
Clam	Reference	P41	Total	ug/kg	159	139	87%	32.7845	32.8239	32.8632	32.7540	32.7540
Clam	Reference	P42	Total	ug/kg	159	131	82%	29.7961	29.8198	29.8434	29.7330	29.7330
Clam	Reference	P85	Total	ug/kg	159	135	85%	30.7472	30.7784	30.8096	30.6870	30.6870
Clam	Reference	P86	Total	ug/kg	159	134	84%	26.9842	27.0119	27.0397	27.0300	27.0300
Clam	Reference	P87	Total	ug/kg	159	136	86%	26.7974	26.8375	26.8776	26.8710	26.8710
Clam	Forebay	P04	Total	ug/kg	159	141	89%	311.5719	311.5856	311.5994	311.6400	311.5994
Clam	Forebay	P05	Total	ug/kg	159	136	86%	65.7648	65.7838	65.8028	65.8260	65.8028
Clam	Forebay	P06	Total	ug/kg	159	137	86%	95.0478	95.0562	95.0645	95.0820	95.0645
Clam	Forebay	P07	Total	ug/kg	159	138	87%	65.6834	65.6892	65.6949	65.6670	65.6670
Clam	Forebay	P08	Total	ug/kg	159	140	88%	51.5058	51.5112	51.5165	51.5160	51.5160
Clam	Forebay	P10	Total	ug/kg	159	138	87%	30.6211	30.6256	30.6302	30.6870	30.6302
Clam	Forebay	P11	Total	ug/kg	159	137	86%	26.7326	26.7378	26.7430	26.7120	26.7120
Clam	Forebay	P13	Total	ug/kg	159	140	88%	33.1352	33.1625	33.1897	33.0720	33.0720
Clam	Forebay	P14	Total	ug/kg	159	137	86%	33.9755	33.9859	33.9962	34.0260	33.9962
Clam	Forebay	P15	Total	ug/kg	159	137	86%	26.8951	26.9008	26.9065	26.8710	26.8710
Clam	Forebay	P16	Total	ug/kg	159	134	84%	25.5247	25.5304	25.5360	25.5990	25.5360
Clam	Forebay	P17	Total	ug/kg	159	139	87%	24.4511	24.4563	24.4616	24.4860	24.4616
Clam	Forebay	P18	Total	ug/kg	159	142	89%	25.9071	25.9117	25.9162	25.9170	25.9162
Clam	Forebay	P21	Total	ug/kg	159	138	87%	24.6565	24.6616	24.6668	24.6450	24.6450
Clam	Forebay	P65	Total	ug/kg	159	141	89%	33.1260	33.1315	33.1369	33.0720	33.0720
Clam	Forebay	P88	Total	ug/kg	159	139	87%	33.2737	33.3114	33.3491	33.2310	33.2310
Clam	Forebay	P89	Total	ug/kg	159	135	85%	31.6524	31.6631	31.6739	31.6410	31.6410
Clam	Other	P110	Total	ug/kg	159	136	86%	21.4316	21.4404	21.4493	21.4650	21.4493
Crayfish	Reference	P100-CF	Total	ug/kg	159	90	57%	0.9414	0.9495	0.9576	0.9461	0.9461
Crayfish	Reference	P22-CF	Total	ug/kg	159	54	34%	0.3581	0.3746	0.3910	0.3657	0.3657
Crayfish	Reference	P33-CF	Total	ug/kg	159	89	56%	0.6280	0.6377	0.6474	0.6344	0.6344
Crayfish	Reference	P38/42-CF	Total	ug/kg	159	95	60%	0.7127	0.7208	0.7289	0.7187	0.7187
Crayfish	Reference	P72-CF	Total	ug/kg	159	83	52%	0.6870	0.6966	0.7061	0.6917	0.6917
Crayfish	Reference	P73-CF	Total	ug/kg	159	86	54%	0.7288	0.7375	0.7461	0.7346	0.7346
Crayfish	Reference	P74-CF	Total	ug/kg	159	88	55%	0.7699	0.7763	0.7826	0.7743	0.7743
Crayfish	Reference	P75-CF	Total	ug/kg	159	76	48%	0.9428	0.9635	0.9841	0.9524	0.9524
Crayfish	Reference	P76-CF	Total	ug/kg	159	79	50%	0.4509	0.4602	0.4695	0.4563	0.4563
Crayfish	Reference	P78-CF	Total	ug/kg	159	86	54%	0.4903	0.5001	0.5100	0.4961	0.4961
Crayfish	Reference	P79-CF	Total	ug/kg	159	92	58%	0.8716	0.8802	0.8888	0.8761	0.8761
Crayfish	Reference	P82-CF	Total	ug/kg	159	91	57%	1.9386	1.9470	1.9554	1.9398	1.9398
Crayfish	Reference	P90-CF	Total	ug/kg	159	74	47%	1.1117	1.1234	1.1351	1.1178	1.1178
Crayfish	Reference	P91-CF	Total	ug/kg	159	88	55%	1.0105	1.0189	1.0274	1.0160	1.0160
Crayfish	Reference	P92-CF	Total	ug/kg	159	49	31%	0.4780	0.5031	0.5282	0.4977	0.4977
Crayfish	Reference	P94-CF	Total	ug/kg	159	79	50%	0.6428	0.6540	0.6653	0.6503	0.6503
Crayfish	Reference	P98-CF	Total	ug/kg	159	80	50%	0.6038	0.6121	0.6204	0.6090	0.6090
Crayfish	Forebay	P01-CF	Total	ug/kg	159	83	52%	1.4370	1.4500	1.4630	1.4421	1.4421
Crayfish	Forebay	P04-CF	Total	ug/kg	159	100	63%	16.8132	16.8268	16.8404	16.8540	16.8404
Crayfish	Forebay	P05-CF	Total	ug/kg	159	106	67%	16.8786	16.8903	16.9019	16.8540	16.8540
Crayfish	Forebay	P06-CF	Total	ug/kg	159	100	63%	42.6168	42.6752	42.7335	42.6120	42.6120
Crayfish	Forebay	P07-CF	Total	ug/kg	159	86	54%	12.4228	12.4470	12.4712	12.4338	12.4338
Crayfish	Forebay	P08-CF	Total	ug/kg	159	80	50%	3.1129	3.1255	3.1381	3.1164	3.1164
Crayfish	Forebay	P13-CF	Total	ug/kg	159	72	45%	0.5853	0.5983	0.6114	0.5915	0.5915

Crayfish	Forebay	P14-CF	Total	ug/kg	159	69	43%	0.8179	0.8318	0.8457	0.8252	0.8252
Crayfish	Forebay	P15-CF	Total	ug/kg	159	82	52%	0.8096	0.8205	0.8314	0.8157	0.8157
Crayfish	Forebay	P16-CF	Total	ug/kg	159	78	49%	1.3270	1.3438	1.3607	1.3356	1.3356
Crayfish	Forebay	P17-CF	Total	ug/kg	159	74	47%	0.5291	0.5420	0.5549	0.5358	0.5358
Crayfish	Forebay	P18-CF	Total	ug/kg	159	79	50%	1.1124	1.1219	1.1315	1.1178	1.1178
Crayfish	Forebay	P19-CF	Total	ug/kg	159	65	41%	0.7585	0.7753	0.7922	0.7664	0.7664
Crayfish	Forebay	P20-CF	Total	ug/kg	159	75	47%	0.9049	0.9204	0.9359	0.9111	0.9111
Crayfish	Forebay	P21-CF	Total	ug/kg	159	81	51%	0.9597	0.9750	0.9903	0.9667	0.9667
Crayfish	Other	P110	Total	ug/kg	159	74	47%	0.5785	0.5961	0.6138	0.5867	0.5867
Largescale Sucker	Forebay	COMP	Total	ug/kg	159	144	91%	200.9127	200.9290	200.9454	200.9760	200.9454
Sculpin	Reference	SR-01	Total	ug/kg	159	126	79%	16.8023	16.8121	16.8220	16.8540	16.8220
Sculpin	Reference	SR-02	Total	ug/kg	159	122	77%	21.9892	22.0006	22.0120	21.9420	21.9420
Sculpin	Reference	SR-03	Total	ug/kg	159	116	73%	37.5176	37.5320	37.5464	37.5240	37.5240
Sculpin	Reference	SR-04	Total	ug/kg	159	124	78%	15.9040	15.9134	15.9229	15.9000	15.9000
Sculpin	Reference	SR-05	Total	ug/kg	159	131	82%	38.3594	38.3772	38.3950	38.3190	38.3190
Sculpin	Reference	SR-06	Total	ug/kg	159	116	73%	12.2426	12.2569	12.2712	12.2430	12.2430
Sculpin	Reference	SR-07	Total	ug/kg	159	130	82%	19.2796	19.2901	19.3006	19.2390	19.2390
Sculpin	Reference	SR-08	Total	ug/kg	159	121	76%	18.1615	18.1723	18.1832	18.1260	18.1260
Sculpin	Reference	SR-09	Total	ug/kg	159	127	80%	18.5073	18.5180	18.5287	18.4440	18.4440
Sculpin	Reference	SR-10	Total	ug/kg	159	121	76%	23.9278	23.9495	23.9712	24.0090	23.9712
Sculpin	Reference	SR-11	Total	ug/kg	159	127	80%	32.4198	32.4295	32.4391	32.4360	32.4360
Sculpin	Reference	SR-12	Total	ug/kg	159	124	78%	27.5318	27.5436	27.5555	27.5070	27.5070
Sculpin	Reference	SR-13	Total	ug/kg	159	124	78%	31.4036	31.4288	31.4541	31.4820	31.4541
Sculpin	Reference	SR-14	Total	ug/kg	159	116	73%	22.2700	22.3073	22.3446	22.2600	22.2600
Sculpin	Reference	SR-15	Total	ug/kg	159	114	72%	27.1501	27.1789	27.2077	27.1890	27.1890
Sculpin	Reference	SR-16	Total	ug/kg	159	112	70%	17.3192	17.3592	17.3992	17.3310	17.3310
Sculpin	Reference	SR-17	Total	ug/kg	159	119	75%	30.5089	30.5330	30.5571	30.5280	30.5280
Sculpin	Reference	SR-18	Total	ug/kg	159	115	72%	24.2010	24.2384	24.2758	24.1680	24.1680
Sculpin	Forebay	SF-01	Total	ug/kg	159	121	76%	14.9477	14.9579	14.9681	14.9460	14.9460
Sculpin	Forebay	SF-02	Total	ug/kg	159	124	78%	48.8494	48.8617	48.8740	48.8130	48.8130
Sculpin	Forebay	SF-03	Total	ug/kg	159	90	57%	4770.5365	4777.1656	4783.7947	4773.1800	4773.1800
Sculpin	Forebay	SF-04	Total	ug/kg	159	135	85%	914.9107	914.9568	915.0028	914.8860	914.8860
Sculpin	Forebay	SF-05	Total	ug/kg	159	136	86%	558.8605	558.9068	558.9531	558.8850	558.8850
Sculpin	Forebay	SF-06	Total	ug/kg	159	133	84%	141.1439	141.1665	141.1891	141.1920	141.1891
Sculpin	Forebay	SF-07	Total	ug/kg	159	133	84%	22.9315	22.9377	22.9439	22.8960	22.8960
Sculpin	Forebay	SF-08	Total	ug/kg	159	131	82%	26.1371	26.1439	26.1507	26.0760	26.0760
Sculpin	Forebay	SF-09	Total	ug/kg	159	123	77%	12.2765	12.2835	12.2905	12.2748	12.2748
Sculpin	Forebay	SF-10	Total	ug/kg	159	130	82%	23.0658	23.0725	23.0793	23.0550	23.0550
Sculpin	Forebay	SF-11	Total	ug/kg	159	124	78%	24.1122	24.1225	24.1329	24.1680	24.1329
Sculpin	Forebay	SF-12	Total	ug/kg	159	128	81%	39.6412	39.6596	39.6779	39.5910	39.5910
Sculpin	Forebay	SF-13	Total	ug/kg	159	117	74%	9.8654	9.8839	9.9025	9.8739	9.8739
Sculpin	Forebay	SF-14	Total	ug/kg	159	127	80%	35.3683	35.3792	35.3901	35.2980	35.2980
Sculpin	Forebay	SF-15	Total	ug/kg	159	108	68%	19.4409	19.5325	19.6240	19.3980	19.3980
Sculpin	Forebay	SF-16	Total	ug/kg	159	128	81%	35.5799	35.5899	35.5999	35.6160	35.5999
Sculpin	Forebay	SF-17	Total	ug/kg	159	125	79%	40.6241	40.6405	40.6570	40.7040	40.6570
Sculpin	Other	P110	Total	ug/kg	159	112	70%	8.1340	8.1510	8.1680	8.1408	8.1408
Smallmouth Bass	Reference	R01	Total	ug/kg	159	106	67%	47.7134	47.8705	48.0277	47.8590	47.8590
Smallmouth Bass	Reference	R02	Total	ug/kg	159	112	70%	41.7646	41.9358	42.1071	41.8170	41.8170
Smallmouth Bass	Reference	R03	Total	ug/kg	159	96	60%	44.6252	44.8868	45.1484	44.6790	44.6790
Smallmouth Bass	Reference	R04	Total	ug/kg	159	95	60%	22.0679	22.2896	22.5113	22.1010	22.1010
Smallmouth Bass	Reference	R05	Total	ug/kg	159	118	74%	163.5171	163.8233	164.1295	163.6110	163.6110
Smallmouth Bass	Reference	R06	Total	ug/kg	159	100	63%	44.2532	44.6093	44.9655	44.3610	44.3610
Smallmouth Bass	Reference	R07	Total	ug/kg	159	98	62%	41.5362	41.7459	41.9557	41.6580	41.6580
Smallmouth Bass	Reference	R10	Total	ug/kg	159	140	88%	117.0512	117.0581	117.0650	117.0240	117.0240
Smallmouth Bass	Reference	R11	Total	ug/kg	159	138	87%	35.7970	35.8007	35.8043	35.7750	35.7750
Smallmouth Bass	Reference	R12	Total	ug/kg	159	134	84%	39.7672	39.7718	39.7765	39.7500	39.7500
Smallmouth Bass	Reference	R13	Total	ug/kg	159	143	90%	69.0534	69.0565	69.0595	69.0060	69.0060
Smallmouth Bass	Reference	R14	Total	ug/kg	159	136	86%	50.1909	50.1949	50.1989	50.2440	50.1989
Smallmouth Bass	Reference	R15	Total	ug/kg	159	137	86%	43.1015	43.1060	43.1105	43.0890	43.0890
Smallmouth Bass	Reference	R16	Total	ug/kg	159	137	86%	498.8557	498.8649	498.8741	498.7830	498.7830
Smallmouth Bass	Reference	R17	Total	ug/kg	159	141	89%	44.2266	44.2303	44.2340	44.2020	44.2020
Smallmouth Bass	Reference	R18	Total	ug/kg	159	135	85%	60.5882	60.6034	60.6185	60.5790	60.5790
Smallmouth Bass	Reference	R19	Total	ug/kg	159	134	84%	77.8704	77.8783	77.8862	77.9100	77.8862
Smallmouth Bass	Reference	R20	Total	ug/kg	159	131	82%	52.9297	52.9442	52.9588	52.9470	52.9470
Smallmouth Bass	Reference	R21	Total	ug/kg	159	131	82%	52.8095	52.8196	52.8297	52.7880	52.7880
Smallmouth Bass	Forebay	100	Total	ug/kg	159	137	86%	33.7364	33.7395	33.7427	33.7080	33.7080
Smallmouth Bass	Forebay	101	Total	ug/kg	159	146	92%	1440.1098	1440.1202	1440.1306	1440.0630	1440.0630
Smallmouth Bass	Forebay	102	Total	ug/kg	159	131	82%	325.1847	325.2013	325.2180	325.1550	325.1550
Smallmouth Bass	Forebay	103	Total	ug/kg	159	139	87%	1305.4760	1305.4941	1305.5122	1305.5490	1305.5122
Smallmouth Bass	Forebay	104	Total	ug/kg	159	145	91%	32.1574	32.1638	32.1701	32.1180	32.1180
Smallmouth Bass	Forebay	200	Total	ug/kg	159	142	89%	879.1798	879.1880	879.1962	879.1110	879.1110
Smallmouth Bass	Forebay	201	Total	ug/kg	159	142	89%	96.6697	96.6741	96.6784	96.6720	96.6720
Smallmouth Bass	Forebay	202	Total	ug/kg	159	141	89%	42.0157	42.0183	42.0209	41.9760	41.9760
Smallmouth Bass	Forebay	203	Total	ug/kg	159	144	91%	137.0552	137.0602	137.0653	137.0580	137.0580
Smallmouth Bass	Forebay	204	Total	ug/kg	159	143	90%	59.3803	59.3837	59.3872	59.3070	59.3070
Smallmouth Bass	Forebay	205	Total	ug/kg	159	144	91%	1733.6659	1733.6791	1733.6922	1733.1000	1733.1000
Smallmouth Bass	Forebay	207	Total	ug/kg	159	142	89%	69.7090	69.7128	69.7167	69.6420	69.6420
Smallmouth Bass	Forebay	208	Total	ug/kg	159	139	87%	148.8190	148.8257	148.8324	148.8240	148.8240
Smallmouth Bass	Forebay	209	Total	ug/kg	159	140	88%	19309.3807	19309.7193	19310.0579	19302.6000	19302.6000
Smallmouth Bass	Forebay	210	Total	ug/kg	159	145	91%	54.7992	54.8091	54.8191	54.8550	54.8191
Smallmouth Bass	Forebay	402	Total	ug/kg	159	147	92%	1192.7822	1192.8669	1192.9516	1192.8180	1192.8180
Smallmouth Bass	Forebay	403	Total	ug/kg	159	142	89%	26504.4301	26507.4819	26510.5336	26505.3000	26505.3000
Smallmouth Bass	Forebay	405	Total	ug/kg	159	142	89%	2482.1407	2482.2499	2482.3591	2481.9900	2481.9900
Smallmouth Bass	Forebay	406	Total	ug/kg	159	140	88%	40.7778	40.7861	40.7944	40.7040	40.7040
Surface Water	Reference	P57	Column	ug/L	159	79	50%	1.5341E-04	1.5392E-04	1.5444E-04	1.5363E-04	1.5363E-04
Surface Water	Reference	P57	Filter	ug/L	159	71	45%	2.4036E-05	2.4762E-05	2.5487E-05	2.4251E-05	2.4251E-05
Surface Water	Reference	P58	Column	ug/L	159	98	62%	1.0922E-04	1.0941E-04	1.0960E-04	1.0931E-04	1.0931E-04
Surface Water	Reference	P58	Filter	ug/L	159	78	49%	2.0978E-05	2.1527E-05	2.2077E-05	2.1150E-05	2.1150E-05
Surface Water	Reference	P59	Column	ug/L	159	78	49%	1.4923E-04	1.4968E-04	1.5013E-04	1.4938E-04	1.4938E-04
Surface Water	Reference	P59	Filter	ug/L	159	71	45%	2.2544E-05	2.3246E-05	2.3947E-05	2.2751E-05	2.2751E-05
Surface Water	Reference	P60	Column	ug/L	159	86	54%	1.4540E-04	1.4606E-04	1.4672E-04	1.4557E-04	1.4557E-04
Surface Water	Reference	P60	Filter	ug/L	159	82	52%	2.6497E-05	2.7069E-05	2.7640E-05	2.6698E-05	2.6698E-05
Surface Water	Reference	P61	Column	ug/L	159	90	57%	1.2263E-04	1.2288E-04	1.2312E-04	1.2273E-04	1.2273E-04
Surface Water	Reference	P61	Filter	ug/L	159	85	53%	2.5442E-05	2.5892E-05	2.6340E-05	2.5599E-05	2.5599E-05
Surface Water	Forebay	P52	Column	ug/L	159	71	45%	9.7480E-05	9.8263E-05	9.9044E-05	9.7709E-05	9.7709E-05
Surface Water	Forebay	P52	Filter	ug/L	159	70	44%	1.4492E-05	1.5376E-05	1.6260E-05	1.4750E-05	1.4750E-05
Surface Water	Forebay	P53	Column	ug/L	159	83	52%	1.5308E-04	1.5364E-04	1.5419E-04	1.5326E-04	1.5326E-04
Surface Water	Forebay	P53	Filter	ug/L	159	106	67%	5.5479E-05	5.5946E-05	5.6412E-05	5.5671E-05	5.5671E-05
Surface Water	Forebay	P54	Column	ug/L	159	73	46%	9.5450E-05	9.6191E-05	9.6932E-05	9.5656E-05	9.5656E-05
Surface Water	Forebay	P54	Filter	ug/L	159	103	65%	6.0943E-05	6.1530E-05	6.2116E-05	6.1161E-05	6.1161E-05
Surface Water	Forebay	P55	Column	ug/L	159	90	57%	1.5427E-04	1.5486E-04	1.5546E-04	1.5446E-04	1.5446E-04
Surface Water	Forebay	P55	Filter	ug/L	159	74	47%	2.2402E-05	2.3150E-05	2.3899E-05	2.2619E-05	2.2619E-05
Surface Water	Forebay	P56	Column	ug/L	159	63	40%	1.3763E-04	1.3870E-04	1.3977E-04	1.3790E-04	1.3790E-04
Surface Water	Forebay	P56	Filter	ug/L	159	88	55%	2.6282E-05	2.6730E-05	2.7178E-05	2.6439E-05	2.6439E-05

Notes:
EMPC = data flagged as estimated maximum potential concentration
ND = non-detect results
RDL = reported detection limit
ug/kg = micrograms per kilogram
ug/L = micrograms per liter

Table H-1
Landfill AOPC Soil (0-3 ft bgs) PAH Analysis Results
(Page 1 of 4)

Site ID	BIL01SSI		BIL02SSI		BIL03SSI		BIL04SSI		BIL05SSI		BIL06SSI		BIL09SSI		BIL10SSI		BIL11SSI	
Sample ID	990920BIL01SS		990920BIL02SS		990920BIL03SS		990920BIL04SS		990920BIL05SS		990920BIL06SS		990920BIL09SS		990920BIL10SS		990921BIL11SS	
Sample Date	9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/21/1999	
Sample Depth (feet bgs)	0-0.33		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																		
2-Methylnaphthalene	180 U	180 U	170 U	170 U	180 U	180 U	**57.0 J**	**57.0 J**	180 U	180 U	**76.0 J**	**76.0 J**	180 U	180 U	180 U	180 U	190 U	190 U
Acenaphthene	180 U	180 U	**42.0 J**	**42.0 J**	**53.0 J**	**53.0 J**	**2,600 J**	**2,600 J**	**500**	**500**	**171 J**	**171 J**	180 U	180 U	180 U	180 U	**140 J**	**140 J**
Acenaphthylene	180 U	180 U	170 U	170 U	180 U	180 U	**74.0 J**	**74.0 J**	180 U	180 U	**22.0 J**	**22.0 J**	180 U	180 U	180 U	180 U	190 U	190 U
Anthracene	**12.0 J**	**12.0 J**	**18.0 J**	**18.0 J**	**110 J**	**110 J**	**2,700**	**2,700**	**460**	**460**	**176 J**	**176 J**	180 U	180 U	180 U	180 U	**100 J**	**100 J**
Fluorene	180 U	180 U	170 U	170 U	**47.0 J**	**47.0 J**	**1,200**	**1,200**	**170 J**	**170 J**	**145 J**	**145 J**	180 U	180 U	180 U	180 U	**67.0 J**	**67.0 J**
Naphthalene	180 U	180 U	170 U	170 U	180 U	180 U	**100 J**	**100 J**	**19.0 J**	**19.0 J**	**360**	**360**	180 U	180 U	180 U	180 U	190 U	190 U
Phenanthrene	**39.0 J**	**39.0 J**	**68.0 J**	**68.0 J**	**300**	**300**	**12,000**	**12,000**	**1,900**	**1,900**	**1,230**	**1,230**	**40.0 J**	**40.0 J**	**36.0 J**	**36.0 J**	**370**	**370**
Total LPAHs (full MDL/MRL)	**771 J**	**771 J**	**638 J**	**638 J**	**870 J**	**870 J**	**18,674 J**	**18,674 J**	**3,229 J**	**3,229 J**	**2,105 J**	**2,105 J**	**940 J**	**940 J**	**936 J**	**936 J**	**1,057 J**	**1,057 J**
Total LPAHs (KM)	**153 J**	**153 J**	**256 J**	**256 J**	**650 J**	**650 J**	**18,672 J**	**18,672 J**	**3,143 J**	**3,143 J**	**2,105 J**	**2,105 J**	-	-	-	-	**881 J**	**881 J**
Total LPAHs (KM, capped)	**153 J**	**153 J**	**256.02 J**	**256.02 J**	**650 J**	**650 J**	**18,674 J**	**18,674 J**	**3,143 J**	**3,143 J**	**2,105 J**	**2,105 J**	**940 J**	**940 J**	**936 J**	**936 J**	**881 J**	**881 J**
HPAHs																		
Benzo(a)anthracene	**98.0 J**	**98.0 J**	**130 J**	**130 J**	**1,600**	**1,600**	**32,000**	**32,000**	**2,200**	**2,200**	**1,400 J**	**1,400 J**	**82.0 J**	**82.0 J**	**60.0 J**	**60.0 J**	**400**	**400**
Benzo(a)pyrene	**140 J**	**140 J**	**160 J**	**160 J**	**1,800**	**1,800**	**33,000**	**33,000**	**2,200**	**2,200**	**1,400 J**	**1,400 J**	**100 J**	**100 J**	**70.0 J**	**70.0 J**	**420**	**420**
Benzo(b)fluoranthene	**110 J**	**110 J**	**170 J**	**170 J**	**2,000**	**2,000**	**65,000**	**65,000**	**340 J**	**340 J**	**2,350**	**2,350**	**82.0 J**	**82.0 J**	**58.0 J**	**58.0 J**	**66.0 J**	**66.0 J**
Benzo(g,h,i)perylene	**71.0 J**	**71.0 J**	**150 J**	**150 J**	**790**	**790**	**18,000**	**18,000**	**1,800**	**1,800**	**1,250 J**	**1,250 J**	**82.0 J**	**82.0 J**	**51.0 J**	**51.0 J**	**290**	**290**
Benzo(k)fluoranthene	**110 J**	**110 J**	**100 J**	**100 J**	**1,000**	**1,000**	**65,000**	**65,000**	**340 J**	**340 J**	**2,350**	**2,350**	**89.0 J**	**89.0 J**	**64.0 J**	**64.0 J**	**66.0 J**	**66.0 J**
Benzofluoranthenes, Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	**120 J**	**120 J**	**160 J**	**160 J**	**1,600**	**1,600**	**32,000**	**32,000**	**1,700**	**1,700**	**1,650 J**	**1,650 J**	**100 J**	**100 J**	**79.0 J**	**79.0 J**	**420**	**420**
Dibenz(a,h)anthracene	**37.0 J**	**37.0 J**	170 U	170 U	**450**	**450**	**9,900**	**9,900**	**540 J**	**540 J**	1,800 U	1,800 U	**32.0 J**	**32.0 J**	**24.0 J**	**24.0 J**	**150 J**	**150 J**
Fluoranthene	**130 J**	**130 J**	**160 J**	**160 J**	**1,600**	**1,600**	**54,000**	**54,000**	**3,300**	**3,300**	**795**	**795**	**120 J**	**120 J**	**88.0 J**	**88.0 J**	**700**	**700**
Indeno(1,2,3-cd)pyrene	**73.0 J**	**73.0 J**	**130 J**	**130 J**	**820**	**820**	**19,000**	**19,000**	**1,700**	**1,700**	**1,180 J**	**1,180 J**	**74.0 J**	**74.0 J**	**48.0 J**	**48.0 J**	**300**	**300**
Pyrene	**160 J**	**160 J**	**210**	**210**	**1,400**	**1,400**	**40,000**	**40,000**	**3,200**	**3,200**	**2,500 J**	**2,500 J**	**130 J**	**130 J**	**98.0 J**	**98.0 J**	**640**	**640**
Total HPAHs (full MDL/MRL)	**1,049 J**	**1,049 J**	**1,540 J**	**1,540 J**	**13,060**	**13,060**	**367,900**	**367,900**	**17,320 J**	**17,320 J**	**16,670 J**	**16,670 J**	**891 J**	**891 J**	**640 J**	**640 J**	**3,452 J**	**3,452 J**
Total HPAHs (KM)	**1,049 J**	**1,049 J**	**1,511 J**	**1,511 J**	**13,060**	**13,060**	**367,900**	**367,900**	**17,320 J**	**17,320 J**	**16,150 J**	**16,150 J**	**891 J**	**891 J**	**640 J**	**640 J**	**3,452 J**	**3,452 J**
Total HPAHs (KM-capped)	**1,049 J**	**1,049 J**	**1,511 J**	**1,511 J**	**13,060**	**13,060**	**367,900**	**367,900**	**17,320 J**	**17,320 J**	**16,150 J**	**16,150 J**	**891 J**	**891 J**	**640 J**	**640 J**	**3,452 J**	**3,452 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
- = Not Analyzed

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-1
Landfill AOPC Soil (0-3 ft bgs) PAH Analysis Results
(Page 2 of 4)

Site ID	BIL12SSI		BIL13SSI*		BIL17		BIL18		BIL22*		BIL28TPM		BIL29TPM		BIL01USE		BIL02USE	
Sample ID	990921BIL12SS		000413BIL13SS		011016BIL17SS		011016BIL18SS		011016BIL22SS		011017BIL28TPM		011017BIL29TPM		070410BIL01SS		070410BIL02SS	
Sample Date	9/21/1999		4/13/2000		10/16/2001		10/16/2001		10/16/2001		10/17/2001		10/17/2001		4/10/2007		4/10/2007	
Sample Depth (feet bgs)	0-0.5		0-0.5		1		2		3		0-10		0-10		0.5		0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																		
2-Methylnaphthalene	180 U	180 U	49.8 U	49.8 U	**37.5**	**37.5**	**43.4**	**43.4**	2.22 U	14.2 U	**1,530**	**1,530**	**625**	**625**	20.0 U	20.0 U	20.0 U	20.0 U
Acenaphthene	180 U	180 U	49.8 U	49.8 U	**323**	**323**	**2,530**	**2,530**	**576**	**576**	83.3 U	168 U	**168**	**168**	**16.0 J**	**16.0 J**	**23.0**	**23.0**
Acenaphthylene	180 U	180 U	49.8 U	49.8 U	**78.1**	**78.1**	**111**	**111**	**51.4**	**51.4**	73.4 U	168 U	66.4 U	152 U	20.0 U	20.0 U	20.0 U	20.0 U
Anthracene	180 U	180 U	49.8 U	49.8 U	**773**	**773**	**8,440**	**8,440**	**1,780**	**1,780**	**1,750**	**1,750**	**503**	**503**	**35.0**	**35.0**	**65.0**	**65.0**
Fluorene	180 U	180 U	49.8 U	49.8 U	**244**	**244**	**1,610**	**1,610**	**370**	**370**	78.6 U	168 U	71.1 U	152 U	20.0 U	20.0 U	**12.0 J**	**12.0 J**
Naphthalene	180 U	180 U	49.8 U	49.8 U	**78.1**	**78.1**	**176**	**176**	**47.8**	**47.8**	**791**	**791**	**823**	**823**	20.0 U	20.0 U	20.0 U	20.0 U
Phenanthrene	**13.0 J**	**13.0 J**	49.8 U	49.8 U	**2,910**	**2,910**	**21,900**	**21,900**	**4,700**	**4,700**	**5,020**	**5,020**	**1,480**	**1,480**	**180**	**180**	**300**	**300**
Total LPAHs (full MDL/MRL)	**913 J**	**913 J**	299 U	299 U	**4,406**	**4,406**	**34,767**	**34,767**	**7,531 J**	**7,531 J**	**7,796 J**	**8,065 J**	**3,112 J**	**3,278 J**	**291 J**	**291 J**	**440 J**	**440 J**
Total LPAHs (KM)	-	-	-	-	**4,406**	**4,406**	**34,770**	**34,770**	**7,530 J**	**7,530 J**	**7,782 J**	**8,064 J**	**3,107 J**	**3,278 J**	**279 J**	**279 J**	**424 J**	**424 J**
Total LPAHs (KM, capped)	**913 J**	**913 J**	299 U	299 U	**4,406**	**4,406**	**34,767**	**34,767**	**7,531 J**	**7,531 J**	**7,782 J**	**8,064 J**	**3,107 J**	**3,278 J**	**279 J**	**279 J**	**424 J**	**424 J**
HPAHs																		
Benzo(a)anthracene	**29.0 J**	**29.0 J**	49.8 U	49.8 U	**9,620**	**9,620**	**28,200**	**28,200**	**9,420**	**9,420**	**9,780**	**9,780**	92.9 U	305 U	**530**	**530**	**960**	**960**
Benzo(a)pyrene	**28.0 J**	**28.0 J**	49.8 U	49.8 U	**10,500**	**10,500**	**34,000**	**34,000**	**7,700**	**7,700**	**7,100**	**7,100**	35.5 U	152 U	**600**	**600**	**1,200**	**1,200**
Benzo(b)fluoranthene	**34.0 J**	**34.0 J**	49.8 U	49.8 U	-	-	-	-	-	-	-	-	-	-	**680**	**680**	**1,200**	**1,200**
Benzo(g,h,i)perylene	**20.0 J**	**20.0 J**	49.8 U	49.8 U	**6,150**	**6,150**	**17,000**	**17,000**	**3,020**	**3,020**	27.8 U	168 U	25.1 U	152 U	**280**	**280**	**530**	**530**
Benzo(k)fluoranthene	**40.0 J**	**40.0 J**	49.8 U	49.8 U	-	-	-	-	-	-	-	-	-	-	**450**	**450**	**1,100**	**1,100**
Benzofluoranthenes, Total	-	-	-	-	**14,700**	**14,700**	**31,300**	**31,300**	**8,490**	**8,490**	**5,100**	**5,100**	**1,080**	**1,080**	-	-	-	-
Chrysene	**62.0 J**	**62.0 J**	49.8 U	49.8 U	**8,430**	**8,430**	**35,300 J**	**35,300 J**	**8,420**	**8,420**	**8,210**	**8,210**	**2,060**	**2,060**	**670**	**670**	**1,200**	**1,200**
Dibenz(a,h)anthracene	**18.0 J**	**18.0 J**	49.8 U	49.8 U	**695**	**695**	**1,940**	**1,940**	**573**	**573**	39.2 U	168 U	35.5 U	152 U	**71.0**	**71.0**	**150**	**150**
Fluoranthene	**42.0 J**	**42.0 J**	49.8 U	49.8 U	**19,400**	**19,400**	**48,300**	**48,300**	**17,800**	**17,800**	**13,600**	**13,600**	71.1 U	152 U	**1,300**	**1,300**	**2,100**	**2,100**
Indeno(1,2,3-cd)pyrene	**18.0 J**	**18.0 J**	49.8 U	49.8 U	**6,990**	**6,990**	**20,000**	**20,000**	**2,030**	**2,030**	39.2 U	168 U	35.5 U	152 U	**270**	**270**	**510**	**510**
Pyrene	**43.0 J**	**43.0 J**	49.8 UJ	49.8 UJ	**22,900**	**22,900**	**67,100**	**67,100**	**24,200**	**24,200**	**15,500**	**15,500**	**2,540**	**2,540**	**1,200**	**1,200**	**2,400**	**2,400**
Total HPAHs (full MDL/MRL)	**334 J**	**334 J**	498 UJ	498 UJ	**84,685**	**84,685**	**251,840 J**	**251,840 J**	**73,156**	**73,156**	**54,296 J**	**54,694 J**	**4,896 J**	**5,665 J**	**6,051**	**6,051**	**11,350**	**11,350**
Total HPAHs (KM)	**334 J**	**334 J**	-	-	**84,688**	**84,688**	**251,840 J**	**251,840 J**	**73,152**	**73,152**	**54,272 J**	**54,696 J**	**4,750 J**	**5,512 J**	**6,051**	**6,051**	**11,350**	**11,350**
Total HPAHs (KM-capped)	**334 J**	**334 J**	498 UJ	498 UJ	**84,685**	**84,685**	**251,840** J	**251,840** J	**73,156**	**73,156**	**54,272 J**	**54,694 J**	**4,750 J**	**5,512 J**	**6,051**	**6,051**	**11,350**	**11,350**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
- = Not Analyzed

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-1
Landfill AOPC Soil (0-3 ft bgs) PAH Analysis Results
(Page 3 of 4)

Site ID	BIL03USE		BIL04USE		BIL05USE		BIL06USE		BIL07USE		BIL08USE		BIL09USE		L-01		L-01	
Sample ID	070410BIL03SS		070410BIL04SS		070410BIL05SS		070410BIL06SS		070410BIL07SS		070410BIL08SS		070410BIL09SS		090129-L-L1-0-1So		090129-L-L1-1-3So	
Sample Date	4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		1/29/2009		1/29/2009	
Sample Depth (feet bgs)	0.5		0.5		0.5		0.5		0.5		0.5		0.5		0-1		1-3	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																		
2-Methylnaphthalene	20.0 U	20.0 U	**11.0 J**	**11.0 J**	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	59.0 U	20.0 U	20.0 U	20.0 U	20.0 U	-	-	-	-
Acenaphthene	**15.0 J**	**15.0 J**	**170**	**170**	20.0 U	20.0 U	**24.0**	**24.0**	**270**	**270**	**46.0**	**46.0**	20.0 U	20.0 U	**66.0**	**66.0**	**170**	**170**
Acenaphthylene	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	59.0 U	20.0 U	20.0 U	20.0 U	20.0 U	**3.40**	**3.40**	**12.0**	**12.0**
Anthracene	**30.0**	**30.0**	**180**	**180**	**15.0 J**	**15.0 J**	**34.0**	**34.0**	**740**	**740**	**110**	**110**	**30.0**	**30.0**	**99.0**	**99.0**	**400**	**400**
Fluorene	20.0 U	20.0 U	**73.0**	**73.0**	20.0 U	20.0 U	**13.0 J**	**13.0 J**	**140**	**140**	**24.0**	**24.0**	**10.0 J**	**10.0 J**	**33.0**	**33.0**	**99.0**	**99.0**
Naphthalene	20.0 U	20.0 U	**20.0**	**20.0**	20.0 U	20.0 U	20.0 U	20.0 U	59.0 U	59.0 U	20.0 U	20.0 U	20.0 U	20.0 U	**5.00**	**5.00**	**22.0**	**22.0**
Phenanthrene	**200**	**200**	**1,500**	**1,500**	**66.0**	**66.0**	**180**	**180**	**3,000**	**3,000**	**550**	**550**	**160**	**160**	**350**	**350**	**1,500**	**1,500**
Total LPAHs (full MDL/MRL)	**305 J**	**305 J**	**1,963 J**	**1,963 J**	**161 J**	**161 J**	**291 J**	**291 J**	**4,268 J**	**4,268 J**	**770 J**	**770 J**	**260 J**	**260 J**	**556**	**556**	**2,203**	**2,203**
Total LPAHs (KM)	**290 J**	**290 J**	**1,963 J**	**1,963 J**	**141 J**	**141 J**	**277 J**	**277 J**	**4,268 J**	**4,268 J**	**770 J**	**770 J**	**230 J**	**230 J**	**556**	**556**	**2,203**	**2,203**
Total LPAHs (KM, capped)	**290 J**	**290 J**	**1,963 J**	**1,963 J**	**141 J**	**141 J**	**277 J**	**277 J**	**4,268 J**	**4,268 J**	**770 J**	**770 J**	**230 J**	**230 J**	**556**	**556**	**2,203**	**2,203**
HPAHs																		
Benzo(a)anthracene	**330**	**330**	**1,000**	**1,000**	**78.0**	**78.0**	**250**	**250**	**4,500**	**4,500**	**1,000**	**1,000**	**180**	**180**	**690**	**690**	**4,500**	**4,500**
Benzo(a)pyrene	**360**	**360**	**1,600**	**1,600**	**85.0**	**85.0**	**240**	**240**	**6,200**	**6,200**	**1,300**	**1,300**	**140**	**140**	**820**	**820**	**5,800**	**5,800**
Benzo(b)fluoranthene	**420**	**420**	**1,600**	**1,600**	**110**	**110**	**310**	**310**	**8,200**	**8,200**	**1,500**	**1,500**	**170**	**170**	**990**	**990**	**7,100**	**7,100**
Benzo(g,h,i)perylene	**210**	**210**	**870**	**870**	**67.0**	**67.0**	**160**	**160**	**1,800**	**1,800**	**480**	**480**	**75.0**	**75.0**	**460**	**460**	**3,300**	**3,300**
Benzo(k)fluoranthene	**310**	**310**	**1,200**	**1,200**	**77.0**	**77.0**	**220**	**220**	**2,500**	**2,500**	**990**	**990**	**130**	**130**	**310**	**310**	**2,400**	**2,400**
Benzofluoranthenes, Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	**450**	**450**	**1,300**	**1,300**	**96.0**	**96.0**	**280**	**280**	**5,900**	**5,900**	**1,400**	**1,400**	**190**	**190**	**790**	**790**	**5,000**	**5,000**
Dibenz(a,h)anthracene	**55.0**	**55.0**	**240**	**240**	**29.0**	**29.0**	**76.0**	**76.0**	**730**	**730**	**160**	**160**	**18.0 J**	**18.0 J**	**130**	**130**	**970**	**970**
Fluoranthene	**580**	**580**	**2,700**	**2,700**	**150**	**150**	**460**	**460**	**14,000**	**14,000**	**2,800**	**2,800**	**300**	**300**	**1,200**	**1,200**	**7,700**	**7,700**
Indeno(1,2,3-cd)pyrene	**200**	**200**	**780**	**780**	**58.0**	**58.0**	**160**	**160**	**2,100**	**2,100**	**530**	**530**	**74.0**	**74.0**	**620**	**620**	**4,500**	**4,500**
Pyrene	**730**	**730**	**3,100**	**3,100**	**130**	**130**	**360**	**360**	**9,100**	**9,100**	**2,900**	**2,900**	**240 J**	**240 J**	**1,200**	**1,200**	**7,500**	**7,500**
Total HPAHs (full MDL/MRL)	**3,645**	**3,645**	**14,390**	**14,390**	**880**	**880**	**2,516**	**2,516**	**55,030**	**55,030**	**13,060**	**13,060**	**1,517 J**	**1,517 J**	**7,210**	**7,210**	**48,770**	**48,770**
Total HPAHs (KM)	**3,645**	**3,645**	**14,390**	**14,390**	**880**	**880**	**2,516**	**2,516**	**55,030**	**55,030**	**13,060**	**13,060**	**1,517 J**	**1,517 J**	**7,210**	**7,210**	**48,770**	**48,770**
Total HPAHs (KM-capped)	**3,645**	**3,645**	**14,390**	**14,390**	**880**	**880**	**2,516**	**2,516**	**55,030**	**55,030**	**13,060**	**13,060**	**1,517 J**	**1,517 J**	**7,210**	**7,210**	**48,770**	**48,770**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
- = Not Analyzed

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-1
Landfill AOPC Soil (0-3 ft bgs) PAH Analysis Results
(Page 4 of 4)

Site ID	L-02		L-02		L-03		L-03		L-04*		L-04	
Sample ID	090129-L-L2-0-1So		090129-L-L2-1-3So		090129-L-L3-0-1So		090129-L-L3-1-3So		090129-L-L4-0-1So		090129-L-L4-1-3So	
Sample Date	1/29/2009		1/29/2009		1/29/2009		1/29/2009		1/29/2009		1/29/2009	
Sample Depth (feet bgs)	0-1		1-3		0-1		1-3		0-1		1-3	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs												
2-Methylnaphthalene	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	**220**	**220**	**1,900**	**1,900**	**700**	**700**	**360**	**360**	**1,160**	**1,160**	**420**	**420**
Acenaphthylene	**15.0**	**15.0**	**41.0**	**41.0**	**13.0**	**13.0**	**15.0**	**15.0**	**19.0**	**19.0**	**13.0**	**13.0**
Anthracene	**650**	**650**	**2,100**	**2,100**	**880**	**880**	**900**	**900**	**1,070**	**1,070**	**740**	**740**
Fluorene	**130**	**130**	**630**	**630**	**340**	**340**	**210**	**210**	**510**	**510**	**240**	**240**
Naphthalene	**14.0**	**14.0**	**140**	**140**	**49.0**	**49.0**	**49.0**	**49.0**	**79.0**	**79.0**	**57.0**	**57.0**
Phenanthrene	**2,000**	**2,000**	**7,400**	**7,400**	**3,400**	**3,400**	**2,800**	**2,800**	**4,200**	**4,200**	**2,800**	**2,800**
Total LPAHs (full MDL/MRL)	**3,029**	**3,029**	**12,211**	**12,211**	**5,382**	**5,382**	**4,334**	**4,334**	**7,043**	**7,043**	**4,270**	**4,270**
Total LPAHs (KM)	**3,029**	**3,029**	**12,210**	**12,210**	**5,382**	**5,382**	**4,334**	**4,334**	**7,044**	**7,044**	**4,270**	**4,270**
Total LPAHs (KM, capped)	**3,029**	**3,029**	**12,211**	**12,211**	**5,382**	**5,382**	**4,334**	**4,334**	**7,043**	**7,043**	**4,270**	**4,270**
HPAHs												
Benzo(a)anthracene	**4,100**	**4,100**	**11,000**	**11,000**	**4,500**	**4,500**	**4,800**	**4,800**	**4,500**	**4,500**	**4,800**	**4,800**
Benzo(a)pyrene	**4,700**	**4,700**	**16,000**	**16,000**	**5,900**	**5,900**	**5,800**	**5,800**	**5,800**	**5,800**	**6,200**	**6,200**
Benzo(b)fluoranthene	**5,700**	**5,700**	**16,000**	**16,000**	**6,400**	**6,400**	**6,500**	**6,500**	**6,500**	**6,500**	**7,200**	**7,200**
Benzo(g,h,i)perylene	**2,500**	**2,500**	**9,500**	**9,500**	**3,300**	**3,300**	**3,100**	**3,100**	**3,250**	**3,250**	**3,500**	**3,500**
Benzo(k)fluoranthene	**2,000**	**2,000**	**5,900**	**5,900**	**2,300**	**2,300**	**2,400**	**2,400**	**2,300**	**2,300**	**2,500**	**2,500**
Benzofluoranthenes, Total	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	**4,900**	**4,900**	**14,000**	**14,000**	**5,000**	**5,000**	**5,400**	**5,400**	**5,150**	**5,150**	**5,600**	**5,600**
Dibenz(a,h)anthracene	**710**	**710**	**2,300**	**2,300**	**1,000**	**1,000**	**900**	**900**	**900**	**900**	**1,100**	**1,100**
Fluoranthene	**7,000**	**7,000**	**21,000**	**21,000**	**8,200**	**8,200**	**8,700**	**8,700**	**8,700**	**8,700**	**8,600**	**8,600**
Indeno(1,2,3-cd)pyrene	**3,500**	**3,500**	**13,000**	**13,000**	**4,600**	**4,600**	**4,400**	**4,400**	**4,450**	**4,450**	**4,900**	**4,900**
Pyrene	**6,700**	**6,700**	**21,000**	**21,000**	**7,900**	**7,900**	**9,400**	**9,400**	**8,150**	**8,150**	**8,600**	**8,600**
Total HPAHs (full MDL/MRL)	**41,810**	**41,810**	**129,700**	**129,700**	**49,100**	**49,100**	**51,400**	**51,400**	**49,700**	**49,700**	**53,000**	**53,000**
Total HPAHs (KM)	**41,810**	**41,810**	**129,700**	**129,700**	**49,100**	**49,100**	**51,400**	**51,400**	**49,700**	**49,700**	**53,000**	**53,000**
Total HPAHs (KM-capped)	**41,810**	**41,810**	**129,700**	**129,700**	**49,100**	**49,100**	**51,400**	**51,400**	**49,700**	**49,700**	**53,000**	**53,000**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
- = Not Analyzed

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-2
Sandblast Area AOPC Soil (0-3 ft bgs) PAH Analysis Results
(Page 1 of 4)

Site ID	DSA01		DSA02		DSA03		DSA04		DSA05		DSA06		DSA07		DSA08		DSA09		DSA10	
Sample ID	011204DSA01SS		011204DSA02SS		011204DSA03SS		011204DSA04SS		011204DSA05SS		011204DSA06SS		011204DSA07SS		011204DSA08SS		011204DSA09SS		011204DSA10SS	
Sample Date	12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001	
Sample Depth (feet bgs)	0		0		0		0		0		0		0		0		0		0	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																				
2-Methylnaphthalene	0.191 U	1.23 U	0.183 U	1.17 U	0.205 U	1.31 U	0.221 U	1.41 U	0.217 U	1.39 U	**2.98**	**2.98**	0.203 U	1.30 U	0.191 U	1.22 U	0.225 U	1.44 U	2.28 U	14.6 U
Acenaphthene	0.607 U	1.23 U	**6.44**	**6.44**	0.649 U	1.31 U	0.700 U	1.41 U	**4.46**	**4.46**	0.738 U	1.49 U	**2.60**	**2.60**	**2.81**	**2.81**	**15.4**	**15.4**	**29.3**	**29.3**
Acenaphthylene	0.535 U	1.23 U	0.510 U	1.17 U	**3.67**	**3.67**	0.616 U	1.41 U	0.607 U	1.39 U	0.650 U	1.49 U	0.567 U	1.30 U	0.533 U	1.22 U	0.629 U	1.44 U	6.38 U	14.6 U
Anthracene	**1.72**	**1.72**	**4.21**	**4.21**	**5.25**	**5.25**	0.356 U	1.41 U	**9.19**	**9.19**	**11.3**	**11.3**	**2.08**	**2.08**	**2.20**	**2.20**	**18.0**	**18.0**	**80.5**	**80.5**
Fluorene	0.573 U	1.23 U	**2.46**	**2.46**	**3.02**	**3.02**	0.660 U	1.41 U	**3.06**	**3.06**	**7.01**	**7.01**	**1.69**	**1.69**	**1.83**	**1.83**	**7.65**	**7.65**	**24.9**	**24.9**
Naphthalene	0.574 U	1.23 U	0.548 U	1.17 U	**1.70**	**1.70**	0.662 U	1.41 U	**1.95**	**1.95**	**4.17**	**4.17**	0.609 U	1.30 U	0.572 U	1.22 U	0.676 U	1.44 U	6.85 U	14.6 U
Phenanthrene	**5.64**	**5.64**	**19.4**	**19.4**	**21.8**	**21.8**	**5.80**	**5.80**	**31.3**	**31.3**	**49.8**	**49.8**	**11.3**	**11.3**	**13.6**	**13.6**	**59.0**	**59.0**	**345**	**345**
Total LPAHs (full MDL/MRL)	**9.65 J**	**12.3 J**	**33.6 J**	**34.9 J**	**36.1 J**	**36.8 J**	**8.79 J**	**12.9 J**	**50.6 J**	**51.4 J**	**73.7 J**	**75.3 J**	**18.8 J**	**20.3 J**	**21.5 J**	**22.9 J**	**101 J**	**103 J**	**493 J**	**509 J**
Total LPAHs (KM)	**9.50 J**	**12.3 J**	**33.5 J**	**34.8 J**	**36.1 J**	**36.8 J**	-	-	**50.6 J**	**51.3 J**	**73.6 J**	**75.2 J**	**18.8 J**	**20.3 J**	**21.5 J**	**22.9 J**	**101 J**	**103 J**	**492 J**	**509 J**
Total LPAHs (KM, capped)	**9.50 J**	**12.3 J**	**33.5 J**	**34.8 J**	**36.1 J**	**36.8 J**	**8.79 J**	**12.9 J**	**50.6 J**	**51.3 J**	**73.6 J**	**75.2 J**	**18.8 J**	**20.3 J**	**21.5 J**	**22.9 J**	**101 J**	**103 J**	**492 J**	**509 J**
HPAHs																				
Benzo(a)anthracene	0.749 U	2.45 U	**15.0**	**15.0**	**15.6**	**15.6**	**3.96**	**3.96**	**66.6**	**66.6**	**29.5**	**29.5**	**7.28**	**7.28**	**16.5**	**16.5**	**46.3**	**46.3**	**398**	**398**
Benzo(a)pyrene	**10.2**	**10.2**	**20.4**	**20.4**	**20.3**	**20.3**	**7.49**	**7.49**	**151**	**151**	**43.5**	**43.5**	**14.0**	**14.0**	**25.4**	**25.4**	**52.0**	**52.0**	**435**	**435**
Benzo(b)fluoranthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	0.202 U	1.23 U	**9.72**	**9.72**	0.216 U	1.31 U	0.233 U	1.41 U	**107**	**107**	0.246 U	1.49 U	**6.89**	**6.89**	**13.7**	**13.7**	**21.2**	**21.2**	**195**	**195**
Benzo(k)fluoranthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
'Benzofluoranthenes, Total	**13.5**	**13.5**	**26.3**	**26.3**	**35.8**	**35.8**	**10.2**	**10.2**	**175**	**175**	**74.2**	**74.2**	**17.8**	**17.8**	**36.3**	**36.3**	**72.2**	**72.2**	**682**	**682**
Chrysene	**6.50**	**6.50**	**16.3**	**16.3**	**22.8**	**22.8**	**6.36**	**6.36**	**68.4**	**68.4**	**45.9**	**45.9**	**9.89**	**9.89**	**20.3**	**20.3**	**56.6**	**56.6**	**465**	**465**
Dibenz(a,h)anthracene	0.286 U	1.23 U	0.273 U	1.17 U	0.306 U	1.31 U	0.329 U	1.41 U	**25.8**	**25.8**	0.347 U	1.49 U	0.303 U	1.30 U	0.285 U	1.22 U	0.336 U	1.44 U	3.41 U	14.6 U
Fluoranthene	**8.47**	**8.47**	**31.6**	**31.6**	**35.4**	**35.4**	**10.0**	**10.0**	**75.9**	**75.9**	**62.9**	**62.9**	**19.0**	**19.0**	**27.2**	**27.2**	**98.2**	**98.2**	**806**	**806**
Indeno(1,2,3-cd)pyrene	0.286 U	1.23 U	**11.1**	**11.1**	**14.3**	**14.3**	**3.68**	**3.68**	**97.8**	**97.8**	0.347 U	1.49 U	**7.02**	**7.02**	**14.3**	**14.3**	**21.1**	**21.1**	**202**	**202**
Pyrene	**11.0**	**11.0**	**31.0**	**31.0**	**32.3**	**32.3**	**10.0**	**10.0**	**83.8**	**83.8**	**68.6**	**68.6**	**21.2**	**21.2**	**35.1**	**35.1**	**106**	**106**	**844**	**844**
Total HPAHs (full MDL/MRL)	**37.7 J**	**42.3 J**	**135 J**	**136 J**	**141 J**	**143 J**	**42.1 J**	**44.3 J**	**676**	**676**	**251 J**	**255 J**	**85.6 J**	**86.6 J**	**153 J**	**154 J**	**402 J**	**403 J**	**3348.41 J**	**3359.6 J**
Total HPAHs (KM)	**37.0 J**	**41.1 J**	**135 J**	**136 J**	**141 J**	**143 J**	**42.0 J**	**44.3 J**	**676**	**676**	**251 J**	**255 J**	**85.6 J**	**86.6 J**	**153 J**	**154 J**	**402 J**	**403 J**	**3348.8 J**	**3360 J**
Total HPAHs (KM-capped)	**37.0 J**	**41.1 J**	**135 J**	**136 J**	**141 J**	**143 J**	**42.0 J**	**44.3 J**	**676**	**676**	**251 J**	**255 J**	**85.6 J**	**86.6 J**	**153 J**	**154 J**	**402 J**	**403 J**	**3348.41 J**	**3359.6 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
- = Not Analyzed

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-2
Sandblast Area AOPC Soil (0-3 ft bgs) PAH Analysis Results
(Page 2 of 4)

Site ID	DSA11*		DSA12*		SBB18		HA1*		HA2		HA3		HA4		HA5		HA9		HA10	
Sample ID	011204DSA11SS		011204DSA12SS		011205SBB20SS		041122SGA14SS		041122SGA16SS		041122SGA17SS		041122SGA21SS		041122SGA23SS		041123SGA28SS		041123SGA29SS	
Sample Date	12/4/2001		12/4/2001		12/5/2001		11/22/2004		11/22/2004		11/22/2004		11/22/2004		11/22/2004		11/23/2004		11/23/2004	
Sample Depth (feet bgs)	0		0		2.5		0.5		0.5		0.5		3		3		0.5		0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																				
2-Methylnaphthalene	**22.9**	**22.9**	**150**	**150**	**124 J**	**124 J**	**4.84 J**	**4.84 J**	**2.53 J**	**2.53 J**	**31.8**	**31.8**	0.657 U	2.53 U	0.651 U	2.50 U	**1.29 J**	**1.29 J**	0.539 U	2.07 U
Acenaphthene	**132**	**132**	**470**	**470**	**3,200 J**	**3,200 J**	**10.9**	**10.9**	**16.1**	**16.1**	**296**	**296**	**328**	**328**	0.642 U	2.50 U	**5.41**	**5.41**	0.531 U	2.07 U
Acenaphthylene	**27.6**	**27.6**	**87.7**	**87.7**	**295 J**	**295 J**	**4.33**	**4.33**	**4.65**	**4.65**	**54.7**	**54.7**	**9.14**	**9.14**	0.737 U	2.50 U	**1.39 J**	**1.39 J**	0.610 U	2.07 U
Anthracene	**304**	**304**	**822**	**822**	**2,040 J**	**2,040 J**	**14.7**	**14.7**	**21.3**	**21.3**	**832**	**832**	**447**	**447**	0.476 U	2.50 U	**5.03**	**5.03**	0.394 U	2.07 U
Fluorene	**94.6**	**94.6**	**462**	**462**	**779 J**	**779 J**	**8.53**	**8.53**	**10.5**	**10.5**	**278**	**278**	**164**	**164**	0.809 U	2.50 U	0.714 U	2.21 U	0.669 U	2.07 U
Naphthalene	**26.8**	**26.8**	**227**	**227**	**256 J**	**256 J**	**4.11**	**4.11**	0.934 U	2.11 U	**78.2**	**78.2**	1.12 U	2.53 U	**2.04 J**	**2.04 J**	**2.56**	**2.56**	0.918 U	2.07 U
Phenanthrene	**1,050**	**1,050**	**3,020**	**3,020**	**6,550 J**	**6,550 J**	**116 J**	**116 J**	**115**	**115**	**3,250**	**3,250**	**1,580**	**1,580**	**2.47 J**	**2.47 J**	**38.2**	**38.2**	**7.86**	**7.86**
Total LPAHs (full MDL/MRL)	**1,639**	**1,639**	**5,089**	**5,089**	**13,120 J**	**13,120 J**	**158 J**	**158 J**	**168 J**	**170 J**	**4,789**	**4,789**	**2,529 J**	**2,531 J**	**7.17 J**	**14.5 J**	**53.304 J**	**54.8 J**	**11.0 J**	**18.2 J**
Total LPAHs (KM)	**1,639**	**1,639**	**5,089**	**5,089**	**13,122 J**	**13,122 J**	**158 J**	**158 J**	**168 J**	**170 J**	**4,789**	**4,789**	**2,529 J**	**2,531 J**	**6.41 J**	**13.5 J**	**53.304 J**	**54.0 J**	-	-
Total LPAHs (KM, capped)	**1,639**	**1,639**	**5,089**	**5,089**	**13,120 J**	**13,120 J**	**158 J**	**158 J**	**168 J**	**170 J**	**4,789**	**4,789**	**2,529 J**	**2,531 J**	**6.41 J**	**13.5 J**	**53.304 J**	**54.0 J**	**11.0 J**	**18.2 J**
HPAHs																				
Benzo(a)anthracene	**1,640**	**1,640**	**1,320**	**1,320**	**12,300 J**	**12,300 J**	**183 J**	**183 J**	**114 J**	**114 J**	**6,440**	**6,440**	**2,030**	**2,030**	1.26 U	2.50 U	**62.3 J**	**62.3 J**	1.05 U	2.07 U
Benzo(a)pyrene	**2,040**	**2,040**	**1,580**	**1,580**	**11,700 J**	**11,700 J**	**160**	**160**	**108**	**108**	**6,470**	**6,470**	**1,970**	**1,970**	0.792 U	2.50 U	**74.1**	**74.1**	0.656 U	2.07 U
Benzo(b)fluoranthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	**1,010**	**1,010**	**558**	**558**	**3,350 J**	**3,350 J**	**94.6 J**	**94.6 J**	**61.9 J**	**61.9 J**	**3,830**	**3,830**	**914**	**914**	**4.33 J**	**4.33 J**	**66.4 J**	**66.4 J**	0.498 U	2.07 U
Benzo(k)fluoranthene	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
'Benzofluoranthenes, Total	**2,840**	**2,840**	**1,850**	**1,850**	**16,300 J**	**16,300 J**	**290**	**290**	**212**	**212**	**12,100**	**12,100**	**3,040**	**3,040**	**7.70**	**7.70**	**135**	**135**	0.939 U	4.14 U
Chrysene	**1,640**	**1,640**	**1,620**	**1,620**	**12,000 J**	**12,000 J**	**224**	**224**	**129**	**129**	**7,590**	**7,590**	**1,910**	**1,910**	0.895 U	2.50 U	**75.3**	**75.3**	0.741 U	2.07 U
Dibenz(a,h)anthracene	**418**	**418**	**216**	**216**	**1,080 J**	**1,080 J**	**34.2 J**	**34.2 J**	**25.4 J**	**25.4 J**	**1,430**	**1,430**	**347**	**347**	0.777 U	2.50 U	**16.5 J**	**16.5 J**	0.643 U	2.07 U
Fluoranthene	**2,290**	**2,290**	**2,610**	**2,610**	**28,600 J**	**28,600 J**	**218**	**218**	**216**	**216**	**20,700**	**20,700**	**4,330**	**4,330**	**6.29**	**6.29**	**71.9**	**71.9**	1.05 U	2.07 U
Indeno(1,2,3-cd)pyrene	**998**	**998**	**546**	**546**	**4,170 J**	**4,170 J**	**83.6 J**	**83.6 J**	**60.8 J**	**60.8 J**	**3,910**	**3,910**	**939**	**939**	**3.52 J**	**3.52 J**	**49.8 J**	**49.8 J**	0.472 U	2.07 U
Pyrene	**2,480**	**2,480**	**3,480**	**3,480**	**32,000 J**	**32,000 J**	**366 J**	**366 J**	**217**	**217**	**21,900**	**21,900**	**5,470 J**	**5,470 J**	**9.14**	**9.14**	**79.3**	**79.3**	0.352 U	2.07 U
Total HPAHs (full MDL/MRL)	**12,525**	**12,525**	**11,941**	**11,941**	**105,200 J**	**105,200 J**	**1,364 J**	**1,364 J**	**932 J**	**932 J**	**72,270**	**72,270**	**17,910 J**	**17,910 J**	**27.0 J**	**33.3 J**	**496 J**	**496 J**	5.46 U	16.6 U
Total HPAHs (KM)	**12,528**	**12,528**	**11,944**	**11,944**	**105,200 J**	**105,200 J**	**1,364 J**	**1,364 J**	**932 J**	**932 J**	**72,272**	**72,272**	**17,912 J**	**17,912 J**	**26.4 J**	**33.3 J**	**496 J**	**496 J**	-	-
Total HPAHs (KM-capped)	**12,525**	**12,525**	**11,941**	**11,941**	**105,200 J**	**105,200 J**	**1,364 J**	**1,364 J**	**932 J**	**932 J**	**72,270**	**72,270**	**17,910 J**	**17,910 J**	**26.4 J**	**33.3 J**	**496 J**	**496 J**	5.46 U	16.6 U

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
- = Not Analyzed

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-2
Sandblast Area AOPC Soil (0-3 ft bgs) PAH Analysis Results
(Page 3 of 4)

Site ID	HA11		HA11		LD-01		LD-01		LD-02		LD-02		LD-03		LD-03		LD-04		LD-04	
Sample ID	041123SGA30SS		041123SGA31SS		090320-LD-1So-0-1		090320-LD-1So-1-3		090320-LD-2So-0-1		090320-LD-2So-1-3		090320-LD-3So-0-1		090320-LD-3So-1-3		090320-LD-4So-0-1		090320-LD-4So-1-3	
Sample Date	11/23/2004		11/23/2004		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009	
Sample Depth (feet bgs)	1		3		0-1		1-3		0-1		1-3		0-1		1-3		0-1		1-3	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																				
2-Methylnaphthalene	0.641 U	2.46 U	0.656 U	2.52 U	**40.0 J**	**40.0 J**	1.20 U	6.90 U	**40.0 J**	**40.0 J**	**3.30 J**	**3.30 J**	**43.0 J**	**43.0 J**	1.20 U	6.80 U	1.20 U	6.40 U	1.20 U	6.50 U
Acenaphthene	**5.88**	**5.88**	0.648 U	2.52 U	**160 J**	**160 J**	**1.10 J**	**1.10 J**	**140 J**	**140 J**	**9.00**	**9.00**	**430**	**430**	**4.10 J**	**4.10 J**	**1.50 J**	**1.50 J**	1.00 U	6.50 U
Acenaphthylene	0.726 U	2.46 U	0.744 U	2.52 U	35.0 U	180 U	1.40 U	6.90 U	**37.0 J**	**37.0 J**	1.40 U	6.80 U	35.0 U	170 U	1.40 U	6.80 U	1.40 U	6.40 U	1.40 U	6.50 U
Anthracene	**8.55**	**8.55**	0.480 U	2.52 U	**330**	**330**	**1.80 J**	**1.80 J**	**280**	**280**	**14.0**	**14.0**	**780**	**780**	**11.0**	**11.0**	**2.00 J**	**2.00 J**	1.40 U	6.50 U
Fluorene	**7.13**	**7.13**	0.816 U	2.52 U	**130 J**	**130 J**	1.70 U	6.90 U	**120 J**	**120 J**	**9.70**	**9.70**	**380**	**380**	**3.80 J**	**3.80 J**	1.70 U	6.40 U	1.70 U	6.50 U
Naphthalene	**2.50**	**2.50**	1.12 U	2.52 U	**66.0 J**	**66.0 J**	1.30 U	6.90 U	**69.0 J**	**69.0 J**	**6.30 J**	**6.30 J**	**62.0 J**	**62.0 J**	**2.20 J**	**2.20 J**	1.30 U	6.40 U	1.30 U	6.50 U
Phenanthrene	**24.8**	**24.8**	0.750 U	2.52 U	**1,900**	**1,900**	**15.0**	**15.0**	**1,900**	**1,900**	**71.0**	**71.0**	**4,000**	**4,000**	**59.0**	**59.0**	**16.0**	**16.0**	1.30 U	6.50 U
Total LPAHs (full MDL/MRL)	**49.6 J**	**51.3 J**	4.56 U	15.1 U	**2,621 J**	**2,766 J**	**22.3 J**	**38.6 J**	**2,546 J**	**2,546 J**	**111 J**	**117 J**	**5,687 J**	**5,822 J**	**81.5 J**	**86.9 J**	**23.9 J**	**38.7 J**	8.10 U	39.0 U
Total LPAHs (KM)	**49.6 J**	**51.3 J**	-	-	**2,621 J**	**2,705 J**	**21.2 J**	**22.2 J**	**2,546 J**	**2,546 J**	**111 J**	**116 J**	**5,687 J**	**5,714 J**	**81.5 J**	**83.5 J**	**23.5 J**	**24.8 J**	-	-
Total LPAHs (KM, capped)	**49.6 J**	**51.3 J**	4.56 U	15.1 U	**2,621 J**	**2,705 J**	**21.198 J**	**22.2 J**	**2,546 J**	**2,546 J**	**111 J**	**116 J**	**5,687 J**	**5,714 J**	**81.5 J**	**83.5 J**	**23.5 J**	**24.8 J**	8.10 U	39.0 U
HPAHs																				
Benzo(a)anthracene	**48.3 J**	**48.3 J**	1.28 U	2.52 U	**1,500**	**1,500**	**15.0**	**15.0**	**2,700**	**2,700**	**37.0**	**37.0**	**2,100**	**2,100**	**71.0**	**71.0**	**27.0**	**27.0**	1.40 U	6.50 U
Benzo(a)pyrene	**40.4**	**40.4**	0.799 U	2.52 U	**1,400**	**1,400**	**19.0**	**19.0**	**2,800**	**2,800**	**35.0**	**35.0**	**1,900**	**1,900**	**72.0**	**72.0**	**38.0**	**38.0**	1.60 U	6.50 U
Benzo(b)fluoranthene	-	-	-	-	**2,000**	**2,000**	**27.0**	**27.0**	**4,100**	**4,100**	**45.0**	**45.0**	**2,600**	**2,600**	**100**	**100**	**53.0**	**53.0**	2.50 U	6.50 U
Benzo(g,h,i)perylene	**29.8 J**	**29.8 J**	0.607 U	2.52 U	**950**	**950**	**21.0**	**21.0**	**2,000**	**2,000**	**33.0**	**33.0**	**1,100**	**1,100**	**54.0**	**54.0**	**42.0**	**42.0**	2.30 U	6.50 U
Benzo(k)fluoranthene	-	-	-	-	**770**	**770**	**10.0**	**10.0**	**1,400**	**1,400**	**16.0**	**16.0**	**880**	**880**	**36.0**	**36.0**	**19.0**	**19.0**	2.50 U	6.50 U
'Benzofluoranthenes, Total	**73.4**	**73.4**	1.14 U	5.05 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	**85.8**	**85.8**	0.903 U	2.52 U	**1,900**	**1,900**	**21.0**	**21.0**	**3,500**	**3,500**	**42.0**	**42.0**	**2,300**	**2,300**	**85.0**	**85.0**	**39.0**	**39.0**	**1.80 J**	**1.80 J**
Dibenz(a,h)anthracene	**1.23 J**	**1.23 J**	0.784 U	2.52 U	**270**	**270**	**4.40 J**	**4.40 J**	**640**	**640**	**7.00**	**7.00**	**350**	**350**	**15.0**	**15.0**	**9.70**	**9.70**	2.20 U	6.50 U
Fluoranthene	**52.7**	**52.7**	1.28 U	2.52 U	**3,100**	**3,100**	**29.0**	**29.0**	**4,700**	**4,700**	**71.0**	**71.0**	**5,000**	**5,000**	**130**	**130**	**36.0**	**36.0**	2.20 U	6.50 U
Indeno(1,2,3-cd)pyrene	**26.5 J**	**26.5 J**	0.576 U	2.52 U	**1,100**	**1,100**	**16.0**	**16.0**	**2,200**	**2,200**	**25.0**	**25.0**	**1,300**	**1,300**	**55.0**	**55.0**	**35.0**	**35.0**	1.90 U	6.50 U
Pyrene	**51.6**	**51.6**	0.429 U	2.52 U	**2,800**	**2,800**	**29.0**	**29.0**	**4,400**	**4,400**	**76.0**	**76.0**	**4,200**	**4,200**	**120**	**120**	**47.0**	**47.0**	**2.10 J**	**2.10 J**
Total HPAHs (full MDL/MRL)	**336 J**	**336 J**	6.66 U	20.2 U	**15,790**	**15,790**	**191 J**	**191 J**	**28,440**	**28,440**	**387**	**387**	**21,730**	**21,730**	**738**	**738**	**346**	**346**	**20.5 J**	**55.9 J**
Total HPAHs (KM)	**336 J**	**336 J**	-	-	**15,790**	**15,790**	**191 J**	**191 J**	**28,440**	**28,440**	**387**	**387**	**21,730**	**21,730**	**738**	**738**	**346**	**346**	**16.5 J**	**19.5 J**
Total HPAHs (KM-capped)	**336 J**	**336 J**	6.66 U	20.2 U	**15,790**	**15,790**	**191 J**	**191 J**	**28,440**	**28,440**	**387**	**387**	**21,730**	**21,730**	**738**	**738**	**346**	**346**	**16.5 J**	**19.5 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
- = Not Analyzed

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-2
Sandblast Area AOPC Soil (0-3 ft bgs) PAH Analysis Results
(Page 4 of 4)

Site ID	LD-05		LD-05		LD-06		LD-07		LD-08		LD-09		LD-10		LD-11*		SB-EUA*		SB-EUB	
Sample ID	090320-LD-5So-0-1		090320-LD-5So-1-3		090319-LD-6-So		090319-LD-7-So		090319-LD-8-So		090319-LD-9-So		090319-LD-10-So		090319-LD-11-So		090318-SB-EUA-So		090318-SB-EUB-So	
Sample Date	3/20/2009		3/20/2009		3/19/2009		3/19/2009		3/19/2009		3/19/2009		3/19/2009		3/19/2009		3/18/2009		3/18/2009	
Sample Depth (feet bgs)	0-1		1-3		0-0.17		0-0.17		0-0.17		0-0.17		0-0.17		0-0.17		0-0.17		0-0.17	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																				
2-Methylnaphthalene	**6.90**	**6.90**	1.20 U	6.40 U	**29.0 J**	**29.0 J**	**27.0 J**	**27.0 J**	1.20 U	10.0 U	**2.80 J**	**2.80 J**	**36.0 J**	**36.0 J**	**7.60 J**	**7.60 J**	30.0 U	160 U	60.0 U	340 U
Acenaphthene	**30.0**	**30.0**	**4.70 J**	**4.70 J**	**210**	**210**	**110**	**110**	1.00 U	10.0 U	**14.0**	**14.0**	**99.0 J**	**99.0 J**	**20.0**	**20.0**	**34.5 J**	**34.5 J**	**68.0 J**	**68.0 J**
Acenaphthylene	**4.60 J**	**4.60 J**	1.40 U	6.40 U	**15.0 J**	**15.0 J**	**31.0 J**	**31.0 J**	1.40 U	10.0 U	**2.60 J**	**2.60 J**	**25.0 J**	**25.0 J**	**3.15 J**	**3.15 J**	35.0 U	160 U	70.0 U	340 U
Anthracene	**90.0**	**90.0**	**13.0**	**13.0**	**220**	**220**	**270**	**270**	**2.90 J**	**2.90 J**	**29.0**	**29.0**	**170**	**170**	**55.0**	**55.0**	**53.5 J**	**53.5 J**	**150 J**	**150 J**
Fluorene	**29.0**	**29.0**	**5.20 J**	**5.20 J**	**130**	**130**	**130**	**130**	1.70 U	10.0 U	**13.0**	**13.0**	**75.0 J**	**75.0 J**	**17.5**	**17.5**	43.0 U	160 U	85.0 U	340 U
Naphthalene	**8.90**	**8.90**	**4.00 J**	**4.00 J**	**78.0 J**	**78.0 J**	**41.0 J**	**41.0 J**	**3.90 J**	**3.90 J**	**6.70 J**	**6.70 J**	**45.0 J**	**45.0 J**	**8.75 J**	**8.75 J**	33.0 U	160 U	65.0 U	340 U
Phenanthrene	**460**	**460**	**79.0**	**79.0**	**1,100**	**1,100**	**1,800**	**1,800**	**16.0**	**16.0**	**180**	**180**	**810**	**810**	**260**	**260**	**360**	**360**	**940**	**940**
Total LPAHs (full MDL/MRL)	**623 J**	**623 J**	**107 J**	**112 J**	**1,753 J**	**1,753 J**	**2,382 J**	**2,382 J**	**26.9 J**	**52.8 J**	**245 J**	**245 J**	**1,224 J**	**1,224 J**	**364 J**	**364 J**	**559 J**	**928 J**	**1,378 J**	**2,178 J**
Total LPAHs (KM)	**623 J**	**623 J**	**107 J**	**111 J**	**1,753 J**	**1,753 J**	**2,382 J**	**2,382 J**	**25.8 J**	**33.0 J**	**245 J**	**245 J**	**1,224 J**	**1,224 J**	**364 J**	**364 J**	**549 J**	**580 J**	**1,356 J**	**1,485 J**
Total LPAHs (KM, capped)	**623 J**	**623 J**	**107 J**	**111 J**	**1,753 J**	**1,753 J**	**2,382 J**	**2,382 J**	**25.8 J**	**33.0 J**	**245 J**	**245 J**	**1,224 J**	**1,224 J**	**364 J**	**364 J**	**549 J**	**580 J**	**1,356 J**	**1,485 J**
HPAHs																				
Benzo(a)anthracene	**530**	**530**	**96.0**	**96.0**	**960**	**960**	**1,800**	**1,800**	**16.0**	**16.0**	**190**	**190**	**660**	**660**	**275**	**275**	**455**	**455**	**1,200**	**1,200**
Benzo(a)pyrene	**450**	**450**	**86.0**	**86.0**	**1,100**	**1,100**	**1,600**	**1,600**	**17.0**	**17.0**	**200**	**200**	**670**	**670**	**265**	**265**	**435**	**435**	**1,000**	**1,000**
Benzo(b)fluoranthene	**640**	**640**	**120**	**120**	**1,500**	**1,500**	**2,600**	**2,600**	**25.0**	**25.0**	**290**	**290**	**1,100**	**1,100**	**365**	**365**	**645**	**645**	**1,600**	**1,600**
Benzo(g,h,i)perylene	**280**	**280**	**54.0**	**54.0**	**820**	**820**	**1,100**	**1,100**	**11.0**	**11.0**	**120**	**120**	**440**	**440**	**165**	**165**	**270**	**270**	**590**	**590**
Benzo(k)fluoranthene	**220**	**220**	**45.0**	**45.0**	**560**	**560**	**860**	**860**	**8.30 J**	**8.30 J**	**89.0**	**89.0**	**360**	**360**	**125**	**125**	**230**	**230**	**570**	**570**
'Benzofluoranthenes, Total	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	**620**	**620**	**120**	**120**	**1,100**	**1,100**	**2,100**	**2,100**	**20.0**	**20.0**	**220**	**220**	**870**	**870**	**305**	**305**	**575**	**575**	**1,500**	**1,500**
Dibenz(a,h)anthracene	**91.0**	**91.0**	**18.0**	**18.0**	**240**	**240**	**350**	**350**	2.20 U	10.0 U	**38.0**	**38.0**	**130**	**130**	**47.0**	**47.0**	**95.5 J**	**95.5 J**	**220 J**	**220 J**
Fluoranthene	**1,100**	**1,100**	**170**	**170**	**1,700**	**1,700**	**3,300**	**3,300**	**31.0**	**31.0**	**350**	**350**	**1,300**	**1,300**	**555**	**555**	**825**	**825**	**2,100**	**2,100**
Indeno(1,2,3-cd)pyrene	**320**	**320**	**60.0**	**60.0**	**880**	**880**	**1,200**	**1,200**	**12.0**	**12.0**	**130**	**130**	**450**	**450**	**180**	**180**	**300**	**300**	**690**	**690**
Pyrene	**950**	**950**	**150**	**150**	**1,600**	**1,600**	**2,800**	**2,800**	**28.0**	**28.0**	**310**	**310**	**1,300**	**1,300**	**500**	**500**	**775**	**775**	**1,900**	**1,900**
Total HPAHs (full MDL/MRL)	**5,201**	**5,201**	**919**	**919**	**10,460**	**10,460**	**17,710**	**17,710**	**171 J**	**178 J**	**1,937**	**1,937**	**7,280**	**7,280**	**2,782**	**2,782**	**4,606 J**	**4,606 J**	**11,370 J**	**11,370 J**
Total HPAHs (KM)	**5,201**	**5,201**	**919**	**919**	**10,460**	**10,460**	**17,710**	**17,710**	**171 J**	**177 J**	**1,937**	**1,937**	**7,280**	**7,280**	**2,782**	**2,782**	**4,606 J**	**4,606 J**	**11,370 J**	**11,370 J**
Total HPAHs (KM-capped)	**5,201**	**5,201**	**919**	**919**	**10,460**	**10,460**	**17,710**	**17,710**	**171 J**	**177 J**	**1,937**	**1,937**	**7,280**	**7,280**	**2,782**	**2,782**	**4,606 J**	**4,606 J**	**11,370 J**	**11,370 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
- = Not Analyzed

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-3
Reference Area Soil (0-0.5 ft bgs) PAH Analysis Results
(Page 1 of 2)

Site ID	R-01		R-02		R-03		R-04		R-05		R-06		R-07*	
Sample ID	090128-R-R1-0-0.5So		090128-R-R2-0-0.5So		090128-R-R3-0-0.5So		090128-R-R4-0-0.5So		090128-R-R5-0-0.5So		090128-R-R6-0-0.5So		090128-R-R7-0-0.5So	
Sample Date	1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009	
Sample Depth (feet bgs)	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs														
Acenaphthene	**1.90 J**	**1.90 J**	**1.20 J**	**1.20 J**	**3.40 J**	**3.40 J**	1.00 U	10.0 U	**1.60 J**	**1.60 J**	**1.20 J**	**1.20 J**	**1.75 J**	**1.75 J**
Acenaphthylene	1.40 U	9.90 U	1.40 U	10.0 U	**1.60 J**	**1.60 J**	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	9.90 U	1.40 U	10.0 U
Anthracene	**2.70 J**	**2.70 J**	**2.00 J**	**2.00 J**	**4.90 J**	**4.90 J**	**1.50 J**	**1.50 J**	**1.90 J**	**1.90 J**	**2.00 J**	**2.00 J**	**3.30 J**	**3.30 J**
Fluorene	1.70 U	9.90 U	1.70 U	10.0 U	**3.20 J**	**3.20 J**	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U
Naphthalene	1.30 U	9.90 U	**1.60 J**	**1.60 J**	**2.20 J**	**2.20 J**	1.30 U	10.0 U	1.30 U	10.0 U	**1.30 J**	**1.30 J**	**1.80 J**	**1.80 J**
Phenanthrene	**16.0**	**16.0**	**16.0**	**16.0**	**34.0**	**34.0**	**9.10 J**	**9.10 J**	**13.0**	**13.0**	**9.60 J**	**9.60 J**	**16.0**	**16.0**
Total LPAHs (full MDL/MRL)	**25.0 J**	**50.3 J**	**23.9 J**	**40.8 J**	**49.3 J**	**49.3 J**	**16.0 J**	**50.6 J**	**20.9 J**	**46.5 J**	**17.2 J**	**33.9 J**	**26.0 J**	**42.9 J**
Total LPAHs (KM)	**24.5 J**	**27.5 J**	**23.3 J**	**24.0 J**	**49.3 J**	**49.3 J**	**14.7 J**	**31.8 J**	**20.5 J**	**21.8 J**	**16.6 J**	**21.2 J**	**25.7 J**	**27.4 J**
Total LPAHs (KM, capped)	**24.5 J**	**27.5 J**	**23.3 J**	**24.0 J**	**49.3 J**	**49.3 J**	**14.7 J**	**31.8 J**	**20.5 J**	**21.8 J**	**16.6 J**	**21.2 J**	**25.7 J**	**27.4 J**
HPAHs														
Benzo(a)anthracene	**16.0**	**16.0**	**17.0**	**17.0**	**34.0**	**34.0**	**9.90 J**	**9.90 J**	**17.0**	**17.0**	**11.0**	**11.0**	**20.5**	**20.5**
Benzo(a)pyrene	**20.0**	**20.0**	**22.0**	**22.0**	**45.0**	**45.0**	**11.0**	**11.0**	**20.0**	**20.0**	**16.0**	**16.0**	**26.5**	**26.5**
Benzo(b)fluoranthene	**27.0**	**27.0**	**29.0**	**29.0**	**55.0**	**55.0**	**16.0**	**16.0**	**27.0**	**27.0**	**19.0**	**19.0**	**33.0**	**33.0**
Benzo(g,h,i)perylene	**14.0**	**14.0**	**16.0**	**16.0**	**32.0**	**32.0**	**11.0**	**11.0**	**16.0**	**16.0**	**13.0**	**13.0**	**20.5**	**20.5**
Benzo(k)fluoranthene	**8.30 J**	**8.30 J**	**9.70 J**	**9.70 J**	**19.0**	**19.0**	**6.70 J**	**6.70 J**	**9.50 J**	**9.50 J**	**7.70 J**	**7.70 J**	**10.8 J**	**10.8 J**
Chrysene	**20.0**	**20.0**	**23.0**	**23.0**	**45.0**	**45.0**	**13.0**	**13.0**	**22.0**	**22.0**	**17.0**	**17.0**	**25.5**	**25.5**
Dibenz(a,h)anthracene	**4.30 J**	**4.30 J**	2.20 U	10.0 U	**6.90 J**	**6.90 J**	2.20 U	10.0 U	**3.60 J**	**3.60 J**	**3.70 J**	**3.70 J**	**4.90 J**	**4.90 J**
Fluoranthene	**31.0**	**31.0**	**33.0**	**33.0**	**66.0**	**66.0**	**19.0**	**19.0**	**31.0**	**31.0**	**22.0**	**22.0**	**39.5**	**39.5**
Indeno(1,2,3-cd)pyrene	**17.0**	**17.0**	**16.0**	**16.0**	**34.0**	**34.0**	**12.0**	**12.0**	**16.0**	**16.0**	**12.0**	**12.0**	**22.0**	**22.0**
Pyrene	**29.0**	**29.0**	**31.0**	**31.0**	**64.0**	**64.0**	**18.0**	**18.0**	**30.0**	**30.0**	**23.0**	**23.0**	**39.0**	**39.0**
Total HPAHs (full MDL/MRL)	**187 J**	**187 J**	**199 J**	**207 J**	**401 J**	**401 J**	**119 J**	**127 J**	**192 J**	**192 J**	**144 J**	**144 J**	**242 J**	**242 J**
Total HPAHs (KM)	**187 J**	**187 J**	**199 J**	**206 J**	**401 J**	**401 J**	**119 J**	**125 J**	**192 J**	**192 J**	**144 J**	**144 J**	**242 J**	**242 J**
Total HPAHs (KM-capped)	**187 J**	**187 J**	**199 J**	**206 J**	**401 J**	**401 J**	**119 J**	**125 J**	**192 J**	**192 J**	**144 J**	**144 J**	**242 J**	**242 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
NC = Not calculated

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-3
Reference Area Soil (0-0.5 ft bgs) PAH Analysis Results
(Page 2 of 2)

Site ID	R-08		R-09		R-10		R-11		R-12		R-13		R-14	
Sample ID	090128-R-R8-0-0.5So		090128-R-R9-0-0.5So		090128-R-R10-0-0.5So		090128-R-R11-0-0.5So		090128-R-R12-0-0.5So		090128-R-R13-0-0.5So		090128-R-R14-0-0.5So	
Sample Date	1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009		1/28/2009	
Sample Depth (feet bgs)	0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5		0.0-0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs														
Acenaphthene	**1.80 J**	**1.80 J**	1.00 U	10.0 U	**1.50 J**	**1.50 J**	1.00 U	9.90 U	**1.40 J**	**1.40 J**	1.00 U	10.0 U	1.00 U	10.0 U
Acenaphthylene	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	9.90 U	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	10.0 U
Anthracene	**2.20 J**	**2.20 J**	**3.50 J**	**3.50 J**	**2.10 J**	**2.10 J**	1.40 U	9.90 U	**1.70 J**	**1.70 J**	**1.80 J**	**1.80 J**	1.40 U	10.0 U
Fluorene	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Naphthalene	**1.60 J**	**1.60 J**	1.30 U	10.0 U	**1.70 J**	**1.70 J**	1.30 U	9.90 U	1.30 U	10.0 U	1.30 U	10.0 U	1.30 U	10.0 U
Phenanthrene	**18.0**	**18.0**	**13.0**	**13.0**	**11.0**	**11.0**	**5.50 J**	**5.50 J**	**9.60 J**	**9.60 J**	**8.30 J**	**8.30 J**	**5.80 J**	**5.80 J**
Total LPAHs (full MDL/MRL)	**26.7 J**	**43.6 J**	**21.9 J**	**56.5 J**	**19.4 J**	**36.3 J**	**12.3 J**	**55.0 J**	**17.1 J**	**42.7 J**	**15.5 J**	**50.1 J**	**12.6 J**	**55.8 J**
Total LPAHs (KM)	**26.5 J**	**27.3 J**	**20.5 J**	**30.5 J**	**19.2 J**	**19.8 J**	-	-	**16.6 J**	**25.4 J**	**14.1 J**	**30.3 J**	-	-
Total LPAHs (KM, capped)	**26.5 J**	**27.3 J**	**20.5 J**	**30.5 J**	**19.2 J**	**19.8 J**	**12.3 J**	**55.0 J**	**16.6 J**	**25.4 J**	**14.1 J**	**30.3 J**	**12.6 J**	**55.8 J**
HPAHs														
Benzo(a)anthracene	**16.0**	**16.0**	**13.0**	**13.0**	**10.0**	**10.0**	**7.40 J**	**7.40 J**	**12.0**	**12.0**	**8.00 J**	**8.00 J**	**4.60 J**	**4.60 J**
Benzo(a)pyrene	**22.0**	**22.0**	**15.0**	**15.0**	**15.0**	**15.0**	**8.30 J**	**8.30 J**	**16.0**	**16.0**	**10.0**	**10.0**	**7.70 J**	**7.70 J**
Benzo(b)fluoranthene	**27.0**	**27.0**	**22.0**	**22.0**	**18.0**	**18.0**	**13.0**	**13.0**	**20.0**	**20.0**	**12.0**	**12.0**	**9.10 J**	**9.10 J**
Benzo(g,h,i)perylene	**15.0**	**15.0**	**11.0**	**11.0**	**12.0**	**12.0**	**8.20 J**	**8.20 J**	**9.70 J**	**9.70 J**	**7.30 J**	**7.30 J**	**5.80 J**	**5.80 J**
Benzo(k)fluoranthene	**8.70 J**	**8.70 J**	**7.10 J**	**7.10 J**	**6.90 J**	**6.90 J**	**3.40 J**	**3.40 J**	**7.20 J**	**7.20 J**	**4.30 J**	**4.30 J**	**2.70 J**	**2.70 J**
Chrysene	**21.0**	**21.0**	**15.0**	**15.0**	**15.0**	**15.0**	**8.90 J**	**8.90 J**	**15.0**	**15.0**	**10.0**	**10.0**	**6.40 J**	**6.40 J**
Dibenz(a,h)anthracene	**4.40 J**	**4.40 J**	2.20 U	10.0 U	2.20 U	10.0 U	**2.70 J**	**2.70 J**	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	10.0 U
Fluoranthene	**31.0**	**31.0**	**26.0**	**26.0**	**21.0**	**21.0**	**13.0**	**13.0**	**21.0**	**21.0**	**15.0**	**15.0**	**10.0**	**10.0**
Indeno(1,2,3-cd)pyrene	**17.0**	**17.0**	**12.0**	**12.0**	**5.20 J**	**5.20 J**	**8.20 J**	**8.20 J**	**12.0**	**12.0**	**7.60 J**	**7.60 J**	**6.00 J**	**6.00 J**
Pyrene	**31.0**	**31.0**	**26.0**	**26.0**	**21.0**	**21.0**	**15.0**	**15.0**	**24.0**	**24.0**	**14.0**	**14.0**	**10.0**	**10.0**
Total HPAHs (full MDL/MRL)	**193 J**	**193 J**	**149 J**	**157 J**	**126 J**	**134 J**	**88.1 J**	**88.1 J**	**139 J**	**147 J**	**90.4 J**	**98.2 J**	**64.5 J**	**72.3 J**
Total HPAHs (KM)	**193 J**	**193 J**	**149 J**	**154 J**	**126 J**	**130 J**	**88.1 J**	**88.1 J**	**139 J**	**145 J**	**90.4 J**	**95.0 J**	**64.5 J**	**68.3 J**
Total HPAHs (KM-capped)	**193 J**	**193 J**	**149 J**	**154 J**	**126 J**	**130 J**	**88.1 J**	**88.1 J**	**139 J**	**145 J**	**90.4 J**	**95.0 J**	**64.5 J**	**68.3 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
NC = Not calculated

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-4
Landfill AOPC Soil (0-10 ft bgs) PCB Aroclor Analysis Results
(Page 1 of 5)

Site ID	BIL01SSI		BIL02SSI		BIL03SSI		BIL04SSI		BIL05SSI		BIL06SSI*		BIL09SSI		BIL10SSI		BIL11SSI	
Sample ID	990920BIL01SS		990920BIL02SS		990920BIL03SS		990920BIL04SS		990920BIL05SS		990920BIL06SS		990920BIL09SS		990920BIL10SS		990921BIL11SS	
Sample Date	9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/20/1999		9/21/1999	
Sample Depth (feet bgs)	0-0.33		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1221	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1232	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1242	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1248	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1254	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	35.0 UJ	35.0 UJ	34.0 UJ	34.0 UJ	36.0 UJ	36.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Aroclor 1260	**58.0 J**	**58.0 J**	**420 J**	**420 J**	**48.0 J**	**48.0 J**	**660 J**	**660 J**	**160 J**	**160 J**	**81.5 J**	**81.5 J**	35.0 UJ	35.0 UJ	35.0 UJ	35.0 UJ	37.0 UJ	37.0 UJ
Total PCBs as Aroclors [1]	**128 J**	**128 J**	**488 J**	**488 J**	**118 J**	**118 J**	**728 J**	**728 J**	**232 J**	**232 J**	**152 J**	**152 J**	105 UJ	105 UJ	105 UJ	105 UJ	111 UJ	111 UJ

Notes:
[1] Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-4
Landfill AOPC Soil (0-10 ft bgs) PCB Aroclor Analysis Results
(Page 2 of 5)

Site ID	BIL12SSI		BIL13SSI		BIL01TPG		BIL02TPG		BIL03TPG		BIL04TPG		BIL05		BIL06		BIL07	
Sample ID	990921BIL12SS		000413BIL13SS		011015BIL01TPG		011015BIL02TPG		011015BIL03TPG		011015BIL04TPG		011016BIL05SS		011016BIL06SS		011016BIL07SS	
Sample Date	9/21/1999		4/13/2000		10/15/2001		10/15/2001		10/15/2001		10/15/2001		10/16/2001		10/16/2001		10/16/2001	
Sample Depth (feet bgs)	0-0.5		0-0.5		0-10		0-10		0-10		0-10		8.0		8.0		5.0	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	1.49 U	13.6 U	1.30 U	11.8 U	1.35 U	12.3 U	1.25 U	11.3 U	1.23 U	11.2 U	1.18 U	10.8 U	1.17 U	10.6 U
Aroclor 1221	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	6.39 U	13.6 U	5.55 U	11.8 U	5.78 U	12.3 U	5.34 U	11.3 U	5.28 U	11.2 U	5.07 U	10.8 U	5.02 U	10.6 U
Aroclor 1232	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	5.10 U	13.6 U	4.43 U	11.8 U	4.61 U	12.3 U	4.26 U	11.3 U	4.21 U	11.2 U	4.04 U	10.8 U	4.00 U	10.6 U
Aroclor 1242	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	2.73 U	13.6 U	2.37 U	11.8 U	2.47 U	12.3 U	2.28 U	11.3 U	2.25 U	11.2 U	2.16 U	10.8 U	2.14 U	10.6 U
Aroclor 1248	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	**968**	**968**	5.89 U	11.8 U	**61.5**	**61.5**	5.66 U	11.3 U	5.60 U	11.2 U	5.38 U	10.8 U	5.32 U	10.6 U
Aroclor 1254	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	2.12 U	13.6 U	1.84 U	11.8 U	1.91 U	12.3 U	1.77 U	11.3 U	1.75 U	11.2 U	**26.7**	**26.7**	1.66 U	10.6 U
Aroclor 1260	35.0 UJ	35.0 UJ	50.0 UJ	50.0 UJ	**26.3**	**26.3**	**22.2**	**22.2**	**87.6**	**87.6**	**12.5**	**12.5**	**10.2 J**	**10.2 J**	**12.8**	**12.8**	**36.7**	**36.7**
Total PCBs as Aroclors [1]	105 UJ	105 UJ	150 UJ	150 UJ	**996 J**	**1007.9 J**	**29.9 J**	**45.8 J**	**151.01 J**	**161 J**	**19.9 J**	**35.1 J**	**17.6 J**	**32.6 J**	**44.9 J**	**50.3 J**	**43.7 J**	**57.9 J**

Notes:

[1] Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram (µg/kg), dry weight

Table H-4
Landfill AOPC Soil (0-10 ft bgs) PCB Aroclor Analysis Results
(Page 3 of 5)

Site ID	BIL08		BIL09		BIL10		BIL11*		BIL13		BIL14		BIL15		BIL16		BIL17	
Sample ID	011016BIL08SS		011016BIL09SS		011016BIL10SS		011016BIL11SS		011016BIL13SS		011016BIL14SS		011016BIL15SS		011016BIL16SS		011016BIL17SS	
Sample Date	10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001	
Sample Depth (feet bgs)	5.0		6.0		5.0		8.0		4.0		6.0		8.0		4.0		1.0	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.18 U	10.7 U	1.27 U	11.5 U	1.14 U	10.4 U	1.32 U	12.0 U	1.23 U	11.2 U	1.20 U	10.9 U	1.21 U	11.0 U	1.16 U	10.5 U	1.36 U	12.4 U
Aroclor 1221	5.06 U	10.7 U	5.43 U	11.5 U	4.88 U	10.4 U	5.66 U	12.0 U	5.27 U	11.2 U	5.13 U	10.9 U	5.16 U	11.0 U	4.97 U	10.5 U	5.83 U	12.4 U
Aroclor 1232	4.04 U	10.7 U	4.33 U	11.5 U	3.90 U	10.4 U	4.51 U	12.0 U	4.21 U	11.2 U	4.10 U	10.9 U	4.12 U	11.0 U	3.97 U	10.5 U	4.65 U	12.4 U
Aroclor 1242	2.16 U	10.7 U	2.32 U	11.5 U	2.08 U	10.4 U	2.41 U	12.0 U	2.25 U	11.2 U	2.19 U	10.9 U	2.20 U	11.0 U	2.12 U	10.5 U	2.49 U	12.4 U
Aroclor 1248	5.37 U	10.7 U	5.76 U	11.5 U	5.18 U	10.4 U	6.00 U	12.0 U	5.60 U	11.2 U	5.45 U	10.9 U	5.48 U	11.0 U	5.27 U	10.5 U	6.19 U	12.4 U
Aroclor 1254	1.68 U	10.7 U	1.80 U	11.5 U	1.62 U	10.4 U	**55.3**	**55.3**	**499**	**499**	1.70 U	10.9 U	1.71 U	11.0 U	1.65 U	10.5 U	**78.6**	**78.6**
Aroclor 1260	1.68 U	10.7 U	**55.3**	**55.3**	1.62 U	10.4 U	**39.8**	**39.8**	**158**	**158**	**15.0**	**15.0**	**52.4**	**52.4**	**445**	**445**	**68.0**	**68.0**
Total PCBs as Aroclors [1]	8.73 U	32.1 U	**62.9 J**	**78.3 J**	8.42 U	31.2 U	**101 J**	**107 J**	**663 J**	**668 J**	**22.2 J**	**36.8 J**	**59.6 J**	**74.4 J**	**452 J**	**466 J**	**153 J**	**159 J**

Notes:

[1] Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram (µg/kg), dry weight

Table H-4
Landfill AOPC Soil (0-10 ft bgs) PCB Aroclor Analysis Results
(Page 4 of 5)

Site ID	BIL18		BIL19		BIL20		BIL21		BIL22		BIL28TPM		BIL28TPM		BIL01USE		BIL02USE	
Sample ID	011016BIL18SS		011016BIL19SS		011016BIL20SS		011016BIL21SS		011016BIL22SS		011017BIL28TPM		011017BIL28TPM		070410BIL01SS		070410BIL02SS	
Sample Date	10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/16/2001		10/17/2001		10/17/2001		4/10/2007		4/10/2007	
Sample Depth (feet bgs)	2.0		5.0		8.0		5.0		3.0		0-10		0-10		0.5		0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.16 U	10.5 U	1.16 U	10.6 U	1.31 U	11.9 U	1.10 U	10.0 U	1.14 U	10.4 U	1.39 U	12.7 U	1.39 U	12.7 U	3.90 U	3.90 U	3.90 U	3.90 U
Aroclor 1221	4.96 U	10.5 U	4.98 U	10.6 U	5.62 U	11.9 U	4.72 U	10.0 U	4.89 U	10.4 U	5.96 U	12.7 U	5.96 U	12.7 U	3.90 U	3.90 U	3.90 U	3.90 U
Aroclor 1232	3.96 U	10.5 U	3.97 U	10.6 U	4.49 U	11.9 U	3.77 U	10.0 U	3.90 U	10.4 U	4.76 U	12.7 U	4.76 U	12.7 U	3.90 U	3.90 U	3.90 U	3.90 U
Aroclor 1242	2.12 U	10.5 U	2.12 U	10.6 U	2.40 U	11.9 U	2.01 U	10.0 U	2.09 U	10.4 U	2.54 U	12.7 U	2.54 U	12.7 U	3.90 U	3.90 U	3.90 U	3.90 U
Aroclor 1248	5.27 U	10.5 U	5.28 U	10.6 U	5.97 U	11.9 U	5.01 U	10.0 U	5.19 U	10.4 U	6.33 U	12.7 U	6.33 U	12.7 U	3.90 U	3.90 U	3.90 U	3.90 U
Aroclor 1254	**48.4**	**48.4**	**54.9**	**54.9**	1.86 U	11.9 U	**37.2**	**37.2**	**104**	**104**	1.98 U	12.7 U	1.98 U	12.7 U	**26.0**	**26.0**	**27.0**	**27.0**
Aroclor 1260	**39.0**	**39.0**	**74.6**	**74.6**	**2.05 J**	**2.05 J**	**41.8**	**41.8**	**91.2**	**91.2**	**46.5**	**46.5**	**46.5**	**46.5**	**50.0**	**50.0**	**24.0**	**24.0**
Total PCBs as Aroclors [1]	**92.7 J**	**97.9 J**	**135 J**	**140 J**	**9.88 J**	**25.9 J**	**84.0 J**	**89.0 J**	**200 J**	**206 J**	**54.8 J**	**71.9 J**	**54.8 J**	**71.9 J**	**79.9 J**	**79.9 J**	**54.9 J**	**54.9 J**

Notes:
[1] Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-4
Landfill AOPC Soil (0-10 ft bgs) PCB Aroclor Analysis Results
(Page 5 of 5)

Site ID	BIL03USE		BIL04USE		BIL05USE		BIL06USE		BIL07USE		BIL08USE		BIL09USE	
Sample ID	070410BIL03SS		070410BIL04SS		070410BIL05SS		070410BIL06SS		070410BIL07SS		070410BIL08SS		070410BIL09SS	
Sample Date	4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007		4/10/2007	
Sample Depth (feet bgs)	0.5		0.5		0.5		0.5		0.5		0.5		0.5	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.80 U	3.80 U
Aroclor 1221	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.80 U	3.80 U
Aroclor 1232	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.80 U	3.80 U
Aroclor 1242	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.80 U	3.80 U
Aroclor 1248	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.90 U	3.90 U	3.90 U	3.90 U	4.00 U	4.00 U	3.80 U	3.80 U
Aroclor 1254	**19.0**	**19.0**	**8.30**	**8.30**	4.00 U	4.00 U	19.0 U	19.0 U	**49.0**	**49.0**	**24.0**	**24.0**	**5.50**	**5.50**
Aroclor 1260	**31.0 J**	**31.0 J**	**33.0**	**33.0**	**12.0**	**12.0**	**92.0**	**92.0**	**74.0**	**74.0**	**42.0**	**42.0**	**19.0**	**19.0**
Total PCBs as Aroclors [1]	**53.9 J**	**53.9 J**	**45.2 J**	**45.2 J**	**20.0 J**	**20.0 J**	**115 J**	**115 J**	**127 J**	**127 J**	**70.0 J**	**70.0 J**	**28.3 J**	**28.3 J**

Notes:
[1] Only Aroclors 1248, 1254, and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Landfill AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-5
Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results

Site ID	DSA01		DSA02		DSA03		DSA04		DSA05		DSA06		DSA07		DSA08		DSA09		DSA10	
Sample ID	011204DSA01SS		011204DSA02SS		011204DSA03SS		011204DSA04SS		011204DSA05SS		011204DSA06SS		011204DSA07SS		011204DSA08SS		011204DSA09SS		011204DSA10SS	
Sample Date	12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001	
Sample Depth (feet bgs)	0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0		0.0	
Media	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.20 U	10.9 U	1.09 U	9.88 U	1.22 U	11.1 U	1.24 U	11.2 U	1.08 U	9.82 U	1.22 U	11.1 U	1.14 U	10.3 U	1.09 U	9.93 U	1.22 U	11.1 U	1.19 U	10.8 U
Aroclor 1221	5.13 U	10.9 U	4.66 U	9.88 U	5.23 U	11.1 U	5.29 U	11.2 U	4.63 U	9.82 U	5.22 U	11.1 U	4.87 U	10.3 U	4.68 U	9.93 U	5.21 U	11.1 U	5.10 U	10.8 U
Aroclor 1232	4.09 U	10.9 U	3.72 U	9.88 U	4.18 U	11.1 U	4.22 U	11.2 U	3.69 U	9.82 U	4.17 U	11.1 U	3.89 U	10.3 U	3.73 U	9.93 U	4.16 U	11.1 U	4.07 U	10.8 U
Aroclor 1242	2.19 U	10.9 U	1.99 U	9.88 U	2.23 U	11.1 U	2.26 U	11.2 U	1.97 U	9.82 U	2.23 U	11.1 U	2.08 U	10.3 U	2.00 U	9.93 U	2.22 U	11.1 U	2.17 U	10.8 U
Aroclor 1248	5.44 U	10.9 U	4.94 U	9.88 U	5.55 U	11.1 U	5.62 U	11.2 U	4.91 U	9.82 U	5.54 U	11.1 U	5.17 U	10.3 U	4.96 U	9.93 U	5.53 U	11.1 U	5.41 U	10.8 U
Aroclor 1254	1.70 U	10.9 U	1.54 U	9.88 U	1.73 U	11.1 U	1.75 U	11.2 U	1.53 U	9.82 U	1.73 U	11.1 U	1.61 U	10.3 U	1.55 U	9.93 U	1.73 U	11.1 U	1.69 U	10.8 U
Aroclor 1260	**2.00 J**	**2.00 J**	1.54 U	9.88 U	**2.23 J**	**2.23 J**	**2.08 J**	**2.08 J**	**7.79 J**	**7.79 J**	**16.8**	**16.8**	1.61 U	10.3 U	1.55 U	9.93 U	**2.12 J**	**2.12 J**	**2.48 J**	**2.48 J**
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors [1]	**3.70 J**	**12.9 J**	3.08 U	19.8 U	**3.96 J**	**13.3 J**	**3.83 J**	**13.3 J**	**9.32 J**	**17.6 J**	**18.5 J**	**27.9 J**	3.22 U	20.6 U	3.10 U	19.9 U	**3.85 J**	**13.2 J**	**4.17 J**	**13.3 J**

Notes:
[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-5
Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results
(Page 2 of 8)

Site ID	DSA11*		DSA12*		SBB01*		SBB03		SBB04		SBB05		SBB06		SBB07*		SBB09		SBB10	
Sample ID	011204DSA11SS		011204DSA12SS		011205SBB01SBG		011205SBB03SBG		011205SBB04SBG		011205SBB05SBG		011205SBB06SBG		011205SBB07SBG		011205SBB09SBG		011205SBB10SBG	
Sample Date	12/4/2001		12/4/2001		12/5/2001		12/5/2001		12/5/2001		12/5/2001		12/5/2001		12/5/2001		12/5/2001		12/5/2001	
Sample Depth (feet bgs)	0.0		0.0		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5	
Media	Soil		Soil		Sandblast Grit		Sandblast Grit		Sandblast Grit		Sandblast Grit		Sandblast Grit		Sandblast Grit		Sandblast Grit		Sandblast Grit	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.21 U	11.0 U	1.25 U	11.4 U	1.28 U	11.7 U	1.23 U	11.2 U	1.19 U	10.8 U	1.29 U	11.7 U	1.25 U	11.4 U	1.43 U	13.0 U	1.22 U	11.1 U	1.18 U	10.7 U
Aroclor 1221	5.19 U	11.0 U	5.51 U	11.4 U	5.50 U	11.7 U	5.26 U	11.2 U	5.08 U	10.8 U	5.53 U	11.7 U	5.37 U	11.4 U	6.14 U	13.0 U	5.23 U	11.1 U	5.04 U	10.7 U
Aroclor 1232	4.15 U	11.0 U	4.28 U	11.4 U	4.39 U	11.7 U	4.20 U	11.2 U	4.06 U	10.8 U	4.42 U	11.7 U	4.29 U	11.4 U	4.90 U	13.0 U	4.17 U	11.1 U	4.02 U	10.7 U
Aroclor 1242	2.22 U	11.0 U	2.29 U	11.4 U	2.35 U	11.7 U	2.25 U	11.2 U	2.17 U	10.8 U	2.36 U	11.7 U	2.29 U	11.4 U	2.62 U	13.0 U	2.23 U	11.1 U	2.15 U	10.7 U
Aroclor 1248	5.51 U	11.0 U	5.70 U	11.4 U	5.84 U	11.7 U	5.59 U	11.2 U	5.40 U	10.8 U	5.87 U	11.7 U	5.70 U	11.4 U	6.52 U	13.0 U	5.55 U	11.1 U	5.35 U	10.7 U
Aroclor 1254	1.72 U	11.0 U	1.78 U	11.4 U	1.82 U	11.7 U	1.74 U	11.2 U	1.68 U	10.8 U	1.83 U	11.7 U	1.78 U	11.4 U	2.03 U	13.0 U	1.73 U	11.1 U	1.67 U	10.7 U
Aroclor 1260	**21.0**	**21.0**	**8.30 J**	**8.30 J**	**6.44 J**	**6.44 J**	**30.6**	**30.6**	**17.7**	**17.7**	**23.7**	**23.7**	**15.5**	**15.5**	**5.78 J**	**5.78 J**	**81.8**	**81.8**	**26.0**	**26.0**
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors [1]	**22.7 J**	**32.0 J**	**10.1 J**	**19.7 J**	**8.26 J**	**18.1 J**	**32.3 J**	**41.8 J**	**19.4 J**	**28.5 J**	**25.5 J**	**35.4 J**	**17.3 J**	**26.9 J**	**7.81 J**	**18.8 J**	**83.5 J**	**92.9 J**	**27.7 J**	**36.7 J**

Notes:
[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-5
Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results
(Page 3 of 8)

Site ID	SBB11		SBB12		SBB13		SBB14		SBB15		SBB15		SBB16		SBB16		SBB17		SBB17	
Sample ID	011205SBB11SBG		011205SBB12SBG		011205SBB13SBG		011205SBB14SBG		011205SBB15SBG		011205SBB21SS		011205SBB16SBG		011206SBB22ss		011205SBB17SBG		011205SBB19SS	
Sample Date	12/5/2001		12/5/2001		12/5/2001		12/5/2001		12/5/2001		12/5/2001		12/5/2001		12/6/2001		12/5/2001		12/5/2001	
Sample Depth (feet bgs)	0-0.5		0-0.5		2.0		2.0		0-0.5		1.0		0-0.5		1.5		0-0.5		3.0	
Media	Sandblast Grit		Sandblast Grit		Soil		Sandblast Grit		Sandblast Grit		Soil		Sandblast Grit		Soil		Sandblast Grit		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.17 U	10.6 U	1.24 U	11.3 U	1.41 U	12.8 U	1.24 U	11.3 U	1.09 U	9.90 U	1.22 U	11.1 U	1.18 U	10.8 U	1.33 U	12.1 U	1.23 U	11.2 U	1.38 U	12.5 U
Aroclor 1221	5.02 U	10.6 U	5.32 U	11.3 U	6.04 U	12.8 U	5.32 U	11.3 U	4.66 U	9.90 U	5.21 U	11.1 U	5.07 U	10.8 U	5.70 U	12.1 U	5.28 U	11.2 U	5.89 U	12.5 U
Aroclor 1232	4.00 U	10.6 U	4.24 U	11.3 U	4.82 U	12.8 U	4.24 U	11.3 U	3.72 U	9.90 U	4.16 U	11.1 U	4.05 U	10.8 U	4.55 U	12.1 U	4.21 U	11.2 U	4.70 U	12.5 U
Aroclor 1242	2.14 U	10.6 U	2.27 U	11.3 U	2.58 U	12.8 U	2.27 U	11.3 U	1.99 U	9.90 U	2.23 U	11.1 U	2.16 U	10.8 U	2.43 U	12.1 U	2.25 U	11.2 U	2.51 U	12.5 U
Aroclor 1248	5.32 U	10.6 U	5.64 U	11.3 U	6.41 U	12.8 U	5.64 U	11.3 U	4.95 U	9.90 U	5.54 U	11.1 U	5.39 U	10.8 U	6.05 U	12.1 U	5.60 U	11.2 U	6.26 U	12.5 U
Aroclor 1254	1.66 U	10.6 U	1.76 U	11.3 U	2.00 U	12.8 U	1.76 U	11.3 U	1.54 U	9.90 U	1.73 U	11.1 U	1.68 U	10.8 U	1.89 U	12.1 U	1.75 U	11.2 U	1.95 U	12.5 U
Aroclor 1260	**52.1**	**52.1**	**202**	**202**	2.00 U	12.8 U	**4.95 J**	**4.95 J**	**64.0**	**64.0**	**20.8**	**20.8**	**193**	**193**	**13.4**	**13.4**	**18.7**	**18.7**	**4.17 J**	**4.17 J**
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors [1]	**53.8 J**	**62.7 J**	**204 J**	**213 J**	4.00 U	25.6 U	**6.71 J**	**16.3 J**	**65.5 J**	**73.9 J**	**22.5 J**	**31.9 J**	**195 J**	**204 J**	**15.3 J**	**25.5 J**	**20.5 J**	**29.9 J**	**6.12 J**	**16.7 J**

Notes:
[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-5
Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results
(Page 4 of 8)

Site ID	SBB18		SBB18		SBB23		SBB24		TRA01		TRA01		TRA02		TRA03		TRA03		TRA04	
Sample ID	011205SBB18SBG		011205SBB20SS		011206SBB23SBG		011206SBB24SBG		011204TRA01SS		011204TRA14SS		011204TRA02SS		011204TRA03SS		011204TRA13SS		011204TRA04SS	
Sample Date	12/5/2001		12/5/2001		12/6/2001		12/6/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001		12/4/2001	
Sample Depth (feet bgs)	0-0.5		2.5		0-0.5		0-0.5		0-1		3.0		0-1		0-1		1.8		0-1	
Media	Sandblast Grit		Soil		Sandblast Grit		Sandblast Grit		Soil		Soil		Soil		Soil		Soil		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.20 U	10.9 U	1.45 U	13.2 U	1.32 U	12.0 U	1.28 U	11.6 U	1.20 U	10.9 U	1.38 U	12.6 U	1.16 U	10.6 U	1.22 U	11.1 U	1.28 U	11.7 U	1.25 U	11.4 U
Aroclor 1221	5.15 U	10.9 U	6.21 U	13.2 U	5.67 U	12.0 U	5.49 U	11.6 U	5.16 U	10.9 U	5.91 U	12.6 U	4.98 U	10.6 U	5.24 U	11.1 U	5.49 U	11.7 U	5.37 U	11.4 U
Aroclor 1232	4.11 U	10.9 U	4.95 U	13.2 U	4.53 U	12.0 U	4.38 U	11.6 U	4.12 U	10.9 U	4.72 U	12.6 U	3.98 U	10.6 U	4.18 U	11.1 U	4.39 U	11.7 U	4.28 U	11.4 U
Aroclor 1242	2.20 U	10.9 U	2.65 U	13.2 U	2.42 U	12.0 U	2.34 U	11.6 U	2.20 U	10.9 U	2.52 U	12.6 U	2.13 U	10.6 U	2.24 U	11.1 U	2.34 U	11.7 U	2.29 U	11.4 U
Aroclor 1248	5.46 U	10.9 U	6.59 U	13.2 U	6.02 U	12.0 U	5.82 U	11.6 U	5.47 U	10.9 U	6.28 U	12.6 U	5.29 U	10.6 U	5.57 U	11.1 U	5.83 U	11.7 U	5.70 U	11.4 U
Aroclor 1254	1.70 U	10.9 U	2.06 U	13.2 U	1.88 U	12.0 U	1.82 U	11.6 U	1.71 U	10.9 U	1.96 U	12.6 U	1.65 U	10.6 U	1.74 U	11.1 U	1.82 U	11.7 U	1.78 U	11.4 U
Aroclor 1260	**17.4**	**17.4**	2.06 U	13.2 U	**7.09 J**	**7.09 J**	**6.95 J**	**6.95 J**	**23.5**	**23.5**	1.96 U	12.6 U	**42.2**	**42.2**	**43.2**	**43.2**	**2.64 J**	**2.64 J**	**98.8**	**98.8**
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors [1]	**19.1 J**	**28.3 J**	4.12 U	26.4 U	**8.97 J**	**19.1 J**	**8.77 J**	**18.6 J**	**25.2 J**	**34.4 J**	3.92 U	25.2 U	**43.9 J**	**52.8 J**	**44.9 J**	**54.3 J**	**4.46 J**	**14.3 J**	**101 J**	**110 J**

Notes:
[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-5
Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results
(Page 5 of 8)

Site ID	TRA05		TRA05		TRA06*		TRA07		TRA07		TRA09*		TRA11		TRA12		DP5		DP6	
Sample ID	011204TRA05SS		011206TRA16ss		011204TRA06SS		011204TRA07SS		011206TRA15ss		011204TRA09SS		011204TRA11SS		011204TRA12SS		041116SGA02SS		041117SGA04SS	
Sample Date	12/4/2001		12/6/2001		12/4/2001		12/4/2001		12/6/2001		12/4/2001		12/4/2001		12/4/2001		11/16/2004		11/17/2004	
Sample Depth (feet bgs)	0-1		2.5		0-1		0-1		2.0		0-1		0-1		0-1		21-23		15-17	
Media	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.25 U	11.3 U	1.28 U	11.6 U	1.28 U	11.7 U	1.31 U	11.9 U	1.24 U	11.3 U	1.32 U	12.0 U	1.27 U	11.5 U	1.27 U	11.6 U	2.61 U	8.84 U	2.85 U	9.67 U
Aroclor 1221	5.34 U	11.3 U	5.47 U	11.6 U	5.49 U	11.7 U	5.61 U	11.9 U	5.33 U	11.3 U	5.67 U	12.0 U	5.42 U	11.5 U	5.44 U	11.6 U	2.61 U	8.84 U	2.85 U	9.67 U
Aroclor 1232	4.26 U	11.3 U	4.36 U	11.6 U	4.39 U	11.7 U	4.48 U	11.9 U	4.25 U	11.3 U	4.52 U	12.0 U	4.33 U	11.5 U	4.35 U	11.6 U	2.61 U	8.84 U	2.85 U	9.67 U
Aroclor 1242	2.28 U	11.3 U	2.33 U	11.6 U	2.22 U	11.1 U	2.39 U	11.9 U	2.27 U	11.3 U	2.42 U	12.0 U	2.31 U	11.5 U	2.32 U	11.6 U	2.61 U	8.84 U	2.85 U	9.67 U
Aroclor 1248	5.67 U	11.3 U	5.80 U	11.6 U	5.83 U	11.7 U	5.95 U	11.9 U	5.66 U	11.3 U	6.02 U	12.0 U	5.75 U	11.5 U	5.78 U	11.6 U	2.61 U	8.84 U	2.85 U	9.67 U
Aroclor 1254	1.77 U	11.3 U	1.81 U	11.6 U	1.82 U	11.7 U	1.86 U	11.9 U	1.76 U	11.3 U	1.88 U	12.0 U	1.80 U	11.5 U	1.80 U	11.6 U	1.43 U	8.84 U	1.57 U	9.67 U
Aroclor 1260	**121**	**121**	1.81 U	11.6 U	**65.8**	**65.8**	**21.7**	**21.7**	**4.42 J**	**4.42 J**	**26.8**	**26.8**	**282**	**282**	**96.2**	**96.2**	1.43 U	8.84 U	1.57 U	9.67 U
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors [1]	**123 J**	**132 J**	3.62 U	23.2 U	**67.6 J**	**77.5 J**	**23.6 J**	**33.6 J**	**6.18 J**	**15.7 J**	**28.7 J**	**38.8 J**	**284 J**	**294 J**	**98.0 J**	**108 J**	2.86 U	17.7 U	3.14 U	19.3 U

Notes:
[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-5
Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results
(Page 6 of 8)

Site ID	DP7*		DP8		DP9		HA1*		HA2		HA3		HA9		HA10		HA11		HA11	
Sample ID	041117SGA05SS		041117SGA08SS		041117SGA09SS		041122SGA14SS		041122SGA16SS		041122SGA17SS		041123SGA28SS		041123SGA29SS		041123SGA30SS		041123SGA31SS	
Sample Date	11/17/2004		11/17/2004		11/17/2004		11/22/2004		11/22/2004		11/22/2004		11/23/2004		11/23/2004		11/23/2004		11/23/2004	
Sample Depth (feet bgs)	14-16.5		13-15		14-17		0.5		0.5		0.5		0.5		0.5		1.0		3.0	
Media	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.76 U	9.34 U	2.65 U	8.98 U	3.00 U	10.2 U	3.41 U	11.6 U	3.01 U	10.2 U	3.23 U	10.9 U	3.15 U	10.7 U	2.90 U	9.83 U	3.48 U	11.8 U	3.47 U	11.8 U
Aroclor 1221	2.76 U	9.34 U	2.65 U	8.98 U	3.00 U	10.2 U	3.41 U	11.6 U	3.01 U	10.2 U	3.23 U	10.9 U	3.15 U	10.7 U	2.90 U	9.83 U	3.48 U	11.8 U	3.47 U	11.8 U
Aroclor 1232	2.76 U	9.34 U	2.65 U	8.98 U	3.00 U	10.2 U	3.41 U	11.6 U	3.01 U	10.2 U	3.23 U	10.9 U	3.15 U	10.7 U	2.90 U	9.83 U	3.48 U	11.8 U	3.47 U	11.8 U
Aroclor 1242	2.76 U	9.34 U	2.65 U	8.98 U	3.00 U	10.2 U	3.41 U	11.6 U	3.01 U	10.2 U	3.23 U	10.9 U	3.15 U	10.7 U	2.90 U	9.83 U	3.48 U	11.8 U	3.47 U	11.8 U
Aroclor 1248	2.76 U	9.34 U	2.65 U	8.98 U	3.00 U	10.2 U	3.41 U	11.6 U	3.01 U	10.2 U	3.23 U	10.9 U	3.15 U	10.7 U	2.90 U	9.83 U	3.48 U	11.8 U	3.47 U	11.8 U
Aroclor 1254	1.51 U	9.34 U	1.45 U	8.98 U	1.65 U	10.2 U	1.87 U	11.6 U	1.65 U	10.2 U	1.77 U	10.9 U	1.73 U	10.7 U	1.59 U	9.83 U	1.91 U	11.8 U	1.91 U	11.8 U
Aroclor 1260	1.51 U	9.34 U	1.45 U	8.98 U	1.65 U	10.2 U	**8.54 J**	**8.54 J**	**4.11 J**	**4.11 J**	**26.1**	**26.1**	**11.9**	**11.9**	1.59 U	9.83 U	**6.40 J**	**6.40 J**	1.91 U	11.8 U
Aroclor 1262	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor 1268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PCBs as Aroclors [1]	3.02 U	18.7 U	2.90 U	18.0 U	3.30 U	20.4 U	**10.4 J**	**20.1 J**	**5.76 J**	**14.3 J**	**27.9 J**	**37.0 J**	**13.6 J**	**22.6 J**	3.18 U	19.7 U	**8.31 J**	**18.2 J**	3.82 U	23.6 U

Notes:
[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-5
Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results
(Page 1 of 8)

Site ID	LD-01		LD-01		LD-02		LD-02		LD-03		LD-03		LD-04		LD-04		LD-05		LD-05	
Sample ID	090320-LD-1So-0-1		090320-LD-1So-1-3		090320-LD-2So-0-1		090320-LD-2So-1-3		090320-LD-3So-0-1		090320-LD-3So-1-3		090320-LD-4So-0-1		090320-LD-4So-1-3		090320-LD-5So-0-1		090320-LD-5So-1-3	
Sample Date	3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009		3/20/2009	
Sample Depth (feet bgs)	0-1		1-3		0-1		1-3		0-1		1-3		0-1		1-3		0-1		1-3	
Media	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Aroclor 1221	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	11.0 U	98.0 U	2.10 U	20.0 U
Aroclor 1232	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Aroclor 1242	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Aroclor 1248	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Aroclor 1254	**700**	**700**	**23.0**	**23.0**	**280**	**280**	**16.0**	**16.0**	**160**	**160**	**11.0**	**11.0**	2.10 U	10.0 U	2.10 U	9.90 U	**1,500**	**1,500**	**230**	**230**
Aroclor 1260	**690**	**690**	**22.0**	**22.0**	**130**	**130**	**18.0**	**18.0**	**160**	**160**	**11.0**	**11.0**	2.10 U	10.0 U	2.10 U	9.90 U	**480**	**480**	**130**	**130**
Aroclor 1262	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Aroclor 1268	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.80 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	9.90 U	11.0 U	49.0 U	2.10 U	9.70 U
Total PCBs as Aroclors [1]	**1390**	**1390**	**45.0**	**45.0**	**410**	**410**	**34.0**	**34.0**	**320**	**320**	**22.0**	**22.0**	4.20 U	20.0 U	4.20 U	19.8 U	**1980**	**1980**	**360**	**360**

Notes:
[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-5
Sandblast Area AOPC Soil (0 to >10 ft bgs) PCB Aroclor Analysis Results

Site ID	LD-06		LD-07		LD-08		LD-09		LD-10		LD-11*		SB-EUA*		SB-EUB	
Sample ID	090319-LD-6-So		090319-LD-7-So		090319-LD-8-So		090319-LD-9-So		090319-LD-10-So		090319-LD-11-So		090318-SB-EUA-So		090318-SB-EUB-So	
Sample Date	3/19/2009		3/19/2009		3/19/2009		3/19/2009		3/19/2009		3/19/2009		3/18/2009		3/18/2009	
Sample Depth (feet bgs)	0-0.17		0-0.17		0-0.17		0-0.17		0-0.17		0-0.17		0-0.17		0-0.17	
Media	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1221	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	2.10 U	20.0 U	11.0 U	100 U	2.10 U	20.0 U	2.10 U	13.0 U	2.10 U	14.0 U
Aroclor 1232	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1242	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1248	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1254	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	**1,700**	**1,700**	**475**	**475**	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1260	**50.0**	**50.0**	**660 J**	**660 J**	2.10 U	10.0 U	**7.50 J**	**7.50 J**	**440**	**440**	**215**	**215**	**27.0**	**27.0**	**67.0**	**67.0**
Aroclor 1262	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Aroclor 1268	2.10 U	9.90 U	2.10 U	10.0 U	2.10 U	10.0 U	2.10 U	10.0 U	11.0 U	50.0 U	2.10 U	9.90 U	2.10 U	6.30 U	2.10 U	6.60 U
Total PCBs as Aroclors [1]	**52.1 J**	**59.9 J**	**662 J**	**670 J**	4.20 U	20.0 U	**9.60 J**	**17.5 J**	**2140**	**2140**	**690**	**690**	**29.1 J**	**33.3 J**	**69.1 J**	**73.6 J**

Notes:
[1] Only Aroclors 1254 and 1260 were included in summing Total PCBs as Aroclors because all other aroclors were undected in Sandlbast Area AOPC soil samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-6
Bulb Slope AOPC Soil (0-1 ft bgs) PCB Aroclor Analysis Results
(Page 1 of 2)

Site ID	AREA A04		AREA A05		AREA B06		AREA B07		AREA C01		AREA C02*	
Sample ID	021120BSA04SS		021120BSA05SS		021120BSB06SS		021120BSB07SS		021120BSC01SS		021120BSC02SS	
Sample Date	11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002		11/20/2002	
Sample Depth (feet bgs)	0.17-0.33		0.17-0.33		0.17-0.33		0.17-0.33		0.08-0.25		0.17-0.33	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	20.0 U	20.0 U	19.0 U	19.0 U	19.0 U	19.0 U	20.0 U	20.0 U	20.0 U	20.0 U	19.0 U	19.0 U
Aroclor 1221	40.0 U	40.0 U	39.0 U	39.0 U	38.0 U	38.0 U	39.0 U	39.0 U	39.0 U	39.0 U	38.0 U	38.0 U
Aroclor 1232	20.0 U	20.0 U	19.0 U	19.0 U	19.0 U	19.0 U	20.0 U	20.0 U	20.0 U	20.0 U	19.0 U	19.0 U
Aroclor 1242	20.0 U	20.0 U	19.0 U	19.0 U	19.0 U	19.0 U	20.0 U	20.0 U	20.0 U	20.0 U	19.0 U	19.0 U
Aroclor 1248	20.0 U	20.0 U	19.0 U	19.0 U	19.0 U	19.0 U	20.0 U	20.0 U	20.0 U	20.0 U	19.0 U	19.0 U
Aroclor 1254	20.0 U	54.0 U	19.0 U	19.0 U	19.0 U	33.0 U	20.0 U	20.0 U	20.0 U	20.0 U	19.0 U	19.0 U
Aroclor 1260	**78.0**	**78.0**	**37.0**	**37.0**	**160**	**160**	**35.0**	**35.0**	**27.0**	**27.0**	19.0 U	19.0 U
Total PCBs as Aroclors [1]	**78.0**	**78.0**	**37.0**	**37.0**	**160**	**160**	**35.0**	**35.0**	**27.0**	**27.0**	19.0 U	19.0 U

Notes:

[1] Only Aroclor 1260 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Bulb Slope AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram (µg/kg), dry weight

Table H-6
Bulb Slope AOPC Soil (0-1 ft bgs) PCB Aroclor Analysis Results
(Page 2 of 2)

Site ID	AREA C08		AREA C09		PILE #3 BANK #1		PILE #3 BANK #2		PILE #3 BANK #3		PILE #3 BANK #4	
Sample ID	021120BSC08SS		021120BSC09SS		020419P3B1SD		020419P3B2SD		020419P3B3SD		020419P3B4SD	
Sample Date	11/20/2002		11/20/2002		4/19/2002		4/19/2002		4/19/2002		4/19/2002	
Sample Depth (feet bgs)	0.17-0.33		0.17-0.33		0		0		0		0	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	20.0 U	20.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U
Aroclor 1221	39.0 U	39.0 U	40.0 U	40.0 U	134 U	134 U	134 U	134 U	134.0 U	134.0 U	134 U	134 U
Aroclor 1232	20.0 U	20.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U
Aroclor 1242	20.0 U	20.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U
Aroclor 1248	20.0 U	20.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U
Aroclor 1254	20.0 U	20.0 U	20.0 U	20.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U	67.0 U
Aroclor 1260	**51.0**	**51.0**	20.0 U	20.0 U	67.0 U	67.0 U	**76.1**	**76.1**	67.0 U	67.0 U	**251**	**251**
Total PCBs as Aroclors [1]	**51.0**	**51.0**	20.0 U	20.0 U	67.0 U	67.0 U	**76.1**	**76.1**	67.0 U	67.0 U	**251**	**251**

Notes:

[1] Only Aroclor 1260 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Bulb Slope AOPC soil samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

All units are in micrograms per kilogram (µg/kg), dry weight

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Forebay 01 060605100SB 6/5/2006		Forebay 02 060605101SB 6/5/2006		Forebay 03 060605200SB 6/5/2006		Forebay 04 060605201SB 6/5/2006		Forebay 05 060605202SB 6/5/2006		Forebay 06 060605203SB 6/5/2006	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.186	UJ	0.650	J	0.747	J	0.234	UJ	0.189	UJ	0.346	J
2		0.0880	EMPC	0.698	J	0.482	J	0.129	J	0.276	J	0.407	J
3		0.144	UJ	0.437	UJ	0.438	UJ	0.125	UJ	0.154	UJ	0.378	UJ
4		1.62	J	4.27	J	2.03	J	1.93	J	1.53	J	3.58	J
5		0.124	UJ	0.285	J	0.193	J	0.138	J	0.0720	J	0.222	J
6		0.756	J	2.01	J	1.95	J	1.07	J	1.01	J	1.98	J
7		0.154	J	0.610	J	0.366	J	0.250	J	0.234	J	0.428	J
8		3.33	J	8.87	J	4.46	J	5.10	J	4.44	J	8.56	J
9		0.217	J	0.664	J	0.361	J	0.297	J	0.283	J	0.600	J
10		0.114	UJ	0.267	J	0.125	UJ	0.112	UJ	0.0980	J	0.186	J
11		9.35	J	92.7	J	11.5	J	8.08	J	25.4	J	41.4	J
12	12 + 13	0.111	C UJ	1.12	C J	1.48	C J	0.317	C J	0.0585	C UJ	0.736	C J
13	12 + 13		C12 J		C12 J		C12 J		C12 J		C12 J		C12 J
14		0.112	UJ	0.149	J	0.123	UJ	0.107	UJ	0.0587	UJ	0.0920	J
15		1.25	J	2.68	J	1.31	J	1.02	J	0.809	J	1.91	J
16		4.05	J	11.1	J	5.60	J	8.25	J	6.42	J	11.8	J
17		6.52	J	24.2	J	10.1	J	16.7	J	10.2	J	20.9	J
18	18 + 30	13.9	C J	40.3	C J	19.4	C J	34.3	C J	21.9	C J	43.6	C J
19		1.42	J	3.18	J	1.65	J	2.24	J	1.74	J	3.35	J
20	20 + 28	66.1	C J	255	C J	132	C J	196	C J	99.9	C J	241	C J
21	21 + 33	13.4	C J	34.9	C J	16.8	C J	40.5	C J	18.7	C J	42.7	C J
22		12.4	J	32.9	J	13.2	J	34.1	J	19.2	J	50.5	J
23		0.0849	UJ	0.342	J	0.153	J	0.140	J	0.0860	J	0.293	J
24		0.271	J	0.667	J	0.315	J	0.496	J	0.405	J	1.00	J
25		2.36	J	21.1	J	4.53	J	6.41	J	3.86	J	10.5	J
26	26 + 29	7.60	C J	43.6	C J	13.2	C J	21.4	C J	10.5	C J	28.3	C J
27		0.875	J	4.66	J	1.48	J	2.01	J	1.46	J	3.80	J
28	20 + 28		C20 J		C20 J		C20 J		C20 J		C20 J		C20 J
29	26 + 29		C26 J		C26 J		C26 J		C26 J		C26 J		C26 J
30	18 + 30		C18 J		C18 J		C18 J		C18 J		C18 J		C18 J
31		32.3	J	150	J	46.4	J	90.7	J	55.6	J	147	J
32		2.13	J	12.1	J	2.71	J	6.56	J	2.87	J	6.36	J
33	21 + 33		C21 J		C21 J		C21 J		C21 J		C21 J		C21 J
34		0.0880	J	1.23	J	0.286	J	0.297	J	0.222	J	0.764	J
35		0.0861	UJ	0.0894	UJ	0.148	EMPC	0.129	UJ	0.0812	UJ	0.0808	UJ
36		0.0781	UJ	0.0811	UJ	0.0839	UJ	0.118	UJ	0.0737	UJ	0.0734	UJ
37		5.02	J	39.8	J	13.4	J	6.44	J	6.15	J	17.1	J
38		0.0790	EMPC	1.65	EMPC	0.176	EMPC	0.149	EMPC	0.112	EMPC	0.253	EMPC
39		0.504	J	8.73	EMPC	0.859	J	0.930	EMPC	0.507	J	1.65	J
40	40 + 41 + 71	28.9	C J	1,180	C J	43.8	C J	64.5	C J	42.2	C J	114	C J
41	40 + 41 + 71		C40 J		C40 J		C40 J		C40 J		C40 J		C40 J
42		21.8	J	544	J	42.4	J	43.9	J	31.6	J	112	J
43		4.32	J	91.7	J	9.09	J	13.2	J	7.36	J	18.1	J
44	44 + 47 + 65	152	C J	6,390	C J	1,290	C J	401	C J	253	C J	641	C J
45	45 + 51	6.02	C J	105	C J	10.8	C J	12.9	C J	10.7	C J	29.8	C J
46		1.22	J	15.9	J	1.58	J	2.55	J	2.27	J	4.43	J
47	44 + 47 + 65		C44 J		C44 J		C44 J		C44 J		C44 J		C44 J
48		19.4	J	352	J	32.2	J	46.2	J	25.9	J	79.0	J
49	49 + 69	121	C J	5,360	C J	1,490	C J	317	C J	179	C J	545	C J
50	50 + 53	5.72	C J	249	C J	8.88	C J	10.1	C J	8.80	C J	26.9	C J
51	45 + 51		C45 J		C45 J		C45 J		C45 J		C45 J		C45 J
52		289	J	18,500	J	3,240	J	723	J	476	J	1,220	J
53	50 + 53		C50 J		C50 J		C50 J		C50 J		C50 J		C50 J
54		0.0690	J	1.81	J	0.140	UJ	0.336	J	0.190	J	0.523	J
55		0.202	UJ	0.840	UJ	0.563	UJ	0.311	UJ	0.225	UJ	0.549	UJ
56		18.9	J	1,030	J	272	J	45.6	J	43.9	J	136	J
57		0.920	J	4.37	J	6.79	J	2.03	J	1.44	J	3.01	J
58		0.430	J	0.834	UJ	0.559	UJ	1.51	J	0.221	UJ	0.541	UJ
59	59 + 62 + 75	12.5	C J	131	C J	28.8	C J	31.3	C J	18.2	C J	48.8	C J
60		66.7	J	1,410	J	1,200	J	226	J	91.2	J	237	J
61	61 + 70 + 74 + 76	464	C J	23,500	C J	19,500	C J	1,410	C J	729	C J	2,260	C J
62	59 + 62 + 75		C59 J		C59 J		C59 J		C59 J		C59 J		C59 J
63		24.3	J	368	J	451	J	59.2	J	27.6	J	69.7	J
64		68.3	J	2,610	J	113	J	167	J	113	J	317	J
65	44 + 47 + 65		C44 J		C44 J		C44 J		C44 J		C44 J		C44 J
66		401	J	10,300	J	10,300	J	1,030	J	483	J	1,160	J
67		2.44	J	27.2	J	23.5	J	8.32	J	3.64	J	11.6	J
68		6.74	J	23.5	J	30.1	J	9.21	J	7.08	J	14.4	J
69	49 + 69		C49 J		C49 J		C49 J		C49 J		C49 J		C49 J
70	61 + 70 + 74 + 76		C61 J		C61 J		C61 J		C61 J		C61 J		C61 J
71	40 + 41 + 71		C40 J		C40 J		C40 J		C40 J		C40 J		C40 J
72		4.75	J	39.8	J	33.0	J	12.0	J	7.05	J	15.9	J
73		0.0495	UJ	0.0499	UJ	0.127	UJ	0.0805	UJ	0.0616	UJ	0.0496	UJ
74	61 + 70 + 74 + 76		C61 J		C61 J		C61 J		C61 J		C61 J		C61 J
75	59 + 62 + 75		C59 J		C59 J		C59 J		C59 J		C59 J		C59 J
76	61 + 70 + 74 + 76		C61 J		C61 J		C61 J		C61 J		C61 J		C61 J
77		24.1	J	165	J	205	J	44.8	J	31.5	J	70.3	J
78		0.776	J	16.2	J	31.4	J	1.94	J	0.226	UJ	0.551	UJ
79		4.67	J	683	J	596	J	12.4	J	9.99	J	54.2	J
80		0.176	UJ	0.734	UJ	0.492	UJ	0.279	UJ	0.202	UJ	0.493	UJ
81		1.43	J	19.5	J	23.8	J	3.84	J	2.05	J	4.22	J
82		49.1	J	10,100	J	680	J	78.1	J	95.2	J	296	J
83	83 + 99	1,550	C J	75,300	C J	63,200	C J	5,230	C J	1,820	C J	5,930	C J
84		65.3	J	14,200	J	196	J	125	J	154	J	438	J
85	85 + 116 + 117	464	C J	23,400	C J	18,600	C J	1,470	C J	549	C J	1,650	C J
86	86 + 87 + 97 + 108 + 119 + 125	750	C J	78,300	C J	22,600	C J	1,480	C J	934	C J	3,740	C J
87	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86 J		C86 J		C86 J		C86 J		C86 J
88	88 + 91	79.4	C J	10,500	C J	608	C J	144	C J	126	C J	487	C J
89		1.87	J	347	J	3.28	J	4.08	J	3.90	J	10.3	J
90	90 + 101 + 113	1,490	C J	117,000	C J	35,800	C J	3,020	C J	1,750	C J	6,610	C J
91	88 + 91		C88 J		C88 J		C88 J		C88 J		C88 J		C88 J
92		272	J	17,600	J	3,430	J	669	J	353	J	1,040	J
93	93 + 95 + 98 + 100 + 102	437	C J	47,700	C J	6,020	C J	939	C J	659	C J	2,360	C J
94		0.746	UJ	88.1	J	1.27	J	1.14	J	1.48	J	5.90	J
95	93 + 95 + 98 + 100 + 102		C93 J		C93 J		C93 J		C93 J		C93 J		C93 J
96		1.41	J	161	J	2.72	J	3.82	J	2.37	J	6.22	J
97	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86 J		C86 J		C86 J		C86 J		C86 J
98	93 + 95 + 98 + 100 + 102		C93 J		C93 J		C93 J		C93 J		C93 J		C93 J
99	83 + 99		C83 J		C83 J		C83 J		C83 J		C83 J		C83 J
100	93 + 95 + 98 + 100 + 102		C93 J		C93 J		C93 J		C93 J		C93 J		C93 J
101	90 + 101 + 113		C90 J		C90 J		C90 J		C90 J		C90 J		C90 J
102	93 + 95 + 98 + 100 + 102		C93 J		C93 J		C93 J		C93 J		C93 J		C93 J
103		5.30	J	306	J	52.3	J	10.9	J	8.31	J	28.5	J
104		0.0667	UJ	0.994	J	0.252	UJ	0.156	EMPC	0.112	EMPC	0.536	J
105		966	J	50,400	J	45,500	J	2,980	J	1,230	J	3,540	J
106		0.375	UJ	4.07	UJ	3.99	UJ	0.748	UJ	0.433	UJ	0.753	UJ
107	107 + 124	64.3	C J	3,230	C J	3,810	C J	118	C J	60.3	C J	377	C J
108	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86 J		C86 J		C86 J		C86 J		C86 J
109		295	J	8,940	J	10,600	J	584	J	317	J	954	J
110	110 + 115	1,080	C J	120,000	C J	7,140	C J	2,190	C J	1,500	C J	4,920	C J
111		2.87	J	4.22	J	5.84	J	6.44	J	3.53	J	5.73	EMPC
112		0.479	UJ	1.01	UJ	0.365	UJ	0.231	UJ	0.590	UJ	0.178	UJ
113	90 + 101 + 113		C90 J		C90 J		C90 J		C90 J		C90 J		C90 J
114		92.6	J	3,200	J	4,040	J	281	J	106	J	337	J
115	110 + 115		C110 J		C110 J		C110 J		C110 J		C110 J		C110 J
116	85 + 116 + 117		C85 J		C85 J		C85 J		C85 J		C85 J		C85 J
117	85 + 116 + 117		C85 J		C85 J		C85 J		C85 J		C85 J		C85 J
118		3,310	J	138,000	J	132,000	J	8,310	J	3,610	J	10,800	J
119	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86 J		C86 J		C86 J		C86 J		C86 J
120		15.0	J	51.7	J	35.1	J	28.2	J	17.5	J	28.5	J
121		1.32	J	4.33	J	1.56	J	3.64	J	1.80	J	3.53	J
122		0.413	UJ	474	J	523	J	0.876	UJ	11.0	J	56.3	J
123		55.7	J	1,600	J	2,450	J	118	J	63.3	J	217	J
124	107 + 124		C107 J		C107 J		C107 J		C107 J		C107 J		C107 J
125	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86 J		C86 J		C86 J		C86 J		C86 J
126		5.05	J	55.3	J	75.5	J	9.74	J	8.07	J	15.9	J

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results
(Page 2 of 12)

IUPAC #	COELUTING CONGENERS1	Forebay 01 060605100SB 6/5/2006	Forebay 02 060605101SB 6/5/2006	Forebay 03 060605200SB 6/5/2006	Forebay 04 060605201SB 6/5/2006	Forebay 05 060605202SB 6/5/2006	Forebay 06 060605203SB 6/5/2006
127		6.90 J	241 J	265 J	26.8 J	7.03 J	34.4 J
128	128 + 166	603 C J	30,800 C J	21,000 C J	2,300 C J	806 C J	2,500 C J
129	129 + 138 + 160 + 163	4,320 C J	168,000 C J	126,000 C J	14,000 C J	5,220 C J	16,200 C J
130		172 J	9,060 J	7,720 J	302 J	232 J	1,060 J
131		9.50 J	1,520 J	395 J	16.5 J	16.9 J	119 J
132		228 J	38,700 J	3,080 J	421 J	399 J	1,910 J
133		83.5 J	1,460 J	1,450 J	208 J	96.5 J	281 J
134	134 + 143	48.6 C J	5,130 C J	3,170 C J	83.2 C J	75.3 C J	458 C J
135	135 + 151 + 154	492 C J	19,700 C J	4,910 C J	1,220 C J	703 C J	2,380 C J
136		87.0 J	9,020 J	247 J	172 J	118 J	439 J
137		283 J	11,900 J	15,300 J	1,100 J	317 J	1,220 J
138	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
139	139 + 140	68.7 C J	3,090 C J	1,660 C J	271 C J	81.4 C J	284 C J
140	139 + 140	C139 J	C139 J	C139 J	C139 J	C139 J	C139 J
141		250 J	18,800 J	5,770 J	723 J	294 J	1,210 J
142		0.661 UJ	2.91 UJ	2.57 UJ	1.36 UJ	0.699 UJ	0.756 UJ
143	134 + 143	C134 J	C134 J	C134 J	C134 J	C134 J	C134 J
144		52.3 J	3,490 J	1,920 J	96.6 J	67.5 J	361 J
145		0.174 EMPC	37.9 J	0.585 J	0.481 J	0.322 J	1.27 J
146		883 J	16,000 J	19,000 J	1,720 J	966 J	2,950 J
147	147 + 149	725 C J	59,800 C J	31,700 C J	1,220 C J	1,160 C J	6,370 C J
148		3.39 J	61.2 J	8.95 J	8.09 J	5.48 J	17.1 J
149	147 + 149	C147 J	C147 J	C147 J	C147 J	C147 J	C147 J
150		1.44 J	72.4 J	13.1 J	2.61 J	2.41 J	11.6 J
151	135 + 151 + 154	C135 J	C135 J	C135 J	C135 J	C135 J	C135 J
152		1.04 J	81.4 J	3.55 J	2.90 J	1.28 J	3.86 J
153	153 + 168	4,920 C J	111,000 C J	117,000 C J	16,100 C J	5,540 C J	16,800 C J
154	135 + 151 + 154	C135 J	C135 J	C135 J	C135 J	C135 J	C135 J
155		3.50 J	14.4 J	3.36 J	9.17 J	4.27 J	8.39 J
156	156 + 157	654 C J	26,600 C J	31,400 C J	2,220 C J	735 C J	2,890 C J
157	156 + 157	C156 J	C156 J	C156 J	C156 J	C156 J	C156 J
158		304 J	17,400 J	12,900 J	1,400 J	403 J	1,520 J
159		4.52 J	179 J	121 J	8.30 J	8.21 J	41.0 J
160	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
161		0.434 UJ	1.91 UJ	1.69 UJ	0.944 UJ	0.485 UJ	0.525 UJ
162		23.2 J	530 J	610 J	63.5 J	27.0 J	90.1 J
163	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
164		97.0 J	7,230 J	6,480 J	192 J	131 J	643 J
165		2.69 J	23.3 J	17.3 J	7.27 J	3.30 J	8.05 J
166	128 + 166	C128 J	C128 J	C128 J	C128 J	C128 J	C128 J
167		226 J	6,500 J	9,650 J	428 J	239 J	961 J
168	153 + 168	C153 J	C153 J	C153 J	C153 J	C153 J	C153 J
169		1.52 UJ	7.28 UJ	4.49 UJ	2.75 UJ	1.29 UJ	5.03 UJ
170		457 J	12,100 J	9,940 J	2,280 J	661 J	2,100 J
171	171 + 173	150 C J	3,890 C J	1,810 C J	685 C J	233 C J	711 C J
172		69.6 J	1,560 J	1,280 J	299 J	106 J	380 J
173	171 + 173	C171 J	C171 J	C171 J	C171 J	C171 J	C171 J
174		104 J	4,840 J	3,590 J	209 J	182 J	994 J
175		18.4 J	314 J	237 J	46.3 J	24.9 J	94.3 J
176		17.2 J	624 J	211 J	29.3 J	29.1 J	191 J
177		251 J	3,800 J	3,400 J	371 J	344 J	1,630 J
178		171 J	1,580 J	1,080 J	476 J	236 J	720 J
179		92.8 J	1,840 J	191 J	210 J	159 J	686 J
180	180 + 193	1,460 C J	20,600 C J	18,800 C J	5,930 C J	2,020 C J	5,400 C J
181		10.8 J	357 J	397 J	42.4 J	13.0 J	56.9 J
182		3.79 J	81.8 J	34.7 J	16.9 J	7.22 J	16.1 J
183	183 + 185	426 C J	6,240 C J	4,050 C J	1,620 C J	573 C J	1,660 C J
184		3.59 J	24.4 J	7.99 J	10.1 J	4.56 J	10.7 J
185	183 + 185	C183 J	C183 J	C183 J	C183 J	C183 J	C183 J
186		0.0545 UJ	5.14 J	0.189 UJ	0.107 UJ	0.0710 UJ	0.0926 UJ
187		1,510 J	8,670 J	7,970 J	2,500 J	1,730 J	4,520 J
188		3.76 J	18.2 J	12.3 J	6.22 J	4.27 J	10.8 J
189		21.6 J	482 J	531 J	75.9 J	25.0 J	113 J
190		180 J	2,350 J	1,570 J	647 J	229 J	624 J
191		27.5 J	465 J	419 J	117 J	34.8 J	98.0 J
192		0.0591 UJ	0.504 UJ	0.205 UJ	0.122 UJ	0.0810 UJ	0.106 UJ
193	180 + 193	C180 J	C180 J	C180 J	C180 J	C180 J	C180 J
194		170 J	1,720 J	1,170 J	688 J	215 J	654 J
195		85.6 J	777 J	433 J	357 J	125 J	330 J
196		117 J	881 J	597 J	445 J	141 J	349 J
197	197 + 200	19.2 C J	189 C J	88.1 C J	60.8 C J	26.1 C J	105 C J
198	198 + 199	243 C J	1,610 C J	1,150 C J	547 C J	277 C J	896 C J
199	198 + 199	C198 J	C198 J	C198 J	C198 J	C198 J	C198 J
200	197 + 200	C197 J	C197 J	C197 J	C197 J	C197 J	C197 J
201		41.0 J	226 J	135 J	76.8 J	47.0 J	159 J
202		104 J	642 J	296 J	284 J	128 J	486 J
203		241 J	1,620 J	702 J	828 J	279 J	804 J
204		0.401 J	1.71 J	0.991 J	1.09 J	0.527 J	1.17 J
205		11.1 J	97.9 J	42.2 J	39.9 J	14.0 J	49.8 J
206		93.9 J	749 J	335 J	276 J	103 J	364 J
207		18.9 J	107 J	60.7 J	50.6 J	21.5 J	56.0 J
208		30.3 J	163 J	95.8 J	57.8 J	35.3 J	132 J
209		39.1 J	164 J	83.2 J	74.2 J	43.0 J	140 J
Total PCBs as Congeners in ug/kg, wet weight							
Total PCBs as Congeners (full EMPC/full RDL)		33.7 J	1,440 J	879 J	96.7 J	42.0 J	137 J
Total PCBs as Congeners (KM-based)		33.7 J	1,440 J	879 J	96.7 J	42.0 J	137 J
Total PCBs as Congeners (KM-based, capped)		33.7 J	1,440 J	879 J	96.7 J	42.0 J	137 J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Forebay 07 060605204SB 6/5/2006		Forebay 08 060605205SB 6/5/2006		Forebay 09 060605207SB 6/5/2006		Forebay 10 060605208SB 6/5/2006		Forebay 11 060605209SB 6/5/2006		Forebay 12 060606102SB 6/6/2006	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.309	UJ	0.773	J	0.243	UJ	0.293	UJ	1.73	J	0.572	J
2		0.614	J	0.561	J	0.370	J	0.519	J	1.46	J	0.686	J
3		0.271	UJ	0.442	UJ	0.241	UJ	0.253	UJ	1.07	J	0.372	UJ
4		5.78	J	3.17	J	3.09	J	2.50	J	8.16	J	2.95	J
5		0.247	J	0.230	J	0.156	J	0.203	UJ	0.784	J	0.353	UJ
6		2.86	J	1.61	J	1.77	J	1.45	J	9.01	J	3.84	J
7		0.517	J	0.449	J	0.347	J	0.313	J	3.98	J	0.315	UJ
8		11.3	J	6.68	J	7.60	J	7.19	J	40.1	J	6.89	J
9		0.701	J	0.579	J	0.385	J	0.381	J	5.89	J	0.387	J
10		0.337	J	0.176	J	0.155	J	0.186	UJ	0.422	J	0.323	UJ
11		130	J	53.0	J	57.2	J	95.6	J	136	J	39.3	J
12	12 + 13	0.0580	C UJ	1.77	C J	0.122	C UJ	0.178	C UJ	5.72	C J	2.78	C J
13	12 + 13		C12 J		C12 J		C12 J		C12 J		C12 J		C12 J
14		0.157	J	0.122	J	0.127	J	0.179	UJ	0.264	J	0.321	UJ
15		3.49	J	1.95	J	1.85	J	2.53	J	14.1	J	2.10	J
16		19.1	J	9.76	J	10.2	J	10.6	J	39.5	J	7.89	J
17		39.4	J	27.2	J	16.4	J	17.3	J	317	J	13.3	J
18	18 + 30	59.7	C J	44.0	C J	34.1	C J	39.2	C J	825	C J	26.5	C J
19		9.56	J	2.79	J	2.77	J	2.87	J	8.54	J	2.73	J
20	20 + 28	235	C J	414	C J	149	C J	276	C J	5,550	C J	124	C J
21	21 + 33	46.2	C J	39.0	C J	27.6	C J	42.7	C J	606	C J	21.5	C J
22		57.0	J	33.8	J	28.6	J	56.3	J	380	J	18.9	J
23		0.162	J	0.351	J	0.135	UJ	0.239	J	1.95	UJ	0.474	UJ
24		1.10	J	0.754	J	0.657	J	0.698	EMPC	2.82	J	0.510	J
25		10.7	J	12.0	J	4.48	J	9.33	J	418	J	4.30	J
26	26 + 29	27.8	C J	49.1	C J	15.6	C J	24.9	C J	745	C J	13.9	C J
27		7.72	J	4.79	J	2.52	J	3.03	J	46.8	J	2.19	J
28	20 + 28		C20 J		C20 J		C20 J		C20 J		C20 J		C20 J
29	26 + 29		C26 J		C26 J		C26 J		C26 J		C26 J		C26 J
30	18 + 30		C18 J		C18 J		C18 J		C18 J		C18 J		C18 J
31		118	J	117	J	79.5	J	127	J	5,070	J	66.7	J
32		10.2	J	14.3	J	3.98	J	6.27	J	198	J	3.98	J
33	21 + 33		C21 J		C21 J		C21 J		C21 J		C21 J		C21 J
34		0.852	J	0.758	J	0.326	J	0.544	EMPC	7.40	J	0.464	UJ
35		0.0913	UJ	0.111	UJ	0.142	UJ	0.155	UJ	2.13	UJ	0.486	UJ
36		0.0829	UJ	0.101	UJ	0.129	UJ	0.141	UJ	1.88	UJ	0.449	UJ
37		24.5	J	46.5	J	10.3	J	19.9	J	696	J	15.2	J
38		0.168	EMPC	1.01	EMPC	0.186	J	0.406	EMPC	12.3	J	0.445	UJ
39		1.47	J	6.17	J	0.993	J	1.56	EMPC	112	EMPC	1.51	J
40	40 + 41 + 71	107	C J	653	C J	51.7	C J	119	C J	14,200	C J	95.0	C J
41	40 + 41 + 71		C40 J		C40 J		C40 J		C40 J		C40 J		C40 J
42		98.2	J	541	J	39.6	J	123	J	10,100	J	66.8	J
43		14.0	J	97.3	J	8.42	J	19.8	J	1,990	J	23.1	J
44	44 + 47 + 65	450	C J	6,430	C J	302	C J	850	C J	138,000	C J	894	C J
45	45 + 51	31.2	C J	64.9	C J	11.9	C J	27.0	C J	1,040	C J	14.0	C J
46		5.76	J	8.54	J	2.51	J	4.15	J	96.3	J	2.43	J
47	44 + 47 + 65		C44 J		C44 J		C44 J		C44 J		C44 J		C44 J
48		70.0	J	299	J	37.0	J	77.8	J	4,900	J	56.7	J
49	49 + 69	346	C J	7,290	C J	236	C J	636	C J	123,000	C J	886	C J
50	50 + 53	27.9	C J	132	C J	8.52	C J	27.8	C J	3,160	C J	13.7	C J
51	45 + 51		C45 J		C45 J		C45 J		C45 J		C45 J		C45 J
52		678	J	24,100	J	585	J	1,180	J	351,000	J	2,990	J
53	50 + 53		C50 J		C50 J		C50 J		C50 J		C50 J		C50 J
54		2.13	J	1.45	J	0.266	J	0.677	J	7.71	J	0.573	UJ
55		0.445	UJ	0.677	UJ	0.360	UJ	0.478	UJ	26.4	UJ	0.304	UJ
56		124	J	357	J	44.9	J	145	J	24,900	J	87.5	J
57		2.70	J	6.38	J	1.83	J	3.28	J	27.6	UJ	1.98	J
58		2.65	J	0.667	UJ	1.57	J	0.471	UJ	25.4	UJ	0.297	UJ
59	59 + 62 + 75	39.1	C J	162	C J	25.3	C J	63.8	C J	2,120	C J	33.1	C J
60		197	J	2,070	J	156	J	484	J	30,200	J	315	J
61	61 + 70 + 74 + 76	1,140	C J	22,400	C J	1,010	C J	2,360	C J	368,000	C J	4,730	C J
62	59 + 62 + 75		C59 J		C59 J		C59 J		C59 J		C59 J		C59 J
63		47.9	J	573	J	38.2	J	120	J	9,180	J	164	J
64		231	J	2,870	J	135	J	415	J	45,400	J	397	J
65	44 + 47 + 65		C44 J		C44 J		C44 J		C44 J		C44 J		C44 J
66		912	J	12,700	J	735	J	1,700	J	143,000	J	2,690	J
67		9.53	J	20.3	J	5.00	J	12.9	J	278	J	7.81	J
68		9.92	J	15.8	J	7.94	J	22.6	J	297	J	14.3	J
69	49 + 69		C49 J		C49 J		C49 J		C49 J		C49 J		C49 J
70	61 + 70 + 74 + 76		C61 J		C61 J		C61 J		C61 J		C61 J		C61 J
71	40 + 41 + 71		C40 J		C40 J		C40 J		C40 J		C40 J		C40 J
72		13.5	J	48.9	J	9.54	J	23.4	J	469	J	10.6	J
73		0.0495	UJ	0.0491	UJ	0.132	UJ	0.119	UJ	0.516	UJ	0.519	UJ
74	61 + 70 + 74 + 76		C61 J		C61 J		C61 J		C61 J		C61 J		C61 J
75	59 + 62 + 75		C59 J		C59 J		C59 J		C59 J		C59 J		C59 J
76	61 + 70 + 74 + 76		C61 J		C61 J		C61 J		C61 J		C61 J		C61 J
77		62.4	J	214	J	36.7	J	77.2	J	3,530	J	102	J
78		0.446	UJ	0.679	UJ	1.43	J	0.479	UJ	343	J	0.302	UJ
79		10.8	J	558	J	8.22	J	26.0	J	11,000	J	37.9	J
80		0.399	UJ	0.607	UJ	0.323	UJ	0.429	UJ	22.6	UJ	0.269	UJ
81		3.24	J	19.1	EMPC	2.33	J	5.76	J	23.1	UJ	8.07	J
82		54.1	J	5,760	J	37.2	J	151	J	125,000	J	209	J
83	83 + 99	2,530	C J	105,000	C J	3,470	C J	6,850	C J	1,050,000	C J	16,400	C J
84		123	J	6,710	J	72.6	J	306	J	180,000	J	340	J
85	85 + 116 + 117	800	C J	30,300	C J	985	C J	2,030	C J	327,000	C J	4,910	C J
86	86 + 87 + 97 + 108 + 119 + 125	924	C J	72,700	C J	1,020	C J	2,520	C J	890,000	C J	5,580	C J
87	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86 J		C86 J		C86 J		C86 J		C86 J
88	88 + 91	144	C J	7,680	C J	90.0	C J	433	C J	168,000	C J	453	C J
89		3.86	J	143	J	2.75	J	5.54	J	3,000	J	12.4	J
90	90 + 101 + 113	2,110	C J	127,000	C J	2,350	C J	5,740	C J	1,400,000	C J	10,700	C J
91	88 + 91		C88 J		C88 J		C88 J		C88 J		C88 J		C88 J
92		498	J	19,500	J	530	J	1,280	J	213,000	J	2,110	J
93	93 + 95 + 98 + 100 + 102	725	C J	30,600	C J	614	C J	1,860	C J	573,000	C J	3,170	C J
94		3.56	J	26.0	J	0.809	J	6.30	J	906	J	3.63	UJ
95	93 + 95 + 98 + 100 + 102		C93 J		C93 J		C93 J		C93 J		C93 J		C93 J
96		4.54	J	100	J	2.75	J	5.53	J	1,710	J	14.9	J
97	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86 J		C86 J		C86 J		C86 J		C86 J
98	93 + 95 + 98 + 100 + 102		C93 J		C93 J		C93 J		C93 J		C93 J		C93 J
99	83 + 99		C83 J		C83 J		C83 J		C83 J		C83 J		C83 J
100	93 + 95 + 98 + 100 + 102		C93 J		C93 J		C93 J		C93 J		C93 J		C93 J
101	90 + 101 + 113		C90 J		C90 J		C90 J		C90 J		C90 J		C90 J
102	93 + 95 + 98 + 100 + 102		C93 J		C93 J		C93 J		C93 J		C93 J		C93 J
103		12.8	J	278	J	8.15	J	30.1	J	5,180	J	25.7	J
104		0.908	J	0.778	J	0.221	UJ	0.648	EMPC	9.27	EMPC	1.06	UJ
105		1,540	J	66,300	J	2,090	J	3,910	J	766,000	J	11,200	J
106		0.513	UJ	4.87	UJ	0.401	UJ	0.998	UJ	65.3	UJ	2.37	UJ
107	107 + 124	78.3	C J	2,410	C J	83.0	C J	136	C J	55,600	C J	472	C J
108	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86 J		C86 J		C86 J		C86 J		C86 J
109		392	J	13,100	J	432	J	922	J	185,000	J	3,260	J
110	110 + 115	1,660	C J	111,000	C J	1,680	C J	4,280	C J	1,270,000	C J	8,470	C J
111		5.71	J	5.58	EMPC	5.01	J	12.5	J	56.0	UJ	4.89	J
112		0.199	UJ	0.631	UJ	0.279	UJ	0.935	UJ	56.1	UJ	2.37	UJ
113	90 + 101 + 113		C90 J		C90 J		C90 J		C90 J		C90 J		C90 J
114		120	J	4,870	J	173	J	332	J	65,700	J	1,680	J
115	110 + 115		C110 J		C110 J		C110 J		C110 J		C110 J		C110 J
116	85 + 116 + 117		C85 J		C85 J		C85 J		C85 J		C85 J		C85 J
117	85 + 116 + 117		C85 J		C85 J		C85 J		C85 J		C85 J		C85 J
118		3,750	J	199,000	J	6,430	J	10,300	J	2,180,000	J	52,400	J
119	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86 J		C86 J		C86 J		C86 J		C86 J
120		28.9	J	59.6	EMPC	25.9	J	51.2	J	344	J	29.5	J
121		3.25	J	4.69	J	2.74	J	6.89	J	58.0	UJ	2.53	UJ
122		11.5	J	207	J	5.96	J	22.6	J	9,000	J	2.75	UJ
123		69.5	J	1,940	J	81.0	J	136	J	35,600	J	948	J
124	107 + 124		C107 J		C107 J		C107 J		C107 J		C107 J		C107 J
125	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86 J		C86 J		C86 J		C86 J		C86 J
126		11.1	J	85.7	J	8.90	J	14.3	J	1,260	J	26.2	J

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Forebay 07 060605204SB 6/5/2006	Forebay 08 060605205SB 6/5/2006	Forebay 09 060605207SB 6/5/2006	Forebay 10 060605208SB 6/5/2006	Forebay 11 060605209SB 6/5/2006	Forebay 12 060606102SB 6/6/2006
127		9.34 J	341 J	16.1 J	26.6 J	3,700 J	142 J
128	128 + 166	1,240 C J	42,000 C J	1,590 C J	2,740 C J	336,000 C J	6,640 C J
129	129 + 138 + 160 + 163	8,070 C J	239,000 C J	10,400 C J	20,400 C J	1,940,000 C J	42,300 C J
130		268 J	11,200 J	271 J	707 J	126,000 J	1,190 J
131		12.3 J	992 J	9.83 J	43.3 J	18,200 J	50.5 J
132		352 J	23,200 J	240 J	1,180 J	394,000 J	777 J
133		162 J	2,110 J	175 J	353 J	22,300 J	519 J
134	134 + 143	76.7 C J	3,770 C J	58.6 C J	198 C J	63,500 C J	235 C J
135	135 + 151 + 154	1,170 C J	19,900 C J	1,090 C J	2,680 C J	266,000 C J	2,070 C J
136		166 J	5,920 J	138 J	364 J	89,500 J	484 J
137		344 J	20,000 J	606 J	997 J	220,000 J	5,410 J
138	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
139	139 + 140	130 C J	4,370 C J	185 C J	330 C J	41,300 C J	695 C J
140	139 + 140	C139 J	C139 J	C139 J	C139 J	C139 J	C139 J
141		365 J	24,000 J	462 J	1,330 J	250,000 J	2,050 J
142		0.780 UJ	3.11 UJ	0.923 UJ	1.47 UJ	207 J	1.34 UJ
143	134 + 143	C134 J	C134 J	C134 J	C134 J	C134 J	C134 J
144		77.5 J	3,460 J	75.2 J	244 J	53,200 J	251 J
145		0.371 J	19.0 J	0.263 EMPC	0.756 J	356 J	0.947 UJ
146		1,300 J	25,100 J	1,440 J	3,290 J	291,000 J	7,220 J
147	147 + 149	1,180 C J	37,500 C J	738 C J	4,390 C J	598,000 C J	2,150 C J
148		9.25 J	60.0 J	7.44 J	21.6 J	667 J	9.36 J
149	147 + 149	C147 J	C147 J	C147 J	C147 J	C147 J	C147 J
150		3.54 J	37.2 J	1.41 J	8.48 J	863 J	2.73 J
151	135 + 151 + 154	C135 J	C135 J	C135 J	C135 J	C135 J	C135 J
152		2.82 J	76.3 J	2.39 J	5.33 J	891 J	9.98 J
153	153 + 168	8,500 C J	179,000 C J	11,200 C J	23,100 C J	1,440,000 C J	48,200 C J
154	135 + 151 + 154	C135 J	C135 J	C135 J	C135 J	C135 J	C135 J
155		9.28 J	12.9 J	8.48 J	14.6 J	1.01 UJ	5.88 J
156	156 + 157	846 C J	44,600 C J	1,360 C J	2,390 C J	403,000 C J	12,800 C J
157	156 + 157	C156 J	C156 J	C156 J	C156 J	C156 J	C156 J
158		660 J	24,500 J	914 J	1,730 J	237,000 J	3,500 J
159		8.36 J	129 J	5.18 J	26.1 J	3,140 J	12.1 J
160	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
161		0.542 UJ	2.16 UJ	0.641 UJ	1.02 UJ	79.8 UJ	0.955 UJ
162		38.3 J	846 J	47.4 J	83.7 J	9,120 J	245 J
163	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
164		162 J	8,820 J	154 J	478 J	91,900 J	601 J
165		6.29 J	26.0 J	5.87 J	11.5 J	88.0 UJ	8.76 J
166	128 + 166	C128 J	C128 J	C128 J	C128 J	C128 J	C128 J
167		250 J	9,350 J	311 J	574 J	116,000 J	3,650 J
168	153 + 168	C153 J	C153 J	C153 J	C153 J	C153 J	C153 J
169		2.60 UJ	11.2 UJ	3.27 UJ	5.08 UJ	127 UJ	8.24 UJ
170		1,140 J	18,900 J	1,310 J	2,570 J	198,000 J	4,720 J
171	171 + 173	493 C J	5,310 C J	520 C J	1,050 C J	60,300 C J	890 C J
172		171 J	2,540 J	191 J	441 J	31,600 J	652 J
173	171 + 173	C171 J	C171 J	C171 J	C171 J	C171 J	C171 J
174		190 J	4,060 J	134 J	755 J	117,000 J	303 J
175		35.7 J	424 J	38.0 J	103 J	6,570 J	104 J
176		38.8 J	362 J	22.3 J	124 J	11,700 J	31.7 J
177		429 J	4,150 J	408 J	1,210 J	87,300 J	1,240 J
178		447 J	2,160 J	481 J	970 J	27,700 J	627 J
179		302 J	1,680 J	244 J	632 J	26,800 J	221 J
180	180 + 193	3,040 C J	33,300 C J	3,570 C J	7,510 C J	348,000 C J	18,200 C J
181		19.3 J	639 J	28.7 J	49.6 J	6,320 J	172 J
182		10.9 J	122 J	11.7 J	28.2 J	1,130 J	27.0 J
183	183 + 185	1,060 C J	9,230 C J	1,180 C J	2,510 C J	120,000 C J	2,000 C J
184		10.7 J	28.5 J	10.6 J	18.2 J	122 J	7.27 J
185	183 + 185	C183 J	C183 J	C183 J	C183 J	C183 J	C183 J
186		0.0495 UJ	0.441 UJ	0.0658 UJ	0.148 UJ	42.4 J	0.396 UJ
187		2,260 J	12,300 J	2,470 J	5,940 J	159,000 J	9,320 J
188		6.04 J	19.7 J	5.77 J	13.0 J	139 J	7.69 J
189		39.0 J	841 J	49.1 J	91.0 J	9,300 J	324 J
190		440 J	3,580 J	487 J	870 J	36,500 J	1,210 J
191		60.0 J	756 J	70.6 J	138 J	9,430 J	300 J
192		0.0519 UJ	0.503 UJ	0.0750 UJ	0.168 UJ	11.4 UJ	0.450 UJ
193	180 + 193	C180 J	C180 J	C180 J	C180 J	C180 J	C180 J
194		399 J	3,090 J	421 J	783 J	52,500 J	1,790 J
195		265 J	1,220 J	242 J	467 J	18,800 J	568 J
196		255 J	1,600 J	260 J	535 J	31,000 J	991 J
197	197 + 200	49.5 C J	227 C J	45.5 C J	112 C J	6,130 C J	55.2 C J
198	198 + 199	371 C J	3,050 C J	401 C J	986 C J	59,600 C J	2,060 C J
199	198 + 199	C198 J	C198 J	C198 J	C198 J	C198 J	C198 J
200	197 + 200	C197 J	C197 J	C197 J	C197 J	C197 J	C197 J
201		70.5 J	370 J	73.0 J	180 J	6,980 J	211 J
202		267 J	988 J	294 J	540 J	11,000 J	288 J
203		587 J	2,760 J	618 J	1,130 J	21,900 J	654 J
204		0.903 J	1.96 J	0.933 J	1.63 J	2.98 UJ	0.724 J
205		29.1 J	155 J	32.2 J	56.4 J	1,520 J	42.9 J
206		217 J	1,440 J	233 J	364 J	13,600 J	271 J
207		41.6 J	191 J	41.9 J	71.9 J	2,550 J	71.5 J
208		58.0 J	304 J	57.1 J	110 J	3,140 J	91.8 J
209		93.6 J	221 J	82.5 J	127 J	1,080 J	65.4 J
Total PCBs as Congeners in ug/kg, wet weight							
Total PCBs as Congeners (full EMPC/full RDL)		59.4 J	1,734 J	69.7 J	149 J	19,310 J	325 J
Total PCBs as Congeners (KM-based)		59.3 J	1,733 J	69.6 J	149 J	19,303 J	325 J
Total PCBs as Congeners (KM-based, capped)		59.3 J	1,733 J	69.6 J	149 J	19,303 J	325 J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Forebay 13 060606103SB 6/6/2006	Forebay 14 060606104SB 6/6/2006	Forebay 15 060606210SB 6/6/2006	Forebay 16 060815402SB 8/15/2006	Forebay 17 060815403SB 8/15/2006	Forebay 18 060815405SB 8/15/2006
Individual Congeners in pg/g (ng/kg), wet weight							
1		0.484 J	0.235 UJ	0.194 UJ	7.14 J	1.31 J	0.428 J
2		0.548 J	0.237 J	0.262 J	2.84 J	1.44 J	1.01 J
3		0.328 UJ	0.0502 UJ	0.263 UJ	8.28 J	1.09 J	0.535 UJ
4		3.76 J	2.13 J	1.79 J	909 J	11.5 J	2.21 J
5		0.219 UJ	0.0900 J	0.120 J	138 J	0.424 J	0.293 UJ
6		1.98 J	1.43 J	1.01 J	1,620 J	13.7 J	1.66 J
7		0.457 J	0.225 J	0.282 J	396 J	5.86 J	0.504 J
8		8.63 J	5.25 J	4.62 J	7,240 J	50.4 J	6.14 J
9		0.788 J	0.318 J	0.266 J	643 J	16.4 J	4.94 J
10		0.206 J	0.134 J	0.131 EMPC	54.3 J	0.934 J	0.343 J
11		67.5 J	35.4 J	28.4 J	230 J	404 J	495 J
12	12 + 13	1.60 C J	0.831 C J	0.622 C J	72.2 C J	11.4 C J	9.28 C J
13	12 + 13	C12 J	C12 J	C12 J	C12 J	C12 J	C12 J
14		0.199 UJ	0.0990 J	0.0890 EMPC	0.557 J	0.176 J	0.269 UJ
15		2.18 J	1.83 J	1.30 J	1,570 J	282 J	112 J
16		12.2 J	6.26 J	5.82 J	7,050 J	117 UJ	10.1 J
17		53.1 J	8.97 J	9.45 J	14,300 J	1,360 J	37.9 J
18	18 + 30	69.5 C J	19.8 C J	20.0 C J	23,000 C J	3,090 C J	130 C J
19		4.50 J	1.89 J	1.71 J	1,290 J	23.0 J	2.66 J
20	20 + 28	452 C J	83.0 C J	90.8 C J	76,900 C J	16,100 C J	1,210 C J
21	21 + 33	49.6 C J	15.3 C J	15.8 C J	19,100 C J	2,280 C J	45.4 C J
22		43.2 J	15.2 J	16.8 J	23,500 J	856 J	45.5 J
23		0.348 J	0.0950 J	0.102 J	86.4 J	79.3 UJ	0.486 EMPC
24		0.763 J	0.415 J	0.371 J	438 J	72.8 UJ	0.790 J
25		11.8 J	2.65 J	3.11 J	4,840 J	1,140 J	125 J
26	26 + 29	61.2 C J	8.94 C J	9.60 C J	11,100 C J	2,340 C J	279 C J
27		12.0 J	1.32 J	1.30 J	1,050 J	224 EMPC	12.7 J
28	20 + 28	C20 J	C20 J	C20 J	C20 J	C20 J	C20 J
29	26 + 29	C26 J	C26 J	C26 J	C26 J	C26 J	C26 J
30	18 + 30	C18 J	C18 J	C18 J	C18 J	C18 J	C18 J
31		162 J	43.7 J	47.8 J	59,700 J	12,200 J	837 J
32		32.5 J	2.41 J	2.53 J	7,510 J	647 J	12.6 J
33	21 + 33	C21 J	C21 J	C21 J	C21 J	C21 J	C21 J
34		1.30 J	0.190 EMPC	0.195 EMPC	192 J	103 J	4.10 J
35		0.238 UJ	0.0502 UJ	0.0500 UJ	2.40 UJ	87.5 UJ	0.310 UJ
36		0.220 UJ	0.0502 UJ	0.0500 UJ	2.24 UJ	79.2 UJ	0.290 UJ
37		41.1 J	6.02 J	5.12 J	5,850 J	2,950 J	189 J
38		1.45 EMPC	0.0830 EMPC	0.0930 J	30.3 J	78.2 UJ	1.93 J
39		7.99 J	0.495 J	0.556 J	264 J	349 J	9.61 J
40	40 + 41 + 71	688 C J	21.2 C J	29.2 C J	13,600 C J	22,900 C J	799 C J
41	40 + 41 + 71	C40 J	C40 J	C40 J	C40 J	C40 J	C40 J
42		377 J	15.9 J	27.3 J	11,400 J	19,000 J	879 J
43		108 J	4.52 J	5.91 J	2,280 J	15,800 J	104 J
44	44 + 47 + 65	6,400 C J	135 C J	281 C J	47,500 C J	200,000 C J	10,100 C J
45	45 + 51	70.9 C J	7.19 C J	20.5 C J	7,400 C J	1,720 C J	63.2 C J
46		7.84 J	1.66 J	1.63 J	1,490 J	307 J	7.73 J
47	44 + 47 + 65	C44 J	C44 J	C44 J	C44 J	C44 J	C44 J
48		305 J	18.2 J	23.4 J	11,000 J	13,900 J	339 J
49	49 + 69	6,590 C J	102 C J	173 C J	34,200 C J	194,000 C J	15,100 C J
50	50 + 53	54.9 C J	5.53 C J	7.57 C J	2,630 C J	6,170 C J	124 C J
51	45 + 51	C45 J	C45 J	C45 J	C45 J	C45 J	C45 J
52		21,200 J	256 J	424 J	54,300 J	733,000 J	43,900 J
53	50 + 53	C50 J	C50 J	C50 J	C50 J	C50 J	C50 J
54		2.74 J	0.152 J	0.135 J	56.1 J	90.2 J	1.02 J
55		0.876 UJ	0.479 UJ	0.476 UJ	185 J	28,800 J	7.12 UJ
56		253 J	19.6 J	26.2 J	2,560 J	52,400 J	3,280 J
57		0.863 UJ	1.10 J	1.39 J	231 J	631 UJ	19.2 J
58		0.855 UJ	1.04 J	1.38 J	46.8 J	654 UJ	7.05 UJ
59	59 + 62 + 75	162 C J	12.6 C J	18.4 C J	4,870 C J	6,050 C J	250 C J
60		1,750 J	68.2 J	100 J	2,600 J	52,200 J	5,430 J
61	61 + 70 + 74 + 76	19,800 C J	445 C J	719 C J	39,800 C J	1,000,000 C J	87,000 C J
62	59 + 62 + 75	C59 J	C59 J	C59 J	C59 J	C59 J	C59 J
63		571 J	21.2 J	30.6 J	1,470 J	15,400 J	1,520 J
64		2,450 J	65.2 J	96.7 J	20,400 J	56,100 J	2,800 J
65	44 + 47 + 65	C44 J	C44 J	C44 J	C44 J	C44 J	C44 J
66		12,700 J	335 J	510 J	18,500 J	371,000 J	39,600 J
67		27.3 J	3.32 J	5.02 J	988 J	985 J	81.3 J
68		26.2 J	4.29 J	20.8 J	101 J	611 UJ	76.8 J
69	49 + 69	C49 J	C49 J	C49 J	C49 J	C49 J	C49 J
70	61 + 70 + 74 + 76	C61 J	C61 J	C61 J	C61 J	C61 J	C61 J
71	40 + 41 + 71	C40 J	C40 J	C40 J	C40 J	C40 J	C40 J
72		45.6 J	5.71 J	7.99 J	219 J	826 J	87.6 J
73		0.221 UJ	0.0502 UJ	0.0500 UJ	0.0491 UJ	20,600 J	0.494 UJ
74	61 + 70 + 74 + 76	C61 J	C61 J	C61 J	C61 J	C61 J	C61 J
75	59 + 62 + 75	C59 J	C59 J	C59 J	C59 J	C59 J	C59 J
76	61 + 70 + 74 + 76	C61 J	C61 J	C61 J	C61 J	C61 J	C61 J
77		186 J	21.7 J	23.6 J	334 J	8,950 J	577 J
78		0.872 UJ	0.609 J	0.447 UJ	15.1 J	1,340 J	6.70 UJ
79		192 J	3.22 J	6.88 J	300 J	21,400 J	1,850 J
80		0.775 UJ	0.622 J	0.819 J	6.53 UJ	552 UJ	6.16 UJ
81		11.7 J	1.21 J	1.30 J	19.8 J	1,190 J	6.15 UJ
82		1,130 J	12.1 J	33.4 J	2,130 J	175,000 J	10,300 J
83	83 + 99	88,200 C J	1,250 C J	2,570 C J	41,700 C J	1,680,000 C J	117,000 C J
84		1,690 J	33.2 J	62.8 J	3,630 J	201,000 J	7,280 J
85	85 + 116 + 117	26,600 C J	350 C J	723 C J	11,800 C J	483,000 C J	52,200 C J
86	86 + 87 + 97 + 108 + 119 + 125	38,900 C J	326 C J	843 C J	25,200 C J	1,350,000 C J	81,900 C J
87	86 + 87 + 97 + 108 + 119 + 125	C86 J	C86 J	C86 J	C86 J	C86 J	C86 J
88	88 + 91	2,780 C J	38.5 C J	89.8 C J	4,040 C J	170,000 C J	10,600 C J
89		102 J	0.863 J	1.56 J	123 J	3,620 J	231 J
90	90 + 101 + 113	74,900 C J	880 C J	2,150 C J	41,600 C J	1,920,000 C J	125,000 C J
91	88 + 91	C88 J	C88 J	C88 J	C88 J	C88 J	C88 J
92		14,400 J	231 J	476 J	7,390 J	297,000 J	25,600 J
93	93 + 95 + 98 + 100 + 102	20,800 C J	282 C J	570 C J	21,500 C J	932,000 C J	54,500 C J
94		5.75 J	0.483 J	0.748 J	109 J	1,290 J	40.2 J
95	93 + 95 + 98 + 100 + 102	C93 J	C93 J	C93 J	C93 J	C93 J	C93 J
96		103 J	1.19 J	1.79 J	230 J	1,500 J	135 J
97	86 + 87 + 97 + 108 + 119 + 125	C86 J	C86 J	C86 J	C86 J	C86 J	C86 J
98	93 + 95 + 98 + 100 + 102	C93 J	C93 J	C93 J	C93 J	C93 J	C93 J
99	83 + 99	C83 J	C83 J	C83 J	C83 J	C83 J	C83 J
100	93 + 95 + 98 + 100 + 102	C93 J	C93 J	C93 J	C93 J	C93 J	C93 J
101	90 + 101 + 113	C90 J	C90 J	C90 J	C90 J	C90 J	C90 J
102	93 + 95 + 98 + 100 + 102	C93 J	C93 J	C93 J	C93 J	C93 J	C93 J
103		164 J	3.77 J	8.42 J	217 J	6,620 J	576 J
104		0.455 UJ	0.130 EMPC	0.0940 EMPC	4.03 J	68.6 J	1.06 EMPC
105		57,700 J	717 J	1,600 J	30,100 J	1,300,000 J	109,000 J
106		3.93 UJ	3.32 UJ	5.73 UJ	44.7 UJ	1,610 J	29.5 UJ
107	107 + 124	1,720 C J	38.7 C J	62.9 C J	1,330 C J	88,700 C J	6,320 C J
108	86 + 87 + 97 + 108 + 119 + 125	C86 J	C86 J	C86 J	C86 J	C86 J	C86 J
109		11,200 J	207 J	366 J	4,970 J	208,000 J	23,200 J
110	110 + 115	60,600 C J	593 C J	1,370 C J	36,300 C J	1,530,000 C J	91,800 C J
111		9.20 J	3.33 J	4.24 J	7.76 J	482 J	21.7 J
112		1.82 UJ	0.0698 UJ	0.0624 UJ	0.729 UJ	300 UJ	4.86 UJ
113	90 + 101 + 113	C90 J	C90 J	C90 J	C90 J	C90 J	C90 J
114		4,470 J	59.4 J	122 J	2,330 J	89,800 J	11,200 J
115	110 + 115	C110 J	C110 J	C110 J	C110 J	C110 J	C110 J
116	85 + 116 + 117	C85 J	C85 J	C85 J	C85 J	C85 J	C85 J
117	85 + 116 + 117	C85 J	C85 J	C85 J	C85 J	C85 J	C85 J
118		164,000 J	2,420 J	4,970 J	92,100 J	3,270,000 J	312,000 J
119	86 + 87 + 97 + 108 + 119 + 125	C86 J	C86 J	C86 J	C86 J	C86 J	C86 J
120		77.6 J	16.3 J	20.4 J	35.1 J	621 J	99.0 J
121		6.64 J	1.59 J	2.33 J	3.49 J	328 UJ	5.71 J
122		4.56 UJ	3.52 UJ	6.08 UJ	296 J	24,400 J	1,610 J
123		2,070 J	32.3 J	57.4 J	1,200 J	55,300 J	6,100 J
124	107 + 124	C107 J	C107 J	C107 J	C107 J	C107 J	C107 J
125	86 + 87 + 97 + 108 + 119 + 125	C86 J	C86 J	C86 J	C86 J	C86 J	C86 J
126		45.3 J	6.42 J	7.55 J	48.0 UJ	3,030 J	125 J

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results
(Page 6 of 12)

IUPAC #	COELUTING CONGENERS1	Forebay 13 060606103SB 6/6/2006	Forebay 14 060606104SB 6/6/2006	Forebay 15 060606210SB 6/6/2006	Forebay 16 060815402SB 8/15/2006	Forebay 17 060815403SB 8/15/2006	Forebay 18 060815405SB 8/15/2006
127		416 J	5.94 J	12.0 J	191 J	8,100 J	878 J
128	128 + 166	33,300 C J	652 C J	1,300 C J	13,100 C J	427,000 C J	67,600 C J
129	129 + 138 + 160 + 163	197,000 C J	4,410 C J	8,540 C J	81,400 C J	2,530,000 C J	252,000 C J
130		5,270 J	121 J	237 J	3,050 J	175,000 J	21,000 J
131		285 J	3.19 J	9.41 J	331 J	29,100 J	2,380 J
132		3,870 J	100 J	216 J	6,160 J	425,000 J	37,400 J
133		1,760 J	92.0 J	140 J	862 J	27,900 J	4,180 J
134	134 + 143	1,120 C J	26.2 C J	56.7 C J	1,220 C J	93,900 C J	8,960 C J
135	135 + 151 + 154	13,300 C J	539 C J	910 C J	6,210 C J	272,000 C J	30,200 C J
136		2,960 J	60.1 J	117 J	1,870 J	78,000 J	8,580 J
137		19,600 J	199 J	481 J	7,880 J	274,000 J	39,500 J
138	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
139	139 + 140	3,450 C J	74.7 C J	158 C J	1,480 C J	49,200 C J	7,460 C J
140	139 + 140	C139 J	C139 J	C139 J	C139 J	C139 J	C139 J
141		16,700 J	188 J	466 J	7,660 J	242,000 J	35,300 J
142		2.66 UJ	0.710 UJ	1.91 UJ	20.4 UJ	758 UJ	72.1 UJ
143	134 + 143	C134 J	C134 J	C134 J	C134 J	C134 J	C134 J
144		1,410 J	30.9 J	71.6 J	997 J	61,000 J	6,970 J
145		8.05 J	0.0760 EMPC	0.137 EMPC	6.49 J	469 J	34.9 J
146		21,800 J	725 J	1,180 J	10,300 J	313,000 J	48,400 J
147	147 + 149	11,400 C J	358 C J	756 C J	12,800 C J	948,000 C J	86,000 C J
148		44.1 J	3.98 J	6.79 J	24.1 J	776 J	99.2 J
149	147 + 149	C147 J	C147 J	C147 J	C147 J	C147 J	C147 J
150		9.25 J	0.865 J	1.86 J	19.7 J	1,250 J	92.7 J
151	135 + 151 + 154	C135 J	C135 J	C135 J	C135 J	C135 J	C135 J
152		61.5 J	1.09 J	1.87 J	26.9 J	522 J	92.1 J
153	153 + 168	169,000 C J	5,570 C J	8,780 C J	73,000 C J	1,890,000 C J	202,000 C J
154	135 + 151 + 154	C135 J	C135 J	C135 J	C135 J	C135 J	C135 J
155		17.4 J	5.76 J	6.54 J	6.74 J	60.2 J	13.7 J
156	156 + 157	38,600 C J	541 C J	1,200 C J	16,900 C J	486,000 C J	83,000 C J
157	156 + 157	C156 J	C156 J	C156 J	C156 J	C156 J	C156 J
158		19,700 J	366 J	737 J	7,890 J	254,000 J	39,300 J
159		56.4 J	3.82 J	5.12 J	56.0 J	3,990 J	336 J
160	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
161		1.89 UJ	0.466 UJ	1.26 UJ	13.4 UJ	504 UJ	47.3 UJ
162		814 J	25.4 J	39.1 J	355 J	11,100 J	1,900 J
163	129 + 138 + 160 + 163	C129 J	C129 J	C129 J	C129 J	C129 J	C129 J
164		3,780 J	71.2 J	145 J	2,380 J	112,000 J	14,600 J
165		27.6 J	3.71 J	4.81 J	15.5 UJ	596 UJ	54.8 J
166	128 + 166	C128 J	C128 J	C128 J	C128 J	C128 J	C128 J
167		7,990 J	161 J	270 J	4,710 J	140,000 J	21,000 J
168	153 + 168	C153 J	C153 J	C153 J	C153 J	C153 J	C153 J
169		14.5 UJ	3.47 UJ	3.18 UJ	15.1 UJ	607 UJ	28.0 UJ
170		13,700 J	727 J	994 J	7,860 J	177,000 J	36,200 J
171	171 + 173	3,840 C J	301 C J	380 C J	1,690 C J	42,900 C J	8,260 C J
172		1,760 J	106 J	134 J	1,000 J	22,100 J	3,960 J
173	171 + 173	C171 J	C171 J	C171 J	C171 J	C171 J	C171 J
174		1,320 J	75.5 J	117 J	1,340 J	73,500 J	8,130 J
175		282 J	20.8 J	29.6 J	154 J	4,970 J	715 J
176		168 J	12.2 J	20.8 J	164 J	8,700 J	829 J
177		1,960 J	205 J	293 J	1,690 J	58,800 J	8,090 J
178		1,780 J	280 J	341 J	1,080 J	14,900 J	2,760 J
179		1,090 J	136 J	180 J	609 J	14,400 J	2,080 J
180	180 + 193	26,800 C J	2,150 C J	2,430 C J	17,300 C J	248,000 C J	59,100 C J
181		496 J	13.8 J	23.3 J	228 J	6,480 J	1,070 J
182		101 J	7.71 J	10.7 J	47.5 J	1,120 J	194 J
183	183 + 185	6,770 C J	667 C J	822 C J	3,710 C J	72,000 C J	15,100 C J
184		29.3 J	7.56 J	8.12 J	12.1 J	139 EMPC	36.6 J
185	183 + 185	C183 J	C183 J	C183 J	C183 J	C183 J	C183 J
186		0.340 UJ	0.0502 UJ	0.0770 EMPC	0.946 J	46.6 J	5.53 J
187		9,470 J	1,350 J	1,760 J	8,810 J	100,000 J	20,900 J
188		17.6 J	3.66 J	4.84 J	10.7 J	213 J	32.2 J
189		661 J	31.1 J	40.7 J	402 J	10,100 J	1,880 J
190		2,670 J	301 J	347 J	1,390 J	29,200 J	6,200 J
191		616 J	40.9 J	50.5 J	299 J	7,110 J	1,240 J
192		0.387 UJ	0.0502 UJ	0.0530 UJ	0.342 UJ	48.5 UJ	1.28 UJ
193	180 + 193	C180 J	C180 J	C180 J	C180 J	C180 J	C180 J
194		2,410 J	310 J	295 J	1,860 J	17,900 J	5,150 J
195		1,050 J	187 J	175 J	648 J	6,840 J	1,800 J
196		1,210 J	176 J	173 J	812 J	8,560 J	2,070 J
197	197 + 200	165 C J	32.7 C J	32.1 C J	104 C J	2,030 C J	315 C J
198	198 + 199	1,840 C J	240 C J	288 C J	1,980 C J	17,500 C J	4,200 C J
199	198 + 199	C198 J	C198 J	C198 J	C198 J	C198 J	C198 J
200	197 + 200	C197 J	C197 J	C197 J	C197 J	C197 J	C197 J
201		260 J	47.3 J	55.5 J	183 J	2,050 EMPC	448 J
202		860 J	214 J	233 J	582 J	3,110 J	1,290 J
203		2,060 J	438 J	415 J	997 J	10,300 J	3,080 J
204		2.47 J	0.682 J	0.668 J	1.21 J	55.9 J	3.13 J
205		123 J	24.8 J	23.5 J	64.5 J	923 J	237 J
206		928 J	199 J	179 J	546 J	5,570 J	2,020 J
207		134 J	36.5 J	31.6 J	88.1 J	702 J	247 J
208		182 J	44.9 J	45.3 J	168 J	1,370 J	404 J
209		214 J	85.3 J	69.8 J	132 J	841 J	342 J
Total PCBs as Congeners in ug/kg, wet weight							
Total PCBs as Congeners (full EMPC/full RDL)		1,306 J	32.2 J	54.8 J	1,193 J	26,511 J	2,482 J
Total PCBs as Congeners (KM-based)		1,306 J	32.1 J	54.9 J	1,193 J	26,505 J	2,482 J
Total PCBs as Congeners (KM-based, capped)		1,306 J	32.1 J	54.8 J	1,193 J	26,505 J	2,482 J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Forebay 19 060815406SB 8/15/2006		Forebay SUCKER 070505LS 5/5/2007		Reference 20 071027R01SB 10/27/2007		Reference 21 071027R02SB 10/27/2007		Reference 22 071027R03SB 10/27/2007		Reference 23 071027R04SB 10/27/2007		Reference 24 071027R05SB 10/27/2007	
Individual Congeners in pg/g (ng/kg), wet weight															
1		0.226	UJ	0.861		50.7		257		2.64		4.88		1.42	EMPC
2		0.829	J	1.21		149		612		4.99		9.99		2.43	EMPC
3		0.279	UJ	0.482	U	7.52		330		6.57	EMPC	7.75		3.38	EMPC
4		1.77	J	13.2		6.49	U	5.78		7.12	U	6.84	U	25.4	EMPC
5		0.153	J	0.781		4.36	U	6.32		4.90	U	5.03	U	3.65	U
6		0.912	J	6.80		6.85	EMPC	13.8		4.39	U	4.51	U	16.8	
7		0.276	J	0.791		3.99	U	13.9		4.50	U	4.63	U	3.36	U
8		4.78	J	27.4		8.40		12.8	EMPC	6.67		7.82	EMPC	66.7	
9		0.284	J	1.18		3.93	U	10.7	EMPC	4.36	U	4.48	U	3.25	U
10		0.178	J	0.563		3.80	U	4.15		4.10	U	4.21	U	3.05	U
11		562	J	456		644		519		930		748		1,070	
12	12 + 13	0.126	C UJ	0.120	C U	22.6	C EMPC	31.4	C	4.77	C U	4.90	C U	3.55	C U
13	12 + 13		C12 J		C12		C12		C12		C12		C12		C12
14		0.130	J	0.199		4.14	U	10.9		4.54	U	4.66	U	3.38	U
15		9.51	J	7.07		9.85		5.92	EMPC	5.64	U	6.03	U	17.8	
16		5.61	J	68.5		8.46		9.14		11.3	EMPC	10.3	EMPC	113	
17		7.65	J	97.3		11.7	EMPC	11.5		15.3		10.9		297	
18	18 + 30	19.1	C J	164	C	25.4	C	23.8	C	33.0	C	25.8	C	458	C
19		1.65	J	12.1		3.24	EMPC	2.31		3.33	EMPC	2.16	EMPC	65.4	
20	20 + 28	112	C J	514	C	146	C	145	C	180	C	120	C	1,760	C
21	21 + 33	14.8	C J	112	C	28.9	C	24.4	C	29.5	C	22.1	C EMPC	342	C
22		15.2	J	164		32.2		25.6		34.0		30.4		310	
23		0.197	UJ	0.443		1.14	U	1.30	U	1.95	U	1.48	U	2.71	U
24		0.323	J	2.31		0.697	U	1.02	EMPC	0.913	U	1.11	EMPC	6.17	EMPC
25		3.31	J	16.3		5.67	EMPC	5.17		6.10	EMPC	2.00	EMPC	119	
26	26 + 29	10.6	C J	43.9	C	15.9	C	14.8	C	18.3	C	12.5	C	305	C
27		1.25	J	18.8		2.19	EMPC	2.20		2.56	EMPC	1.75	EMPC	75.8	
28	20 + 28		C20 J		C20		C20		C20		C20		C20		C20
29	26 + 29		C26 J		C26		C26		C26		C26		C26		C26
30	18 + 30		C18 J		C18		C18		C18		C18		C18		C18
31		47.1	J	248		84.8		74.6		97.2		73.2		889	
32		2.07	J	16.3		4.00		3.47	EMPC	3.04		2.75	EMPC	236	
33	21 + 33		C21 J		C21		C21		C21		C21		C21		C21
34		0.274	J	1.61		1.14	U	1.30	U	1.92	U	1.45	U	10.5	EMPC
35		0.290	EMPC	0.194	U	1.16	U	1.32	U	2.12	U	1.61	U	2.94	U
36		0.298	EMPC	0.181	U	1.12	U	1.28	U	1.87	U	1.42	U	2.60	U
37		28.0	J	32.8		17.1		13.6	EMPC	20.8	EMPC	16.9		127	
38		0.192	UJ	0.696	EMPC	1.18	U	1.35	U	2.04	U	1.54	U	2.82	U
39		0.800	J	4.52		1.16	U	1.32	U	1.98	U	1.50	U	9.71	EMPC
40	40 + 41 + 71	21.2	C J	262	C	62.8	C	50.9	C	55.9	C	36.2	C	1,360	C
41	40 + 41 + 71		C40 J		C40		C40		C40		C40		C40		C40
42		15.1	J	327		48.5		37.9		48.6		31.1		727	
43		4.05	J	25.2		8.55	EMPC	5.58	EMPC	9.93	EMPC	5.05		178	
44	44 + 47 + 65	115	C J	1,690	C	308	C	257	C	311	C	164	C	4,190	C
45	45 + 51	8.63	C J	65.1	C	16.8	C	14.8	C	15.4	C	10.7	C	358	C
46		2.01	J	12.7		3.54		3.38		3.45	EMPC	2.68	EMPC	60.4	
47	44 + 47 + 65		C44 J		C44		C44		C44		C44		C44		C44
48		13.3	J	202		38.3		32.1		1.11	U	21.7		503	
49	49 + 69	82.0	C J	1,010	C	228	C	191	C	233	C	128	C	3,400	C
50	50 + 53	6.83	C J	90.9	C	15.2	C	8.76	C	15.5	C	7.97	C EMPC	295	C
51	45 + 51		C45 J		C45		C45		C45		C45		C45		C45
52		225	J	1,950		551		436		558		276		5,400	
53	50 + 53		C50 J		C50		C50		C50		C50		C50		C50
54		0.350	UJ	0.901		0.706	U	0.516	EMPC	0.758	U	0.780	U	13.9	
55		0.596	UJ	1.51	U	8.47	EMPC	5.47	U	12.0	EMPC	9.48		148	EMPC
56		20.0	J	292		80.9		52.7		74.1		52.1		920	
57		1.66	J	5.69		6.38	U	5.39	U	4.45	U	5.10	U	26.7	
58		1.03	J	8.25		7.01	U	5.92	U	4.65	U	5.34	U	19.4	U
59	59 + 62 + 75	9.05	C J	124	C	27.5	C	23.9	C	30.4	C	15.3	C	392	C
60		60.3	J	623		135		129		146		73.8		1,320	
61	61 + 70 + 74 + 76	566	C J	3,710	C	959	C	821	C	936	C	480	C	5,610	C
62	59 + 62 + 75		C59 J		C59		C59		C59		C59		C59		C59
63		45.9	J	167		29.7		32.3		31.6		16.9		277	
64		47.9	J	702		148		121		159		90.7		2,010	
65	44 + 47 + 65		C44 J		C44		C44		C44		C44		C44		C44
66		505	J	2,530		593		602		626		324		5,480	
67		4.14	J	22.8		8.30	EMPC	6.77		9.76	EMPC	5.78		63.1	
68		15.8	J	40.1		10.9	EMPC	11.2		7.68	EMPC	5.18	EMPC	45.4	
69	49 + 69		C49 J		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61 J		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40 J		C40		C40		C40		C40		C40		C40
72		6.85	J	35.1		10.8		10.6		11.9		4.66	U	77.7	
73		0.361	UJ	0.240	U	0.654	U	3.74	EMPC	0.817	U	0.762	U	0.667	U
74	61 + 70 + 74 + 76		C61 J		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59 J		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61 J		C61		C61		C61		C61		C61		C61
77		56.8	J	110		47.0		35.8		43.5		25.4		195	
78		1.32	J	1.42	U	6.83	U	5.77	U	4.69	U	5.38	U	19.5	U
79		6.37	J	53.2		13.7	EMPC	9.52	EMPC	10.3	EMPC	5.71	EMPC	28.0	EMPC
80		1.15	J	2.37	EMPC	5.79	U	4.89	U	3.91	U	4.49	U	16.3	U
81		3.58	J	9.02		6.81	U	5.74	U	5.04	U	5.47	U	20.5	U
82		21.9	J	197		97.5		54.4	EMPC	68.9		42.4		323	
83	83 + 99	1,110	C J	8,420	C	1,940	C	1,680	C	1,850	C	777	C	7,520	C
84		42.5	J	562		196		108		161		77.6		621	
85	85 + 116 + 117	252	C J	2,170	C	568	C	486	C	539	C	232	C	2,500	C
86	86 + 87 + 97 + 108 + 119 + 125	345	C J	4,710	C	1,150	C	771	C	1,010	C	471	C	3,760	C
87	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86		C86		C86		C86		C86		C86
88	88 + 91	44.4	C J	862	C	187	C	126	C	164	C	81.2	C	886	C
89		1.28	UJ	13.4		4.65	EMPC	3.78		3.51	EMPC	2.12	EMPC	50.1	EMPC
90	90 + 101 + 113	816	C J	10,600	C	2,620	C	1,900	C	2,500	C	1,010	C	8,280	C
91	88 + 91		C88 J		C88		C88		C88		C88		C88		C88
92		154	J	1,900		505		410		513		200		1,880	
93	93 + 95 + 98 + 100 + 102	266	C J	4,180	C	951	C	632	C	824	C	393	C	3,440	C
94		1.34	UJ	13.9		3.71	EMPC	1.55	EMPC	2.81	EMPC	1.92	U	20.3	
95	93 + 95 + 98 + 100 + 102		C93 J		C93		C93		C93		C93		C93		C93
96		0.877	J	8.80		2.30	EMPC	2.40		3.81	EMPC	0.977	EMPC	48.9	
97	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93 J		C93		C93		C93		C93		C93		C93
99	83 + 99		C83 J		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93 J		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90 J		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93 J		C93		C93		C93		C93		C93		C93
103		4.31	J	49.7		16.5		11.7		17.0		8.46		85.6	
104		0.781	UJ	1.08		1.11	EMPC	0.535	U	0.697	U	0.454	U	2.87	EMPC
105		738	J	4,350		1,150		1,070		1,110		498		4,060	
106		3.70	UJ	11.2	U	10.0	U	8.59	U	9.75	U	4.24	U	23.6	U
107	107 + 124	45.2	C J	241	C	92.9	C	75.2	C	79.4	C	38.4	C	214	C
108	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86		C86		C86		C86		C86		C86
109		389	J	1,090		311		286		268		127		802	
110	110 + 115	498	C J	8,230	C	2,150	C	1,480	C	1,940	C	904	C	7,350	C
111		5.71	J	16.3		4.00		6.03		5.32		1.75	EMPC	13.0	
112		0.860	UJ	0.470	U	1.52	U	0.970	U	1.82	U	1.29	U	4.44	U
113	90 + 101 + 113		C90 J		C90		C90		C90		C90		C90		C90
114		115	J	289		77.0		72.3		65.2		29.2		300	
115	110 + 115		C110 J		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85 J		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85 J		C85		C85		C85		C85		C85		C85
118		3,820	J	10,300		3,300		3,050		3,010		1,330		10,200	
119	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86		C86		C86		C86		C86		C86
120		23.8	J	58.7		21.1		21.7	EMPC	21.4		10.3	EMPC	54.7	
121		1.36	J	11.3		3.26		2.66		3.01	EMPC	1.35	EMPC	11.3	
122		5.17	J	39.1		21.4	EMPC	9.49	U	14.8		4.86	U	27.0	U
123		75.0	J	179		55.4		47.7		43.5	EMPC	24.8		184	
124	107 + 124		C107 J		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86 J		C86		C86		C86		C86		C86		C86
126		12.3	J	19.1		11.2	U	11.6	EMPC	12.2	U	5.61		30.1	U

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results
(Page 8 of 12)

IUPAC #	COELUTING CONGENERS1	Forebay 19 060815406SB 8/15/2006		Forebay SUCKER 070505LS 5/5/2007		Reference 20 071027R01SB 10/27/2007		Reference 21 071027R02SB 10/27/2007		Reference 22 071027R03SB 10/27/2007		Reference 23 071027R04SB 10/27/2007		Reference 24 071027R05SB 10/27/2007	
127		6.66	J	20.2		10.2	U	8.75	U	10.1	U	4.41	U	24.5	U
128	128 + 166	399	C J	2,600	C	842	C	724	C	747	C	350	C	2,030	C
129	129 + 138 + 160 + 163	4,700	C J	23,400	C	5,820	C	5,250	C	5,640	C	2,430	C	14,300	C
130		242	J	1,260		332		276		321		154		632	
131		7.73	J	90.5		28.2		13.5		21.0		10.6	EMPC	32.6	EMPC
132		158	J	2,720		646		381		529		282		1,170	
133		122	J	431		118		108		118		52.4		323	
134	134 + 143	43.6	C J	442	C	141	C	79.6	C	120	C	60.7	C	260	C
135	135 + 151 + 154	395	C J	4,980	C	1,210	C	993	C	1,200	C	512	C	3,100	C
136		50.2	J	739		187		134		181		75.4		610	
137		314	J	730		174		147		125		68.9		573	
138	129 + 138 + 160 + 163		C129 J		C129		C129		C129		C129		C129		C129
139	139 + 140	36.7	C J	324	C	87.5	C	79.3	C	89.5	C	37.4	C	253	C
140	139 + 140		C139 J		C139		C139		C139		C139		C139		C139
141		137	J	1,610		324		255		275		153		1,490	
142		0.715	UJ	7.91	U	7.73	U	13.0	U	7.25	U	3.01	U	14.3	U
143	134 + 143		C134 J		C134		C134		C134		C134		C134		C134
144		41.5	J	530		110		81.5		109	EMPC	48.4		243	
145		0.414	UJ	2.83		0.600	U	0.555	U	0.667	U	0.491	U	0.771	U
146		1,430	J	4,360		1,020		939		978		429		2,540	
147	147 + 149	709	C J	13,000	C	2,400	C	1,450	C	1,920	C	1,060	C	3,250	C
148		3.73	J	41.2		11.6	EMPC	10.0	EMPC	11.2		4.22		36.6	
149	147 + 149		C147 J		C147		C147		C147		C147		C147		C147
150		1.56	J	23.1		6.01		3.99	EMPC	7.15	EMPC	3.76	EMPC	11.7	EMPC
151	135 + 151 + 154		C135 J		C135		C135		C135		C135		C135		C135
152		0.483	J	7.13		1.45	EMPC	1.78	EMPC	1.01	EMPC	0.956		14.4	
153	153 + 168	7,180	C J	26,400	C	5,530	C	5,250	C	5,040	C	2,510	C	15,500	C
154	135 + 151 + 154		C135 J		C135		C135		C135		C135		C135		C135
155		4.01	J	16.9		6.70		5.11		6.87		3.10	EMPC	16.0	
156	156 + 157	791	C J	1,770	C	468	C	402	C	378	C	194	C	1,390	C
157	156 + 157		C156 J		C156		C156		C156		C156		C156		C156
158		190	J	1,760		439		393		435		188		1,220	
159		8.56	J	74.2		11.5		8.69	U	9.01		6.33		24.0	
160	129 + 138 + 160 + 163		C129 J		C129		C129		C129		C129		C129		C129
161		0.469	UJ	5.19	U	5.38	U	9.04	U	5.18	U	2.15	U	10.2	U
162		33.3	J	72.6		22.7		23.6	EMPC	17.3	EMPC	8.30	EMPC	52.4	
163	129 + 138 + 160 + 163		C129 J		C129		C129		C129		C129		C129		C129
164		82.4	J	781		180		139		167		81.4		541	
165		5.19	J	17.0		6.32	EMPC	10.2	U	5.85	U	2.75	EMPC	13.6	
166	128 + 166		C128 J		C128		C128		C128		C128		C128		C128
167		356	J	565		193		169		157		84.3		536	
168	153 + 168		C153 J		C153		C153		C153		C153		C153		C153
169		4.39	UJ	11.1		5.51	U	8.90	U	5.36	U	2.27	U	10.9	U
170		632	J	2,190		438		457		406		260		1,950	
171	171 + 173	122	C J	1,120	C	238	C	242	C	249	C	122	C	766	C
172		119	J	478		84.6		94.6		79.8		57.7		376	
173	171 + 173		C171 J		C171		C171		C171		C171		C171		C171
174		157	J	1,640		270		195		229		164		642	
175		35.7	J	181		31.4		29.3		32.7		17.1	EMPC	71.8	
176		22.5	J	417		66.4		42.0		62.2		36.0		91.0	
177		506	J	2,800		535		429		557		291		903	
178		255	J	1,430		292		303		351		166		786	
179		86.7	J	1,600		321		232		342		153		810	
180	180 + 193	3,450	C J	7,180	C	1,220	C	1,310	C	1,120	C	806	C	5,270	C
181		14.6	J	33.8		10.6	EMPC	10.3		8.97	EMPC	4.54		32.5	
182		7.49	J	31.6		7.69	EMPC	5.65	EMPC	8.57		5.13		24.4	EMPC
183	183 + 185	598	C J	3,140	C	559	C	573	C	567	C	297	C	1,740	C
184		3.23	J	20.7		7.16		7.07		6.44		2.86	EMPC	19.4	
185	183 + 185		C183 J		C183		C183		C183		C183		C183		C183
186		0.158	UJ	0.459	EMPC	1.24	U	0.703	U	0.589	U	0.540	U	0.775	U
187		3,590	J	8,530		1,840		1,810		2,040		1,000		3,850	
188		6.34	J	20.8		5.67		4.91	EMPC	5.62		2.31	EMPC	11.9	
189		41.9	J	78.0		16.5	EMPC	17.4		16.8	EMPC	13.3		67.7	
190		252	J	732		179		192		185		103		570	
191		45.4	J	120		22.3		26.4		21.2		16.7		81.1	
192		0.169	UJ	0.202	U	1.29	U	0.732	U	0.626	U	0.574	U	0.824	U
193	180 + 193		C180 J		C180		C180		C180		C180		C180		C180
194		341	J	695		167		150		126		122		618	
195		157	J	422		112		105		95.2		65.2		334	
196		197	J	450		88.2		101		69.2		58.1		284	
197	197 + 200	26.5	C J	168	C	34.6	C	28.2	C	28.5	C	20.5	C	71.2	C
198	198 + 199	443	C J	1,100	C	279	C	258	C	222	C	192	C	702	C
199	198 + 199		C198 J		C198		C198		C198		C198		C198		C198
200	197 + 200		C197 J		C197		C197		C197		C197		C197		C197
201		70.1	J	274		51.2		46.2		46.9		27.9		109	
202		134	J	830		173		166		175		100		428	
203		273	J	1,040		237		237		210		169	EMPC	596	
204		0.449	J	1.68		1.64	U	0.578	U	0.640	U	0.872	EMPC	0.676	U
205		16.9	J	58.7		15.4		14.6	EMPC	14.5	EMPC	10.6	EMPC	37.9	
206		111	J	368		103		95.6		72.8		66.6		240	
207		27.0	J	62.4		19.6		16.8		13.3	EMPC	11.7	EMPC	38.8	
208		53.0	J	165		43.9		36.1		31.5	EMPC	27.7		87.1	
209		51.7	J	144		52.4		44.0		36.9		33.9		90.2	
Total PCBs as Congeners in ug/kg, wet weight															
Total PCBs as Congeners (full EMPC/full RDL)		40.8	J	201	J	48.0	J	42.1	J	45.1	J	22.5	J	164	J
Total PCBs as Congeners (KM-based)		40.7	J	201	J	47.9	J	41.8	J	44.7	J	22.1	J	164	J
Total PCBs as Congeners (KM-based, capped)		40.7	J	201	J	47.9	J	41.8	J	44.7	J	22.1	J	164	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Reference 25 071027R06SB 10/27/2007		Reference 26 071115R07SB 11/15/2007		Reference 27 080517R10SB 5/17/2008		Reference 28 080517R11SB 5/17/2008		Reference 29 080517R12SB 5/17/2008		Reference 30 080517R13SB 5/17/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		15.5	EMPC	1.63	U	1.05		0.452	EMPC	0.430	EMPC	0.626	
2		35.2		2.15	EMPC	1.66		1.11		0.666		1.34	
3		23.2	EMPC	3.29	EMPC	0.748		0.488		0.340	EMPC	0.617	
4		9.49	EMPC	4.96	U	9.61		3.81		2.37		3.55	
5		5.69	U	3.20	U	0.462		0.234	U	0.255	U	0.208	
6		5.10	U	2.87	U	5.37		1.99		1.02		2.12	
7		5.23	U	2.95	U	1.04		0.466		0.236	U	0.561	
8		22.2		6.54	EMPC	22.7		10.4		4.91		9.98	
9		5.07	U	2.85	U	1.84		0.652		0.294	EMPC	0.718	
10		4.76	U	2.68	U	0.377	EMPC	0.217	U	0.238	U	0.141	U
11		438		339		342		377		173		320	
12	12 + 13	5.54	C U	3.12	C U	0.177	C U	0.228	C U	0.250	C U	0.153	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		5.28	U	2.97	U	0.170	U	0.219	U	0.239	U	0.151	U
15		6.46	U	3.54	U	4.92		2.91		1.41		3.45	
16		40.5		10.8	EMPC	31.0		13.3		7.42		22.5	
17		80.3		18.4		86.0		19.3		10.8		52.3	
18	18 + 30	158	C	39.1	C	131	C	43.8	C	22.0	C	96.0	C
19		8.89	EMPC	2.44	EMPC	6.14		3.23		1.84		3.46	
20	20 + 28	740	C	219	C	1,020	C	215	C	150	C	666	C
21	21 + 33	155	C	33.5	C	152	C	42.8	C	30.2	C	125	C
22		151		35.1		212		51.0		30.9		115	
23		1.15	U	0.838	U	0.775		0.197		0.172	EMPC	0.680	
24		3.00	EMPC	0.776	U	2.68		0.691		0.405	EMPC	1.45	
25		30.4		6.87		37.9		7.91		5.36		18.3	
26	26 + 29	92.4	C	23.4	C EMPC	110	C	23.6	C	16.0	C	80.0	C
27		11.0		2.62		6.74		2.85		1.85		6.12	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		409		108		596		125		78.9		338	
32		27.6		5.30		34.1		6.56		4.23		24.6	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		2.02	EMPC	0.823	U	1.80		0.507		0.497		1.44	
35		1.26	U	0.911	U	0.163	U	0.127	EMPC	0.0726	U	0.118	U
36		1.11	U	0.804	U	0.142	U	0.0498	U	0.0635	U	0.101	U
37		49.4		15.4		28.1		20.0		7.00		26.8	
38		1.20	U	0.874	U	1.17		0.243	EMPC	0.247	EMPC	0.476	
39		5.27		1.38	EMPC	7.43		1.95		1.45		6.04	
40	40 + 41 + 71	240	C	64.4	C	220	C	66.9	C	62.2	C	225	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		180		58.6		239		55.0		46.1		187	
43		32.1	EMPC	12.6	EMPC	38.4		8.38		8.71		31.2	
44	44 + 47 + 65	771	C	377	C	1,090	C	271	C	260	C	824	C
45	45 + 51	59.4	C	17.9	C	58.4	C	15.8	C	13.2	C	49.1	C
46		12.9	EMPC	3.47		9.01		3.98		2.53		10.8	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		178		0.662	U	178		42.4		35.0		166	
49	49 + 69	621	C	301	C	866	C	203	C	192	C	657	C
50	50 + 53	45.4	C	12.8	C	24.2	C	12.6	C	10.0	C	38.3	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		978		575		1,280		402		384		1,140	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.814	U	0.492	U	0.370	EMPC	0.280		0.194		0.643	
55		20.2		6.11	EMPC	0.249	U	0.406	U	0.485	U	0.228	U
56		87.1		64.2		109		80.9		53.2		135	
57		8.61	U	2.29	U	8.57		2.09		2.15		5.13	
58		9.01	U	2.39	U	3.69		1.87		2.09		2.98	
59	59 + 62 + 75	83.0	C	34.6	C	107	C	25.4	C	23.3	C	81.0	C
60		145		129		325		123		116		209	
61	61 + 70 + 74 + 76	1,220	C	785	C	2,130	C	848	C	756	C	1,690	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		49.7		36.3		101		29.5		34.0		63.3	
64		400		175		554		147		121		427	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		700		572		1,590		534		601		1,040	
67		19.5		9.40		29.1		9.61		8.65		18.4	
68		11.6	EMPC	7.59		16.3		7.78		9.79		13.8	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		13.5	EMPC	11.0		22.7		8.21		8.94		18.2	
73		0.796	U	7.72	EMPC	0.0486	U	0.0495	U	0.0484	U	0.0492	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		38.1		30.1		75.4		36.2		43.6		70.1	
78		9.08	U	2.41	U	0.238	U	0.389	U	0.465	U	0.229	U
79		16.2		7.61		17.1		13.4		11.8		27.0	
80		7.57	U	2.01	U	2.30		0.818		0.948		1.32	
81		9.44	U	2.53	U	5.52		2.56		2.63		3.26	
82		112		59.7		55.2		57.0		44.9		131	
83	83 + 99	1,660	C	1,760	C	5,090	C	1,410	C	1,530	C	2,670	C
84		147		126		122		120		93.5		279	
85	85 + 116 + 117	502	C	513	C	1,420	C	393	C	423	C	752	C
86	86 + 87 + 97 + 108 + 119 + 125	1,100	C	829	C	1,310	C G	758	C G	674	C G	1,560	C G
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	183	C	133	C	174	C	117	C	113	C	288	C
89		4.43	EMPC	1.71	U	3.79		3.01		2.84		6.39	
90	90 + 101 + 113	2,160	C	1,950	C	3,510	C	1,730	C	1,670	C	3,490	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		401		404		812		353		342		665	
93	93 + 95 + 98 + 100 + 102	835	C	653	C	979	C	563	C	552	C	1,320	C
94		4.04	EMPC	1.99	EMPC	2.17		1.84		1.87		4.30	
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		6.41	EMPC	1.88	EMPC	4.25		1.79		1.80		6.05	
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		15.8		11.6	EMPC	14.1		9.48		10.8		21.8	
104		0.947	U	0.507	U	0.261	EMPC	0.163	EMPC	0.237		0.420	
105		1,160		1,010		3,500		940		1,000		1,910	
106		12.0	U	8.48	U	0.874	U	0.583	U	0.544	U	0.304	U
107	107 + 124	95.8	C	56.8	C EMPC	132	C	71.0	C	62.2	C	128	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		251		262		677		223		285		408	
110	110 + 115	1,760	C	1,500	C	2,460	C	1,400	C	1,230	C	2,960	C
111		1.56	U	4.79	EMPC	9.55		3.48		5.06		5.82	
112		1.51	U	1.21	U	0.147	U	0.387	U	0.531	U	0.246	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		85.6	EMPC	68.4	EMPC	272		59.9		80.2		123	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		3,140		3,110		11,800		2,580		3,630		4,850	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		15.4		22.7		57.3		17.0		24.2		29.3	
121		2.91		2.35		4.77		1.76		2.26		3.49	
122		22.8	EMPC	9.72	U	7.66		12.1		5.37		22.8	
123		47.0	EMPC	53.1		148		43.0		55.3		81.1	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		15.7	U	10.7	U	25.9		6.03		9.55		12.6	

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results
(Page 10 of 12)

IUPAC #	COELUTING CONGENERS1	Reference 25 071027R06SB 10/27/2007		Reference 26 071115R07SB 11/15/2007		Reference 27 080517R10SB 5/17/2008		Reference 28 080517R11SB 5/17/2008		Reference 29 080517R12SB 5/17/2008		Reference 30 080517R13SB 5/17/2008	
127		12.5	U	8.83	U	0.900	U	0.600	U	0.561	U	0.326	U
128	128 + 166	713	C	704	C	2,400	C	545	C	551	C	1,060	C
129	129 + 138 + 160 + 163	4,680	C	5,240	C	15,500	C	4,390	C	5,020	C	7,510	C
130		282		239		405		265		246		459	
131		29.4		12.2	EMPC	13.7		17.9		11.3		36.5	
132		550		381		378		406		324		922	
133		97.8		111		280		87.2		105		163	
134	134 + 143	137	C	80.5	C	84.4	C	80.0	C	65.9	C	176	C
135	135 + 151 + 154	913	C	904	C	1,690	C	834	C	814	C	1,590	C
136		147		131		178		119		116		274	
137		178		166		720		104		151		245	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	73.6	C	75.5	C	258	C	59.3	C	62.5	C	123	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		337		269		660		191		225		432	
142		6.52	U	11.4	U	0.798	U	0.703	U	0.731	U	0.625	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		99.9		70.9		98.1		73.8		65.3		153	
145		0.733	U	0.571	U	0.0486	U	0.296	EMPC	0.235	EMPC	0.737	
146		767		901		2,380		811		1,080		1,420	
147	147 + 149	1,980	C	1,400	C	1,340	C	1,470	C	1,250	C	3,160	C
148		7.79		7.82	EMPC	12.3		7.27		8.56		13.9	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		5.88	EMPC	3.81		2.54		3.48		4.18		7.60	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.675	U	1.14		3.06		1.08		1.18		2.32	
153	153 + 168	4,230	C	5,710	C	18,200	C	4,080	C	5,650	C	7,260	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		3.02		5.00		15.2		4.36		4.97		7.66	
156	156 + 157	490	C	448	C	1,890	C	290	C	430	C	638	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		396		391		1,420		328		302		616	
159		10.4		8.50		14.1		10.9		10.6		19.0	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		4.66	U	8.16	U	0.574	U	0.506	U	0.525	U	0.440	U
162		19.2	EMPC	18.3		77.3		14.6		21.0		28.7	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		173		122		228		115		130		232	
165		5.26	U	9.22	U	11.3		3.51		5.19		6.60	
166	128 + 166		C128		C128		C128		C128		C128		C128
167		181		168		571		117		211		242	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		4.89	U	8.57	U	8.12	U	1.30	U	1.86	U	2.79	U
170		398		498		2,180		370		459		693	
171	171 + 173	208	C	241	C	966	C	214	C	201	C	380	C
172		83.6		93.3		305		75.7		86.3		138	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		254		185		231		198		194		375	
175		28.3	EMPC	26.3		58.6		25.8		27.6		46.7	
176		58.1		44.3		40.1		48.5		34.3		97.9	
177		441		382		633		496		437		829	
178		237		288		848		275		283		470	
179		230		229		411		250		215		478	
180	180 + 193	1,040	C	1,500	C	6,100	C	1,060	C	1,550	C	1,900	C
181		10.9		8.36	EMPC	45.2		6.76		9.23		12.9	
182		4.26		6.39	EMPC	20.5		4.59		6.47		8.23	
183	183 + 185	458	C	549	C	2,010	C	483	C	547	C	857	C
184		3.98	EMPC	5.95	EMPC	21.4		4.25		5.80		8.47	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.854	U	0.553	U	0.0631	U	0.0495	U	0.0484	U	0.0630	U
187		1,450		1,690		3,880		1,680		2,180		2,730	
188		3.35	EMPC	4.31	EMPC	9.74		4.19		5.68		7.24	
189		19.5	EMPC	23.2	EMPC	102		14.7		21.7		31.3	
190		144		201		912		169		198		292	
191		24.0		25.9		121		20.1		27.2		36.0	
192		0.908	U	0.588	U	0.0715	U	0.0495	U	0.0484	U	0.0720	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		138		208		661		133		153		244	
195		77.0		122		510		97.0		97.8		177	
196		85.8	EMPC	106		424		78.2		101		148	
197	197 + 200	27.0	C	32.3	C	85.6	C	27.0	C	25.0	C	52.0	C
198	198 + 199	210	C	261	C	582	C	228	C	241	C	420	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		40.2	EMPC	41.6		127		42.6		53.9		87.4	
202		125		205		485		143		121		265	
203		191		284		1,170		221		229		367	
204		0.683	U	0.578	U	1.66		0.365		0.472		0.738	
205		11.7		16.0		58.1		12.5		12.2		23.1	
206		76.4		136		357		86.2		77.0		137	
207		12.8		24.0		75.1		14.6		17.6		25.7	
208		29.7		44.4		90.6		37.3		32.8		60.2	
209		41.1	EMPC	72.3		153		45.7		41.5		67.6	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full RDL)		45.0	J	42.0	J	117	J	35.8	J	39.8	J	69.1	J
Total PCBs as Congeners (KM-based)		44.4	J	41.7	J	117	J	35.8	J	39.8	J	69.0	J
Total PCBs as Congeners (KM-based, capped)		44.4	J	41.7	J	117	J	35.8	J	39.8	J	69.0	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Reference 31 080517R14SB 5/17/2008		Reference 32 080521R15SB 5/21/2008		Reference 33 080521R16SB 5/21/2008		Reference 34 080521R17SB 5/21/2008		Reference 35 080521R18SB 5/21/2008		Reference 36 080521R19SB 5/21/2008		Reference 37 080521R20SB 5/21/2008		Reference 38 080521R21SB 5/21/2008	
Individual Congeners in pg/g (ng/kg), wet weight																	
1		0.476	EMPC	0.403		0.566	EMPC	0.444		0.471		0.655	EMPC	0.661	EMPC	0.345	
2		0.904		0.694		0.522		0.890		0.582	EMPC	0.715		0.890		0.397	
3		0.342	EMPC	0.398	EMPC	0.391	EMPC	0.513		0.430	EMPC	0.580		0.534		0.489	
4		3.44		3.34		2.23		3.63		3.48		4.84		3.90		2.68	
5		0.184	U	0.153	EMPC	0.261	U	0.191		0.366	U	0.213	U	0.511	U	0.340	U
6		1.76		1.73		1.68		1.75		1.88		3.08		1.64		1.56	
7		0.436		0.421		0.339		0.406		0.335		0.633		0.448	U	0.350	
8		7.37		8.61		6.55		8.90		7.56		11.5		8.04		8.52	
9		0.577		0.514		0.528		0.611		0.476		0.689		0.440	U	0.451	
10		0.163	U	0.125	U	0.231	U	0.141		0.307	U	0.179	U	0.427	U	0.284	U
11		223		206		75.5		475		117		416		298		117	
12	12 + 13	0.178	C U	3.04	C EMPC	0.251	C U	0.156	C U	0.358	C U	0.209	C U	0.499	C U	0.332	C U
13	12 + 13		C12		C12		C12		C12		C12		C12		C12		C12
14		0.176	U	0.134	U	0.248	U	0.148	U	0.339	U	0.198	U	0.473	U	0.315	U
15		2.07		3.50		1.75		3.19		1.90		4.86		3.21		2.39	
16		8.80		9.25		7.26		11.4		9.53		12.8		12.5		10.0	
17		12.2		12.9		11.7		15.7		13.8		18.7		16.3		14.2	
18	18 + 30	28.0	C	26.0	C	24.6	C	34.6	C	30.1	C	40.3	C	35.9	C	29.1	C
19		2.23		2.62		1.87		2.88		2.37		3.26		2.76		2.44	
20	20 + 28	128	C	173	C	186	C	175	C	169	C	193	C	164	C	139	C
21	21 + 33	22.7	C	29.2	C	34.9	C	36.8	C	34.4	C	43.2	C	35.0	C	30.2	C
22		27.2		39.3		36.4		42.8		33.8		46.5		38.9		32.7	
23		0.151		0.124	EMPC	0.149		0.148		0.214		0.172	U	0.180	U	0.145	U
24		0.427	EMPC	0.427		0.399		0.594	EMPC	0.409	EMPC	0.688		0.138	U	0.662	EMPC
25		3.44		7.01		23.0		9.40		7.34		9.70		6.17		6.02	
26	26 + 29	12.6	C	18.7	C	47.1	C	22.3	C	19.3	C	23.3	C	18.4	C	16.2	C
27		2.00		1.87		1.64		2.76		2.43		3.03		3.11		2.31	
28	20 + 28		C20		C20		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18		C18		C18
31		59.7		94.4		99.6		101		82.5		110		84.5		81.7	
32		3.78		4.69		10.3		4.44		4.63		6.09		3.91		5.54	
33	21 + 33		C21		C21		C21		C21		C21		C21		C21		C21
34		0.326		0.501	EMPC	1.27		0.566		0.729		0.627		0.555	EMPC	0.353	EMPC
35		0.0499	U	0.0480	U	0.0832	U	0.107	U	0.203	U	0.203	U	0.213	U	0.172	U
36		0.0484	U	0.0480	U	0.0714	U	0.0919	U	0.176	U	0.175	U	0.184	U	0.148	U
37		11.5		17.6		16.5		18.8		10.0		21.0		13.4		14.0	
38		0.101	EMPC	0.154	EMPC	0.356	EMPC	0.261	EMPC	0.180	U	0.251	EMPC	0.188	U	0.152	U
39		0.998		1.49		2.02		1.68		1.51		2.03		1.75		0.150	U
40	40 + 41 + 71	30.0	C	54.2	C	126	C	68.7	C	60.0	C	90.6	C	61.2	C	65.1	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40		C40		C40
42		24.9		46.0		97.4		57.1		53.5		74.7		58.0		47.3	
43		5.23		5.30		9.49		8.90		10.9		12.8		10.7		7.92	
44	44 + 47 + 65	182	C	270	C	781	C	326	C	350	C	432	C	327	C	300	C
45	45 + 51	8.20	C	12.8	C	22.8	C	15.4	C	9.12	C EMPC	21.3	C	13.0	C	15.2	C
46		1.93		3.65		5.61		4.01		2.93		4.92		3.37		3.51	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44		C44		C44
48		24.1		30.1		39.8		38.1		39.8		53.4		44.5		32.9	
49	49 + 69	113	C	218	C	697	C	259	C	278	C	342	C	219	C	248	C
50	50 + 53	6.37	C	11.5	C	29.8	C	14.7	C	12.3	C	19.8	C	12.6	C	13.2	C
51	45 + 51		C45		C45		C45		C45		C45		C45		C45		C45
52		304		438		1,090		495		544		658		520		487	
53	50 + 53		C50		C50		C50		C50		C50		C50		C50		C50
54		0.177		0.428		0.980		0.318		0.298		0.425	EMPC	0.207		0.376	
55		0.136	U	0.208	U	0.333	U	0.204	U	0.393	U	0.393	U	0.389	U	0.326	U
56		35.0		87.3		206		112		73.3		128		74.8		88.8	
57		1.61		2.50		7.77		2.59		2.60		3.15		2.12		2.88	
58		0.930		2.04		5.14		3.12		2.38		3.12		2.27		2.53	
59	59 + 62 + 75	14.5	C	23.4	C	35.3	C	28.2	C	31.7	C	38.4	C	30.0	C	26.0	C
60		110		145		332		143		193		212		152		142	
61	61 + 70 + 74 + 76	664	C	974	C	4,660	C	992	C	1,120	C	1,390	C	905	C	1,010	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59		C59		C59
63		39.1		35.6		184		32.7		47.2		48.6		35.8		36.1	
64		83.5		136		190		151		158		204		156		146	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44		C44		C44
66		670		679		3,880		642		942		907		686		638	
67		5.21		9.34		25.7		10.6		9.50		15.6		8.27		10.7	
68		9.84		9.61		69.5		10.9		10.8		13.4		8.27		10.5	
69	49 + 69		C49		C49		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40		C40		C40
72		7.29		12.8		55.4		13.8		13.9		17.5		10.4		13.2	
73		0.0484	U	0.0480	U	0.0491	U	0.0526	U	0.0707	U	0.0760	U	0.111	U	0.0875	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61		C61
77		54.8		49.3		172		53.7		59.7		70.1		52.8		49.7	
78		0.137	U	0.209	U	0.334	U	0.208	U	0.401	U	0.401	U	0.396	U	0.333	U
79		8.15		15.2		247		22.0		19.3		29.7		21.7		21.5	
80		1.00		0.862		0.286	U	0.177	U	0.341	U	0.341	U	0.337	U	1.19	
81		2.63		2.35		15.9		3.40		4.06		3.76		2.02		3.11	
82		16.7		68.4		751		86.3		79.6		125		58.9		93.5	
83	83 + 99	1,730	C	1,800	C	23,200	C	1,780	C	2,600	C	3,010	C	1,980	C	2,330	C
84		47.6		144		511		149		126		240		125		177	
85	85 + 116 + 117	465	C	533	C	5,890	C	554	C	829	C	902	C	632	C	654	C
86	86 + 87 + 97 + 108 + 119 + 125	441	C G	939	C G	10,500	C	1,100	C G	1,170	C	1,730	C G	1,050	C	1,370	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
88	88 + 91	51.7	C	138	C	838	C	155	C	137	C	253	C	131	C	196	C
89		1.16		3.30		5.90		3.32		3.75		5.15		2.88		4.12	
90	90 + 101 + 113	1,180	C	2,090	C	17,900	C	2,320	C	2,470	C	3,810	C	2,280	C	2,800	C
91	88 + 91		C88		C88		C88		C88		C88		C88		C88		C88
92		278		429		2,210		448		523		751		471		586	
93	93 + 95 + 98 + 100 + 102	354	C	672	C	3,370	C	702	C	733	C	1,150	C	694	C	848	C
94		0.492		1.63		3.40		2.08		1.47		3.51		1.31		2.90	
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
96		1.20		2.02		4.83		2.30		2.37		3.37		2.24		2.62	EMPC
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
103		3.76		11.0		47.8		12.7		12.1		22.1		10.1		16.8	
104		0.0808	U	0.220		0.223	EMPC	0.231		0.230		0.408	EMPC	0.245	U	0.343	EMPC
105		1,370		1,310		23,400		1,320		2,000		2,090		1,440		1,680	
106		0.436	U	0.316	U	1.96	U	0.536	U	1.18	U	0.686	U	0.786	U	0.548	U
107	107 + 124	57.7	C	90.0	C	1,540	C	91.4	C	90.9	C	141	C	81.9	C	118	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
109		373		308		6,030		290		443		522		362		382	
110	110 + 115	807	C	1,770	C	10,600	C	1,960	C	2,040	C	2,910	C	1,890	C	2,320	C
111		5.29		4.35		10.7		4.28		6.68	EMPC	8.35		4.00		5.35	
112		0.314	U	0.382	U	0.181	U	0.561	U	0.801	U	0.217	U	0.366	U	0.439	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90		C90		C90
114		145		87.2		2,910		82.6		132		137		97.1		106	
115	110 + 115		C110		C110		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85		C85		C85
118		6,210		3,740		98,600		3,650		5,970		5,350		4,780		4,460	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
120		29.9		21.9		57.7		22.0		32.8		37.4		28.1		27.0	
121		1.67		2.21		2.34		2.30		2.98		4.51		2.56		2.73	
122		6.75		15.3		234		19.8		10.3		28.4		9.82		20.6	
123		104		60.6		1,830		64.8		84.0		80.2		76.1		69.1	
124	107 + 124		C107		C107		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
126		14.3		9.45		74.6		9.01		13.4		12.9		10.7		8.65	

Table H-7
Smallmouth Bass and Sucker PCB Congener Analysis Results
(Page 12 of 12)

IUPAC #	COELUTING CONGENERS1	Reference 31 080517R14SB 5/17/2008		Reference 32 080521R15SB 5/21/2008		Reference 33 080521R16SB 5/21/2008		Reference 34 080521R17SB 5/21/2008		Reference 35 080521R18SB 5/21/2008		Reference 36 080521R19SB 5/21/2008		Reference 37 080521R20SB 5/21/2008		Reference 38 080521R21SB 5/21/2008	
127		0.469	U	0.339	U	2.10	U	0.575	U	1.27	U	0.735	U	0.843	U	0.587	U
128	128 + 166	702	C	720	C	7,850	C	727	C	1,120	C	1,250	C	849	C	912	C
129	129 + 138 + 160 + 163	6,520	C	5,160	C	66,800	C	5,450	C	7,870	C	9,990	C	6,720	C	6,760	C
130		225		298		3,900		292		296		570		303		407	
131		4.60		20.5		261		19.5		15.0		38.7		14.7		27.5	
132		167		532		3,600		476		394		867		411		640	
133		134		105		804		92.1		145		194		128		131	
134	134 + 143	36.7	C	94.8	C	718	C	87.3	C	80.1	C	176	C	85.1	C	117	C
135	135 + 151 + 154	648	C	936	C	2,980	C	914	C	1,070	C	1,870	C	1,110	C	1,270	C
136		74.2		140		558		133		137		254		151		197	
137		275		164		8,560		171		299		271		203		218	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129		C129
139	139 + 140	70.5	C	73.9	C	771	C	68.1	C	108	C	136	C	87.0	C	96.9	C
140	139 + 140		C139		C139		C139		C139		C139		C139		C139		C139
141		182		244		3,540		288		420		484		313		351	
142		0.628	U	0.484	U	2.21	U	0.792	U	0.955	U	1.19	U	1.32	U	0.984	U
143	134 + 143		C134		C134		C134		C134		C134		C134		C134		C134
144		40.2		83.9		755		84.1		83.6		174		85.6		123	
145		0.0484	U	0.283	EMPC	1.08		0.379		0.206		0.571	EMPC	0.405	EMPC	0.443	EMPC
146		1,550		924		11,400		899		1,320		1,790		1,210		1,230	
147	147 + 149	640	C	1,720	C	13,000	C	1,610	C	1,310	C	3,260	C	1,440	C	2,140	C
148		4.53		7.54		12.8		7.57		8.46		17.6		8.00		11.2	
149	147 + 149		C147		C147		C147		C147		C147		C147		C147		C147
150		1.22		3.59		11.4		3.71		2.87		9.05		3.21		5.99	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135		C135		C135
152		0.993		1.28		4.30		1.24		1.50		2.29		1.57		1.75	EMPC
153	153 + 168	9,040	C	5,090	C	69,500	C	4,850	C	8,170	C	9,180	C	7,410	C	5,650	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135		C135		C135
155		6.33		4.80		3.55		4.60		7.90		10.2		7.21		6.63	
156	156 + 157	882	C	447	C	20,000	C	420	C	786	C	714	C	557	C	544	C
157	156 + 157		C156		C156		C156		C156		C156		C156		C156		C156
158		402		406		4,520		412		606		798		490		557	
159		7.57		11.4		71.6		14.3		13.3		25.2		14.1	EMPC	15.4	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129		C129
161		0.442	U	0.341	U	1.55	U	0.555	U	0.670	U	0.836	U	0.928	U	0.690	U
162		35.3		19.0		442		20.0		36.0		38.6		27.9		23.5	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129		C129
164		97.1		145		2,010		143		169		228		167		185	
165		5.19		4.18		12.9		3.83		6.28		8.53		4.82		4.99	EMPC
166	128 + 166		C128		C128		C128		C128		C128		C128		C128		C128
167		380		180		6,540		175		286		242		276		198	
168	153 + 168		C153		C153		C153		C153		C153		C153		C153		C153
169		3.07	U	1.54	U	6.62	U	2.16	U	4.82	U	5.96	U	3.56	U	2.10	U
170		831		480		7,510		491		866		887		636		522	
171	171 + 173	305	C	246	C	1,020	C	245	C	389	C	548	C	345	C	311	C
172		114		86.5		869		98.0		159		193		115		101	
173	171 + 173		C171		C171		C171		C171		C171		C171		C171		C171
174		121		212		1,480		242		220		447		235		270	
175		28.3		27.7		142		29.3		36.0		71.5		37.1		39.4	
176		19.0		54.9		134		50.4		37.4		124		45.7		76.9	
177		417		512		2,030		503		462		1,220		550		675	
178		338		307		584		291		422		683		419		384	
179		154		264		271		244		243		549		315		348	
180	180 + 193	3,000	C	1,300	C	15,600	C	1,380	C	2,670	C	2,870	C	2,110	C	1,460	C
181		15.7		9.11		258		10.0		16.8		18.8		14.4		12.0	
182		6.95		5.64		27.5		7.89		13.4		15.8		10.7		9.23	
183	183 + 185	759	C	542	C	2,520	C	583	C	904	C	1,290	C	843	C	700	C
184		7.07		5.00		4.75		4.51		8.34		10.9		8.55		6.70	
185	183 + 185		C183		C183		C183		C183		C183		C183		C183		C183
186		0.0484	U	0.0597	U	0.0594	U	0.0919	U	0.126	U	0.158	U	0.187	U	0.175	U
187		2,640		1,750		6,820		1,800		2,510		4,090		2,650		2,330	
188		6.31		4.57		10.8		4.36		6.67		10.1		6.91		6.04	
189		44.4		19.7		532		20.9		38.6		37.5		29.5		20.5	
190		411		209		1,520		217		381		431		345		243	
191		48.3		25.3		308		28.4		52.0		59.5		42.3		31.9	
192		0.0500	U	0.0682	U	0.0679	U	0.119	U	0.163	U	0.205	U	0.242	U	0.226	U
193	180 + 193		C180		C180		C180		C180		C180		C180		C180		C180
194		344		163		1,150		157		285		289		204		134	
195		219		105		385		91.8		172		195		146		97.2	
196		189		93.1		478		97.1		187		193		147		96.2	
197	197 + 200	31.1	C	27.0	C	57.7	C	28.7	C	39.2	C	64.3	C	35.1	C	35.1	C
198	198 + 199	348	C	263	C	1,020	C	277	C	465	C	532	C	315	C	248	C
199	198 + 199		C198		C198		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197		C197		C197
201		71.0		46.1		113		43.6		66.9		110		67.6		55.1	
202		186		161		191		144		232		348		198		166	
203		443		255		621		252		468		506		364		234	
204		0.657		0.459		0.633		0.427		1.06		0.932	EMPC	0.540		0.491	EMPC
205		23.2		13.7		43.2		13.8		22.9		28.6		19.2		13.4	
206		131		96.9		245		94.4		185		171		107		70.8	
207		31.7		16.4		45.4		14.9		34.4		30.8		23.3		15.2	
208		44.9		37.9		71.8		37.0		65.3		73.0		38.9		31.0	
209		65.0		38.1		65.6		43.1		67.2		77.6		52.2		31.7	
Total PCBs as Congeners in ug/kg, wet weight																	
Total PCBs as Congeners (full EMPC/full RDL)		50.2	J	43.1	J	499	J	44.2	J	60.6	J	77.9	J	53.0	J	52.8	J
Total PCBs as Congeners (KM-based)		50.2	J	43.1	J	499	J	44.2	J	60.6	J	77.9	J	52.9	J	52.8	J
Total PCBs as Congeners (KM-based, capped)		50.2	J	43.1	J	499	J	44.2	J	60.6	J	77.9	J	52.9	J	52.8	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay P04 08022604SD 2/26/2008		Forebay P07 08021507SD 2/15/2008		Forebay P08 08021508SD 2/15/2008		Forebay P09 08021409SD 2/14/2008		Forebay P10 08021410SD 2/14/2008		Forebay P11 08021411SD 2/14/2008	
Individual Congeners in pg/g (ng/kg), dry weight													
1		1.16		0.181		0.168		0.296	EMPC	0.324	EMPC	0.257	
2		2.78		1.28		1.69		6.62		4.86		4.76	
3		0.500	EMPC	0.206		0.252	EMPC	0.467		0.416	EMPC	0.351	
4		7.11		1.46		0.628		0.985		0.566		2.24	
5		0.0659	U	0.0521	U	0.0719	U	0.0625	U	0.0504	U	0.0438	U
6		0.897		0.254		0.219	EMPC	0.352		0.292		0.736	
7		0.597		0.163	EMPC	0.124		0.222	EMPC	0.172		0.131	EMPC
8		4.61		1.14		0.958		1.67		1.52		3.83	
9		0.758		0.149	EMPC	0.0830	EMPC	0.161		0.119		0.197	
10		0.323		0.0670	EMPC	0.0653	U	0.0569	U	0.0477	U	0.0670	
11		79.5		42.6		52.6		68.8		84.4		86.8	
12	12 + 13	1.52	C	0.503	C EMPC	0.551	C	0.974	C	0.803	C EMPC	1.15	C
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.0612	U	0.0484	U	0.0668	U	0.0581	U	0.0477	U	0.0660	
15		6.40		1.67		2.01		2.76		3.26		4.26	
16		1.71		0.667		0.457		0.942		0.813		5.69	
17		12.1		2.28		1.14		2.44		2.67		5.25	
18	18 + 30	12.0	C	2.74	C	1.55	C	3.07	C	2.33	C	11.2	C
19		4.73		0.986		0.362		0.878	EMPC	0.394		1.56	
20	20 + 28	52.9	C	5.68	C	5.61	C	10.1	C	13.2	C	20.7	C
21	21 + 33	12.8	C	2.15	C	1.59	C	3.91	C	2.78	C	10.1	C
22		7.70		1.29		1.45		2.42		2.37		7.51	
23		0.0491	U	0.0473	U	0.0505	U	0.0495	U	0.0477	U	0.0368	U
24		0.135	EMPC	0.0473	U	0.0478	U	0.0590	EMPC	0.0477	U	0.176	
25		20.9		0.608		0.449	EMPC	0.825		0.937		1.36	
26	26 + 29	32.7	C	0.970	C	0.717	C	1.39	C	1.39	C	3.07	C
27		4.33		0.726		0.374		0.747		0.524		0.864	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		36.7		4.32		3.62		6.58		5.89		15.5	
32		13.5		1.06		0.448		1.00		0.918		3.13	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.463		0.0473	U	0.0485	U	0.0790	EMPC	0.0650	EMPC	0.0810	
35		0.488		0.173	EMPC	0.305		0.346		0.440		0.617	
36		0.132		0.0473	U	0.128	EMPC	0.106		0.143		0.154	
37		8.11		1.63		2.05		3.00		3.20		6.47	
38		0.106	EMPC	0.0473	U	0.0550	EMPC	0.129	EMPC	0.0960	EMPC	0.131	
39		0.451	EMPC	0.0580	EMPC	0.0478	U	0.0780	EMPC	0.0560	EMPC	0.104	
40	40 + 41 + 71	97.6	C	7.84	C	3.21	C	7.96	C	4.57	C	7.50	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		39.8		4.32		1.92		4.65		2.83		4.07	
43		4.96	EMPC	0.653		0.296		0.591	EMPC	0.459		0.559	
44	44 + 47 + 65	403	C	37.0	C	15.7	C	34.8	C	19.0	C	17.1	C
45	45 + 51	21.6	C	1.45	C	0.655	C	0.927	C	0.631	C	2.37	C
46		7.95		0.607		0.222		0.607		0.343		0.817	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		14.7		1.79		1.01		2.24		1.46		3.00	
49	49 + 69	299	C	23.0	C	10.2	C	24.2	C	12.1	C	9.54	C
50	50 + 53	49.8	C	3.87	C	1.49	C	3.50	C	2.18	C	1.89	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		964		87.0		34.1		70.8		32.2		24.7	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		1.28		0.109	EMPC	0.0478	U	0.136		0.0540	EMPC	0.0420	EMPC
55		4.34		0.597		0.203		0.676	EMPC	0.307		0.134	U
56		117		9.68		5.45		10.4		6.92		7.60	
57		1.19		0.0895	U	0.0814	U	0.144	U	0.146	U	0.134	U
58		1.47		0.127	EMPC	0.130	EMPC	0.178	EMPC	0.146	U	0.134	U
59	59 + 62 + 75	9.53	C	0.900	C	0.549	C	1.43	C	1.02	C	1.47	C
60		49.7		3.95		2.89		4.71		3.40		4.48	
61	61 + 70 + 74 + 76	1,250	C	85.8	C	45.7	C	85.7	C	45.6	C	33.0	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		12.7		0.963		0.711	EMPC	1.46		0.822		0.708	
64		137		13.6		6.70		13.2		6.89		7.10	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		356		27.3		16.8		33.3		20.5		17.1	
67		4.03		0.185		0.164	EMPC	0.292	EMPC	0.265		0.483	
68		2.56		0.131	EMPC	0.0830	EMPC	0.451	EMPC	0.245	EMPC	0.130	U
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		3.55		0.236		0.148	EMPC	0.582		0.277		0.175	EMPC
73		0.0491	U	0.0473	U	0.0478	U	0.0495	U	0.0477	U	0.0368	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		7.09		1.10		1.21		1.99		1.98		2.31	
78		0.406	U	0.0865	U	0.0786	U	0.139	U	0.141	U	0.130	U
79		21.7		1.16		0.648		1.44	EMPC	0.660		0.389	EMPC
80		0.373	U	0.0795	U	0.0723	U	0.128	U	0.130	U	0.119	U
81		3.40	EMPC	0.192	EMPC	0.103	EMPC	0.140	U	0.147	EMPC	0.129	U
82		232		14.0		7.06		14.7		6.50		4.67	
83	83 + 99	1,360	C	73.4	C	42.6	C	86.0	C	40.9	C	26.0	C
84		493		36.4		15.1		34.0		15.0		10.4	
85	85 + 116 + 117	426	C	25.2	C	15.2	C	27.6	C	14.0	C	9.40	C
86	86 + 87 + 97 + 108 + 119 + 125	1,580	C	93.4	C	48.4	C	94.5	C	43.7	C	31.9	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	292	C	20.0	C	9.18	C	19.3	C	9.36	C	5.51	C
89		13.0		0.851		0.414		0.905		0.389		0.301	
90	90 + 101 + 113	2,180	C	125	C	66.3	C	136	C	63.0	C	47.1	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		368		22.1		11.4		24.4		12.2		9.40	
93	93 + 95 + 98 + 100 + 102	1,550	C	121	C	51.8	C	105	C	48.0	C	35.6	C
94		6.65		0.476		0.202	EMPC	0.483	EMPC	0.226		0.141	
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		6.32		0.653		0.239		0.588		0.268		0.178	
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		8.63		0.599		0.325		0.880		0.428		0.275	
104		0.127	EMPC	0.0473	U	0.0478	U	0.0495	U	0.0477	U	0.0368	U
105		1,080		47.5		33.5		57.2		31.1		21.1	
106		2.43	U	0.178	U	0.138	U	0.127	U	0.117	U	0.0860	U
107	107 + 124	95.4	C	4.00	C	2.83	C	5.10	C	2.53	C	2.05	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		149		7.04		5.17		10.0		4.91		3.90	
110	110 + 115	2,690	C	171	C	90.1	C	171	C	84.3	C	59.2	C
111		0.216	U	0.0479	U	0.0478	U	0.0675	U	0.0477	U	0.0378	U
112		0.210	U	0.0473	U	0.0478	U	0.0656	U	0.0477	U	0.0368	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		60.3		2.80		1.85		3.27		1.71	EMPC	1.17	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		2,650		131		92.6		145		79.4		52.8	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		0.780	EMPC	0.106	EMPC	0.113	EMPC	0.317		0.229		0.206	
121		0.219	U	0.0486	U	0.0478	U	0.0684	U	0.0477	U	0.0384	U
122		27.2		1.25		0.806	EMPC	1.61		0.725		0.557	
123		36.3		1.90	EMPC	1.44		2.04		1.19		0.859	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		2.69	U	0.203	U	0.177	EMPC	0.219	EMPC	0.252	EMPC	0.212	EMPC
127		2.51	U	0.184	U	0.143	U	0.131	U	0.121	U	0.0888	U

Table H-8
Sediment PCB Congener Analysis Results
(Page 2 of 14)

IUPAC #	COELUTING CONGENERS[1]	Forebay P04 08022604SD 2/26/2008		Forebay P07 08021507SD 2/15/2008		Forebay P08 08021508SD 2/15/2008		Forebay P09 08021409SD 2/14/2008		Forebay P10 08021410SD 2/14/2008		Forebay P11 08021411SD 2/14/2008	
128	128 + 166	445	C	14.7	C	13.0	C	26.5	C	14.6	C	12.6	C
129	129 + 138 + 160 + 163	2,340	C	85.9	C	74.2	C	138	C	82.5	C	74.2	C
130		142		5.14		4.29		9.23		5.29		4.88	
131		32.4		1.11		0.742		1.68		0.881		0.775	
132		725		25.2		18.0		41.8		21.2		18.9	
133		19.8		0.866		0.791		1.68		1.07		1.06	
134	134 + 143	105	C	3.84	C	2.73	C	6.51	C	3.33	C	2.98	C
135	135 + 151 + 154	376	C	18.3	C	13.9	C	31.4	C	19.9	C	20.0	C
136		152		7.76		4.71		11.5		6.15		5.68	
137		178		5.16		4.31		7.92		3.75		3.11	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	48.2	C	1.68	C	1.26	C	2.77	C	1.42	C	1.23	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		273		7.76		6.16		15.0		7.60		7.88	
142		1.16	U	0.120	U	0.114	U	0.162	U	0.133	U	0.106	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		54.6		2.38		1.89		3.90		2.10		2.20	
145		0.838		0.0473	U	0.0478	U	0.0740	EMPC	0.0477	U	0.0368	U
146		269		12.4		10.9		20.0		12.5		11.9	
147	147 + 149	1,190	C	49.0	C	37.0	C	81.3	C	46.6	C	44.6	C
148		0.844		0.0660	EMPC	0.0478	U	0.184	EMPC	0.139		0.104	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		1.54		0.0690	EMPC	0.0760	EMPC	0.181		0.106		0.106	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		1.80		0.0780		0.0490	EMPC	0.104	EMPC	0.0600		0.0630	
153	153 + 168	1,580	C	72.6	C	62.0	C	101	C	68.0	C	64.4	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.0491	U	0.0473	U	0.0478	U	0.0495	U	0.0477	U	0.0490	EMPC
156	156 + 157	380	C	12.0	C	10.4	C	19.5	C	10.6	C	8.74	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		245		7.81		6.61		13.0		6.91		6.31	
159		6.36		0.232	EMPC	0.266		0.609		0.443		0.485	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.822	U	0.0849	U	0.0804	U	0.115	U	0.0940	U	0.0746	U
162		8.11		0.182	EMPC	0.211		0.410	EMPC	0.233		0.226	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		118		4.42		3.36		7.97		4.40		4.03	
165		0.934	U	0.0964	U	0.0913	U	0.130	U	0.107	U	0.0848	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		113		4.52		4.30		6.33		3.91		3.49	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.879	U	0.0923	U	0.0881	U	0.126	U	0.123	U	0.111	U
170		190		5.53		6.14		14.4		10.6		10.4	
171	171 + 173	59.2	C	1.88	C	2.28	C	5.17	C	4.06	C	4.13	C
172		30.1		0.852		1.03		2.77		2.17		2.27	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		127		4.02		4.53		12.2		9.72		9.65	
175		5.87		0.255		0.284		0.608		0.448		0.518	
176		18.1		0.625		0.761		1.82		1.39		1.56	
177		81.6		3.74		4.69		9.64		8.49		8.98	
178		22.1		1.24		1.68		3.52		3.40		3.56	
179		38.9		2.04		2.65		5.88		5.29		5.73	
180	180 + 193	316	C	11.2	C	12.7	C	29.1	C	23.7	C	24.3	C
181		4.54		0.153		0.108	EMPC	0.281	EMPC	0.180	EMPC	0.165	
182		1.41		0.0750		0.0490	EMPC	0.172	EMPC	0.108	EMPC	0.108	
183	183 + 185	102	C	3.96	C	4.58	C	10.2	C	8.38	C	9.08	C
184		0.168	EMPC	0.0473	U	0.0478	U	0.0600		0.0670	EMPC	0.0670	EMPC
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.104	EMPC	0.0473	U	0.0478	U	0.0495	U	0.0477	U	0.0368	U
187		153		8.76		11.1		24.3		22.0		23.4	
188		0.149		0.0473	U	0.0478	U	0.0710	EMPC	0.0730		0.0590	
189		9.01		0.331	EMPC	0.347	EMPC	0.787		0.617		0.589	
190		34.6		1.45		1.66		3.47		2.87		2.98	EMPC
191		7.46		0.220		0.242		0.569		0.450		0.483	
192		0.0491	U	0.0473	U	0.0478	U	0.0495	U	0.0477	U	0.146	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		40.4		2.08		2.94		6.83		6.09		5.38	
195		17.3		1.21		1.71		3.36		3.03		2.99	
196		21.7		1.11		1.48		3.79		3.17		3.05	
197	197 + 200	9.25	C J	0.610	C	0.726	C	1.23	C J	1.09	C J	1.74	C
198	198 + 199	42.6	C	2.80	C	4.05	C	9.73	C	8.92	C	8.23	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		5.47		0.371	EMPC	0.596		1.31		1.08		1.16	
202		10.2		1.02		1.57		3.19		2.96		3.06	
203		31.2		2.26		3.40		6.95		6.36		6.09	
204		0.0491	U	0.0473	U	0.0478	U	0.0495	U	0.0477	U	0.0368	U
205		2.56		0.158	EMPC	0.235	EMPC	0.437	EMPC	0.406		0.404	EMPC
206		15.5		1.88		2.85		6.96		6.35		5.52	
207		2.22		0.254	EMPC	0.405	EMPC	0.948		0.888		0.810	
208		3.84		0.707		0.988	EMPC	2.56		2.35		2.11	
209		7.48		1.85		2.94		7.14		7.75		7.16	
Total PCBs as Congeners in ug/kg, dry weight													
Total PCBs as Congeners (full EMPC/full SDL)		29.7	J	1.70	J	1.09	J	2.10	J	1.24	J	1.13	J
Total PCBs as Congeners (KM-based)		29.7	J	1.69	J	1.08	J	2.10	J	1.24	J	1.12	J
Total PCBs as Congeners (KM-based, capped)		29.7	J	1.69	J	1.08	J	2.10	J	1.24	J	1.12	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay P15 08022115SD 2/21/2008		Forebay P16 08022116SD 2/21/2008		Forebay P17 08022117SD 2/21/2008		Forebay P18 08021118SD 2/11/2008		Forebay P21 08021221SD 2/12/2008		Forebay P05 08031905SD 3/19/2008	
Individual Congeners in pg/g (ng/kg), dry weight													
1		0.671		0.298	EMPC	0.337	EMPC	0.183		0.212		0.179	
2		6.34		6.03		4.21		1.54		3.61		0.113	U
3		0.515		0.387	EMPC	0.371	EMPC	0.245	EMPC	0.294	EMPC	0.153	EMPC
4		0.965		0.892		0.457		0.466		0.386		0.777	
5		0.0700	EMPC	0.0493	U	0.0669	UJ	0.0480	U	0.0488	U	0.0479	U
6		0.431		0.472		0.294	EMPC	0.215		0.230		0.182	
7		0.133	EMPC	0.155	EMPC	0.0920	J	0.122		0.134		0.153	
8		1.95		2.65		1.27	J	0.978		1.01		0.394	U
9		0.107	EMPC	0.147		0.0800	EMPC	0.0600		0.0570		0.0750	EMPC
10		0.0618	U	0.0478	U	0.0585	UJ	0.0478	U	0.0488	U	0.0580	
11		118		92.2		65.2	J	71.5		71.1		11.9	
12	12 + 13	1.04	C EMPC	1.10	C	0.776	C J	0.740	C	0.936	C	0.185	C EMPC
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.0720		0.0640	EMPC	0.0605	UJ	0.0478	U	0.0488	U	0.0479	U
15		2.83		4.36		2.33		1.75		2.70		0.676	
16		1.99		2.09		0.817	EMPC	0.759		0.521		0.163	EMPC
17		2.18		2.47		0.970		0.759		0.646		0.804	
18	18 + 30	4.79	C	4.66	C	2.04	C	1.96	C	1.42	C	1.23	C
19		0.399		0.559	EMPC	0.255	EMPC	0.201	EMPC	0.161	EMPC	0.524	
20	20 + 28	10.7	C	13.2	C	8.21	C	5.31	C	5.49	C	1.30	C
21	21 + 33	3.53	C	5.27	C	2.87	C	1.49	C	1.53	C	0.315	C U
22		3.83		3.99		2.70		1.89		1.58		0.319	
23		0.0618	U	0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
24		0.0660	EMPC	0.0880	EMPC	0.0475	U	0.0478	U	0.0488	U	0.0479	U
25		0.600		0.861		0.435		0.250		0.250	EMPC	0.628	
26	26 + 29	1.28	C	1.73	C	0.922	C	0.498	C	0.529	C	0.781	C
27		0.429		0.377		0.140		0.182		0.114		0.282	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		7.18		8.59		5.58		3.50		3.35		0.971	
32		0.820		1.15		0.661		0.321		0.221		0.755	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.0618	U	0.0630		0.0475	U	0.0478	U	0.0488	U	0.0479	U
35		0.516		0.532		0.344		0.298		0.347	EMPC	0.0479	U
36		0.163		0.117		0.106	EMPC	0.0910	EMPC	0.115	EMPC	0.0479	U
37		4.00		5.01		2.94		2.21		2.60		0.396	U
38		0.175		0.115	EMPC	0.0920		0.0570	EMPC	0.0580		0.0479	U
39		0.0920	EMPC	0.0560	EMPC	0.0475	U	0.0478	U	0.0488	U	0.0479	U
40	40 + 41 + 71	4.98	C	3.83	C	2.55	C	2.30	C	1.52	C	1.38	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		3.66		2.43		1.55		1.75		1.11		0.724	
43		0.356		0.230	EMPC	0.191		0.143		0.119		0.105	
44	44 + 47 + 65	14.8	C	9.75	C	6.35	C	7.14	C	5.02	C	6.40	C
45	45 + 51	1.48	C	1.15	C	0.783	C	0.602	C	0.443	C	0.553	C
46		0.458		0.399		0.235		0.178	EMPC	0.142	EMPC	0.208	EMPC
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		2.11		1.63		1.05		1.05		0.680		0.241	
49	49 + 69	7.72	C	5.59	C	3.86	C	3.62	C	3.08	C	4.07	C
50	50 + 53	1.46	C	1.05	C	0.666	C	0.620	C	0.408	C	1.38	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		17.0		11.8		8.12		8.54		7.33		13.1	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0618	U	0.0478	U	0.0486	U	0.0478	U	0.0488	U	0.0900	EMPC
55		0.189	EMPC	0.171		0.208		0.180		0.172	EMPC	0.0802	U
56		6.32		5.47		4.29		3.56		2.64		1.28	
57		0.128	U	0.0742	U	0.0854	U	0.112	U	0.0915	U	0.0768	U
58		0.135	U	0.0781	U	0.0898	U	0.118	U	0.0963	U	0.0808	U
59	59 + 62 + 75	1.13	C	0.879	C	0.577	C	0.567	C	0.450	C	0.122	C
60		3.63		2.95		2.70		2.45		1.92		0.701	
61	61 + 70 + 74 + 76	26.9	C	22.2	C	18.5	C	15.4	C	13.3	C	11.8	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		0.726		0.534		0.477		0.379		0.347	EMPC	0.127	EMPC
64		5.91		4.42		3.35		3.30		2.45		1.99	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		15.7		13.0		10.6		9.17		8.20		4.20	
67		0.368		0.341		0.225	EMPC	0.155		0.164		0.0675	U
68		0.158	EMPC	0.140	EMPC	0.0827	U	0.109	U	0.0886	U	0.0744	U
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		0.215	EMPC	0.174	EMPC	0.103	EMPC	0.109	U	0.0887	U	0.0744	U
73		0.0618	U	0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		2.40		2.17		1.51		1.32		1.47		0.209	
78		0.127	U	0.0734	U	0.0845	U	0.111	U	0.0905	U	0.0760	U
79		0.482		0.379		0.227	EMPC	0.205	EMPC	0.248		0.186	EMPC
80		0.117	U	0.0680	U	0.0783	U	0.103	U	0.0839	U	0.0704	U
81		0.138	U	0.0754	U	0.0802	U	0.115	U	0.0934	U	0.0773	U
82		2.94		2.97		1.84		1.65		1.62		1.98	
83	83 + 99	24.4	C	17.9	C	12.3	C	11.7	C	11.6	C	11.1	C
84		5.94		4.88		3.12		2.73		2.59		3.89	
85	85 + 116 + 117	7.79	C	6.93	C	4.90	C	4.22	C	4.38	C	3.98	C
86	86 + 87 + 97 + 108 + 119 + 125	23.5	C	18.2	C	12.1	C	11.8	C	11.8	C	13.0	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	4.21	C	3.24	C	2.23	C	2.06	C	1.90	C	2.39	C
89		0.251	EMPC	0.182	EMPC	0.109	EMPC	0.136		0.0750	EMPC	0.107	
90	90 + 101 + 113	36.9	C	27.6	C	18.7	C	17.3	C	18.4	C	16.6	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		7.26		5.52		4.57		3.31		3.49		2.72	
93	93 + 95 + 98 + 100 + 102	26.0	C	18.1	C	12.4	C	11.6	C	10.5	C	14.0	C
94		0.111		0.0590	EMPC	0.0600	EMPC	0.0478	U	0.0488	U	0.0670	
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.140		0.0850	EMPC	0.0600	EMPC	0.0510	EMPC	0.0540		0.0660	EMPC
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		0.295	EMPC	0.183		0.128		0.113	EMPC	0.121	EMPC	0.0770	EMPC
104		0.0618	U	0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
105		18.8		16.8		12.0		11.3		12.5		9.54	
106		0.116	U	0.0726	U	0.0494	U	0.0712	U	0.0791	U	0.0637	U
107	107 + 124	1.41	C	1.34	C	0.947	C	0.820	C	0.966	C	0.718	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		3.64		3.16		2.27		1.96		2.52		1.37	
110	110 + 115	43.6	C	39.3	C	26.8	C	22.8	C	24.8	C	23.9	C
111		0.0618	U	0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
112		0.0618	U	0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		0.965	EMPC	0.813		0.665		0.621		0.666		0.631	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		51.6		40.8		27.4		29.0		29.9		29.4	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		0.249		0.227		0.130		0.110		0.154		0.0479	U
121		0.0618	U	0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
122		0.344	EMPC	0.417		0.291		0.270		0.289		0.227	EMPC
123		0.796		0.833		0.459		0.582		0.569		0.610	EMPC
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		0.296	EMPC	0.238		0.173		0.123	EMPC	0.189		0.0725	U
127		0.118	U	0.0736	U	0.0501	U	0.0722	U	0.0802	U	0.0646	U

Table H-8
Sediment PCB Congener Analysis Results
(Page 4 of 14)

IUPAC #	COELUTING CONGENERS[1]	Forebay P15 08022115SD 2/21/2008		Forebay P16 08022116SD 2/21/2008		Forebay P17 08022117SD 2/21/2008		Forebay P18 08021118SD 2/11/2008		Forebay P21 08021221SD 2/12/2008		Forebay P05 08031905SD 3/19/2008	
128	128 + 166	9.53	C	9.51	C	6.89	C	5.57	C	7.54	C	3.22	C
129	129 + 138 + 160 + 163	62.5	C	55.9	C	39.5	C	35.5	C	43.3	C	20.9	C
130		3.78		3.62		2.56		2.16		2.90		1.10	
131		0.434		0.483	EMPC	0.277		0.237		0.389	EMPC	0.214	EMPC
132		12.0		12.2		8.41		6.06		10.1		4.47	
133		0.956	EMPC	0.836		0.607		0.559		0.743		0.177	
134	134 + 143	1.95	C	1.91	C	1.25	C	1.03	C	1.51	C	0.732	C
135	135 + 151 + 154	18.9	C	15.3	C	9.93	C	8.92	C	11.8	C	3.02	C
136		4.58		3.86		2.19		1.92		2.83		1.15	
137		1.65		1.74		1.22		1.24		1.49		1.23	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	0.855	C	0.785	C EMPC	0.550	C	0.442	C	0.648	C	0.277	C EMPC
140	139 + 140		C139		C139		C139		C139		C139		C139
141		4.92		5.21		3.59		2.71		4.09		1.64	
142		0.0772	U	0.0951	U	0.0728	U	0.0537	U	0.0868	U	0.0479	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		1.65		1.51	EMPC	1.11		0.829		1.25	EMPC	0.424	
145		0.0618	U	0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
146		12.0		10.3		7.86		7.06		7.12		2.43	
147	147 + 149	37.8	C	32.7	C	23.7	C	18.7	C	25.3	C	9.13	C
148		0.114	EMPC	0.117	EMPC	0.0770	EMPC	0.151		0.101	EMPC	0.0479	U
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.100	EMPC	0.0730	EMPC	0.0475	U	0.0478	U	0.0580		0.0479	U
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.0618	U	0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
153	153 + 168	66.7	C	51.0	C	35.1	C	38.3	C	38.8	C	20.4	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.0690		0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
156	156 + 157	6.53	C	6.61	C	4.48	C	3.81	C	4.70	C	3.50	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		4.55		4.49		3.09		2.58		3.41		1.76	
159		0.452		0.420		0.340		0.202		0.307		0.0550	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.0618	U	0.0683	U	0.0523	U	0.0478	U	0.0623	U	0.0479	U
162		0.158	EMPC	0.0727	U	0.130	EMPC	0.101		0.123	EMPC	0.0530	EMPC
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		2.92		2.94		2.08		1.59		2.27		0.931	EMPC
165		0.0642	U	0.0791	U	0.0605	U	0.0478	U	0.0722	U	0.0479	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		3.37		2.87		1.84		1.90		1.90		1.52	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.161	EMPC	0.132	U	0.109	U	0.0841	U	0.103	U	0.0479	U
170		9.65		10.4		8.28		4.95		6.51		1.80	
171	171 + 173	4.05	C	4.12	C	2.74	C	2.05	C	2.61	C	0.577	C
172		2.13		2.04	EMPC	1.34		1.02		1.25		0.212	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		9.67		9.52		6.72		4.68		6.26		1.01	
175		0.542		0.524		0.292		0.267		0.343		0.0479	U
176		1.60		1.47		1.09		0.801		1.11		0.140	EMPC
177		9.85		9.45		6.50		4.72		6.26		0.807	
178		4.36		3.57		2.61		2.28		2.52		0.328	EMPC
179		6.75		6.18		4.18		3.40		4.92		0.491	
180	180 + 193	27.7	C	26.1	C	20.9	C	14.0	C	16.7	C	3.50	C
181		0.134		0.152	EMPC	0.0580	EMPC	0.0750		0.107	EMPC	0.0479	U
182		0.185		0.0478	U	0.105	EMPC	0.0900		0.0488	U	0.0479	U
183	183 + 185	9.97	C	8.75	C	6.13	C	4.78	C	5.39	C	1.04	C
184		0.0660		0.0680		0.0590	EMPC	0.0478	U	0.0540		0.0479	U
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0618	U	0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
187		28.3		23.3		17.4		13.9		15.4		2.31	
188		0.0990		0.0570	EMPC	0.0475	U	0.0478	U	0.0520	EMPC	0.0479	U
189		0.534	EMPC	0.452		0.428	EMPC	0.217	EMPC	0.332		0.127	EMPC
190		3.53		2.68		1.91		1.73		2.06		0.447	
191		0.523	EMPC	0.412	EMPC	0.354		0.229		0.316		0.0600	EMPC
192		0.0618	U	0.0949	U	0.106	U	0.0478	U	0.0488	U	0.0479	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		4.82		4.86		4.77		2.40		3.67		0.429	
195		2.05		3.38		2.56		1.10		1.57		0.226	
196		2.75		2.82		2.40		1.55		2.16		0.215	
197	197 + 200	1.15	C J	1.35	C	1.31	C EMPC	0.722	C J	0.886	C J	0.0840	C
198	198 + 199	7.79	C	7.77	C	6.68	C	4.97	C	6.22	C	0.582	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		1.22		1.15		0.789		0.676		0.893		0.0810	
202		3.29		2.92		2.17		1.83		2.12		0.171	
203		6.28		5.77		4.62		3.85		4.40		0.542	
204		0.0618	U	0.0478	U	0.0475	U	0.0478	U	0.0488	U	0.0479	U
205		0.372		0.400		0.331		0.169		0.281		0.0480	
206		5.36		6.06		4.52		3.91		4.78		0.415	
207		0.700		0.763		0.569	EMPC	0.487		0.621	EMPC	0.112	U
208		2.09		2.27		1.72		1.55		1.85		0.113	U
209		5.44		7.30		4.83		3.20		8.55		0.663	U
Total PCBs as Congeners in ug/kg, dry weight													
Total PCBs as Congeners (full EMPC/full SDL)		0.979	J	0.842	J	0.593	J	0.524	J	0.575	J	0.306	J
Total PCBs as Congeners (KM-based)		0.973	J	0.836	J	0.588	J	0.523	J	0.571	J	0.301	J
Total PCBs as Congeners (KM-based, capped)		0.973	J	0.836	J	0.588	J	0.523	J	0.571	J	0.301	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay P06 08031806SD 3/18/2008		Forebay P13 08031713SD 3/17/2008		Forebay P14 08031814SD 3/18/2008		Forebay P65 08022965SD 2/29/2008		Forebay P67 08030367SD 3/3/2008		Forebay P88 08031788SD 3/17/2008	
Individual Congeners in pg/g (ng/kg), dry weight													
1		0.368	U	0.240		0.110		0.147		0.104		0.144	
2		0.711	EMPC	3.00		0.832		2.07		0.170	U	0.432	
3		0.467		0.343	EMPC	0.123	EMPC	0.206		0.0660	EMPC	0.184	EMPC
4		1.39	EMPC	0.820		0.197	EMPC	0.291		0.113		0.283	
5		0.212	UJ	0.0486	U	0.0509	U	0.0487	U	0.0479	U	0.0571	U
6		0.258	EMPC	0.359	J	0.0790		0.148		0.0600	EMPC	0.125	
7		0.202	UJ	0.487		0.177	EMPC	0.0740		0.0830	EMPC	0.0860	U
8		1.15	EMPC	1.49		0.343	U	0.690	U	0.246	U	0.460	
9		0.189	UJ	0.0930	EMPC	0.0484	U	0.0487	U	0.0479	U	0.0525	U
10		0.191	UJ	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0514	U
11		32.1	J	110		20.9		48.5		10.5		35.1	
12	12 + 13	0.223	C UJ	0.857	C EMPC	0.456	C	0.684	C	0.156	C EMPC	0.0565	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.204	UJ	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0546	U
15		1.02		2.75		0.771		1.74		0.346		0.876	
16		0.408		1.19		0.185		0.472		0.125	EMPC	0.402	
17		1.25		1.20		0.168		0.478		0.127	EMPC	0.389	
18	18 + 30	1.52	C	3.53	C	0.402	C	1.10	C	0.273	C	0.870	C
19		0.723		0.230		0.0630	EMPC	0.104	EMPC	0.0530	EMPC	0.136	EMPC
20	20 + 28	2.94	C	7.12	C	1.57	C	4.17	C	0.908	C	1.86	C
21	21 + 33	1.23	C	2.41	C	0.434	C U	1.13	C	0.333	C U	0.687	C
22		0.698		2.53		0.447		1.21		0.392		0.678	
23		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
24		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
25		0.405		0.401		0.0820		0.203		0.0479	U	0.107	
26	26 + 29	0.678	C	0.945	C	0.153	C	0.437	C	0.120	C	0.229	C
27		0.395		0.280		0.0520	EMPC	0.0890		0.0479	U	0.0970	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		2.49		5.00		0.927		2.46		0.593	U	1.16	
32		0.635		0.387		0.0860	EMPC	0.188		0.0900		0.178	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
35		0.150		0.418		0.0910	EMPC	0.221		0.0540	EMPC	0.118	
36		0.0626	U	0.0970		0.0484	U	0.0640	EMPC	0.0479	U	0.0423	U
37		0.808		3.96		0.745		1.88		0.439		0.811	
38		0.0626	U	0.0970		0.0484	U	0.0487	U	0.0479	U	0.0423	U
39		0.0626	U	0.0630		0.0484	U	0.0487	U	0.0479	U	0.0423	U
40	40 + 41 + 71	2.88	C	3.03	C	0.482	C	1.26	C	0.550	C	0.867	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		1.44		2.68		0.282		0.830		0.277	EMPC	0.605	
43		0.284		0.214		0.0548	U	0.0580	EMPC	0.0582	U	0.0510	
44	44 + 47 + 65	13.7	C	10.4	C	1.32	C	4.16	C	1.03	C	2.73	C
45	45 + 51	0.538	C	0.730	C	0.0880	C EMPC	0.317	C	0.104	C	0.261	C
46		0.251		0.199		0.0538	U	0.140		0.0630	EMPC	0.0840	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		0.712		1.39		0.180	EMPC	0.556		0.163		0.370	
49	49 + 69	8.72	C	4.45	C	0.733	C	2.28	C	0.515	C	1.24	C
50	50 + 53	1.61	C	0.848	C	0.118	C	0.310	C	0.102	C EMPC	0.291	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		32.9		10.9		1.73		6.22		1.07		3.50	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0533	U	0.0423	U
55		0.121	U	0.197		0.0717	U	0.126	EMPC	0.0756	U	0.0820	EMPC
56		3.93		3.87		0.762		1.96		0.714		1.14	
57		0.115	U	0.0900	U	0.0695	U	0.105	U	0.0734	U	0.0663	U
58		0.118	U	0.0910	U	0.0704	U	0.106	U	0.0742	U	0.0659	U
59	59 + 62 + 75	0.404	C EMPC	0.828	C	0.0880	C EMPC	0.346	C EMPC	0.0510	C	0.209	C U
60		2.07		2.43		0.588		1.38		0.436		0.709	
61	61 + 70 + 74 + 76	37.3	C	17.6	C	3.69	C	10.5	C	2.07	C	4.84	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		0.489	EMPC	0.447		0.0690	EMPC	0.269		0.0712	U	0.105	EMPC
64		5.19		3.89		0.656		2.00		0.478		0.987	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		13.0		11.6		2.48		6.88		1.41		3.11	
67		0.107	EMPC	0.242		0.0622	U	0.139		0.0656	U	0.0570	EMPC
68		0.107	U	0.119	EMPC	0.0674	U	0.101	U	0.0711	U	0.0612	U
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		0.109	U	0.156		0.0672	U	0.101	U	0.0709	U	0.0630	U
73		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		0.596		1.63		0.417		1.04		0.289		0.409	
78		0.123	U	0.0867	U	0.0670	U	0.101	U	0.0707	U	0.0671	U
79		0.539		0.343		0.0568	U	0.172		0.0599	U	0.105	EMPC
80		0.110	U	0.0790	U	0.0611	U	0.0919	U	0.0644	U	0.0599	U
81		0.106	U	0.0910	U	0.0694	U	0.102	U	0.0693	U	0.0662	U
82		5.79		1.61		0.360		1.20		0.270	EMPC	0.572	
83	83 + 99	31.0	C	15.0	C	2.78	C	8.81	C	1.01	C	4.73	C
84		11.8		3.22		0.728		2.41		0.368	EMPC	1.09	
85	85 + 116 + 117	11.7	C	4.69	C	0.993	C	3.07	C	0.413	C	1.39	C
86	86 + 87 + 97 + 108 + 119 + 125	35.7	C	15.0	C	2.77	C	9.00	C	1.17	C	4.48	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	6.54	C	2.28	C	0.462	C	1.47	C	0.218	C	0.753	C
89		0.334		0.114	EMPC	0.0484	U	0.0810	EMPC	0.0479	U	0.0500	
90	90 + 101 + 113	47.4	C	24.0	C	4.27	C	14.4	C	1.59	C	7.17	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		7.97		4.06		0.802		2.62		0.293		1.24	
93	93 + 95 + 98 + 100 + 102	37.5	C	15.6	C	2.68	C	9.42	C	1.11	C EMPC	5.10	C
94		0.148		0.0640		0.0484	U	0.0487	U	0.0479	U	0.0423	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.191	EMPC	0.0630	EMPC	0.0484	U	0.0487	U	0.0479	U	0.0423	U
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		0.227	EMPC	0.129	EMPC	0.0484	U	0.101		0.0479	U	0.0423	U
104		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
105		24.6		12.4		2.87		8.49		1.30		4.02	
106		0.282	U	0.0828	U	0.0606	U	0.0577	U	0.0479	U	0.0514	U
107	107 + 124	2.04	C	1.07	C	0.239	C	0.684	C	0.0890	C EMPC	0.281	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		3.74		2.41		0.580		1.61		0.174		0.594	
110	110 + 115	67.9	C	27.4	C	5.56	C	18.8	C	2.32	C	8.56	C
111		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
112		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		1.60		0.661		0.136	EMPC	0.429		0.0580	EMPC	0.267	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		68.7		38.4		6.90		20.9		2.71		12.7	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		0.0626	U	0.165		0.0484	U	0.0830	EMPC	0.0479	U	0.0550	EMPC
121		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
122		0.619		0.249		0.0760	EMPC	0.177		0.0479	U	0.102	EMPC
123		1.11	EMPC	0.661		0.107	EMPC	0.327	EMPC	0.0640	EMPC	0.201	U
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		0.318	U	0.199	EMPC	0.0662	U	0.135	EMPC	0.0479	U	0.0635	U
127		0.299	U	0.0818	U	0.0599	U	0.0570	U	0.0479	U	0.0524	U

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay P06 08031806SD 3/18/2008		Forebay P13 08031713SD 3/17/2008		Forebay P14 08031814SD 3/18/2008		Forebay P65 08022965SD 2/29/2008		Forebay P67 08030367SD 3/3/2008		Forebay P88 08031788SD 3/17/2008	
128	128 + 166	8.59	C	6.15	C	1.61	C	4.96	C	0.621	C	1.75	C
129	129 + 138 + 160 + 163	52.8	C	41.1	C	9.69	C	27.0	C	3.67	C	13.8	C
130		2.98		2.17		0.620	EMPC	1.57		0.189		0.645	
131		0.602		0.281		0.0730		0.197	EMPC	0.0479	U	0.0617	U
132		13.0		7.21		2.00		5.46		0.702		2.33	
133		0.415		0.517		0.125		0.406		0.0479	U	0.153	EMPC
134	134 + 143	1.91	C	1.00	C	0.342	C	0.913	C	0.0870	C	0.330	C
135	135 + 151 + 154	7.66	C	9.28	C	2.92	C	6.77	C	0.811	C	2.94	C
136		3.12		2.32		0.531		1.52		0.198	EMPC	0.741	
137		3.50		1.09		0.257		0.809		0.0970	EMPC	0.499	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	0.911	C	0.461	C	0.125	C EMPC	0.337	C EMPC	0.0520	C	0.147	C U
140	139 + 140		C139		C139		C139		C139		C139		C139
141		4.71		2.96		0.920		2.45		0.386		1.07	
142		0.0814	U	0.0649	U	0.0484	U	0.0626	U	0.0479	U	0.0616	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		1.11		0.931		0.343		0.718		0.0840		0.283	
145		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
146		6.07		7.03		2.00	EMPC	4.70		0.531		2.17	
147	147 + 149	23.8	C	23.7	C	6.20	C	15.0	C	1.83	C	7.88	C
148		0.0626	U	0.0570		0.0484	U	0.0487	U	0.0479	U	0.0423	U
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
153	153 + 168	41.7	C	45.5	C	9.18	C	23.4	C	2.94	C	15.1	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
156	156 + 157	7.65	C	4.73	C	1.13	C	3.08	C	0.399	C	1.35	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		4.38		3.04		0.766		2.22		0.293		0.925	
159		0.158	EMPC	0.260		0.0650	EMPC	0.207	EMPC	0.0479	U	0.107	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.0626	U	0.0486	U	0.0484	U	0.0487	U	0.0479	U	0.0423	U
162		0.187		0.123	EMPC	0.0484	U	0.107	EMPC	0.0479	U	0.0452	U
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		2.51		1.79		0.522		1.30		0.186	EMPC	0.577	
165		0.0637	U	0.0513	U	0.0484	U	0.0495	U	0.0479	U	0.0494	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		2.55		2.46		0.461		1.37		0.173	EMPC	0.710	U
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.0626	U	0.104	U	0.0484	U	0.0931	U	0.0479	U	0.0485	U
170		4.30		8.90		2.71		5.17		0.967		1.91	
171	171 + 173	1.16	C	3.08	C	0.969	C	2.41	C	0.363	C EMPC	0.715	C
172		0.526		1.91		0.561	EMPC	1.01		0.180		0.351	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		2.79		7.10		2.29	EMPC	5.86		0.917	EMPC	1.82	
175		0.132		0.305	U	0.180	U	0.264		0.0479	U	0.100	
176		0.351	EMPC	1.15		0.386	EMPC	0.737		0.125	EMPC	0.228	
177		2.15		6.09	EMPC	1.82		5.35		0.723		1.68	
178		0.713		3.02		0.771	EMPC	1.87		0.284		0.657	
179		1.18		4.50		1.36		2.87		0.406		1.05	
180	180 + 193	8.17	C	21.3	C	5.52	C	12.5	C	2.21	C	5.16	C
181		0.125	EMPC	0.336	U	0.199	U	0.0487	U	0.0479	U	0.0423	U
182		0.0626	U	0.311	U	0.183	U	0.0590	EMPC	0.0479	U	0.0423	U
183	183 + 185	2.54	C	6.82	C	2.03	C	4.74	C	0.701	C	1.89	C
184		0.0626	U	0.246	U	0.145	U	0.0487	U	0.0479	U	0.0423	U
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0626	U	0.264	U	0.156	U	0.0487	U	0.0479	U	0.0423	U
187		5.28		17.6		4.80		13.4		1.77		4.61	
188		0.0626	U	0.229	U	0.0493	UJ	0.0487	U	0.0479	U	0.0423	U
189		0.241	EMPC	0.620	EMPC	0.814	U	0.242		0.0479	U	0.100	
190		0.980		2.52		0.602	EMPC	1.59		0.247	EMPC	0.641	
191		0.170		0.332	EMPC	0.318	EMPC	0.225		0.0479	U	0.0660	
192		0.0626	U	0.291	U	0.172	U	0.0487	U	0.0479	U	0.0423	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		1.85		6.45		1.63		2.64		0.510		1.12	
195		0.672		2.59		1.04		1.21		0.233	EMPC	0.499	
196		0.812		3.02		0.691	EMPC	1.32		0.224		0.560	
197	197 + 200	0.316	C	1.26	C	0.239	C U	0.632	C J	0.109	C EMPC	0.211	C U
198	198 + 199	2.31	C	8.61	C	1.64	C	3.91	C	0.744	C	1.49	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		0.263	EMPC	1.01	EMPC	0.333	EMPC	0.678		0.111	EMPC	0.204	U
202		0.653		2.14		0.582		1.42		0.199		0.437	
203		1.76		6.12		1.05		2.77		0.534		1.25	
204		0.0626	U	0.181	U	0.239	U	0.0487	U	0.0479	U	0.0423	U
205		0.127	EMPC	0.477	EMPC	0.305	U	0.181		0.0479	U	0.0810	
206		1.87		5.28		1.14		2.94		0.449		0.968	
207		0.267		0.751	U	0.896	U	0.508		0.145	U	0.158	
208		0.600		1.86	EMPC	0.451	EMPC	1.08		0.143	U	0.386	
209		1.83		5.33		1.34		3.51		0.366	U	1.14	
Total PCBs as Congeners in ug/kg, dry weight													
Total PCBs as Congeners (full EMPC/full SDL)		0.784	J	0.696	J	0.155	J	0.402	J	0.0670	J	0.206	J
Total PCBs as Congeners (KM-based)		0.778	J	0.684	J	0.143	J	0.399	J	0.0611	J	0.204	J
Total PCBs as Congeners (KM-based, capped)		0.778	J	0.684	J	0.143	J	0.399	J	0.0611	J	0.204	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay P89 08031789SD 3/17/2008		Reference P22 08030522SD 3/5/2008		Reference P24 08030524SD 3/5/2008		Reference P26 08030426SD 3/4/2008		Reference P27 08030427SD 3/4/2008		Reference P28 08030428SD 3/4/2008	
Individual Congeners in pg/g (ng/kg), dry weight													
1		0.100	EMPC	0.144		0.395		0.129		0.233		0.145	
2		0.636		4.82		3.23		0.937		3.04		2.16	
3		0.238	EMPC	0.362		0.244		0.162		0.319		0.242	
4		0.269	EMPC	0.293		0.352		0.301		1.19		0.278	EMPC
5		0.0834	U	0.0769	U	0.154	U	0.0682	U	0.107	U	0.135	U
6		0.0950	EMPC	0.120	EMPC	0.204	EMPC	0.129		0.346		0.180	EMPC
7		0.0780	U	0.0880	U	0.139	U	0.0618	U	0.0966	U	0.123	U
8		0.404		0.672		0.693		0.464		0.876		0.716	
9		0.0766	U	0.0740	EMPC	0.137	U	0.0606	U	0.0948	U	0.120	U
10		0.0750	U	0.0692	U	0.138	U	0.0614	U	0.0959	U	0.122	U
11		19.9		57.0		68.0		57.6		205		66.4	
12	12 + 13	0.0825	C U	0.0761	C U	0.150	C U	0.530	C	0.104	C U	0.132	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.0796	U	0.0735	U	0.143	U	0.0633	U	0.0989	U	0.125	U
15		0.660		1.52		1.59		1.12		2.59		1.83	
16		0.332		0.553		0.616		0.543		2.43		0.507	
17		0.287		0.568		0.604		0.455		1.60		0.531	EMPC
18	18 + 30	0.619	C	1.31	C	1.39	C	1.10	C	4.70	C	1.17	C
19		0.177		0.126		0.159	EMPC	0.129	EMPC	0.260	EMPC	0.107	EMPC
20	20 + 28	1.31	C	4.43	C	4.15	C	2.70	C	5.93	C	4.86	C
21	21 + 33	0.453	C U	1.25	C	1.24	C	0.855	C	1.86	C	1.37	C
22		0.482		1.37		1.38		0.913		2.94		1.48	
23		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
24		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0550		0.0443	U
25		0.0870	EMPC	0.198		0.204		0.135		0.298		0.214	
26	26 + 29	0.162	C	0.461	C	0.437	C	0.341	C	0.740	C	0.471	C
27		0.100	EMPC	0.111		0.113	EMPC	0.126		0.580		0.0940	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		0.841		2.82		2.65		1.77		3.47		3.01	
32		0.128		0.244		0.222		0.190		0.285		0.264	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
35		0.0600	EMPC	0.230		0.279		0.238		0.438		0.326	
36		0.0454	U	0.0850		0.0630	EMPC	0.0690		0.120		0.133	EMPC
37		0.634		1.67		1.57		1.10		2.22		1.93	
38		0.0454	U	0.0650	EMPC	0.0710	EMPC	0.0500	EMPC	0.120		0.0590	
39		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0790		0.0610	
40	40 + 41 + 71	0.588	C U	1.65	C	1.58	C	1.14	C	2.70	C	1.55	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		0.519		1.06		1.15		0.880		3.84		0.939	
43		0.0454	U	0.153		0.118	EMPC	0.0760	EMPC	0.204		0.148	EMPC
44	44 + 47 + 65	2.04	C U	4.57	C	5.29	C	3.94	C	18.0	C	4.46	C
45	45 + 51	0.185	C	0.470	C	0.415	C	0.355	C	0.771	C	0.475	C
46		0.0920	EMPC	0.150		0.144	EMPC	0.0950		0.166		0.183	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		0.231		0.650		0.687		0.484		1.48		0.643	
49	49 + 69	0.825	C	2.71	C	2.52	C	1.72	C	3.41	C	2.76	C
50	50 + 53	0.244	C U	0.410	C	0.443	C	0.369	C	1.36	C	0.391	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		2.37		6.24		6.44		4.64		12.6		6.31	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
55		0.0620	EMPC	0.300		0.0990		0.115		0.207		0.225	
56		0.963		2.37		2.38		1.73		3.74		2.46	
57		0.0492	U	0.0554	U	0.0736	U	0.0362	U	0.0722	U	0.0774	U
58		0.0489	U	0.0551	U	0.0737	U	0.0362	U	0.0723	U	0.0775	U
59	59 + 62 + 75	0.148	C U	0.397	C U	0.394	C U	0.302	C U	1.01	C	0.390	C U
60		0.626	EMPC	1.67		1.58		1.03		1.95		1.70	
61	61 + 70 + 74 + 76	3.55	C	11.5	C	10.8	C	7.36	C	14.2	C	10.7	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		0.0920		0.304		0.255		0.171		0.375		0.283	
64		0.745		2.21		2.12		1.45		2.85		2.33	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		2.51		7.28		6.99		4.81		10.0		6.87	
67		0.0580		0.137		0.125		0.0970		0.196		0.133	
68		0.0454	U	0.0800		0.0760	EMPC	0.0450	EMPC	0.0820		0.0752	U
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		0.0467	U	0.0910	EMPC	0.0735	U	0.0450		0.0990	EMPC	0.0850	EMPC
73		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		0.341		0.989		0.983		0.699		1.39		1.11	
78		0.0498	U	0.0561	U	0.0768	U	0.0362	U	0.0754	U	0.0808	U
79		0.0810	EMPC	0.191		0.212		0.183		0.612		0.206	
80		0.0454	U	0.0500	U	0.0689	U	0.0362	U	0.0676	U	0.0725	U
81		0.0486	U	0.0630	EMPC	0.0786	U	0.0490	EMPC	0.100	EMPC	0.0832	U
82		0.386		1.14		1.01		1.15		1.53		1.23	
83	83 + 99	3.33	C	9.91	C	9.78	C	8.11	C	19.2	C	9.86	C
84		0.811		2.55		2.43		2.12		3.94		2.48	
85	85 + 116 + 117	1.12	C	3.42	C	3.01	C	2.72	C	5.27	C EMPC	3.55	C
86	86 + 87 + 97 + 108 + 119 + 125	3.57	C U	9.22	C	9.26	C	8.05	C	21.8	C	9.40	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	0.518	C	1.59	C	1.53	C	1.35	C	2.51	C	1.48	C
89		0.0454	U	0.102	EMPC	0.0800	EMPC	0.0820		0.0990	EMPC	0.0630	EMPC
90	90 + 101 + 113	5.08	C	15.2	C	16.2	C	12.0	C	31.3	C	14.8	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		0.891		2.92		2.78		2.18		5.23		2.94	
93	93 + 95 + 98 + 100 + 102	3.65	C	9.50	C	9.52	C	8.34	C	27.1	C	9.08	C
94		0.0454	U	0.0453	U	0.0490	EMPC	0.0490		0.0940		0.0614	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.0454	U	0.0480	EMPC	0.0540	EMPC	0.0460	EMPC	0.0690	EMPC	0.0530	EMPC
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		0.0454	U	0.0940		0.101		0.0780	EMPC	0.128	EMPC	0.0920	
104		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
105		3.06		8.92		8.01		7.17		13.2		9.06	
106		0.0571	U	0.0852	U	0.0713	U	0.0725	U	0.110	U	0.106	U
107	107 + 124	0.204	C	0.602	C	0.734	C	0.603	C	1.07	C	0.716	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		0.459		1.41		1.35		1.12		2.09		1.48	
110	110 + 115	6.03	C	18.7	C	17.1	C	15.1	C	33.9	C	19.4	C
111		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
112		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		0.174		0.410		0.485		0.378		0.798		0.479	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		10.0		22.2		22.4		20.9		64.2		22.1	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		0.0454	U	0.131		0.108	EMPC	0.0830	EMPC	0.228		0.0770	EMPC
121		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
122		0.0980	EMPC	0.176		0.196	EMPC	0.191		0.373		0.220	
123		0.158	U	0.380	U	0.429	U	0.442	U	1.22		0.408	U
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		0.0693	U	0.175	EMPC	0.147	EMPC	0.117		0.234		0.185	EMPC
127		0.0582	U	0.0869	U	0.0745	U	0.0758	U	0.115	U	0.111	U

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay P89 08031789SD 3/17/2008		Reference P22 08030522SD 3/5/2008		Reference P24 08030524SD 3/5/2008		Reference P26 08030426SD 3/4/2008		Reference P27 08030427SD 3/4/2008		Reference P28 08030428SD 3/4/2008	
128	128 + 166	1.22	C	4.22	C	4.07	C	3.46	C	5.93	C	4.61	C
129	129 + 138 + 160 + 163	11.0	C	29.3	C	31.6	C	25.6	C	65.7	C	32.5	C
130		0.460		1.70		1.71		1.35		2.39		2.05	
131		0.100		0.163	EMPC	0.157	EMPC	0.184		0.303		0.223	
132		1.79		5.63		5.80		5.91		8.28		6.59	
133		0.116	EMPC	0.463		0.365		0.283		0.493		0.438	
134	134 + 143	0.216	C	0.807	C	0.758	C	0.707	C	1.18	C	0.948	C
135	135 + 151 + 154	2.30	C	6.76	C	7.47	C	5.60	C	11.2	C	7.66	C
136		0.581		1.62		1.96		1.47		2.59		1.83	
137		0.359		0.929		0.852		0.788		1.41		0.880	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	0.114	C U	0.381	C	0.324	C	0.327	C	0.545	C	0.443	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		0.912		2.24		2.71		2.28		3.28		2.68	
142		0.0564	U	0.0870	U	0.0614	U	0.0660	U	0.0819	U	0.0521	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		0.244		0.646		0.726		0.613		1.03		0.650	
145		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
146		1.61		3.92	J	3.89	J	3.31	J	8.46	J	4.23	J
147	147 + 149	5.81	C	16.6	C	18.3	C	15.4	C	34.9	C	18.5	C
148		0.0454	U	0.0590	EMPC	0.0650	EMPC	0.0362	U	0.0720		0.0510	EMPC
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0500	EMPC	0.0480	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
153	153 + 168	12.9	C	26.9	C	31.8	C	27.1	C	100	C	27.9	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
156	156 + 157	0.935	C U	2.54	C	2.58	C	2.42	C	5.17	C	2.82	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		0.777		2.11		2.23		1.91		3.67		2.35	
159		0.124		0.154		0.339		0.248		0.286		0.288	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.0454	U	0.0598	U	0.0467	U	0.0474	U	0.0588	U	0.0443	U
162		0.0454	U	0.0780		0.0840	EMPC	0.0890		0.125	EMPC	0.139	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		0.399		1.30		1.45		1.26		2.06		1.67	
165		0.0454	U	0.0699	U	0.0505	U	0.0543	U	0.0674	U	0.0443	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		0.640	U	1.18		1.30		1.25		3.84		1.18	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.0454	U	0.0685	U	0.102	U	0.0571	U	0.0971	U	0.110	U
170		2.18		3.76		4.89		3.87		5.51		5.64	
171	171 + 173	0.765	C	1.55	C	1.90	C	1.47	C EMPC	2.39	C	2.03	C
172		0.379		0.785		1.01		0.752		1.04		1.12	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		2.12		3.70		5.63		4.18		5.36		5.39	
175		0.105	EMPC	0.205	EMPC	0.270		0.183	EMPC	0.333		0.224	
176		0.256	EMPC	0.581		0.780		0.564		0.966		0.727	
177		1.61		3.89		4.43		3.24		5.22		4.88	
178		0.542		1.63		1.92		1.28		2.16		2.04	
179		0.987		2.54		3.41		2.44		3.65		3.22	
180	180 + 193	6.03	C	10.1	C	14.1	C	11.0	C	22.1	C	14.0	C
181		0.0454	U	0.0470	EMPC	0.0540		0.0730	EMPC	0.112		0.114	EMPC
182		0.0454	U	0.0650	U	0.0870	U	0.0580	U	0.0960	U	0.0540	U
183	183 + 185	1.81	C	3.57	C	4.84	C	3.81	C	7.36	C	4.56	C
184		0.0454	U	0.0453	U	0.0490	EMPC	0.0362	U	0.0550		0.0443	U
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
187		4.24		10.5		13.0		9.68		19.8		12.8	
188		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0540	U	0.0443	U
189		0.0980		0.225		0.260		0.264	EMPC	0.351		0.416	
190		0.751		1.31		1.60		1.27		3.12		1.74	
191		0.106		0.193		0.211		0.185		0.312		0.224	
192		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		1.94		2.87		3.34		2.42		3.24		3.60	
195		0.853		1.25		1.41		0.988		1.50		1.57	
196		0.909		1.38		1.77		1.34		1.90		1.85	
197	197 + 200	0.301	C U	0.375	C J	0.415	C J	0.335	C J	0.447	C J	0.491	C J
198	198 + 199	1.89	C	4.52	C	5.38	C	4.09	C	5.79	C	6.38	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		0.223	U	0.636		0.686		0.527		0.765		0.662	
202		0.362		1.53		1.71		1.13		1.92		1.86	
203		1.55		3.29		3.84		3.00		6.21		4.26	
204		0.0454	U	0.0453	U	0.0467	U	0.0362	U	0.0450	U	0.0443	U
205		0.116		0.231		0.245		0.149		0.192		0.222	
206		0.994		2.90		3.38		2.35		4.29		6.18	
207		0.107	U	0.514		0.432		0.353		0.547		0.652	
208		0.300		1.17		1.31		0.967		1.61		2.41	
209		0.669	U	3.71		3.61		2.46		4.55		6.38	
Total PCBs as Congeners in ug/kg, dry weight													
Total PCBs as Congeners (full EMPC/full SDL)		0.161	J	0.416	J	0.450	J	0.364	J	0.937	J	0.461	J
Total PCBs as Congeners (KM-based)		0.151	J	0.413	J	0.448	J	0.361	J	0.932	J	0.458	J
Total PCBs as Congeners (KM-based, capped)		0.151	J	0.413	J	0.448	J	0.361	J	0.932	J	0.458	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Reference P29 08022229SD 2/22/2008		Reference P34 08022534SD 2/25/2008		Reference P35 08022535SD 2/25/2008		Reference P36 08022536SD 2/25/2008		Reference P37 08022637SD 2/26/2008		Reference P38 08022738SD 2/27/2008	
Individual Congeners in pg/g (ng/kg), dry weight													
1		0.198		0.375		0.156		0.176	EMPC	0.186	U	0.178	EMPC
2		7.02		7.86		2.01		2.11		1.83		1.69	
3		0.580		0.880		0.253		0.222		0.469	EMPC	0.241	
4		0.928		1.22		0.400	EMPC	0.488		0.414		1.02	
5		0.130	U	0.0850	EMPC	0.0916	U	0.105	U	0.115	U	0.0987	U
6		1.10		0.878		0.218		0.243		0.285	EMPC	0.332	
7		0.258	U	0.215	U	0.0980	U	0.104	U	0.138		0.103	U
8		4.71		3.33		0.880		0.988		1.22		0.904	
9		0.364		0.219		0.0814	U	0.0938	U	0.102	U	0.0885	U
10		0.117	U	0.0761	U	0.0824	U	0.0973	U	0.106	U	0.0919	U
11		70.5		83.0		65.0		69.4		68.3		135	
12	12 + 13	1.43	C	1.40	C	0.0893	C UJ	0.102	C U	0.290	C	0.0966	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.121	U	0.110	EMPC	0.0850	U	0.0980	U	0.104	U	0.0925	U
15		5.29		5.42		1.99		2.26		2.54		1.98	
16		2.08		2.19		0.621		0.884		0.690		1.64	
17		2.57		2.64		0.797		0.958		0.814		1.29	
18	18 + 30	5.01	C	5.11	C	1.57	C	2.17	C	1.76	C	3.60	C
19		0.352		0.464		0.141		0.197	EMPC	0.196	U	0.189	
20	20 + 28	16.1	C	15.5	C	5.51	C	6.11	C	6.40	C	5.01	C
21	21 + 33	6.77	C	5.58	C J	1.47	C	1.89	C	2.07	C	1.56	C
22		5.44		4.93		1.65		2.00		1.93		2.16	
23		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.123	U	0.0440	U
24		0.0870	EMPC	0.0810		0.0466	U	0.0490	U	0.118	U	0.0440	U
25		0.930		0.883		0.259		0.290		0.313	EMPC	0.269	
26	26 + 29	2.02	C	1.83	C	0.546	C	0.659	C	0.744	C	0.657	C
27		0.364		0.466		0.129	J	0.195		0.159	EMPC	0.397	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		11.5		10.9	J	3.32	J	3.87		4.24		3.09	
32		1.07		0.859		0.258		0.316		0.321		0.238	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.0580	EMPC	0.0620	EMPC	0.0466	U	0.0490	U	0.116	U	0.0440	U
35		0.387		0.543		0.319		0.261		0.387	EMPC	0.349	
36		0.0970	EMPC	0.136		0.101	EMPC	0.103		0.109	U	0.112	EMPC
37		4.09		4.73		2.10		2.15		2.41		1.97	
38		0.0530	EMPC	0.120		0.0530		0.0490	EMPC	0.112	U	0.0440	
39		0.0680	EMPC	0.136		0.0466	U	0.0490	U	0.111	U	0.0580	EMPC
40	40 + 41 + 71	3.73	C	6.64	C	2.03	C	1.76	C	1.96	C	1.98	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		2.22		4.01		1.14		1.30		1.28		2.02	
43		0.306		0.543		0.132	EMPC	0.157	EMPC	0.131	EMPC	0.183	EMPC
44	44 + 47 + 65	8.76	C	21.4	C	5.03	C	5.26	C	4.90	C	8.45	C
45	45 + 51	1.13	C	1.80	C	0.527	C	0.523	C	0.588	C	0.470	C
46		0.362		0.646		0.167		0.140		0.171		0.160	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		1.76		3.03		0.702		0.834		0.928		1.03	
49	49 + 69	5.26	C	11.9	C	3.35	C	2.88	C	3.09	C	2.85	C
50	50 + 53	0.815	C	1.83	C	0.485	C	0.471	C	0.506	C EMPC	0.726	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		10.4		37.5		7.05		6.82		6.40		8.74	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0532	U	0.0440	U
55		0.293		0.428		0.151		0.233		0.0648	U	0.194	
56		3.18		6.34		2.04		2.41		2.31		2.35	
57		0.0577	U	0.114	U	0.0693	U	0.0858	U	0.0610	U	0.0731	U
58		0.0578	U	0.114	U	0.0694	U	0.0896	U	0.0609	U	0.0763	U
59	59 + 62 + 75	0.822	C	1.23	C	0.396	C U	0.522	C	0.471	C EMPC	0.591	C
60		1.95		3.47		1.38		1.63		1.53		1.53	
61	61 + 70 + 74 + 76	15.0	C	40.3	C	10.5	C	11.4	C	11.0	C	11.1	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		0.393		0.777		0.261		0.269		0.257		0.248	
64		4.16		8.72		2.25		2.43		2.59		2.26	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		9.65		18.0		6.49		7.22		6.39		7.06	
67		0.263		0.368		0.159		0.174		0.160		0.155	
68		0.110	EMPC	0.122		0.0673	U	0.0809	U	0.0690		0.0689	U
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		0.128	EMPC	0.206		0.0800		0.0802	U	0.0830		0.0890	
73		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0498	U	0.0440	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		1.40		2.01		1.04		0.965		1.02		1.13	
78		0.0602	U	0.119	U	0.0723	U	0.0871	U	0.0613	U	0.0743	U
79		0.255		0.605		0.154		0.162	EMPC	0.383	EMPC	0.295	
80		0.0541	U	0.107	U	0.0649	U	0.0804	U	0.0557	U	0.0685	U
81		0.0730	EMPC	0.143		0.0750	U	0.0896	U	0.0639	U	0.0767	U
82		1.43		5.71		0.953		1.01		0.964		1.14	
83	83 + 99	11.9	C	33.0	C	8.50	C	8.11	C	7.44	C	13.0	C
84		2.89		13.2		2.43		2.07		1.87		2.51	
85	85 + 116 + 117	3.77	C	10.6	C	2.72	C	2.58	C	2.60	C	3.83	C
86	86 + 87 + 97 + 108 + 119 + 125	11.2	C	39.1	C	8.07	C	7.70	C	6.85	C	13.3	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	1.97	C	6.79	C	1.56	C	1.36	C	1.30	C	1.80	C
89		0.100	EMPC	0.462		0.0790	EMPC	0.0690		0.0860	EMPC	0.0840	EMPC
90	90 + 101 + 113	18.4	C	58.9	C	13.1	C	13.1	C	11.8	C	20.7	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		3.28		10.3		2.41		2.46		2.51		3.87	
93	93 + 95 + 98 + 100 + 102	10.9	C	43.8	C	8.42	C	8.08	C	7.22	C	13.4	C
94		0.0650		0.209	EMPC	0.0520	EMPC	0.0670	EMPC	0.0832	U	0.0440	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.0740		0.235		0.0550	EMPC	0.0490	U	0.0710	U	0.0440	EMPC
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		0.138		0.339		0.0860		0.106	EMPC	0.101		0.104	EMPC
104		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0710	U	0.0440	U
105		10.9		27.5		8.18		8.03		6.53		9.85	
106		0.136	U	0.156	U	0.0664	U	0.111	U	0.0988	U	0.111	U
107	107 + 124	0.794	C	2.36	C	0.623	C	0.477	C	0.594	C	0.792	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		1.79		4.61		1.38		1.27		1.17		1.52	
110	110 + 115	22.1	C	68.2	C	16.1	C	15.6	C	14.3	C	25.0	C
111		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0565	U	0.0440	U
112		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0598	U	0.0440	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		0.602		1.63		0.382		0.372		0.352	EMPC	0.422	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		28.3		70.5		19.9		20.7		15.7		35.6	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		0.118	EMPC	0.177		0.0990	EMPC	0.0740		0.0870		0.144	
121		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0580	U	0.0440	U
122		0.270		0.718		0.189	EMPC	0.160	EMPC	0.113	EMPC	0.168	EMPC
123		0.446	U	0.980		0.309	U	0.401	U	0.374		0.656	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		0.205		0.337		0.126		0.139	U	0.175		0.184	
127		0.142	U	0.170		0.0694	U	0.115	U	0.0954	U	0.114	U

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Reference P29 08022229SD 2/22/2008		Reference P34 08022534SD 2/25/2008		Reference P35 08022535SD 2/25/2008		Reference P36 08022536SD 2/25/2008		Reference P37 08022637SD 2/26/2008		Reference P38 08022738SD 2/27/2008	
128	128 + 166	5.17	C	12.7	C	4.08	C	3.88	C	3.49	C	4.37	C
129	129 + 138 + 160 + 163	36.7	C	81.3	C	25.9	C	26.9	C	23.6	C	38.8	C
130		2.12		4.97		1.63		1.66		1.42		1.94	
131		0.244		0.868		0.188		0.185		0.159	EMPC	0.247	
132		7.24		22.6		5.81		5.23		5.15		6.08	
133		0.508		0.956		0.459		0.340		0.388		0.411	
134	134 + 143	1.10	C	3.31	C	0.809	C	0.712	C	0.718	C EMPC	0.886	C
135	135 + 151 + 154	8.30	C	17.9	C	6.04	C	6.18	C	6.69	C	7.89	C
136		2.11		6.15		1.73		1.49		1.52		1.84	
137		0.955		3.11		0.768		0.710		0.683		0.838	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	0.454	C	1.21	C	0.381	C	0.320	C	0.304	C	0.413	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		2.75		8.66		2.14		1.94		1.72		2.04	
142		0.0742	U	0.123	U	0.0648	U	0.0515	U	0.0682	U	0.0440	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		0.821		2.37		0.589		0.552		0.577		0.771	
145		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0646	U	0.0440	U
146		4.60	J	9.76	J	3.44		3.70	J	3.90		6.01	J
147	147 + 149	21.3	C	48.8	C	15.5	C	14.3	C	14.1	C	22.0	C
148		0.0860	EMPC	0.100		0.0466	U	0.0710	EMPC	0.0815	U	0.0760	EMPC
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.0425	U	0.0970		0.0490	EMPC	0.0490	U	0.0619	U	0.0470	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0571	U	0.0440	U
153	153 + 168	32.8	C	63.5	C	22.9	C	25.6	C	20.1	C	47.0	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0507	U	0.0440	U
156	156 + 157	3.19	C	8.50	C	2.42	C	2.40	C	2.25	C	3.12	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		2.47		6.86		1.99		1.91		1.69		2.56	
159		0.303		0.614		0.184	EMPC	0.211		0.250	EMPC	0.203	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.0533	U	0.0885	U	0.0466	U	0.0490	U	0.0449	U	0.0440	U
162		0.121	EMPC	0.214		0.0720		0.0950	EMPC	0.102		0.116	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		1.63		4.32		1.21		1.22		1.25		1.32	
165		0.0610	U	0.101	U	0.0533	U	0.0490	U	0.0519	U	0.0440	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		1.46		3.20		1.10	U	1.01	U	0.918		1.86	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.0811	U	0.179	U	0.0711	U	0.0891	U	0.0860	EMPC	0.0951	U
170		5.72		10.9		4.58		3.68		3.58		3.83	
171	171 + 173	2.16	C	4.41	C	1.84	C	1.59	C	1.60	C	1.92	C
172		1.13		1.86		0.864		0.733		0.837		0.730	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		5.45		10.6		4.36		3.72		3.89		3.62	
175		0.284		0.519		0.233		0.204	EMPC	0.170	EMPC	0.212	EMPC
176		0.842		1.54		0.646		0.605		0.650		0.718	
177		5.30		8.81		3.94		3.66		3.94		4.73	
178		2.10		3.48		1.66		1.33		1.42		1.93	
179		3.49		5.98		2.82		2.46		2.34		3.12	
180	180 + 193	14.0	C	24.5	C	11.0	C	9.20	C	9.03	C	11.3	C
181		0.0820		0.191	EMPC	0.0570	EMPC	0.0610	EMPC	0.0674	U	0.0910	EMPC
182		0.0580	U	0.143	U	0.0540	U	0.0530	U	0.0634	U	0.0710	U
183	183 + 185	4.98	C	9.01	C	3.87	C	3.40	C	3.36	C	4.70	C
184		0.0840	EMPC	0.0650		0.0466	U	0.0490	U	0.0471	U	0.0510	EMPC
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0509	U	0.0440	U
187		13.6		22.0		9.79		9.27		9.00		13.2	
188		0.0425	U	0.0660	U	0.0466	U	0.0490	U	0.0449	U	0.0440	U
189		0.357	EMPC	0.573		0.248	EMPC	0.237		0.197		0.188	
190		1.90		3.01		1.48		1.21		1.23		1.69	
191		0.224		0.457		0.223	EMPC	0.155	EMPC	0.158		0.180	
192		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0578	U	0.0440	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		3.20		5.11		3.05		2.32		2.44		2.33	
195		1.45		2.30		1.33		1.17		1.20		1.24	
196		1.74		2.87		1.47		1.19		1.23		1.28	
197	197 + 200	0.447	C J	0.572	C J	0.474	C EMPC	0.350	C J	0.442	C	0.426	C J
198	198 + 199	5.26	C	8.78	C	5.19	C	3.27	C	3.66	C	3.25	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		0.642		1.20		0.639		0.428		0.559		0.568	
202		1.60		2.59		1.60		1.07		1.10		1.39	
203		3.96		6.34		3.71		2.61		2.50		3.19	
204		0.0425	U	0.0455	U	0.0466	U	0.0490	U	0.0629	U	0.0440	U
205		0.242		0.347		0.197		0.172	EMPC	0.156		0.194	EMPC
206		4.59		7.21		4.28		2.85		3.21		2.71	
207		0.601		0.938		0.517		0.445		0.339		0.416	
208		1.85		2.50		1.59		1.13		1.16		1.04	
209		6.12		7.86		4.05		3.47		3.42		3.33	
Total PCBs as Congeners in ug/kg, dry weight													
Total PCBs as Congeners (full EMPC/full SDL)		0.587	J	1.20	J	0.408	J	0.405	J	0.383	J	0.592	J
Total PCBs as Congeners (KM-based)		0.585	J	1.20	J	0.405	J	0.402	J	0.378	J	0.591	J
Total PCBs as Congeners (KM-based, capped)		0.585	J	1.20	J	0.405	J	0.402	J	0.378	J	0.591	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Reference P39 08022739SD 2/27/2008		Reference P40 08022740SD 2/27/2008		Reference P41 08022741SD 2/27/2008		Reference P42 08022742SD 2/27/2008		Reference P85 08030685SD 3/6/2008		Reference P86 08030686SD 3/6/2008		Reference P87 08030687SD 3/6/2008		Downstream P46 08031046SD 3/10/2008	
Individual Congeners in pg/g (ng/kg), dry weight																	
1		0.144	U	0.233	U	0.276	U	0.165	U	0.270	U	0.192	U	0.189	U	0.155	EMPC
2		1.13		1.63		1.73		0.614		3.93		2.99		2.29		0.263	J
3		0.261	EMPC	0.372	EMPC	0.238		0.193	EMPC	0.361		0.252		0.246		0.186	J
4		0.274	EMPC	0.629		0.506	EMPC	0.302	EMPC	0.655		0.336		0.318		0.531	UJ
5		0.120	U	0.107	U	0.125	U	0.113	U	0.107	UJ	0.0815	U	0.0791	U	0.268	UJ
6		0.154		0.231	EMPC	0.224		0.123	EMPC	0.306	J	0.195		0.164	EMPC	0.247	UJ
7		0.112	U	0.124	EMPC	0.114	U	0.103	U	0.0973	UJ	0.123		0.134	EMPC	0.255	UJ
8		0.543		0.771		1.05		0.436		1.14	J	0.747		0.686		0.321	J
9		0.107	U	0.0948	U	0.110	U	0.0986	U	0.112	EMPC	0.0714	U	0.0694	U	0.246	UJ
10		0.109	U	0.0961	U	0.113	U	0.102	U	0.0962	UJ	0.0736	U	0.0715	U	0.254	UJ
11		51.1		100		56.1		32.1		131	J	46.6		49.1		18.1	J
12	12 + 13	0.127	C U	0.112	C U	0.118	C U	0.106	C U	0.100	C UJ	0.449	C	0.535	C EMPC	0.259	C UJ
13	12 + 13		C12		C12		C12		C12		C12		C12		C12		C12
14		0.116	U	0.103	U	0.114	U	0.102	U	0.0965	UJ	0.0738	U	0.0716	U	0.246	UJ
15		1.55		1.91		1.74		0.924		1.86		1.41		1.56		0.286	UJ
16		0.284	U	0.815		0.498		0.356	U	1.04		0.458	EMPC	0.711		0.201	EMPC
17		0.343		0.750		0.466	EMPC	0.351		0.975		0.505	EMPC	0.648		0.202	J
18	18 + 30	0.727	C U	1.97	C	1.16	C	0.655	C U	2.52	C	1.11	C	1.49	C	0.415	C EMPC
19		0.0720		0.180		0.139		0.105	EMPC	0.225		0.150		0.184	EMPC	0.107	UJ
20	20 + 28	2.90	C	4.11	C	3.23	C	1.97	C	5.85	C	3.52	C	4.13	C	1.01	C EMPC
21	21 + 33	0.811	C	1.18	C	0.955	C	0.644	C	2.05	C	1.07	C	1.28	C	0.360	C J
22		0.889		1.64		1.16		0.670		2.15		1.04		1.32		0.366	EMPC
23		0.0474	U	0.0475	U	0.0535	U	0.0487	U	0.0619	U	0.0471	U	0.0534	U	0.0516	UJ
24		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0480	EMPC	0.0471	U	0.0457	U	0.0563	UJ
25		0.171	EMPC	0.247		0.160		0.111		0.320		0.181	EMPC	0.215	EMPC	0.0790	J
26	26 + 29	0.319	C EMPC	0.466	C	0.385	C	0.244	C EMPC	0.718	C	0.417	C	0.498	C	0.152	C J
27		0.0670		0.203	EMPC	0.124	EMPC	0.0890		0.247		0.107		0.141		0.0527	UJ
28	20 + 28		C20		C20		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18		C18		C18
31		1.81		2.42		1.90		1.17		3.85		2.23		2.76		0.679	J
32		0.131		0.207		0.199		0.142	EMPC	0.364		0.214		0.346		0.0730	J
33	21 + 33		C21		C21		C21		C21		C21		C21		C21		C21
34		0.0474	U	0.0620	EMPC	0.0513	U	0.0487	U	0.0594	U	0.0471	U	0.0512	U	0.0495	UJ
35		0.283		0.352	EMPC	0.216		0.0487	U	0.453	EMPC	0.253	EMPC	0.285		0.0890	UJ
36		0.125	EMPC	0.0950	EMPC	0.0730	EMPC	0.0487	U	0.151		0.0620	EMPC	0.0850	EMPC	0.0493	UJ
37		1.35		1.54		1.45		0.938		2.21		1.35		1.64		0.504	J
38		0.0474	U	0.0475	U	0.0502	U	0.0487	U	0.135		0.0680		0.0740		0.0493	UJ
39		0.0474	U	0.0475	U	0.0493	U	0.0487	U	0.0571	U	0.0471	U	0.0492	U	0.0493	UJ
40	40 + 41 + 71	0.791	C	1.32	C	0.867	C	0.656	C	2.03	C	1.08	C	1.53	C	0.285	C EMPC
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40		C40		C40
42		0.523		1.44		0.737	EMPC	0.416	EMPC	1.83		0.822		1.11		0.200	EMPC
43		0.0660	EMPC	0.0860		0.0630	EMPC	0.0487	U	0.136	EMPC	0.0720	EMPC	0.120		0.0683	UJ
44	44 + 47 + 65	2.44	C	5.89	C	3.11	C	2.07	C	8.10	C	3.54	C	4.43	C	1.14	C J
45	45 + 51	0.205	C	0.360	C	0.241	C	0.200	C	0.575	C EMPC	0.344	C EMPC	0.443	C	0.130	C J
46		0.0720		0.100	EMPC	0.0950		0.0680	EMPC	0.223		0.117	EMPC	0.189		0.0660	UJ
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44		C44		C44
48		0.337		0.728		0.442		0.280		0.972		0.516		0.634		0.132	EMPC
49	49 + 69	1.41	C	2.20	C	1.49	C	0.987	C	3.56	C	2.01	C	2.62	C	0.617	C J
50	50 + 53	0.227	C	0.475	C	0.283	C	0.220	C EMPC	0.687	C	0.316	C	0.353	C	0.143	C EMPC
51	45 + 51		C45		C45		C45		C45		C45		C45		C45		C45
52		3.71		6.06		3.99		2.73		9.07		4.60		5.84		1.48	J
53	50 + 53		C50		C50		C50		C50		C50		C50		C50		C50
54		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0508	UJ
55		0.0606	U	0.0558	U	0.0992	U	0.0774	U	0.0805	U	0.0714	U	0.107	U	0.0774	UJ
56		1.51		2.30		1.47		1.10		3.14		1.74	EMPC	2.20		0.479	J
57		0.0577	U	0.0532	U	0.0928	U	0.0724	U	0.0753	U	0.0667	U	0.100	U	0.0723	UJ
58		0.0590	U	0.0544	U	0.0968	U	0.0755	U	0.0785	U	0.0696	U	0.105	U	0.0733	UJ
59	59 + 62 + 75	0.155	C EMPC	0.426	C EMPC	0.211	C	0.178	C	0.616	C	0.289	C	0.393	C	0.118	C EMPC
60		1.10		1.51		1.08		0.734		2.08		1.15		1.41	EMPC	0.359	J
61	61 + 70 + 74 + 76	7.25	C	9.82	C	6.76	C	4.36	C	14.0	C	8.19	C	10.2	C	2.42	C J
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59		C59		C59
63		0.194		0.266	EMPC	0.164	EMPC	0.103	EMPC	0.335		0.181	EMPC	0.242		0.0681	UJ
64		1.26		1.86		1.30		0.805		3.06		1.58		2.14		0.504	J
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44		C44		C44
66		4.56		6.89		4.44		2.96		8.39		4.77		5.64		1.40	J
67		0.0930		0.158		0.0849	U	0.0710	EMPC	0.221	EMPC	0.105	EMPC	0.140	EMPC	0.0633	UJ
68		0.0536	U	0.0800	EMPC	0.0921	U	0.0718	U	0.0950	EMPC	0.0662	U	0.0996	U	0.0695	UJ
69	49 + 69		C49		C49		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40		C40		C40
72		0.0547	U	0.0790		0.0906	U	0.0706	U	0.124		0.0652	U	0.105		0.0692	UJ
73		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61		C61
77		0.637		0.883		0.709		0.434		1.27		0.734		0.890		0.259	EMPC
78		0.0614	U	0.0565	U	0.0939	U	0.0732	U	0.0762	U	0.0675	U	0.102	U	0.0763	UJ
79		0.164		0.290	EMPC	0.0970	EMPC	0.0720	EMPC	0.296	EMPC	0.156		0.167		0.0602	UJ
80		0.0553	U	0.0509	U	0.0870	U	0.0678	U	0.0705	U	0.0625	U	0.0941	U	0.0684	UJ
81		0.0556	U	0.0580		0.0927	U	0.0700	U	0.0748	U	0.0680	U	0.0988	U	0.0831	UJ
82		0.660		0.821		0.584		0.310		1.57		0.852		1.17		0.157	J
83	83 + 99	5.72	C	9.46	C	5.37	C	3.47	C	13.2	C	7.01	C	8.82	C	1.65	C J
84		1.31		1.77		1.12		0.625		3.03		1.77		2.27		0.376	J
85	85 + 116 + 117	1.98	C	2.89	C	1.68	C	1.09	C	4.67	C	2.41	C	3.08	C	0.712	C EMPC
86	86 + 87 + 97 + 108 + 119 + 125	5.28	C	9.13	C	5.07	C	3.30	C	14.2	C	7.33	C	8.96	C	1.57	C J
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
88	88 + 91	0.878	C	1.36	C	0.782	C	0.525	C	2.08	C	1.23	C	1.51	C	0.334	C EMPC
89		0.0474	U	0.0475	U	0.0485	U	0.0538	U	0.0970	EMPC	0.0550	EMPC	0.0580	EMPC	0.0753	UJ
90	90 + 101 + 113	8.77	C	16.0	C	8.58	C	5.39	C	20.4	C	11.0	C	13.4	C	2.61	C J
91	88 + 91		C88		C88		C88		C88		C88		C88		C88		C88
92		1.68		2.51		1.55		0.903		4.16		2.20		2.59		0.493	J
93	93 + 95 + 98 + 100 + 102	5.11	C	9.32	C	5.25	C	3.19	C	14.5	C	6.82	C	8.18	C	1.41	C J
94		0.0474	U	0.0475	U	0.0485	U	0.0561	U	0.0656	U	0.0471	U	0.0457	U	0.0774	UJ
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
96		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0520	EMPC	0.0471	U	0.0457	U	0.0493	UJ
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
103		0.0620	EMPC	0.0780		0.0510	EMPC	0.0487	U	0.118		0.0940	EMPC	0.106		0.0625	UJ
104		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
105		5.34		7.46		4.89		2.96		10.3		5.82		6.91		1.79	J
106		0.0492	U	0.0942	U	0.0487	U	0.0522	U	0.109	U	0.0604	U	0.0551	U	0.0784	UJ
107	107 + 124	0.448	C	0.641	C	0.424	C	0.240	C	0.955	C	0.492	C	0.637	C	0.159	C EMPC
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
109		0.984		1.30		0.908		0.565		1.86		1.02		1.32		0.272	EMPC
110	110 + 115	11.1	C	17.3	C	10.5	C	6.34	C	25.2	C	13.6	C	16.8	C	2.85	C J
111		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0460	U	0.0471	U	0.0457	U	0.0533	UJ
112		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0467	U	0.0471	U	0.0457	U	0.0529	UJ
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90		C90		C90
114		0.337	EMPC	0.345		0.284		0.154		0.542		0.328		0.336		0.0976	UJ
115	110 + 115		C110		C110		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85		C85		C85
118		13.1		24.4		13.9		8.31		29.8		14.1		16.8		4.09	J
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
120		0.0630	EMPC	0.120	EMPC	0.0870		0.0487	U	0.146		0.0750	EMPC	0.106	EMPC	0.0495	UJ
121		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0469	U	0.0471	U	0.0457	U	0.0546	UJ
122		0.153	EMPC	0.158		0.103		0.0630	EMPC	0.198		0.127		0.163	EMPC	0.0913	UJ
123		0.235	EMPC	0.406		0.272		0.172	EMPC	0.679		0.309		0.342		0.168	EMPC
124	107 + 124		C107		C107		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
126		0.115	EMPC	0.147	EMPC	0.0930	EMPC	0.0583	U	0.184	EMPC	0.0840		0.123		0.113	UJ
127		0.0522	U	0.100	U	0.0508	U	0.0544	U	0.114	U	0.0630	U	0.0574	U	0.0869	UJ

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Reference P39 08022739SD 2/27/2008		Reference P40 08022740SD 2/27/2008		Reference P41 08022741SD 2/27/2008		Reference P42 08022742SD 2/27/2008		Reference P85 08030685SD 3/6/2008		Reference P86 08030686SD 3/6/2008		Reference P87 08030687SD 3/6/2008		Downstream P46 08031046SD 3/10/2008	
128	128 + 166	2.89	C	3.29	C	2.72	C	1.49	C	6.20	C	3.91	C	4.82	C	0.767	C J
129	129 + 138 + 160 + 163	19.4	C	29.7	C	18.0	C	10.7	C	42.3	C	22.6	C	29.8	C	5.95	C J
130		1.14		1.46		1.06		0.620		2.38		1.46		1.88		0.312	J
131		0.131	EMPC	0.162		0.0780		0.0910	EMPC	0.279		0.185		0.234		0.0845	UJ
132		3.73		4.40		3.06		1.74		7.65		4.89		6.15		0.943	J
133		0.309		0.334	EMPC	0.226	EMPC	0.157		0.525	EMPC	0.362		0.426	EMPC	0.0815	UJ
134	134 + 143	0.499	C	0.724	C	0.392	C	0.278	C	1.10	C	0.664	C EMPC	0.732	C EMPC	0.117	C EMPC
135	135 + 151 + 154	4.23	C	5.98	C	4.03	C	2.28	C	9.54	C	5.80	C	6.80	C	1.34	C J
136		1.05		1.38		0.919		0.475		2.06		1.49		1.65		0.267	EMPC
137		0.541		0.754		0.454		0.313		1.37		0.643		0.892		0.158	J
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129		C129
139	139 + 140	0.267	C	0.303	C EMPC	0.216	C	0.136	C	0.516	C	0.274	C EMPC	0.373	C	0.0850	C J
140	139 + 140		C139		C139		C139		C139		C139		C139		C139		C139
141		1.56	EMPC	1.56		1.26	EMPC	0.701		3.00		1.89		2.58		0.642	J
142		0.0474	U	0.0823	U	0.0558	U	0.0744	U	0.107	U	0.0499	U	0.0757	U	0.0839	UJ
143	134 + 143		C134		C134		C134		C134		C134		C134		C134		C134
144		0.441		0.563		0.399		0.251	EMPC	0.889		0.499		0.685		0.114	EMPC
145		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
146		3.13		4.84		3.15		2.02		6.32		3.86		4.34		1.26	EMPC
147	147 + 149	10.7	C	16.7	C	10.1	C	6.06	C	23.9	C	13.7	C	16.5	C	3.01	C J
148		0.0474	U	0.0490	EMPC	0.0485	U	0.0487	U	0.0560	EMPC	0.0500	EMPC	0.0520	EMPC	0.0621	UJ
149	147 + 149		C147		C147		C147		C147		C147		C147		C147		C147
150		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135		C135		C135
152		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
153	153 + 168	16.5	C	33.5	C	18.9	C	12.2	C	47.7	C	20.9	C	25.3	C	5.46	C J
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135		C135		C135
155		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
156	156 + 157	1.80	C	2.46	C	1.65	C	0.930	C	3.74	C	2.04	C	2.66	C	0.604	C EMPC
157	156 + 157		C156		C156		C156		C156		C156		C156		C156		C156
158		1.54		1.95		1.26		0.747	EMPC	2.93		1.72		2.25		0.446	J
159		0.197		0.152		0.101		0.0528	U	0.259		0.183		0.228		0.0790	EMPC
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129		C129
161		0.0474	U	0.0559	U	0.0485	U	0.0501	U	0.0719	U	0.0471	U	0.0510	U	0.0578	UJ
162		0.0580	EMPC	0.0626	U	0.0540	EMPC	0.0545	U	0.138		0.0640	EMPC	0.112	EMPC	0.0613	UJ
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129		C129
164		0.891		1.09		0.796		0.419		1.87		1.24		1.54		0.286	J
165		0.0474	U	0.0645	U	0.0485	U	0.0586	U	0.0841	U	0.0471	U	0.0596	U	0.0651	UJ
166	128 + 166		C128		C128		C128		C128		C128		C128		C128		C128
167		0.761		1.40		0.870		0.482	EMPC	1.97		0.915		1.20		0.320	J
168	153 + 168		C153		C153		C153		C153		C153		C153		C153		C153
169		0.200	U	0.100	U	0.100	U	0.0542	U	0.200	U	0.100	U	0.100	U	0.0697	UJ
170		2.79		3.13		2.55		1.38		5.22		3.53		5.16		1.03	J
171	171 + 173	1.21	C	1.42	C	1.06	C	0.598	C	2.02	C	1.53	C	2.08	C	0.410	C EMPC
172		0.565		0.550		0.446		0.269		1.15		0.816	EMPC	1.19		0.329	EMPC
173	171 + 173		C171		C171		C171		C171		C171		C171		C171		C171
174		2.60		2.94		2.38		1.31		5.52		3.58		5.30		1.12	J
175		0.168		0.187		0.119		0.0790	EMPC	0.283		0.219		0.230	EMPC	0.0600	EMPC
176		0.409		0.526		0.458		0.248	EMPC	0.818		0.566		0.732		0.0930	EMPC
177		2.78		3.38		2.46		1.53		5.10		3.67		4.55		0.830	J
178		1.09		1.37		0.918		0.567		2.22		1.52		1.86		0.449	J
179		1.82		2.17		1.59		0.931		3.45		2.41		3.01		0.523	J
180	180 + 193	7.12	C	9.27	C	6.75	C	3.99	C	15.2	C	9.26	C	13.1	C	2.87	C J
181		0.0474	U	0.0620	EMPC	0.0485	U	0.0487	U	0.0820	EMPC	0.0471	U	0.0950		0.0521	UJ
182		0.0480	EMPC	0.0540		0.0485	U	0.0487	U	0.0840	EMPC	0.0471	U	0.0990	EMPC	0.0493	UJ
183	183 + 185	2.58	C	3.61	C	2.48	C	1.50	C	5.44	C	3.37	C	4.71	C	0.947	C J
184		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
185	183 + 185		C183		C183		C183		C183		C183		C183		C183		C183
186		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
187		6.87		9.60		6.93		4.00		15.5		9.63		12.6		2.94	J
188		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
189		0.159	EMPC	0.181		0.132		0.0720		0.250		0.158		0.243		0.0733	UJ
190		0.970		1.29		0.969		0.545		2.02		1.25		1.60		0.301	EMPC
191		0.140		0.192		0.137	EMPC	0.0540	EMPC	0.285		0.164	EMPC	0.217		0.0493	UJ
192		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
193	180 + 193		C180		C180		C180		C180		C180		C180		C180		C180
194		1.90		1.82		1.40		0.778	EMPC	3.15		2.46		3.66		0.928	J
195		0.904		1.06		0.708		0.490	EMPC	1.45		1.05		1.57		0.326	J
196		0.958	EMPC	0.968		0.788		0.452		1.80		1.29		1.97		0.361	EMPC
197	197 + 200	0.332	C	0.357	C	0.316	C EMPC	0.209	C EMPC	0.658	C	0.464	C	0.741	C	0.238	C J
198	198 + 199	2.42	C	2.78	C	2.07	C	1.12	C EMPC	5.88	C	3.92	C	6.21	C	1.49	C J
199	198 + 199		C198		C198		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197		C197		C197
201		0.347		0.444		0.286	EMPC	0.209	EMPC	0.731		0.515		0.757		0.114	EMPC
202		0.885		1.05		0.686		0.466		1.97		1.36		2.00		0.589	EMPC
203		1.96		2.70		1.83		1.08		4.60		2.78		4.18		0.917	J
204		0.0474	U	0.0475	U	0.0485	U	0.0487	U	0.0437	U	0.0471	U	0.0457	U	0.0493	UJ
205		0.137	EMPC	0.152		0.119	EMPC	0.0780	EMPC	0.233		0.171	EMPC	0.256		0.0565	UJ
206		1.89		2.28		1.70		1.01	EMPC	4.38		2.98		5.79		0.784	J
207		0.276		0.376		0.244		0.141		0.607		0.481		0.799		0.128	UJ
208		0.751		0.849		0.645		0.332	EMPC	1.83		1.13		2.16		0.412	J
209		2.49		3.78		2.40		1.52		4.83		3.58		6.67		0.825	EMPC
Total PCBs as Congeners in ug/kg, dry weight																	
Total PCBs as Congeners (full EMPC/full SDL)		0.277	J	0.445	J	0.278	J	0.169	J	0.638	J	0.331	J	0.413	J	0.0990	J
Total PCBs as Congeners (KM-based)		0.272	J	0.442	J	0.273	J	0.161	J	0.634	J	0.326	J	0.409	J	0.0880	J
Total PCBs as Congeners (KM-based, capped)		0.272	J	0.442	J	0.273	J	0.161	J	0.634	J	0.326	J	0.409	J	0.0880	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-8
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Downstream P47 08031047SD 3/10/2008		Downstream P48 08031048SD 3/10/2008		Downstream P49 08031049SD 3/10/2008		Downstream P50 08031150SD 3/11/2008		Downstream P51 08031151SD 3/11/2008		Forebay - Goose Island P110 090427110S D 4/27/2009		Forebay - Goose Island P111 090429111S D 4/29/2009	
Individual Congeners in pg/g (ng/kg), dry weight															
1		0.187	J	0.226	J	1.13	J	0.276	J	0.118	EMPC	0.309	EMPC	0.339	
2		0.406	J	0.439	J	0.411	J	5.39	J	0.335	EMPC	22.8		27.2	
3		0.186	J	0.155	J	2.67	J	0.319	J	0.148	EMPC	1.02		1.06	
4		0.429	J	0.497	J	2.31	J	0.737	J	0.344	UJ	0.856	EMPC	0.862	
5		0.155	UJ	0.205	UJ	0.257	UJ	0.147	UJ	0.201	UJ	0.289	U	0.232	U
6		0.210	J	0.188	UJ	0.237	UJ	0.436	J	0.185	UJ	0.565		0.564	EMPC
7		0.148	UJ	0.195	UJ	0.245	UJ	0.140	UJ	0.191	UJ	0.252	U	0.202	U
8		0.938	J	0.738	J	1.01	J	2.25	J	0.493	J	2.41		2.79	
9		0.142	UJ	0.187	UJ	0.236	UJ	0.135	UJ	0.184	UJ	0.257	U	0.206	U
10		0.147	UJ	0.194	UJ	0.244	UJ	0.139	UJ	0.190	UJ	0.250	U	0.201	U
11		27.2	J	27.7	J	25.9	J	52.4	J	32.9	J	91.8		101	
12	12 + 13	0.150	C UJ	0.198	C UJ	0.249	C UJ	0.478	C J	0.194	C UJ	1.51	C	1.42	C EMPC
13	12 + 13		C12		C12		C12		C12		C12		C12		C12
14		0.142	UJ	0.188	UJ	0.236	UJ	0.135	UJ	0.184	UJ	0.251	U	0.202	U
15		1.15	J	1.51	J	4.98	J	3.36	J	0.685	J	5.52	EMPC	7.13	
16		0.496	J	0.347	EMPC	0.995	J	1.91	J	0.399	J	1.85		1.77	
17		0.605	J	0.361	J	1.25	J	1.91	J	0.390	J	1.93		2.00	
18	18 + 30	1.08	C J	0.981	C J	2.51	C J	4.34	C	0.832	C J	4.40	C	4.40	C
19		0.182	EMPC	0.212	J	2.66	J	0.443	J	0.121	UJ	0.395		0.385	
20	20 + 28	2.43	C J	2.80	C J	9.28	C J	11.4	C J	1.80	C J	15.2	C	17.1	C
21	21 + 33	1.07	C J	0.751	C J	3.81	C J	3.64	C J	0.523	C J	4.83	C	5.60	C
22		0.802	J	1.02	J	3.07	J	3.57	J	0.604	J	4.60		5.08	
23		0.0501	UJ	0.0492	UJ	2.17	J	0.0751	UJ	0.0691	UJ	0.104	U	0.0716	U
24		0.0503	UJ	0.0571	UJ	0.0912	UJ	0.0800	J	0.0801	UJ	0.0760	EMPC	0.0474	U
25		0.146	J	0.135	J	0.565	J	0.652	J	0.108	J	0.807		0.939	
26	26 + 29	0.331	C J	0.372	C J	1.30	C J	1.39	C J	0.224	C J	1.70	C	1.88	C
27		0.0840	J	0.0870	J	0.156	J	0.375	J	0.0750	U	0.382		0.419	
28	20 + 28		C20		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18		C18
31		1.72	J	1.77	J	7.67	J	7.66	J	1.25	J	9.39		10.5	
32		0.329	J	0.290	J	0.794	J	0.964	J	0.139	J	0.937		0.929	
33	21 + 33		C21		C21		C21		C21		C21		C21		C21
34		0.0501	UJ	0.0492	UJ	1.91	J	0.0721	UJ	0.0663	UJ	0.102	U	0.103	EMPC
35		0.113	EMPC	0.162	J	0.167	EMPC	0.259	EMPC	0.118	EMPC	0.533	EMPC	0.594	
36		0.0501	U	0.0492	UJ	0.101	UJ	0.0690	EMPC	0.0628	UJ	0.152		0.183	EMPC
37		1.04	J	1.23	J	4.29	J	3.96	J	0.819	J	5.85		7.23	
38		0.0501	UJ	0.0492	UJ	0.104	UJ	0.0705	UJ	0.0649	UJ	0.0946	U	0.0910	
39		0.0501	UJ	0.0492	UJ	0.102	UJ	0.0693	UJ	0.0638	UJ	0.0939	U	0.117	EMPC
40	40 + 41 + 71	0.659	C J	0.665	C J	3.77	C J	4.64	C J	0.901	C J	5.92	C	6.31	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40		C40
42		0.514	EMPC	0.378	J	1.94	J	2.82	J	0.522	EMPC	3.75		3.67	
43		0.0507	UJ	0.0547	UJ	0.316	EMPC	0.379	J	0.0890	U	0.301		0.474	
44	44 + 47 + 65	2.20	C J	1.80	C J	7.04	C J	12.2	C J	2.59	C J	16.9	C	16.1	C
45	45 + 51	0.260	C EMPC	0.272	C J	1.22	C J	1.51	C J	0.282	C J	1.67	C	1.83	C
46		0.0800	EMPC	0.0990	J	0.386	J	0.515	J	0.0860	UJ	0.637	EMPC	0.698	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44		C44
48		0.313	J	0.299	J	1.74	EMPC	1.65	J	0.314	EMPC	2.40		2.42	
49	49 + 69	1.31	C	1.15	C J	5.27	C J	8.71	C J	1.43	C J	9.67	C	10.7	C
50	50 + 53	0.253	C	0.194	C J	1.10	C EMPC	1.50	C J	0.215	C EMPC	1.67	C	1.50	C
51	45 + 51		C45		C45		C45		C45		C45		C45		C45
52		4.19	J	2.84	J	11.1	J	20.3	J	3.57	J	21.6		22.5	
53	50 + 53		C50		C50		C50		C50		C50		C50		C50
54		0.0501	UJ	0.0492	UJ	2.28	J	0.0473	UJ	0.0563	UJ	0.0677	U	0.0661	U
55		0.0643	UJ	0.0492	UJ	0.192	EMPC	0.192	EMPC	0.0808	UJ	0.124	U	0.117	U
56		1.02	J	0.944	J	4.57	J	5.85	J	1.14	J	6.87		8.25	
57		0.0600	UJ	0.0492	UJ	0.0635	UJ	0.0762	UJ	0.0754	UJ	0.120	U	0.113	U
58		0.0609	UJ	0.0492	UJ	0.0644	UJ	0.0810	EMPC	0.0765	UJ	0.120	U	0.113	U
59	59 + 62 + 75	0.187	C J	0.179	C EMPC	0.831	C J	1.06	C J	0.203	C J	1.61	C	1.50	C
60		0.847	J	0.714	J	2.73	J	3.10	J	0.782	J	4.46		4.83	
61	61 + 70 + 74 + 76	6.30	C J	4.78	C J	17.1	C J	30.3	C J	5.62	C J	34.6	C	39.7	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59		C59
63		0.114	J	0.102	J	0.492	J	0.727	J	0.154	J	0.997		1.18	
64		1.22	J	0.956	J	3.99	J	5.84	J	1.12		7.06		7.58	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44		C44
66		3.46	J	2.73	J	10.1	J	17.8	J	3.33	J	21.0		24.8	
67		0.0830	J	0.0600	J	0.250	J	0.346	EMPC	0.0661	UJ	0.469	EMPC	0.519	
68		0.0577	UJ	0.0492	UJ	0.0930	EMPC	0.211	EMPC	0.0725	UJ	0.243	EMPC	0.361	
69	49 + 69		C49		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40		C40
72		0.0575	U	0.0492	UJ	0.0870	J	0.299	EMPC	0.0722	UJ	0.327		0.406	
73		0.0610	EMPC	0.0492	UJ	0.0699	UJ	0.0473	UJ	0.0567	UJ	0.0731	U	0.0643	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61
77		0.531	EMPC	0.478	J	1.60	J	2.01	J	0.573	J	2.85		3.53	
78		0.0633	UJ	0.0492	UJ	0.0670	UJ	0.0805	UJ	0.0796	UJ	0.117	U	0.111	U
79		0.114	EMPC	0.0880	EMPC	0.218	J	0.534	J	0.150	J	0.538		0.481	
80		0.0568	UJ	0.0492	UJ	0.0601	UJ	0.0722	UJ	0.0714	UJ	0.109	U	0.103	U
81		0.0707	UJ	0.0492	UJ	0.260	J	0.100	UJ	0.0981	UJ	0.135		0.150	EMPC
82		0.610	J	0.464	J	1.24	J	2.34	J	0.552	EMPC	3.66		4.45	
83	83 + 99	4.91	C J	3.50	C J	11.2	C J	22.0	C J	4.90	C J	30.0	C	33.8	C
84		1.17	J	0.826	J	2.41	J	6.29	J	0.926	J	8.13		9.95	
85	85 + 116 + 117	2.02	C J	1.33	C J	3.40	C J	5.73	C J	1.79	C J	9.25	C	10.4	C
86	86 + 87 + 97 + 108 + 119 + 125	4.59	C J	3.55	C J	10.1	C J	19.7	C J	4.51	C J	28.6	C	32.4	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86
88	88 + 91	0.831	C J	0.568	C J	1.59	C	4.17	C	0.775	C	5.27	C	6.11	C
89		0.0590	EMPC	0.0691	UJ	0.130	EMPC	0.268	J	0.265	U	0.309		0.359	EMPC
90	90 + 101 + 113	7.75	C J	5.61	C J	16.6	C J	30.9	C J	7.14	C J	44.2	C	51.9	C
91	88 + 91		C88		C88		C88		C88		C88		C88		C88
92		1.41		1.15	EMPC	2.90	J	9.03	J	1.20	J	8.33	J	9.58	J
93	93 + 95 + 98 + 100 + 102	4.85	C J	3.38	C J	8.51	C J	32.3	C J	4.49	C J	29.7	C	31.7	C
94		0.0529	UJ	0.0710	UJ	0.112	UJ	0.142	EMPC	0.275	UJ	0.111	U	0.125	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93
96		0.0501	UJ	0.0492	UJ	0.0760	J	0.104	J	0.145	UJ	0.133	EMPC	0.198	EMPC
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93
103		0.0700	EMPC	0.0573	UJ	0.0903	UJ	0.222	J	0.223	UJ	0.397		0.469	EMPC
104		0.0501	UJ	0.0492	UJ	0.890	J	0.0473	UJ	0.0652	UJ	0.0612	U	0.0557	U
105		6.26	J	4.26		9.43	J	19.7	J	3.98	J	24.9		27.7	
106		0.0576	UJ	0.0587	UJ	0.120	UJ	0.0733	UJ	0.328	UJ	0.200	U	0.270	U
107	107 + 124	0.398	C J	0.254	C EMPC	0.438	C J	1.17	C EMPC	0.414	C J	1.72	C	2.27	C EMPC
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86
109		0.762		0.549	EMPC	1.39	J	2.45	J	0.906	J	4.60		5.25	
110	110 + 115	10.6	C J	7.15	C J	17.2	C J	35.9	C J	8.71	C J	52.8	C	63.5	C
111		0.0501	UJ	0.0492	UJ	0.0771	UJ	0.0535	UJ	0.194	UJ	0.0723	U	0.0816	U
112		0.0501	UJ	0.0492	UJ	0.0765	UJ	0.0531	UJ	0.184	UJ	0.0716	U	0.0807	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90		C90
114		0.383	J	0.239		0.650	J	0.957	J	0.315	J	1.29		1.37	
115	110 + 115		C110		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85		C85
118		13.2	J	9.18	J	16.7	J	45.6	J	10.9	J	65.7		69.5	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86
120		0.0501	UJ	0.0590	EMPC	0.0715	UJ	0.226	EMPC	0.183	UJ	0.319	EMPC	0.291	
121		0.0501	UJ	0.0500	UJ	0.0788	UJ	0.0547	UJ	0.197	UJ	0.0774	U	0.0872	U
122		0.0910	EMPC	0.0800	J	0.144	EMPC	0.360	J	0.354	UJ	0.604		0.576	
123		0.271	J	0.130	J	0.497	J	0.874	J	0.226	J	0.963		0.970	EMPC
124	107 + 124		C107		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86
126		0.0805	UJ	0.0787	UJ	0.171	UJ	0.211	J	0.0962	UJ	0.255	EMPC	0.419	EMPC
127		0.0638	UJ	0.0650	UJ	0.133	U	0.0812	UJ	0.344	UJ	0.204	U	0.275	U

Table H-8
Sediment PCB Congener Analysis Results
(Page 14 of 14)

IUPAC #	COELUTING CONGENERS[1]	Downstream P47 08031047SD 3/10/2008		Downstream P48 08031048SD 3/10/2008		Downstream P49 08031049SD 3/10/2008		Downstream P50 08031150SD 3/11/2008		Downstream P51 08031151SD 3/11/2008		Forebay - Goose Island P110 0904271 10S D 4/27/2009		Forebay - Goose Island P111 0904291 11S D 4/29/2009	
128	128 + 166	2.55	C J	1.90	C J	3.23	C J	8.95	C J	2.12	C J	14.2	C	17.3	C
129	129 + 138 + 160 + 163	15.8	C J	12.0	C J	21.9	C J	69.1	C J	16.1	C J	91.4	C	97.5	C
130		0.928	EMPC	0.708	J	1.12	J	4.02	J	0.750	EMPC	5.75		6.51	
131		0.115	UJ	0.0800	EMPC	0.272	EMPC	0.461	J	0.111	UJ	0.721	EMPC	0.761	
132		2.60	J	2.42	J	5.88	J	14.5	J	2.06	EMPC	20.9		25.3	
133		0.212	J	0.165	EMPC	0.298	J	0.818	J	0.161	EMPC	1.28		1.54	
134	134 + 143	0.433	C EMPC	0.289	C J	0.738	C EMPC	2.14	C J	0.310	C EMPC	3.04	C	3.76	C
135	135 + 151 + 154	3.00	C J	2.63	C J	6.34	C	17.0	C J	2.48	C J	20.8	C	23.5	C
136		0.815	J	0.637	J	1.72	J	4.84	J	0.664	J	6.12		7.28	
137		0.667	EMPC	0.481	J	1.04	EMPC	1.96	J	0.454	J	2.52	EMPC	3.22	EMPC
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129
139	139 + 140	0.237	C EMPC	0.114	C EMPC	0.330	C	0.721	C	0.116	C EMPC	1.31	C EMPC	1.33	C
140	139 + 140		C139		C139		C139		C139		C139		C139		C139
141		1.46	J	1.22	J	2.43	J	7.30	J	1.26	J	7.80		10.7	
142		0.115	UJ	0.0793	UJ	0.112	UJ	0.114	UJ	0.110	UJ	0.168	U	0.307	U
143	134 + 143		C134		C134		C134		C134		C134		C134		C134
144		0.331	J	0.332	EMPC	0.746	J	1.64	J	0.254	J	1.98		2.66	
145		0.0501	UJ	0.0492	UJ	0.0482	UJ	0.0495	UJ	0.0563	UJ	0.0739	U	0.0643	U
146		2.82	J	2.39	J	5.31	J	13.3	J	3.80	J	9.23	J	8.91	J
147	147 + 149	7.67	C J	6.04	C J	13.4	C J	39.2	C J	6.15	C J	54.9	C	60.2	C
148		0.0501	UJ	0.0529	UJ	0.0618	UJ	0.0730	J	0.0669	UJ	0.132		0.0796	U
149	147 + 149		C147		C147		C147		C147		C147		C147		C147
150		0.0501	U	0.0492	UJ	0.0482	UJ	0.0482	UJ	0.0563	UJ	0.100		0.122	EMPC
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135		C135
152		0.0501	UJ	0.0492	UJ	0.0482	UJ	0.0473	UJ	0.0563	UJ	0.0676	U	0.0589	U
153	153 + 168	13.2	C J	9.74	C J	18.3	C	56.8	C J	12.0	C J	87.6	C	78.8	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135		C135
155		0.0501	UJ	0.0492	UJ	0.350	J	0.0473	UJ	0.0563	UJ	0.0591	U	0.0523	U
156	156 + 157	1.82	C J	1.39	C EMPC	2.89	C	6.25	C J	1.74	C	8.50	C	10.4	C
157	156 + 157		C156		C156		C156		C156		C156		C156		C156
158		1.32	J	1.01	J	2.05	J	5.59	J	1.10	J	6.63		7.51	
159		0.0817	UJ	0.144	J	0.319	J	0.987	EMPC	0.118	EMPC	0.753		0.871	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129
161		0.0790	UJ	0.0547	UJ	0.0769	UJ	0.0788	UJ	0.0760	UJ	0.113	U	0.207	U
162		0.0838	UJ	0.0580	UJ	0.0816	UJ	0.226	EMPC	0.0806	UJ	0.284	EMPC	0.250	EMPC
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129
164		0.714	J	0.636	J	1.21	EMPC	3.73	J	0.688	J	5.10		6.01	
165		0.0889	UJ	0.0615	UJ	0.0865	UJ	0.0887	UJ	0.0855	UJ	0.130	U	0.238	U
166	128 + 166		C128		C128		C128		C128		C128		C128		C128
167		0.697	J	0.554	J	1.03	J	2.61	J	0.765	J	4.02		3.81	
168	153 + 168		C153		C153		C153		C153		C153		C153		C153
169		0.0894	UJ	0.0630	UJ	0.0900	UJ	0.154	UJ	0.0837	UJ	0.241	U	0.250	U
170		1.86	J	2.04	J	5.34	J	12.4	J	2.73	J	13.8		17.1	
171	171 + 173	0.715	C J	0.627	C EMPC	1.67	C	4.57	C J	0.806	C	5.36	C	5.94	C
172		0.524	J	0.481	EMPC	1.16	J	2.65	J	0.705	J	2.43		3.08	
173	171 + 173		C171		C171		C171		C171		C171		C171		C171
174		1.82	J	1.69	J	4.75	J	13.1	J	2.21	J	13.9		18.8	
175		0.0870	EMPC	0.125	EMPC	0.175	J	0.612	J	0.122	EMPC	0.706		0.698	EMPC
176		0.306	EMPC	0.249	J	0.573	J	1.80	J	0.207	EMPC	1.99		2.20	
177		1.86	J	1.69	J	4.39	J	10.3	J	2.13	J	11.9		13.8	
178		0.667	EMPC	0.601	J	1.33	EMPC	4.16	J	0.998	J	5.05		5.66	
179		1.13	J	1.02	J	2.51	J	6.56	J	1.01	J	8.08		9.39	
180	180 + 193	4.66	C J	4.94	C J	12.6	C J	31.4	C J	7.15	C J	32.2	C	37.6	C
181		0.0501	UJ	0.0566	UJ	0.122	EMPC	0.160	EMPC	0.0563	UJ	0.164	EMPC	0.139	EMPC
182		0.0501	UJ	0.0522	UJ	0.0980	EMPC	0.117	EMPC	0.0920	EMPC	0.117	U	0.178	
183	183 + 185	1.67	C J	1.53	C	3.86	C	10.9	C	1.90	C	11.5	C	13.1	C
184		0.0501	UJ	0.0492	UJ	0.0482	UJ	0.0473	UJ	0.0563	UJ	0.0990	EMPC	0.0741	U
185	183 + 185		C183		C183		C183		C183		C183		C183		C183
186		0.0501	UJ	0.0492	UJ	0.0515	UJ	0.0473	UJ	0.0563	UJ	0.0974	U	0.0791	U
187		4.81	J	4.34	J	10.9	J	29.7	J	7.70	J	31.1	J	29.8	J
188		0.0501	UJ	0.0492	UJ	0.0940	J	0.0473	UJ	0.0563	UJ	0.0892	U	0.0733	U
189		0.115	EMPC	0.0970	J	0.254	J	0.596	J	0.140	J	0.615		0.869	
190		0.572	J	0.431	J	1.29	J	3.28	J	0.731	J	4.02		4.11	EMPC
191		0.0690	EMPC	0.0930	J	0.173	EMPC	0.522	J	0.104	EMPC	0.534	EMPC	0.630	
192		0.0501	UJ	0.0492	UJ	0.0603	UJ	0.0540	UJ	0.0563	UJ	0.104	U	0.0844	U
193	180 + 193		C180		C180		C180		C180		C180		C180		C180
194		1.11	J	1.17	EMPC	3.01	J	7.52	J	2.04	J	9.07		12.0	
195		0.564	J	0.578	EMPC	1.36	J	3.41	J	1.01	J	4.07		4.76	
196		0.646	EMPC	0.558	EMPC	1.45	J	3.73	J	0.932	EMPC	4.27		5.18	
197	197 + 200	0.339	C J	0.418	C J	0.670	C EMPC	1.46	C J	0.328	C UJ	0.815	C	1.01	C J
198	198 + 199	2.04	C J	1.68	C J	3.57	C EMPC	9.72	C J	2.94	C J	13.4	C	17.1	C
199	198 + 199		C198		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197		C197
201		0.321	J	0.216	EMPC	0.482	J	1.28	J	0.293	EMPC	1.64	EMPC	1.80	
202		0.738	J	0.515	J	1.14	J	3.04	J	1.15	J	4.07		4.81	
203		1.20	EMPC	1.32	J	2.39	J	6.99	J	2.28	J	9.76		10.9	
204		0.0501	UJ	0.0492	UJ	0.0487	UJ	0.0473	UJ	0.0563	UJ	0.0942	U	0.0818	U
205		0.0950	EMPC	0.0650	EMPC	0.117	J	0.398	J	0.115	EMPC	0.499		0.631	EMPC
206		2.92	J	1.05	J	1.59	J	6.16	J	2.16	J	7.73		11.1	
207		0.413	J	0.118	UJ	0.231	J	0.789	EMPC	0.287	EMPC	1.25		1.62	
208		1.40	J	0.437	J	0.574	J	2.26	J	0.876	J	2.71		3.88	
209		2.40	J	1.25	J	1.49	J	7.10	J	3.45	J	6.79		11.0	
Total PCBs as Congeners in ug/kg, dry weight															
Total PCBs as Congeners (full EMPC/full SDL)		0.221	J	0.181	J	0.430	J	0.923	J	0.223	J	1.22	J	1.36	J
Total PCBs as Congeners (KM-based)		0.215	J	0.173	J	0.418	J	0.917	J	0.213	J	1.20	J	1.34	J
Total PCBs as Congeners (KM-based, capped)		0.215	J	0.173	J	0.418	J	0.917	J	0.213	J	1.20	J	1.34	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-9
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Forebay P04 08022604TC 2/26/2008		Forebay P07 08021507TC 2/15/2008		Forebay P08 08021508TC 2/15/2008		Forebay P10 08021410TC 2/14/2008		Forebay P11 08021411TC 2/14/2008		Forebay P15 08022115TC 2/21/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		2.74		1.68		2.18		1.41		1.66		1.65	
2		3.68		3.01		4.21	J	2.54		3.06		3.31	
3		0.763		0.592		0.795		0.435		0.654		0.642	EMPC
4		100		59.5		39.8		32.8		36.8		36.6	
5		1.08		0.834		0.805	J	0.629		0.828	J	0.800	
6		13.9		8.19		7.02	J	6.50		7.86	J	7.64	
7		0.503		0.472		0.358	J	0.290	U	0.347	J	0.379	
8		26.5		19.4		18.5	J	14.3		17.6	J	19.7	
9		0.799		0.789		0.487	J	0.405		0.539	J	0.510	EMPC
10		0.872		0.669		0.390	J	0.371		0.428	EMPC	0.493	
11		8,810		6,810		8,370	J	5,260		6,580	J	6,630	
12	12 + 13	0.124	C U	0.212	C U	0.268	C UJ	0.308	C U	0.186	C UJ	0.270	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.167		0.202	U	0.255	UJ	0.293	U	0.178	UJ	0.258	U
15		25.7		18.5		22.9		27.4		26.3		20.1	
16		127		63.8		62.4		52.7		58.0		60.9	
17		208		85.9		64.1		47.4		50.7		52.3	
18	18 + 30	346	C	144	C	131	C	110	C	121	C	123	C
19		24.8		14.3		8.00		6.35		7.40		7.74	
20	20 + 28	142	C	80.2	C	86.1	C	62.1	C	77.6	C	79.4	C
21	21 + 33	70.4	C	38.2	C	42.3	C	30.3	C	38.6	C	38.3	C
22		159		84.1		90.5		70.1		84.0		80.3	
23		0.115	U	0.0991	U	0.120	U	0.0879	U	0.0830		0.0770	
24		0.0417	U	0.758		0.0469	U	0.734	EMPC	0.0473	U	0.0481	U
25		33.9		9.37		7.96		5.64		6.52		6.53	
26	26 + 29	34.0	C	15.9	C	15.6	C	11.1	C	14.4	C	14.1	C
27		107		36.2		22.6		15.8		14.4		14.5	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		83.6		47.1		51.4		35.6		48.1		47.6	
32		23.3		7.95		5.00		3.75		4.66		4.81	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.351		0.183	EMPC	0.187		0.180		0.191		0.227	
35		14.0		12.6		12.7		8.72		11.9		11.9	
36		3.86		3.07		3.54		2.45		3.13		3.15	
37		58.1		35.1		35.9		27.7		35.3		35.2	
38		2.77		1.04		1.15		0.815		0.832	EMPC	0.868	
39		7.79		2.26	J	2.44	J	1.79	J	1.98	J	1.91	J
40	40 + 41 + 71	494	C	104	C	83.8	C	63.7	C	68.1	C	64.4	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		982		255		195		133		121		124	
43		14.3		5.57		6.01		4.04		4.35		3.83	
44	44 + 47 + 65	8,950	C	1,710	C	1,050	C	633	C	456	C	458	C
45	45 + 51	65.2	C	19.9	C	17.5	C	13.4	C	14.7	C	15.6	C
46		7.57		3.13		2.86		2.15		2.69		2.60	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		209		63.1		63.1		45.3		51.1		48.0	
49	49 + 69	771	C	140	C	121	C	85.9	C	92.9	C	88.1	C
50	50 + 53	455	C	90.4	C	58.8	C	37.8	C	31.7	C	32.9	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		3,660		501		392		284		279		262	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.452	EMPC	0.219		0.124		0.0750		0.0730		0.135	
55		0.968	U	0.340	U	0.339	U	0.241	U	0.421	U	0.395	U
56		697		147		115		89.0		91.0		86.5	
57		1.20		0.579		0.566		0.450		0.624		0.496	
58		0.910	U	0.328	U	0.328	U	0.233	U	0.406	U	0.381	U
59	59 + 62 + 75	74.6	C	28.8	C	30.1	C	22.8	C	25.5	C	24.7	C
60		178		60.0		58.1		42.5		51.8		51.2	
61	61 + 70 + 74 + 76	3,230	C	542	C	446	C	317	C	344	C	319	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		42.6		11.6		10.7		7.84		9.51		8.78	
64		368		90.3		82.3		59.8		68.3		67.9	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		1,680		387		337		244		280		258	
67		20.9		8.22		8.43		6.66		8.23		7.55	
68		5.15		2.48		2.36		1.78		2.36		2.15	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		5.58		2.37		2.33		1.76		2.05		1.99	
73		0.0417	U	0.0468	U	0.0469	U	0.0488	U	0.0473	U	0.0481	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		69.0		35.9		34.8		26.9		33.6		33.3	
78		0.920	U	0.343	U	0.343	U	0.244	U	0.425	U	0.398	U
79		613		125		78.5		43.8		23.9		24.5	
80		0.830	U	0.298	U	0.298	U	0.212	U	0.369	U	0.346	U
81		3.30	EMPC	1.56	EMPC	1.42	EMPC	0.693	EMPC	1.42	EMPC	1.31	EMPC
82		357		43.2		31.9		24.6		19.3		19.1	
83	83 + 99	9,730	C	1,520	C	1,210	C	726	C	621	C	579	C
84		834		110		81.8		57.3		52.3		51.2	
85	85 + 116 + 117	1,880	C	291	C	242	C	157	C	145	C	142	C
86	86 + 87 + 97 + 108 + 119 + 125	17,400	C	2,880	C	1,860	C	1,070	C	615	C	614	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	1,010	C	129	C	105	C	69.7	C	61.1	C	59.4	C
89		31.7		3.90		2.99		2.17		1.99		2.04	
90	90 + 101 + 113	15,900	C	2,200	C	1,790	C	1,100	C	992	C	923	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		1,290		187		162		112		115		109	
93	93 + 95 + 98 + 100 + 102	15,200	C	2,410	C	1,620	C	899	C	593	C	603	C
94		10.5		1.53		1.28		0.906		0.943		0.923	
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		8.86		1.27		0.979		0.732		0.662		0.667	
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		16.2		3.03		2.92		2.10		2.26		2.10	
104		0.366		0.101	EMPC	0.0910	EMPC	0.0598	U	0.0940	EMPC	0.0840	EMPC
105		6,200		924		741		455		407		397	
106		1.06	U	0.453	U	0.405	U	0.301	U	0.167	U	0.293	U
107	107 + 124	521	C	77.4	C	62.7	C	37.4	C	32.8	C	32.4	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		653		120		102		66.5		69.8		69.1	
110	110 + 115	12,400	C	1,720	C	1,360	C	928	C	852	C	812	C
111		0.359	U	0.295	U	0.321		0.260	EMPC	0.524	EMPC	0.495	EMPC
112		0.359	U	0.275	U	0.261	U	0.225	U	0.206	U	0.185	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		445		65.5		52.5		28.1		23.8		23.1	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		64,700		12,100		7,970		4,090		2,260		2,300	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		15.5		6.92		7.21		5.52		7.17		6.72	
121		0.506		0.297	U	0.339		0.266		0.309		0.319	
122		60.9		13.4		12.7		6.55		4.83		5.10	
123		1,150		229		152		83.7		46.2		47.1	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		11.0		4.57		4.17		3.37		4.13		3.86	
127		23.4		5.19		2.92		1.68		0.178	U	1.04	

Table H-9
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Forebay P04 08022604TC 2/26/2008		Forebay P07 08021507TC 2/15/2008		Forebay P08 08021508TC 2/15/2008		Forebay P10 08021410TC 2/14/2008		Forebay P11 08021411TC 2/14/2008		Forebay P15 08022115TC 2/21/2008	
128	128 + 166	1,220	C	231	C	200	C	130	C	128	C	135	C
129	129 + 138 + 160 + 163	30,900	C	5,610	C	4,250	C	2,590	C	2,080	C	2,070	C
130		488		112		96.1		65.3		68.5		69.4	
131		87.8		14.5		11.8		7.50		7.00		6.90	
132		1,420		265		223		157		152		147	
133		80.0		23.5		21.9		14.9		17.9		17.7	
134	134 + 143	253	C	50.1	C	43.3	C	28.9	C	29.0	C	29.2	C
135	135 + 151 + 154	1,440	C	343	C	323	C	223	C	258	C	256	C
136		406		67.2		59.2		41.6		41.4		41.3	
137		956		164		113		65.6		37.9		37.5	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	183	C	31.9	C	27.6	C	16.5	C	15.5	C	15.3	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		299		61.6		58.8		43.3		35.9		39.5	
142		0.834	U	0.433	U	0.443	U	0.546	U	0.596	U	0.759	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		204		36.1		33.0		21.7		23.4		22.3	
145		2.16		0.288		0.290		0.232		0.108		0.143	EMPC
146		2,310		584		501		327		331		324	
147	147 + 149	10,000	C	1,910	C	1,640	C	1,070	C	1,070	C	1,040	C
148		5.32		1.86		1.94		1.42		1.71		1.54	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		5.10		1.31		1.38		0.918		1.09		1.01	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		4.02		0.611		0.541		0.349		0.332		0.314	
153	153 + 168	61,300	C	14,400	C	10,100	C	5,270	C	3,560	C	3,830	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		1.06		0.802		0.869	EMPC	0.664		0.894		0.856	
156	156 + 157	3,610	C	584	C	405	C	228	C	136	C	133	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		1,480		264		215		126		115		115	
159		5.83		2.11		1.77		1.47		1.85		1.78	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.554	U	0.304	U	0.311	U	0.383	U	0.418	U	0.533	U
162		25.6		5.18		4.23		2.51		2.71		2.92	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		255		46.0		42.1		30.7		32.0		33.2	
165		1.63		0.636		0.575		0.439	U	0.587		0.610	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		3,800		944		566		302		146		157	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		16.5	U	5.60	U	4.73	U	3.37	U	3.27	U	3.56	U
170		188		49.4		44.6		32.9		38.9		39.3	
171	171 + 173	283	C	88.2	C	79.6	C	55.6	C	62.4	C	66.8	C
172		18.4		6.23		5.91		4.70		5.65		5.45	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		129		41.6		39.7		31.6		36.1		37.9	
175		28.9		9.62		9.47		6.50		7.84		8.34	
176		86.4		31.0		29.8		21.7		25.6		25.8	
177		485		196		188		136		164		170	
178		179		88.2		88.0		62.9		80.6		82.3	
179		245		116		115		84.2		105		105	
180	180 + 193	2,720	C	874	C	692	C	491	C	476	C	509	C
181		30.8		5.60		4.57		2.73		2.16		2.34	
182		3.27		1.40		1.51		1.19		1.21		1.14	
183	183 + 185	865	C	265	C	243	C	171	C	194	C	201	C
184		2.00		1.29		1.43		1.00		1.31		1.38	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0417	U	0.0468	U	0.0469	U	0.0488	U	0.0473	U	0.0481	U
187		1,490		679		671		479		602		617	
188		1.86		1.27		1.22		0.917		1.11		1.20	
189		10.1		2.22		2.12		1.52		1.71		1.56	
190		435		130		114		78.7		79.8		84.1	
191		32.2		8.64		7.73		5.50		5.77		6.07	
192		0.0417	U	0.0468	U	0.0495	U	0.0488	U	0.0473	U	0.0481	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		19.5		8.22		8.38		6.54		8.52		7.72	
195		54.0		24.7		24.5		18.0		22.2		22.6	
196		34.2		13.9		14.0		10.5		12.7		12.4	
197	197 + 200	17.0	C	7.61	C	7.75	C	5.70	C	6.96	C	7.31	C
198	198 + 199	61.1	C	29.1	C	28.6	C	22.6	C	28.0	C	27.3	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		40.6		19.7		19.2		14.2		17.8		18.6	
202		101		60.9		61.2		45.2		57.8		58.2	
203		324		144		136		98.7		111		116	
204		0.0820		0.0740	EMPC	0.0810		0.0930		0.0730	EMPC	0.0530	
205		9.52		4.16		4.14		2.98		3.65		3.69	
206		30.2		15.7		15.9		11.8		14.7		14.8	
207		5.44		3.05		3.05		2.26		2.84		2.77	
208		11.7		7.24		7.20		5.51		7.00		7.09	
209		13.5		10.8		11.2		8.26		10.8		10.9	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		312	J	65.7	J	51.5	J	30.6	J	26.7	J	26.9	J
Total PCBs as Congeners (KM-based)		312	J	65.7	J	51.5	J	30.7	J	26.7	J	26.9	J
Total PCBs as Congeners (KM-based, capped)		312	J	65.7	J	51.5	J	30.6	J	26.7	J	26.9	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-9
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Forebay P16 08022116TC 2/21/2008		Forebay P17 08022117TC 2/21/2008		Forebay P18 08021118TC 2/12/2008		Forebay P21 08021221TC 2/12/2008		Forebay P05 08031905TC 3/19/2008		Forebay P06 08031806TC 3/18/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		1.32		1.78		1.91		1.80		2.83		4.56	
2		3.05		3.56		3.45		3.64		2.78		3.68	
3		0.654		0.677		0.634		0.576	EMPC	0.763		0.914	
4		36.2		33.1		37.1		38.9		93.7		227	
5		0.728		0.740		0.719		0.610		0.956		1.11	
6		7.43		7.39		8.01		8.30		9.60		12.9	
7		0.297		0.321		0.355		0.296		0.493		1.06	
8		16.3		17.5		19.8		17.0		24.0		37.0	
9		0.456	EMPC	0.504		0.576		0.444		0.801		1.64	
10		0.426		0.408		0.443		0.392		1.02		2.45	
11		6,220		6,080		6,840		6,470		7,750		9,620	
12	12 + 13	0.225	C U	0.132	C U	0.108	C U	0.150	C U	0.229	C U	0.173	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.214	U	0.128	U	0.127		0.146	U	0.218	U	0.168	U
15		23.3		16.4		17.3		20.4		23.0	J	25.7	
16		62.0		63.7		66.0		68.7		77.3		97.0	
17		51.9		53.1		55.3		54.0		105		159	
18	18 + 30	127	C	127	C	132	C	133	C	193	C	235	C
19		6.67		6.71		7.63		6.96		13.8		40.9	
20	20 + 28	74.7	C	75.5	C	77.8	C	69.8	C	97.1	C	115	C
21	21 + 33	35.2	C	37.6	C	41.8	C	34.2	C	46.7	C	56.9	C
22		77.8		82.4		86.6		76.3		107		117	
23		0.0860		0.0996	U	0.0820		0.0750		0.219	U	0.175	U
24		0.0484	U	0.723	EMPC	0.0466	U	0.0457	U	0.571		0.0487	U
25		6.13		6.55		6.53		5.80		12.6		15.4	
26	26 + 29	13.4	C	13.4	C	14.4	C	13.0	C	18.7	C	23.8	C
27		15.5		14.3		14.5		15.8		42.1		68.1	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		42.7		45.1		48.4		39.3		61.3		76.2	
32		4.43		5.03		5.87		4.41		8.09		17.8	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.183		0.215		0.225		0.213		0.259		0.348	
35		9.93		9.60		10.4		9.54		14.3		16.5	
36		2.84		2.76		2.98		2.75		3.68		4.31	
37		30.6		31.8		36.1		32.4		43.0		53.7	
38		0.797		0.845		0.887		0.791		1.49		1.53	
39		1.85	J	2.06		2.26		1.95		3.32		3.85	
40	40 + 41 + 71	64.3	C	66.5	C	77.6	C	63.2	C	114	C	182	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		128		132		141		122		262		341	
43		4.33		4.24		4.68		4.15		4.49		10.9	
44	44 + 47 + 65	484	C	484	C	504	C	452	C	1,760	C	2,430	C
45	45 + 51	14.2	C	16.7	C	18.0	C	14.8	C	22.2	C	34.2	C
46		2.45		2.77		3.03		2.51		3.71		6.15	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		49.9		54.0		58.0		49.7		72.2		101	
49	49 + 69	83.7	C	95.0	C	101	C	83.7	C	171	C	310	C
50	50 + 53	34.1	C	37.4	C	38.3	C	34.2	C	104	C	158	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		261		277		296		261		665		1,320	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0484	U	0.0660		0.0710		0.0580	EMPC	0.175	EMPC	0.544	
55		0.488	U	0.424	U	0.496	U	0.449	U	1.08	U	0.575	U
56		80.0		89.6		101		79.6		180		243	
57		0.535		0.563		0.600		0.497		0.948	U	0.813	
58		0.472	U	0.399	U	0.466	U	0.422	U	1.06	U	0.541	U
59	59 + 62 + 75	26.3	C	26.6	C	28.1	C	26.3	C	35.0	C	43.4	C
60		45.3		49.0		56.2		46.6		76.2		104	
61	61 + 70 + 74 + 76	307	C	330	C	358	C	300	C	729	C	1,210	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		8.57		9.25		10.0		8.44		15.1		21.5	
64		61.6		69.2		76.2		61.9		110		186	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		249		269		300		253		516		714	
67		6.99		8.06		8.39		7.32		11.6		15.0	
68		1.94		2.22		2.18		1.76		2.50		3.66	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		1.87		2.13		2.07		1.81		2.61		3.33	
73		0.0484	U	0.0469	U	0.0466	U	0.0457	U	0.0495	U	0.0487	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		30.1		30.7		33.9		32.0		41.0		52.3	
78		0.493	U	0.403	U	0.471	U	0.427	U	1.02	U	0.547	U
79		22.8		22.8		23.6		22.1		152		160	
80		0.429	U	0.363	U	0.425	U	0.385	U	0.903	U	0.493	U
81		1.54	EMPC	1.55	EMPC	1.42	EMPC	1.38	EMPC	2.70	EMPC	1.97	EMPC
82		15.6		18.7		19.0		16.0		57.4		120	
83	83 + 99	567	C	583	C	592	C	554	C	1,540	C	2,710	C
84		45.9		52.6		54.2		48.8		123		301	
85	85 + 116 + 117	129	C	136	C	143	C	134	C	330	C	591	C
86	86 + 87 + 97 + 108 + 119 + 125	583	C	599	C	600	C	573	C	2,790	C	4,080	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	55.3	C	64.2	C	63.6	C	57.9	C	146	C	303	C
89		1.80		1.98		2.21		1.90		4.63		9.91	
90	90 + 101 + 113	899	C	968	C	967	C	927	C	2,310	C	4,200	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		104		114		117		109		207		423	
93	93 + 95 + 98 + 100 + 102	605	C	676	C	648	C	591	C	2,390	C	3,930	C
94		0.766		0.894		0.950		0.735		1.68		4.22	
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.591		0.743		0.724		0.647		1.57		3.71	
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		2.13		2.47		2.49		2.04		3.57		6.70	
104		0.0740	EMPC	0.0740		0.0810		0.0720	EMPC	0.167	EMPC	0.132	EMPC
105		361		365		377		371		1,020		1,730	
106		0.280	U	0.314	U	0.212	U	0.287	U	0.391	U	0.715	U
107	107 + 124	29.4	C	29.9	C	30.1	C	30.8	C	88.9	C	136	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		64.5		60.9		62.5		61.4		148		224	
110	110 + 115	738	C	786	C	796	C	784	C	1,920	C	3,490	C
111		0.383	EMPC	0.545		0.412	EMPC	0.418		0.657	U	0.680	U
112		0.124	U	0.184	U	0.205	U	0.220	U	0.636	U	0.680	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		20.9		20.2		22.8		21.6		77.4		126	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		2,170		2,080		2,130		2,050		10,300		15,900	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		6.52		6.40		6.56		6.40		8.05		9.61	
121		0.321		0.363		0.321		0.311		0.649	U	0.699	U
122		3.84		3.95		3.80		3.87		19.9	EMPC	22.3	
123		42.0		38.4		41.3		39.2		239		293	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		4.02		3.39		3.63		4.00		5.27		5.74	
127		1.13		0.319	U	1.03		1.15		5.67		7.75	

Table H-9
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Forebay P16 08022116TC 2/21/2008		Forebay P17 08022117TC 2/21/2008		Forebay P18 08021118TC 2/12/2008		Forebay P21 08021221TC 2/12/2008		Forebay P05 08031905TC 3/19/2008		Forebay P06 08031806TC 3/18/2008	
128	128 + 166	114	C	114	C	122	C	118	C	244	C	416	C
129	129 + 138 + 160 + 163	1,970	C	1,800	C	1,890	C	1,890	C	5,880	C	7,400	C
130		61.2		57.6		58.6		57.4		125		176	
131		6.11		5.92		5.90		5.96		13.3		27.3	
132		131		129		132		127		272		497	
133		16.3		14.8		15.3		14.7		24.9		35.1	
134	134 + 143	26.4	C	26.4	C	26.9	C	24.8	C	51.0	C	96.0	C
135	135 + 151 + 154	241	C	246	C	259	C	243	C	362	C	579	C
136		39.3		44.2		44.5		39.3		71.9		143	
137		37.3		28.8		33.8		30.6		163		237	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	14.5	C	13.6	C	14.5	C	13.4	C	29.6	C	54.8	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		33.2		33.0		37.5		33.7		104		100	
142		0.745	U	0.588	U	0.589	U	0.754	U	2.04	U	0.910	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		21.6		21.0		23.5		20.9		39.9		69.2	
145		0.0970	EMPC	0.117		0.116		0.107		0.340		0.686	
146		311		270		290		286		591		776	
147	147 + 149	993	C	941	C	1,000	C	962	C	1,920	C	2,760	C
148		1.58		1.64		1.74		1.66		2.12		2.99	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		1.05		1.14		1.21		1.06		1.45		2.49	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.325	EMPC	0.357		0.371		0.322		0.702		1.45	
153	153 + 168	3,740	C	2,980	C	3,160	C	2,950	C	13,300	C	18,100	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.720		0.822	EMPC	0.826		0.732		1.09		1.18	
156	156 + 157	128	C	120	C	124	C	121	C	614	C	828	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		103		98.8		104		103		259		397	
159		1.56		1.49		1.62		1.71		2.58		2.88	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.523	U	0.390	U	0.392	U	0.501	U	1.43	U	0.604	U
162		2.06		2.23		2.24		2.20		4.31		8.18	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		27.4		29.3		31.3		29.8		60.4		88.6	
165		0.599	U	0.521		0.580		0.580	U	1.62	U	0.700	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		149		134		131		125		956		1,180	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		3.53	U	3.40	U	3.66	U	3.62	U	1.73	U	6.60	U
170		32.3		32.2		34.7		34.3		58.5		78.4	
171	171 + 173	56.3	C	55.5	C	55.1	C	57.2	C	91.8	C	119	C
172		4.60		4.53		5.02		4.75		7.22		8.92	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		31.1		30.8		32.9		32.1		46.6		61.2	
175		7.20		6.90		7.01		7.22		10.6		13.7	
176		23.3		21.2		21.1		22.2		31.3		41.3	
177		148		146		141		151		217		266	
178		72.4		70.3		70.0		72.9		90.9		118	
179		95.7		88.2		86.2		88.3		116		149	
180	180 + 193	489	C	420	C	424	C	433	C	929	C	1,050	C
181		2.13		1.95		2.04		2.07		5.76		8.24	
182		0.0484	U	1.18		1.23		1.12		1.55		2.18	
183	183 + 185	183	C	170	C	175	C	184	C	288	C	343	C
184		1.20		1.10		1.05		1.09		1.44		1.67	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0484	U	0.0469	U	0.0466	U	0.0463	U	0.0929	U	0.0487	U
187		549		502		520		556		736		879	
188		1.08		1.02		1.06		1.00		1.18		1.64	
189		1.56		1.67		1.60		1.66		2.77		4.03	
190		76.5		68.5		71.6		77.5		142		162	
191		5.28		5.26		5.28		5.14		10.7		12.7	
192		0.0484	U	0.0469	U	0.0466	U	0.0539	U	0.110	U	0.0563	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		6.83		7.11		7.23		7.74		10.0		11.8	
195		19.9		19.5		18.5		19.3		25.3		30.9	
196		11.4		11.9		11.8		11.6		15.2		18.9	
197	197 + 200	6.44	C	6.39	C	6.30	C	6.09	C	8.14	C	9.58	C
198	198 + 199	24.0	C	25.2	C	25.1	C	23.9	C	31.4	C	38.5	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		16.4		16.3		15.8		15.6		19.9		25.0	
202		52.1		49.2		47.4		49.4		59.7		73.6	
203		111		106		107		104		144		171	
204		0.0660	EMPC	0.0660	EMPC	0.0670	EMPC	0.0610	EMPC	0.0970		0.132	EMPC
205		3.36		3.35		3.26		3.22		4.26		5.31	
206		13.1		13.1		12.5		12.7		16.7		19.7	
207		2.58		2.71		2.51		2.64		3.29		3.90	
208		6.10		6.13		5.82		5.95		7.88		9.00	
209		9.41		9.45		8.11		8.91		11.0		12.7	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		25.5	J	24.5	J	25.9	J	24.7	J	65.8	J	95.1	J
Total PCBs as Congeners (KM-based)		25.6	J	24.5	J	25.9	J	24.6	J	65.8	J	95.1	J
Total PCBs as Congeners (KM-based, capped)		25.5	J	24.5	J	25.9	J	24.6	J	65.8	J	95.1	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-9
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Forebay P13 08031713TC 3/17/2008		Forebay P14 08031814TC 3/18/2008		Forebay P65 08022965TC 2/29/2008		Forebay P88 08031788TC 3/17/2008		Forebay P89 08031789TC 3/17/2008		Reference P22 08030522TC 3/5/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		1.66		1.87		1.87		1.69		1.85		1.73	
2		3.32		3.72		3.48		3.25		3.31		5.27	
3		0.716	U	0.777	U	0.846	U	0.755	U	0.723	U	0.699	U
4		42.9		44.6		46.3		39.3		34.7		37.7	
5		0.940		1.16		1.14		1.08		0.946		1.09	
6		11.4		10.9		11.4		9.06		8.02		9.53	
7		0.443		0.460		0.474		0.446		0.567		0.447	
8		24.8		25.0		25.6		23.4		22.3		20.3	
9		0.647		0.752		0.714		0.668		0.648	EMPC	0.583	
10		0.596		0.729		0.664		0.674		0.647		0.620	
11		7,780		7,370		8,450		8,120		7,760		8,040	
12	12 + 13	51.1	C	59.3	C	71.7	C	59.9	C EMPC	59.1	C	40.7	C
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.174		0.240	EMPC	0.201		0.182		0.194	EMPC	0.193	EMPC
15		16.2		15.3		18.7		14.2		13.5		12.8	
16		89.6		86.3		96.8		81.9		71.1		84.7	
17		80.6		76.3		81.1		69.7		62.4		64.4	
18	18 + 30	195	C	188	C	195	C	164	C	146	C	164	C
19		7.78		8.22		8.42		8.38		8.24		7.95	
20	20 + 28	102	C	104	C	99.8	C	89.2	C	86.6	C	83.8	C
21	21 + 33	47.3	C	48.6	C	49.1	C	44.1	C	43.4	C	41.8	C
22		109		109		105		97.9		87.7		93.1	
23		0.121	EMPC	0.127	EMPC	0.104	EMPC	0.0960	EMPC	0.118	EMPC	0.127	EMPC
24		1.50		0.956		1.25		1.14		1.05		1.01	
25		9.05		8.79		9.06		8.33		7.62		7.56	
26	26 + 29	18.3	C	18.2	C	19.2	C	17.1	C	16.7	C	16.7	C
27		21.1		20.6		20.9		18.0		16.4		17.4	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		58.6		60.7		61.3		55.4		57.4		49.2	
32		7.07		7.58		6.82		5.90		6.00		5.55	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.294		0.295		0.273		0.286	EMPC	0.258	EMPC	0.307	
35		12.4		13.3		13.6		14.4		13.7		13.2	
36		3.60		3.83		4.07		3.80		3.55		3.58	
37		39.0		41.7		45.1		42.5		39.9		38.5	
38		1.12		1.30		1.13		1.25	EMPC	1.09	EMPC	1.32	
39		2.44		2.66		2.59		2.52		2.34		2.47	
40	40 + 41 + 71	81.1	C	80.6	C	87.8	C	79.8	C	77.5	C	76.3	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		184		179		163		154		149		148	
43		3.92		3.72		4.21		3.47		3.65		3.19	
44	44 + 47 + 65	665	C	647	C	610	C	592	C	558	C	556	C
45	45 + 51	21.4	C	20.6	C	22.4	C	20.2	C	19.8	C	18.3	C
46		3.53		3.43		3.78		3.55		3.72		3.18	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		69.5		67.0		72.5		63.1		60.0		59.6	
49	49 + 69	117	C	115	C	132	C	122	C	122	C	104	C
50	50 + 53	51.4	C	47.9	C	49.2	C	45.1	C	42.1	C	41.7	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		347		339		376		356		342		319	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0860		0.0600	EMPC	0.136		0.126	EMPC	0.118	EMPC	0.109	EMPC
55		2.38	J	4.37		4.43		4.02	EMPC	5.20		3.08	
56		106		115		106		108		100		108	
57		0.839		0.912	EMPC	1.01		0.737		0.853		0.964	
58		0.929		1.02		1.22		1.30		1.23		0.980	
59	59 + 62 + 75	32.1	C	31.5	C	33.7	C	30.0	C	26.9	C	28.8	C
60		57.9		60.6		65.3		63.1		61.4		56.9	
61	61 + 70 + 74 + 76	425	C	446	C	459	C	444	C	432	C	395	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		11.9		12.4		12.9		12.1		12.0		10.7	
64		83.3		83.6		92.3		88.0		87.4		77.7	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		347		361		362		347		328		319	
67		11.4		11.6		11.6		10.6		10.0		10.0	
68		2.77		2.78		3.26		2.87		2.58		2.67	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		2.47		2.62		3.00		2.69		2.39		2.65	
73		0.0481	U	0.0488	U	0.0492	U	0.0471	U	0.0495	U	0.0477	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		37.5		38.8		42.0		39.8		35.9		37.8	
78		0.404	U	0.428	U	0.309	U	0.319	U	0.325	U	0.308	U
79		25.0		29.5		26.1		29.1		27.3		26.8	
80		0.356	U	0.377	U	0.278	U	0.287	U	0.293	U	0.277	U
81		1.94		2.08	EMPC	2.46		2.01		2.38		1.89	
82		17.9		20.1		20.5		20.9		20.6		19.0	
83	83 + 99	709	C	729	C	771	C	764	C	701	C	683	C
84		60.5		61.6		66.6		68.2		65.3		60.7	
85	85 + 116 + 117	163	C	173	C	186	C	189	C	172	C	169	C
86	86 + 87 + 97 + 108 + 119 + 125	777	C	803	C	744	C	792	C	753	C	694	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	76.1	C	75.6	C	83.9	C	81.2	C	76.1	C	69.8	C
89		2.36		2.25		2.51		2.47		2.55		2.14	
90	90 + 101 + 113	1,160	C	1,190	C	1,250	C	1,240	C	1,130	C	1,110	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		132		135		146		140		134		129	
93	93 + 95 + 98 + 100 + 102	835	C	811	C	768	C	796	C	753	C	710	C
94		1.10		1.09		1.20		1.22		1.14		1.09	
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.923		0.857		0.944		0.949		0.998		0.772	
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		2.91		2.92		3.29		3.08		2.89		2.79	
104		0.123	EMPC	0.104	EMPC	0.149		0.0900	EMPC	0.0880	EMPC	0.127	
105		437		464		478		476		444		438	
106		2.73	U	2.96	U	2.41	U	3.02	U	2.56	U	1.95	U
107	107 + 124	37.1	C	41.6	C	41.3	C	41.6	C	39.2	C	41.0	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		79.8		82.3		89.3		84.9		77.4		80.0	
110	110 + 115	956	C	1,010	C	1,050	C	1,050	C	955	C	978	C
111		0.400	EMPC	0.445	EMPC	0.624	EMPC	0.645		0.590		0.609	
112		0.0793	U	0.0904	U	0.0580	U	0.173	U	0.148	U	0.174	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		26.0		27.4		29.1		28.7		27.3		26.7	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		2,730		2,870		2,540		2,760		2,670		2,420	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		8.10		8.63		8.59		8.27		7.57		8.63	
121		0.352		0.459		0.498		0.401		0.392	EMPC	0.353	
122		4.18		4.47	EMPC	3.65		4.77		4.80	EMPC	5.96	
123		51.2		59.5		43.8		52.0		54.4		48.4	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		5.06		5.31		5.30		5.10		4.72		5.01	
127		2.78	U	3.00	U	2.56	U	3.22	U	2.72	U	2.08	

Table H-9
Sediment PCB Congener Analysis Results
(Page 6 of 12)

IUPAC #	COELUTING CONGENERS1	Forebay P13 08031713TC 3/17/2008		Forebay P14 08031814TC 3/18/2008		Forebay P65 0802965TC 2/29/2008		Forebay P88 08031788TC 3/17/2008		Forebay P89 08031789TC 3/17/2008		Reference P22 08030522TC 3/5/2008	
128	128 + 166	145	C	157	C	170	C	164	C	151	C	158	C
129	129 + 138 + 160 + 163	2,550	C	2,740	C	2,610	C	2,650	C	2,430	C	2,410	C
130		78.6		84.0		85.7		80.9		73.9		75.4	
131		7.82		8.42		8.56		8.61		7.99		7.87	
132		170		181		182		191		173		175	
133		19.9		21.2		23.6		21.6		19.8		20.5	
134	134 + 143	32.0	C	36.3	C	36.3	C	35.3	C	32.4	C	34.2	C
135	135 + 151 + 154	318	C	333	C	353	C	347	C	322	C	320	C
136		53.8		55.7		58.9		60.3		55.4		52.5	
137		43.6	EMPC	44.5		42.5		47.8		41.9		38.3	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	18.5	C	19.8	C	19.8	C	20.0	C	18.1	C	17.8	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		37.3		38.5		34.9		40.6		37.4		32.3	
142		0.450	U	0.594	U	0.401	U	0.378	U	0.280	U	0.437	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		29.5		30.3		32.2		32.1		29.6		28.8	
145		0.171	EMPC	0.174		0.218	EMPC	0.170	EMPC	0.207	EMPC	0.143	
146		402		434		412		401		377		367	
147	147 + 149	1,270	C	1,330	C	1,340	C	1,340	C	1,220	C	1,230	C
148		2.13		2.20	EMPC	2.42		2.19		2.00		2.09	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		1.44		1.48		1.63		1.51		1.38		1.31	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.459		0.405		0.471	EMPC	0.477		0.474		0.449	
153	153 + 168	5,180	C	5,530	C	4,140	C	4,590	C	4,620	C	4,070	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.952		1.14		1.18	EMPC	1.03		0.919		1.01	
156	156 + 157	157	C	171	C	156	C	168	C	158	C	138	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		125		134		141		139		128		129	
159		1.91		1.98		2.52		2.47		2.40	EMPC	2.36	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.305	U	0.403	U	0.284	U	0.267	U	0.198	U	0.309	U
162		2.43		3.00		3.31		2.89		2.66	EMPC	3.10	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		36.8		41.3		42.7		42.1		41.3		41.3	
165		0.675	EMPC	0.596		0.750		0.594		0.601		0.647	
166	128 + 166		C128		C128		C128		C128		C128		C128
167		209		213		154		185		201		149	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		1.35	U	1.09	U	0.940	U	0.901	U	1.10	U	0.809	U
170		38.8		43.3		44.5		45.4		40.8		42.6	
171	171 + 173	66.7	C	72.5	C	73.6	C	71.2	C	63.9	C	70.1	C
172		5.74		6.00		6.35		6.37		6.01		6.14	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		39.1		40.7		44.0		46.2		42.2		42.4	
175		8.71		9.35		9.56		9.44		8.02		8.78	
176		27.8		29.4		30.9		30.1		26.3		27.5	
177		177		189		203		189		166		184	
178		87.2		93.0		97.5		89.8		78.9		87.8	
179		114		119		128		122		108		115	
180	180 + 193	657	C	696	C	508	C	558	C	540	C	512	C
181		2.45		2.64		2.42		2.57		2.40		2.45	
182		1.01		1.03		0.916		0.989		0.901		0.938	EMPC
183	183 + 185	225	C	242	C	227	C	229	C	209	C	214	C
184		1.47		1.52		1.69		1.44		1.44		1.43	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0481	U	0.0713	U	0.0492	U	0.0498	U	0.0495	U	0.0477	U
187		656		709		700		672		615		656	
188		1.25		1.36		1.39		1.36		1.21		1.35	
189		1.66		2.03		2.21		2.18		1.81		1.83	
190		95.5		102		90.3		94.1		85.6		90.1	
191		6.11		6.48		6.27		6.56		5.92		6.18	
192		0.0481	U	0.0807	U	0.0492	U	0.0560	U	0.0495	U	0.0477	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		8.78		9.54		10.7		10.3		9.10		8.77	
195		24.7		26.7		27.8		26.5		23.7		26.3	
196		14.4		14.9		15.8		16.0		13.9		14.8	
197	197 + 200	7.73	C	8.23	C	9.13	C	8.90	C	7.85	C	8.37	C
198	198 + 199	31.6	C	32.4	C	35.1	C	33.5	C	29.3	C	32.3	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		19.6		21.6		21.9		21.4		18.8		19.9	
202		62.8		66.4		69.5		60.8		54.4		62.4	
203		155		159		123		131		129		130	
204		0.0530	EMPC	0.0820	EMPC	0.132	EMPC	0.0790		0.0890		0.0940	
205		3.97		4.34		4.66		4.30		3.78		4.12	
206		16.7		17.2		18.3		16.1		14.6		17.0	
207		3.24		3.46		3.56		3.38		2.94		3.55	
208		7.78		8.28		8.63		7.69		6.97		8.18	
209		12.0		12.6		12.8		10.4		10.3		11.2	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		33.2	J	34.0	J	33.1	J	33.3	J	31.7	J	30.9	J
Total PCBs as Congeners (KM-based)		33.1	J	34.0	J	33.1	J	33.2	J	31.6	J	30.8	J
Total PCBs as Congeners (KM-based, capped)		33.1	J	34.0	J	33.1	J	33.2	J	31.6	J	30.8	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-9
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Reference P24 08030524TC 3/5/2008		Reference P27 08030427TC 3/4/2008		Reference P26 08030426TC 3/4/2008		Reference P28 08030428TC 3/4/2008		Reference P29 08022229TC 2/22/2008		Reference P34 08022534TC 2/25/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		1.41		1.59		1.41		1.57		3.03		2.71	
2		3.57		4.31		3.24		3.59		7.28		5.79	
3		0.686	U	0.675	U	0.584	U	0.687	U	0.920		0.853	U
4		35.8		33.3		31.8		40.3		126		142	
5		0.917		0.399	U	0.236	U	1.01		1.78		1.82	
6		9.05		10.9		9.35		9.62		35.3		39.9	
7		0.544		0.376	U	0.222	U	0.380		0.810		0.905	
8		19.1		24.6		22.0		19.3		46.9		49.6	
9		0.552		0.359	U	0.212	U	0.488		1.44		1.50	
10		0.528		0.331	U	0.195	U	0.544		1.56		1.62	
11		6,830		8,520		7,970		7,030		6,960		6,720	
12	12 + 13	46.1	C EMPC	0.401	C U	0.237	C U	33.1	C	31.7	C	32.8	C
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.129		0.369	U	0.218	U	0.152	EMPC	0.170		0.126	EMPC
15		15.0		11.0		8.81		14.8		19.8		21.8	
16		90.0		88.4		88.0		99.2		187		208	
17		68.0		78.3		73.8		74.1		165		197	
18	18 + 30	174	C	193	C	184	C	192	C	406	C	457	C
19		6.96		8.54		8.48		7.71		18.2		19.2	
20	20 + 28	81.9	C	101	C	99.2	C	86.0	C	154	C	163	C
21	21 + 33	40.1	C	45.8	C	46.5	C	40.8	C	95.9	C	103	C
22		91.3		103		105		101		170		191	
23		0.101		0.183	U	0.157	U	0.0990	EMPC	0.127	EMPC	0.136	
24		1.11		0.946		1.08		0.986		2.21		1.84	
25		7.13		8.61		8.64		7.50		15.3		17.0	
26	26 + 29	15.3	C	18.2	C	18.4	C	16.3	C	35.0	C	37.5	C
27		18.4		21.9		20.4		20.7		38.4		43.6	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		46.8		60.4		60.3		46.9		95.4		100	
32		5.06		6.10		6.19		5.41		19.6		22.3	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.252		0.349		0.246	EMPC	0.228		0.419		0.436	
35		11.1		13.9		13.2		11.9		12.4		11.6	
36		3.17		3.96		3.97		3.25		3.27		3.08	
37		35.2		31.5		30.6		36.8		56.3		58.2	
38		1.12		1.24		1.20		1.20		1.44		1.53	
39		2.26		2.92		2.79	EMPC	2.42		3.86		4.37	
40	40 + 41 + 71	74.7	C	82.5	C	84.9	C	79.1	C	138	C	150	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		156		180		168		179		235		261	
43		3.61		0.122	U	0.0799	U	3.48		6.01		6.02	
44	44 + 47 + 65	591	C	648	C	630	C	680	C	784	C	818	C
45	45 + 51	20.2	C	20.3	C	23.3	C	20.9	C	37.4	C	41.4	C
46		3.14		3.47		3.82		3.23		5.74		6.16	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		63.7		65.1		71.6		66.9		111		126	
49	49 + 69	109	C	112	C	124	C	108	C	159	C	170	C
50	50 + 53	47.7	C	48.7	C	52.6	C	52.6	C	75.0	C	81.9	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		327		339		381		337		431		442	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0890	EMPC	0.0789	U	0.0485	U	0.108		0.138		0.171	
55		4.40		0.353	U	0.192	U	3.34		4.10		5.26	
56		93.8		111		95.5		106		106		108	
57		0.820	EMPC	1.01		0.862		0.643		1.24		1.08	
58		1.19	EMPC	0.364	U	0.198	U	1.35		1.14		1.12	EMPC
59	59 + 62 + 75	30.9	C	32.7	C	35.2	C	33.0	C	46.2	C	49.7	C
60		52.2		65.4		56.5		54.2		58.9		60.2	
61	61 + 70 + 74 + 76	366	C	426	C	382	C	381	C	445	C	454	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		10.5		11.6		10.9		10.8		13.3		13.7	
64		77.0		0.0694	U	84.7		78.0		112		117	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		301		342		306		319		336		348	
67		9.85		10.8		9.84		10.5		13.2		14.0	
68		2.52		3.11		2.86		2.76		2.88		2.97	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		2.52		2.86		2.68		2.49		2.93		3.10	
73		0.0476	U	2.69		2.78		0.0499	U	0.0492	U	0.0491	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		33.8		34.3		33.2		37.3		36.4		36.1	
78		0.363	U	0.360	U	0.196	U	0.356	U	0.305	U	0.318	U
79		21.7		32.3		26.3		26.9		22.2		24.2	
80		0.327	U	0.309	U	0.169	U	0.320	U	0.274	U	0.286	U
81		2.04		0.961	EMPC	1.43	EMPC	2.11		2.07		2.23	EMPC
82		16.5		18.5		18.9		16.4		18.2		18.5	
83	83 + 99	663	C	728	C	760	C	716	C	668	C	690	C
84		56.8		60.4		63.9		59.3		63.2		64.5	
85	85 + 116 + 117	161	C	166	C	170	C	165	C	159	C	166	C
86	86 + 87 + 97 + 108 + 119 + 125	652	C	779	C	785	C	760	C	644	C	662	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	70.7	C	74.2	C	75.9	C	73.4	C	75.4	C	78.3	C
89		2.06		2.20		2.29		2.17		2.47		2.64	
90	90 + 101 + 113	1,070	C	1,200	C	1,240	C	1,160	C	1,090	C	1,130	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		122		132		127		128		133		136	
93	93 + 95 + 98 + 100 + 102	742	C	787	C	822	C	854	C	742	C	754	C
94		1.09		1.11	EMPC	1.21	EMPC	1.06		1.25		1.42	
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.786		0.735		1.05		0.843		1.04		1.05	
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		2.94		2.94		2.95		2.77		3.11		3.37	
104		0.0950		0.122	U	0.116	U	0.0990		0.0890		0.104	
105		399		370		350		434		406		424	
106		2.29	U	1.97	U	1.56	U	2.28	U	1.85	U	1.65	U
107	107 + 124	36.1	C	42.7	C	36.9	C	39.6	C	36.6	C	37.5	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		72.6		84.2		73.5		75.6		76.1		79.4	
110	110 + 115	892	C	981	C	986	C	954	C	936	C	954	C
111		0.601	EMPC	0.233	U	0.218	U	0.520		0.549		0.674	EMPC
112		0.132	U	0.225	U	0.211	U	0.0861	U	0.0997	U	0.151	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		22.8		24.2		21.3		25.8		23.6		24.6	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		2,220		2,130		1,910		2,660		2,140		2,200	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		7.84		8.78		8.71		8.51		7.58		7.98	
121		0.358		0.392	EMPC	0.217	U	0.333		0.444	EMPC	0.490	
122		4.09		6.44		4.53		4.21	EMPC	4.18	EMPC	4.37	
123		42.3		42.1		39.0		54.0		40.3		38.4	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		4.44		4.51		4.07		5.04		4.05		4.03	
127		2.44	U	1.86	U	1.48	U	2.42	U	1.96	U	1.94	EMPC

Table H-9
Sediment PCB Congener Analysis Results
(Page 8 of 12)

IUPAC #	COELUTING CONGENERS1	Reference P24 08030524TC 3/5/2008		Reference P27 08030427TC 3/4/2008		Reference P26 08030426TC 3/4/2008		Reference P28 08030428TC 3/4/2008		Reference P29 08022229TC 2/22/2008		Reference P34 08022534TC 2/25/2008	
128	128 + 166	144	C	184	C	174	C	140	C	144	C	147	C
129	129 + 138 + 160 + 163	2,270	C	2,700	C	2,650	C	2,550	C	2,150	C	2,210	C
130		72.7		79.6		72.8		71.0		71.4		73.6	
131		7.40		8.12		0.674	U	7.07		7.81		7.94	
132		161		172		169		162		160		169	
133		20.2		22.2		21.4		18.8		20.0		19.8	
134	134 + 143	32.4	C	31.1	C	33.1	C	30.5	C	32.9	C	35.1	C
135	135 + 151 + 154	314	C	325	C	352	C	305	C	316	C	328	C
136		53.9		0.0686	U	0.0753	U	51.7		54.1		56.9	
137		36.7		45.5		40.8		40.3		33.9		35.2	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	17.5	C	19.3	C	19.4	C	17.2	C	17.2	C	17.8	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		31.0		39.2		35.3		33.7		28.9		31.2	
142		0.417	U	0.668	U	0.686	U	0.533	U	0.313	U	0.326	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		27.9		29.6		30.7		27.0		27.6		29.0	
145		0.175	EMPC	0.0724	U	0.181	EMPC	0.165	EMPC	0.155	EMPC	0.205	EMPC
146		343		432		412		386		335		348	
147	147 + 149	1,210	C	1,400	C	1,370	C	1,280	C	1,140	C	1,200	C
148		2.07		2.26		2.32	EMPC	2.04		2.11		2.18	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		1.47		1.55		1.74		1.44		1.48		1.56	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.416		0.445	EMPC	0.0748	U	0.406		0.441		0.472	
153	153 + 168	3,660	C	5,010	C	4,530	C	4,570	C	3,450	C	3,500	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.948		1.01		1.05		0.861		0.956		1.02	
156	156 + 157	126	C	149	C	137	C	152	C	125	C	129	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		120		140		136		129		117		124	
159		1.95		1.94		1.92		2.16	EMPC	1.95		2.26	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.295	U	0.412	U	0.423	U	0.377	U	0.221	U	0.231	U
162		2.99		3.18		2.80		2.64	EMPC	3.00		2.87	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		35.5		39.2		38.1		38.1		36.0		38.3	
165		0.639	EMPC	0.480	U	0.493	U	0.476		0.589		0.257	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		127		167		151		170		130		127	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.933	U	1.70	U	1.53	U	0.872	U	0.900	U	0.939	U
170		36.4		41.0		37.8		38.8		36.5		39.9	
171	171 + 173	65.8	C	70.8	C	66.3	C	67.0	C	65.2	C	68.4	C
172		5.30		6.08		5.70		5.47		5.27		5.93	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		36.9		38.5		37.0		40.0		37.6		41.2	
175		8.31		9.04		8.29		8.63		8.38		8.54	
176		27.4		28.8		28.3		27.2		27.8		28.4	
177		171		179		165		174		172		174	
178		83.9		86.8		83.4		83.9		85.5		86.9	
179		112		0.0805	U	113		111		112		116	
180	180 + 193	440	C	529	C	465	C	584	C	422	C	431	C
181		2.16		2.58		2.47		2.39		2.20		2.32	
182		0.889	EMPC	0.102	U	0.933		0.991	EMPC	0.803		0.998	
183	183 + 185	195	C	216	C	202	C	220	C	191	C	198	C
184		1.45		1.54		1.58		1.32		1.55		1.45	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0476	U	0.0816	U	0.0602	U	0.0499	U	0.0580	U	0.0491	U
187		605		691		650		661		615		631	
188		1.23		1.54		1.32		1.27		1.33		1.31	
189		1.75		1.51	EMPC	1.44		1.85		1.68		1.98	
190		79.1		90.9		80.3		98.6		78.0		78.5	
191		5.39		6.14		5.82		6.20		5.33		5.86	
192		0.0476	U	0.0834	U	0.0615	U	0.0499	U	0.0653	U	0.0491	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		7.58		9.49		9.21		8.56		7.56		8.38	
195		23.9		26.3		25.3		26.2		24.0		25.1	
196		12.9		14.8		13.9		15.0		13.3		14.5	
197	197 + 200	7.77	C	7.80	C	8.48	C	8.04	C	8.07	C	8.11	C
198	198 + 199	29.9	C	29.3	C	29.2	C	32.0	C	30.6	C	33.5	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		19.4		19.8		19.7		20.2		20.1		20.6	
202		58.7		72.1		65.4		61.8		61.6		62.0	
203		113		131		126		146		114		115	
204		0.0810		0.0638	U	0.0870	EMPC	0.0820		0.100		0.0940	
205		3.75		4.21		3.85		4.03		3.97		4.00	
206		15.7		17.2		15.5		16.6		17.5		19.3	
207		3.26		3.47		3.37		3.44		3.42		4.00	
208		7.31		7.67		7.34		8.00		8.87		9.49	
209		10.2		11.5		10.0		11.4		12.4		13.1	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		28.4	J	33.0	J	31.6	J	31.4	J	29.8	J	30.4	J
Total PCBs as Congeners (KM-based)		28.3	J	32.9	J	31.6	J	31.3	J	29.7	J	30.4	J
Total PCBs as Congeners (KM-based, capped)		28.3	J	32.9	J	31.6	J	31.3	J	29.7	J	30.4	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-9
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Reference P35 08022535TC 2/25/2008		Reference P36 08022536TC 2/25/2008		Reference P37 08022637TC 2/26/2008		Reference P38 08022738TC 2/27/2008		Reference P39 08022739TC 2/27/2008		Reference P40 08022740TC 2/27/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		2.98		3.16		2.89		2.59		2.42		2.64	
2		5.12		4.70		4.12		3.88		4.08		4.58	
3		1.02		0.929		0.891		0.863		0.777		0.853	
4		95.4		95.0		93.8		80.3		77.0		79.2	
5		1.66		1.02		1.53		1.30		1.18		1.43	
6		25.8		23.0		22.7		19.1		17.9		16.9	
7		0.896		0.774		0.701		0.721		0.686		0.618	
8		43.7		43.2		40.0		35.0		34.2		32.1	
9		1.53		1.53		1.44		1.34		1.22		1.14	
10		1.50		1.52		1.33		1.19		1.13		1.12	
11		8,190		8,770		7,370		7,100		8,990		8,260	
12	12 + 13	55.4	C	83.8	C	53.0	C EMPC	70.1	C	113	C	90.6	C
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.221		0.226		0.187		0.157		0.187		0.251	U
15		19.7		23.8		20.3		30.4	EMPC	35.6	EMPC	35.1	EMPC
16		147		133		127		111		111		107	
17		142		133		122		106		104		103	
18	18 + 30	315	C	310	C	300	C	252	C	252	C	242	C
19		15.6		15.6		15.2		13.4		13.0		12.9	
20	20 + 28	147	C	161	C	163	C	138	C	133	C	128	C
21	21 + 33	79.3	C	80.7	C	79.8	C	68.9	C	66.5	C	65.7	C
22		149		165		162		138		141		135	
23		0.201	EMPC	0.148		0.123	EMPC	0.184		0.134	U	0.120	EMPC
24		1.56		2.35		1.69		1.95		1.55		1.56	
25		13.8		14.5		14.2		11.9		11.7		12.1	
26	26 + 29	31.9	C	31.1	C	30.9	C	26.8	C	25.3	C	25.2	C
27		32.1		31.0		30.6		26.4		25.5		25.9	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		103		103		95.8		83.0		83.2		83.9	
32		15.1		16.3		16.5		13.4		11.1		11.3	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.499	EMPC	0.418		0.395		0.365		0.328	EMPC	0.366	
35		16.0		13.5		12.1		11.1		13.7		14.3	
36		4.22		3.86		3.29		3.08		3.79		3.71	
37		54.6		53.0		49.8		43.9		48.0		53.7	
38		1.41		1.15	EMPC	1.06		0.913		1.08		1.10	
39		3.39		2.43		2.13		2.00		2.31		2.95	J
40	40 + 41 + 71	132	C	121	C	98.3	C	98.1	C	103	C	102	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		233		207		203		168		185		183	
43		5.77		7.01		5.94		6.44		6.63		7.40	
44	44 + 47 + 65	791	C	699	C	689	C	599	C	665	C	681	C
45	45 + 51	35.4	C	31.2	C	31.2	C	26.9	C	27.0	C	28.7	C
46		6.10		5.76		5.40		4.93		4.81		4.83	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		105		98.1		90.6		77.5		83.4		84.2	
49	49 + 69	172	C	159	C	143	C	126	C	138	C	141	C
50	50 + 53	70.4	C	62.6	C	63.1	C	53.7	C	57.4	C	60.0	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		462		416		385		353		394		420	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.176	EMPC	0.158		0.149		0.172		0.144		0.133	
55		2.65		6.30		3.85		7.14		7.25		7.12	
56		121		117		107		102		114		112	
57		1.40		1.03		0.936		0.977	EMPC	0.930	EMPC	0.874	
58		1.89		1.12	EMPC	0.924		0.987		1.01	EMPC	1.35	
59	59 + 62 + 75	45.0	C	41.8	C	39.8	C	36.0	C	39.2	C	40.0	C
60		70.5		75.3		64.2		60.8		66.6		63.8	
61	61 + 70 + 74 + 76	521	C	518	C	437	C	434	C	493	C	455	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		15.3		14.0		12.0		11.4		12.1		12.7	
64		122		114		102		91.1		101		101	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		397		420		360		345		387		366	
67		14.4		13.0		11.2		10.5		11.4		11.5	
68		3.67		3.14		2.73		2.46		2.97		2.91	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		3.47		3.11		2.73		2.41		2.86		3.11	
73		0.0491	U	0.0491	U	0.0484	U	0.0475	U	0.0499	U	0.0497	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		42.8		44.3		38.4		37.1		43.2		46.3	
78		0.274	U	0.516	U	0.348	U	0.453	U	0.593	U	0.509	U
79		26.3		19.7		17.8		17.6		22.8		23.0	
80		0.247	U	0.484	U	0.326	U	0.425	U	0.556	U	0.476	U
81		2.60		2.51		1.67	EMPC	1.99	EMPC	2.13	EMPC	2.75	
82		22.0		24.5		20.6		21.5		25.1		21.7	
83	83 + 99	806	C	833	C	720	C	717	C	849	C	738	C
84		78.3		79.1		69.4		64.2		78.4		70.9	
85	85 + 116 + 117	198	C	202	C	173	C	166	C	203	C	175	C
86	86 + 87 + 97 + 108 + 119 + 125	768	C	773	C	692	C	668	C	792	C	702	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	91.4	C	94.7	C	82.7	C	75.7	C	91.9	C	83.8	C
89		3.00		2.86		2.47		2.51		2.97		2.47	
90	90 + 101 + 113	1,320	C	1,350	C	1,170	C	1,140	C	1,350	C	1,220	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		163		160		143		133		163		146	
93	93 + 95 + 98 + 100 + 102	862	C	821	C	761	C	701	C	855	C	811	C
94		1.50		1.33		1.22		1.15	EMPC	1.43		1.34	
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		1.27		1.22		1.08		1.06		1.16		1.10	EMPC
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		3.85		3.76		3.24		2.95		3.50		3.46	
104		0.125	EMPC	0.111		0.118	EMPC	0.108	EMPC	0.0910	EMPC	0.126	
105		484		484		419		416		484		535	
106		1.41	U	2.60	U	1.74	U	2.55	U	3.10	U	2.93	U
107	107 + 124	44.2	C	49.1	C	37.6	C	38.7	C	44.5	C	41.6	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		89.0		97.9		82.4		80.1		96.6		83.5	
110	110 + 115	1,120	C	1,120	C	982	C	972	C	1,140	C	999	C
111		0.664		0.778		0.688	EMPC	0.635	EMPC	0.669		0.590	EMPC
112		0.0930	U	0.233	U	0.275	U	0.283	U	0.232	U	0.292	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		29.9		27.2		24.0		23.3		28.7		30.8	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		2,470		2,420		2,180		2,140		2,520		2,770	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		9.18		9.24		8.11		7.90		9.36		8.34	
121		0.513		0.500	EMPC	0.416		0.372		0.435	EMPC	0.446	
122		6.06		6.07		5.46		5.39		6.58		4.83	
123		46.1		43.9		41.8		36.8		46.9		53.2	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		5.35		5.19		4.64		4.74		5.33		5.64	
127		1.90		2.71	U	1.80	U	2.65	U	3.22	U	3.00	U

Table H-9
Sediment PCB Congener Analysis Results
(Page 10 of 12)

IUPAC #	COELUTING CONGENERS1	Reference P35 08022535TC 2/25/2008		Reference P36 08022536TC 2/25/2008		Reference P37 08022637TC 2/26/2008		Reference P38 08022738TC 2/27/2008		Reference P39 08022739TC 2/27/2008		Reference P40 08022740TC 2/27/2008	
128	128 + 166	178	C	159	C	166	C	144	C	168	C	165	C
129	129 + 138 + 160 + 163	2,590	C	2,240	C	2,170	C	2,050	C	2,370	C	2,440	C
130		92.3		87.2		77.9		75.8		88.1		85.2	
131		9.53		9.27		7.82		7.84		9.01		9.07	
132		207		188		177		171		202		192	
133		25.4		24.1		20.9		18.8		22.3		22.9	
134	134 + 143	40.0	C	38.8	C	35.7	C	35.8	C	41.9	C	38.9	C
135	135 + 151 + 154	405	C	367	C	332	C	321	C	376	C	362	C
136		70.3		63.5		58.6		55.2		64.4		60.0	
137		44.1		37.3		35.6		34.4		46.8		41.8	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	21.9	C	21.9	C	18.8	C	18.1	C	20.1	C	20.3	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		37.2		32.6		30.4		32.8		40.7		40.9	
142		0.452	U	1.57	U	0.460	U	0.935	U	1.18	U	0.673	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		36.4		33.0		30.1		29.4		34.6		32.8	
145		0.231	EMPC	0.158		0.165		0.171	EMPC	0.241	EMPC	0.185	
146		421		374		342		319		389		397	
147	147 + 149	1,460	C	1,290	C	1,190	C	1,190	C	1,360	C	1,360	C
148		2.70		2.53		2.10		1.98		2.54		2.35	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		1.89		1.72		1.46		1.42		1.73		1.60	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.600		0.495		0.475		0.410		0.522		0.447	
153	153 + 168	3,970	C	3,420	C	3,340	C	3,030	C	3,800	C	3,670	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		1.25		1.28		1.06		1.06		1.37		1.27	
156	156 + 157	148	C	154	C	138	C	135	C	166	C	158	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		149		139		125		124		147		142	
159		2.45		1.98		1.41	EMPC	1.54		2.03	EMPC	1.98	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.320	U	1.06	U	0.312	U	0.634	U	0.801	U	0.469	U
162		3.69		3.68		3.38		2.99		3.80		3.76	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		45.7		43.1		38.0		36.9		41.5		41.1	
165		0.791	EMPC	1.26	U	0.825		0.752	U	0.949	U	0.700	EMPC
166	128 + 166		C128		C128		C128		C128		C128		C128
167		139		139		146		123		154		146	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.901	U	1.32	U	0.698	U	0.987	U	1.01	U	1.25	U
170		45.6		52.1		43.2		43.9		54.3		46.5	
171	171 + 173	78.9	C	84.3	C	71.2	C	70.7	C	83.9	C	76.0	C
172		6.78		7.29		6.24		6.01		6.98		6.32	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		47.7		46.2		40.1		38.1		46.9		42.6	
175		10.4		10.4		8.84		8.54		10.3		9.73	
176		34.0		33.6		28.8		28.0		33.0		31.7	
177		205		220		188		181		216		198	
178		101		110		90.5		87.9		107		97.4	
179		140		136		116		113		134		129	
180	180 + 193	474	C	494	C	489	C	414	C	547	C	476	C
181		2.49		2.53		2.23		2.38		2.84		2.31	
182		0.986		1.24		1.11		0.0475	U	1.55		1.61	
183	183 + 185	231	C	228	C	202	C	197	C	243	C	220	C
184		1.83		1.87		1.54		1.59		2.05		1.93	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0598	U	0.0491	U	0.0484	U	0.0475	U	0.0499	U	0.0680	U
187		733		734		625		625		758		704	
188		1.50		1.52		1.30		1.25		1.39		1.57	
189		2.23		2.40		2.09		1.95		2.34		2.41	
190		89.2		93.8		84.8		80.3		102		88.7	
191		6.52		6.81		6.20		6.01		7.62		6.69	
192		0.0673	U	0.0491	U	0.0484	U	0.0475	U	0.0499	U	0.0766	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		9.99		10.2		9.10		8.85		10.9		10.3	
195		29.8		29.6		26.4		24.4		29.6		28.8	
196		16.3		17.4		14.9		14.6		16.6		15.8	
197	197 + 200	10.0	C	9.91	C	8.47	C	7.81	C	9.62	C	8.90	C
198	198 + 199	38.0	C	37.7	C	32.9	C	29.4	C	36.7	C	33.8	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		24.8		23.7		20.3		19.1		23.0		22.1	
202		71.0		77.3		65.6		60.3		73.2		69.3	
203		131		122		120		101		130		122	
204		0.102		0.129		0.0920	EMPC	0.0820	EMPC	0.150	EMPC	0.123	
205		4.76	EMPC	5.01		4.33		4.04		4.93		4.93	
206		20.6		21.2		18.8		17.1		20.3		19.4	
207		4.26		4.00		3.58		3.37		4.18		3.76	
208		10.1		10.3		9.20		8.06		9.69		8.93	
209		14.1		17.0		15.0		12.8		16.1		13.3	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		34.5	J	33.7	J	30.2	J	28.7	J	34.4	J	33.0	J
Total PCBs as Congeners (KM-based)		34.5	J	33.7	J	30.2	J	28.6	J	34.3	J	32.9	J
Total PCBs as Congeners (KM-based, capped)		34.5	J	33.7	J	30.2	J	28.6	J	34.3	J	32.9	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-9
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Reference P41 08022741TC 2/27/2008		Reference P42 08022742TC 2/27/2008		Reference P85 08030685TC 3/6/2008		Reference P86 08030686TC 3/6/2008		Reference P87 08030687TC 3/6/2008		Forebay - Goose Island P110 09042911OT C 4/29/2009	
Individual Congeners in pg/g (ng/kg), wet weight													
1		2.41		1.95		1.68		1.66		1.84		1.62	
2		4.36		3.40		3.81		3.71		3.68		3.65	
3		0.785		0.610	EMPC	0.811		0.697		0.686	EMPC	0.805	EMPC
4		70.6		54.1		37.1		38.4		38.9		36.8	
5		1.33		1.18		0.997		0.876		0.929		0.700	
6		15.4		11.1		8.17		8.41		8.15		7.82	
7		0.674	EMPC	0.500	EMPC	0.362		0.351	EMPC	0.363		0.480	
8		29.0		23.1		21.6		18.9		19.4		22.6	
9		0.988		0.752	EMPC	0.543		0.470		0.524		0.597	
10		0.982		0.736	EMPC	0.517		0.452		0.524		0.501	EMPC
11		8,070		7,380		7,720		6,790		7,180		4,480	
12	12 + 13	62.5	C EMPC	118	C	109	C	93.8	C	62.3	C EMPC	0.385	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.235	U	0.203	U	0.241	U	0.263	U	0.245	U	0.366	U
15		21.8		20.1	EMPC	30.8	EMPC	32.8	EMPC	17.8		36.9	
16		105		85.4		75.7		74.4		72.0		53.7	
17		98.9		75.9		67.8		65.8		59.3		49.7	
18	18 + 30	236	C	186	C	159	C	156	C	151	C	116	C
19		11.7		9.16		7.22		7.21		7.72		9.19	
20	20 + 28	122	C	101	C	94.5	C	81.9	C	80.3	C	110	C
21	21 + 33	60.1	C	49.4	C	46.5	C	41.4	C	42.1	C	56.2	C
22		131		109		104		98.5		93.2		102	
23		0.116		0.116	U	0.0965	U	0.0738	U	0.114	EMPC	0.127	EMPC
24		1.44		1.40		1.08		1.22		1.08		1.35	
25		11.2		9.22		8.62		7.68		7.61		10.1	
26	26 + 29	23.6	C	18.7	C	16.8	C	15.3	C	15.6	C	21.0	C
27		24.9		20.2		18.2		17.2		16.4		13.0	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		78.4		64.1		59.0		50.6		49.2		76.2	
32		9.77		7.08		6.09		5.53		5.44		9.78	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.340		0.235	EMPC	0.256		0.225		0.271		0.325	
35		14.8		13.3		13.1		11.3		11.6		11.0	
36		3.81		3.47		3.60		2.86		2.91		2.49	
37		52.1		45.1		43.2		39.1		37.7		47.7	
38		0.946		0.923		1.02		0.888		0.951		0.867	
39		2.85		2.34	J	2.43		2.18	J	1.99		2.04	
40	40 + 41 + 71	98.7	C	81.9	C	78.2	C	74.3	C	71.8	C	102	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		178		151		165		148		137		107	
43		7.19		6.16		5.06		4.80		5.18		6.41	
44	44 + 47 + 65	678	C	598	C	619	C	567	C	538	C	399	C
45	45 + 51	27.8	C	22.6	C	21.1	C	20.5	C	20.0	C	22.4	C
46		4.82		3.86		3.48		3.45		3.27		5.07	EMPC
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		81.7		67.9		67.4		64.8		58.4		57.7	
49	49 + 69	139	C	119	C	121	C	113	C	104	C	120	C
50	50 + 53	59.0	C	50.4	C	46.3	C	46.7	C	44.9	C	33.3	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		419		368		346		332		329		322	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.144		0.108	EMPC	0.0690		0.0660	EMPC	0.0880	EMPC	0.131	
55		6.01		8.15		5.80		7.86		7.59		8.48	
56		112		98.9		97.8		97.1		92.6		109	
57		1.01		0.723		0.802		0.776	EMPC	0.662		1.01	
58		1.63		1.37	EMPC	1.30	EMPC	1.14		1.07		1.12	
59	59 + 62 + 75	38.9	C	33.5	C	32.2	C	31.2	C	29.8	C	29.6	C
60		64.9		58.9		58.7		54.0		50.6		60.1	
61	61 + 70 + 74 + 76	458	C	411	C	406	C	373	C	346	C	394	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		13.0		11.4		11.5		10.5		9.72		10.5	
64		99.7		85.8		85.3		79.1		74.5		94.4	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		368		332		332		313		287		295	
67		11.3		9.74		9.98		9.56		8.51		9.20	
68		2.91		2.60		2.79		2.62		2.52		2.75	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		3.04		2.68		2.75		2.43		2.44		2.59	
73		0.0495	U	0.0481	U	0.0487	U	0.0452	U	0.0476	U	0.0585	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		46.8		41.4		40.8		38.4		35.7		33.7	
78		0.453	U	0.522	U	0.433	U	0.482	U	0.435	U	0.714	U
79		22.0		20.3		20.9		19.5		18.7		15.8	
80		0.423	U	0.488	U	0.405	U	0.451	U	0.407	U	0.624	U
81		2.21		2.03		1.88	EMPC	1.80		1.51	EMPC	2.17	EMPC
82		20.9		18.8		18.8		16.8		17.1		29.3	
83	83 + 99	750	C	674	C	686	C	629	C	590	C	529	C
84		73.1		64.4		62.4		56.0		52.7		64.7	
85	85 + 116 + 117	174	C	158	C	164	C	145	C	136	C	134	C
86	86 + 87 + 97 + 108 + 119 + 125	707	C	645	C	684	C	596	C	578	C	489	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	85.7	C	75.1	C	77.8	C	71.0	C	65.9	C	59.6	C
89		2.53		2.25		2.36		2.06		2.01		2.82	
90	90 + 101 + 113	1,260	C	1,130	C	1,140	C	1,030	C	965	C	845	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		152		136		129		116		113		110	
93	93 + 95 + 98 + 100 + 102	829	C	746	C	769	C	687	C	682	C	500	C
94		1.30	EMPC	1.15		1.10		1.03		1.08	EMPC	1.25	EMPC
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		1.00		0.923		0.913		0.785		0.760		0.989	
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		3.35		3.27		3.13		2.96		2.68		2.35	
104		0.128	EMPC	0.0652	U	0.0564	U	0.0780		0.0500	EMPC	0.0970	
105		556		488		478		440		414		352	
106		3.39	U	3.30	U	4.08	U	3.05	U	2.77	U	0.935	U
107	107 + 124	41.6	C	36.4	C	35.8	C	32.9	C	30.8	C	28.9	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		88.0		79.4		76.9		70.2		66.6		60.4	
110	110 + 115	999	C	910	C	877	C	809	C	779	C	786	C
111		0.464		0.639	EMPC	0.582	EMPC	0.385		0.413		0.344	EMPC
112		0.308	U	0.286	U	0.271	U	0.244	U	0.262	U	0.173	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		33.0		28.1		27.1		24.9		24.7		22.8	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		2,820		2,530		2,640		2,290		2,270		1,590	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		8.56		8.04		7.81		6.36		6.68		5.09	
121		0.362		0.415	EMPC	0.416		0.305	EMPC	0.289		0.287	EMPC
122		6.65		6.11	EMPC	4.58	U	5.52	EMPC	6.59		8.27	
123		50.6		43.8		50.0		41.2		40.9		28.0	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		5.36		5.12		5.88	U	4.46		4.51		3.07	
127		3.47	U	3.38	U	4.17	U	3.12	U	2.84	U	1.64	

Table H-9
Sediment PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS1	Reference P41 08022741TC 2/27/2008		Reference P42 08022742TC 2/27/2008		Reference P85 08030685TC 3/6/2008		Reference P86 08030686TC 3/6/2008		Reference P87 08030687TC 3/6/2008		Forebay - Goose Island P110 09042911OT C 4/29/2009	
128	128 + 166	171	C	154	C	150	C	140	C	127	C	141	C
129	129 + 138 + 160 + 163	2,470	C	2,260	C	2,270	C	2,060	C	1,990	C	1,640	C
130		87.7		78.3		77.8		71.3		64.1		61.3	
131		9.29		8.15		7.96		7.22		6.33		7.67	
132		193		171		165		156		146		162	
133		23.6		20.8		20.9		17.3		16.9		16.7	
134	134 + 143	39.1	C	34.5	C	34.1	C	31.1	C	28.6	C	31.9	C
135	135 + 151 + 154	355	C	324	C	316	C	282	C	268	C	270	C
136		59.7		53.7		53.6		50.0		44.4		48.9	
137		40.2		37.3		32.6		32.6		32.6		32.7	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	20.4	C	17.8	C	18.6	C	17.1	C	15.3	C	14.8	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		44.8		40.7		39.1		38.3		39.6		45.1	
142		1.09	U	1.14	U	1.05	U	1.10	U	0.806	U	0.913	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		33.6		29.4		30.0		26.5		23.5		26.2	
145		0.209	EMPC	0.200		0.210	EMPC	0.220	EMPC	0.173		0.256	
146		395		361		353		302		314		270	
147	147 + 149	1,350	C	1,240	C	1,230	C	1,140	C	1,080	C	930	C
148		2.32		2.10		2.04		1.61		1.64		1.49	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		1.57		1.50		1.45		1.38		1.23		1.12	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.421		0.426		0.448		0.383		0.375		0.447	
153	153 + 168	3,630	C	3,380	C	4,070	C	3,060	C	3,190	C	2,540	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		1.35		1.18	EMPC	1.09		0.946	EMPC	0.846		0.907	
156	156 + 157	161	C	145	C	137	C	123	C	125	C	96.9	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		144		129		126		117		108		103	
159		2.16		1.72		1.61	EMPC	1.53	EMPC	1.51		2.45	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.761	U	0.793	U	0.733	U	0.767	U	0.561	U	0.641	U
162		3.56		3.07		2.68		2.74		2.41	EMPC	2.92	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		43.5		39.1		37.0		34.0		32.9		37.4	
165		0.868	U	0.905	U	0.836	U	0.875	U	0.640	U	0.733	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		146		137		165		123		131		92.5	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		1.03	U	1.01	U	1.73	U	1.17	U	1.57	U	1.08	U
170		47.9		43.4		37.0		37.3		35.6		38.7	
171	171 + 173	78.5	C	70.4	C	68.0	C	64.4	C	56.0	C	52.7	C
172		6.59		6.01		5.19		5.14		4.85		6.10	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		43.3		40.1		34.6		34.5		32.5		39.6	
175		10.1		8.98		8.11		7.15		6.96		7.22	
176		32.0		29.5		27.3		25.5		23.4		22.0	
177		206		188		180		169		153		139	
178		99.9		90.4		87.0		78.2		73.3		65.3	
179		131		119		116		108		97.9		87.2	
180	180 + 193	476	C	458	C	474	C	390	C	384	C	295	C
181		2.46		2.22	EMPC	2.07		1.97		2.17		1.72	
182		1.57	EMPC	1.25		1.28	EMPC	1.20	EMPC	1.21	EMPC	0.144	U
183	183 + 185	223	C	209	C	189	C	171	C	168	C	153	C
184		1.74		1.53		1.41		1.12		1.13		1.06	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0649	U	0.0481	U	0.0533	U	0.0452	U	0.0550	U	0.122	U
187		705		660		614		555		541		477	
188		1.48		1.41		1.48		1.16		1.24		1.09	
189		2.37		2.17		2.01		1.71		1.72		1.57	
190		89.6		84.7		79.4		72.8		72.4		52.6	
191		7.04		6.73		5.99		5.43		5.45		5.48	
192		0.0730	U	0.0481	U	0.0600	U	0.0467	U	0.0618	U	0.129	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		10.6		10.4		7.99		7.57		8.29		8.03	
195		30.2		27.1		24.5		25.0		21.6		17.8	
196		16.3		14.7		12.2		12.0		11.7		11.4	
197	197 + 200	9.36	C	8.25	C	7.71	C	6.94	C	6.61	C	6.84	C
198	198 + 199	35.9	C	32.0	C	29.0	C	29.2	C	27.6	C	28.2	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		23.2		20.2		19.6		16.8		16.7		13.5	
202		72.1		64.9		67.4		58.8		58.2		44.5	
203		122		115		117		97.3		99.5		74.5	
204		0.0960	EMPC	0.0680		0.0840		0.0820	EMPC	0.109	EMPC	0.0634	U
205		5.16		4.65		4.26		4.02		3.78		2.87	
206		20.1		17.7		16.5		15.9		15.7		10.9	
207		3.99		3.45		3.14		2.96		3.02		2.25	
208		9.49		8.61		7.81		7.63		7.36		5.71	
209		14.3		12.5		11.9		10.6		10.6		7.10	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		32.9	J	29.8	J	30.8	J	27.0	J	26.9	J	21.4	J
Total PCBs as Congeners (KM-based)		32.8	J	29.7	J	30.7	J	27.0	J	26.9	J	21.5	J
Total PCBs as Congeners (KM-based, capped)		32.8	J	29.7	J	30.7	J	27.0	J	26.9	J	21.4	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-10
Crayfish PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay P01-CF 08021901CF 2/19/2008		Forebay P04-CF 08021904CF 2/19/2008		Forebay P05-CF 08021505CF 2/15/2008		Forebay P06-CF 08021406CF 2/14/2008		Forebay P07-CF 08021407CF 2/14/2008		Forebay P08-CF 08021408CF 2/14/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.135		0.196		0.260		0.243		0.255	EMPC	0.144	EMPC
2		0.0780		0.109		0.146		0.236		0.0531	U	0.121	EMPC
3		0.175	EMPC	0.230		0.192		0.215	EMPC	0.220	EMPC	0.167	
4		0.474	U	0.535	U	2.29		0.919		0.706	U	0.462	U
5		0.0959	U	0.163	U	0.101	U	0.0854	U	0.137	U	0.139	U
6		0.235		0.248		0.217		0.235		0.239		0.156	
7		0.0910		0.144	U	0.0960	EMPC	0.0757	U	0.121	U	0.123	U
8		1.05	U	0.991	U	0.895	U	0.661	U	0.900	U	0.505	U
9		0.101		0.164	EMPC	0.184	EMPC	0.0870	EMPC	0.121	U	0.123	U
10		0.0826	U	0.140	U	0.114	EMPC	0.0736	U	0.118	U	0.120	U
11		50.1		30.2		36.9		75.9		16.4		31.0	
12	12 + 13	0.0920	C U	0.156	C U	0.0967	C U	0.0819	C U	0.131	C U	0.134	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.0888	U	0.151	U	0.0934	U	0.0791	U	0.127	U	0.129	U
15		1.98	EMPC	1.35		3.55	EMPC	2.50	EMPC	2.44	EMPC	1.35	EMPC
16		0.530		0.369	EMPC	0.411	EMPC	0.655		0.373	EMPC	0.328	EMPC
17		0.510		0.537		1.11		0.806		0.504		0.314	EMPC
18	18 + 30	1.71	C U	1.04	C U	2.12	C U	2.31	C U	1.27	C U	1.06	C U
19		0.131	U	0.189	U	0.847		0.235	U	0.179	U	0.121	U
20	20 + 28	2.63	C U	2.58	C U	3.24	C	3.00	C	2.13	C U	1.44	C U
21	21 + 33	0.746	C U	0.687	C U	0.804	C U	0.774	C U	0.507	C U	0.386	C U
22		0.544		0.568		0.489		0.695		0.501	EMPC	0.369	EMPC
23		0.0636	U	0.0652	U	0.0634	U	0.0497	U	0.0696	U	0.0669	U
24		0.0489	U	0.0592	U	0.0500	U	0.0497	U	0.0785	U	0.0498	U
25		0.0860	EMPC	0.177	EMPC	0.256		0.169	EMPC	0.115	EMPC	0.0750	EMPC
26	26 + 29	0.443	C U	0.474	C U	1.22	C	0.580	C	0.336	C U	0.283	C U
27		0.107	EMPC	0.233		0.348		0.332		0.106	EMPC	0.0560	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		1.29	U	1.28	U	1.63	U	1.19	U	1.06	U	0.701	U
32		0.289		0.266		0.453		0.246		0.327		0.145	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.0649	U	0.0665	U	0.0647	U	0.0497	U	0.0710	U	0.0682	U
35		0.271	EMPC	0.143		0.280		0.351		0.0690	U	0.124	EMPC
36		0.0700	EMPC	0.0569	U	0.0554	U	0.0920		0.0607	U	0.0584	U
37		3.31		2.55		4.15		4.29		8.02		1.79	
38		0.0590	U	0.0606	U	0.0589	U	0.0497	U	0.0646	U	0.0621	U
39		0.0620	U	0.0636	U	0.151		0.0497	U	0.0678	U	0.0652	U
40	40 + 41 + 71	0.487	C EMPC	0.987	C	1.34	C	1.57	C	0.751	C	0.461	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		0.608		1.44		0.791		2.24		0.591		0.577	EMPC
43		0.0514	U	0.0696	U	0.182	EMPC	0.143	EMPC	0.109	EMPC	0.0716	U
44	44 + 47 + 65	4.56	C	12.4	C	7.96	C	24.0	C	6.23	C	4.23	C
45	45 + 51	0.141	C	0.258	C	0.431	C	0.311	C	0.250	C	0.159	C EMPC
46		0.0489	U	0.0750		0.149		0.0710		0.0755	U	0.0673	U
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		0.291	U	0.372	U	0.431	U	0.672		0.395	U	0.220	U
49	49 + 69	0.743	C	2.91	C	3.89	C	2.79	C	1.62	C	0.776	C
50	50 + 53	0.275	C EMPC	0.573	C	1.02	C	1.14	C	0.346	C	0.219	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		2.76		10.0		16.9		17.8		4.46		2.56	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0489	U	0.0641	U	0.0520		0.0497	U	0.0586	U	0.0498	U
55		0.157	U	0.259	U	0.135	U	0.112	U	0.330	U	0.194	U
56		0.544	U	1.60		1.47		2.13		1.23		0.383	U
57		0.143	U	0.235	U	0.141	EMPC	0.101	U	0.300	U	0.176	U
58		0.167	U	0.275	U	0.143	U	0.119	U	0.351	U	0.206	U
59	59 + 62 + 75	0.158	C U	0.119	C U	0.192	C U	0.396	C EMPC	0.163	C U	0.0960	C U
60		0.840	EMPC	1.78		1.59		1.89		1.00	EMPC	0.474	U
61	61 + 70 + 74 + 76	13.9	C	44.6	C	213	C	140	C	109	C	16.1	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		1.70		10.6		23.5		33.8		14.6		5.17	
64		0.494	U	1.51		2.10		1.18		0.819	U	0.473	U
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		13.2		35.7		57.7		96.7		142		18.0	
67		0.174		0.237	U	0.292	EMPC	0.459		0.303	U	0.178	U
68		0.353		1.02	EMPC	1.80		0.911		0.539		0.741	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		0.130	U	0.214	U	0.250		0.180		0.273	U	0.160	U
73		0.0489	U	0.0496	U	0.0500	U	0.0497	U	0.0500	EMPC	0.0498	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		3.76		6.54		14.8		20.7		10.5		4.33	
78		0.166	U	0.273	U	0.142	U	0.118	U	0.348	U	0.204	U
79		0.516	EMPC	2.67		0.870		2.47		0.711		0.529	
80		0.142	U	0.234	U	0.122	U	0.101	U	0.299	U	0.175	U
81		0.239	EMPC	0.446		0.823	EMPC	1.32		0.361	U	0.228	U
82		0.396	EMPC	2.73		1.96		1.45		0.831	EMPC	0.203	EMPC
83	83 + 99	18.6	C	92.8	C	69.0	C	87.2	C	276	C	37.8	C
84		0.470	U	4.02		4.02		2.46		0.894		0.519	U
85	85 + 116 + 117	6.37	C	123	C	92.4	C	347	C	94.4	C	28.7	C
86	86 + 87 + 97 + 108 + 119 + 125	7.22	C	42.5	C	10.0	C	39.8	C	14.6	C	9.11	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	0.513	C	3.48	C	2.50	C	2.15	C	1.08	C	0.504	C
89		0.0615	U	0.0834	U	0.119		0.100	U	0.155	U	0.131	U
90	90 + 101 + 113	11.6	C	57.7	C	60.8	C	169	C	70.6	C	17.2	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		1.83		6.84		5.38		6.39		2.43		1.76	
93	93 + 95 + 98 + 100 + 102	6.85	C	34.1	C	18.1	C	40.1	C	11.6	C	7.46	C
94		0.0611	U	0.0828	U	0.0893	U	0.0997	U	0.154	U	0.130	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.0489	U	0.0496	U	0.104	EMPC	0.0497	U	0.0565	U	0.0498	U
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		0.0500	U	0.189		0.166		0.110		0.171		0.106	U
104		0.0489	U	0.0496	U	0.0500	U	0.0497	U	0.0796	U	0.0498	U
105		14.6		93.1		56.6		86.3	EMPC	134		34.7	
106		0.481	U	2.58	U	2.31	U	4.51	U	5.36	U	0.856	U
107	107 + 124	0.887	C	3.94	C	2.61	C	4.95	C U	5.89	C U	2.35	C EMPC
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		16.1		301		401		1,040		227		57.5	
110	110 + 115	4.32	C	31.8	C	19.4	C	24.7	C	9.47	C	4.96	C
111		0.229	EMPC	0.605		0.661		0.842	EMPC	0.194		0.238	
112		0.0489	U	0.0645	U	0.0695	U	0.0777	U	0.120	U	0.101	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		6.61		351		355		804		121		48.4	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		206		3,520		6,340		14,000		4,400		847	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		1.10		2.95		2.51		3.74		1.17		1.20	
121		0.0489	U	0.0639	U	0.0689	U	0.0770	U	0.119	U	0.100	U
122		0.595	U	3.19	U	2.85	U	5.57	U	6.62	U	1.06	U
123		4.75		247		206		460		69.0		30.2	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		0.800		3.51	U	3.60		7.83		2.60	U	1.30	U
127		0.560	U	34.8		29.5		78.5		15.2		3.46	

Table H-10
Crayfish PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay P01-CF 08021901CF 2/19/2008		Forebay P04-CF 08021904CF 2/19/2008		Forebay P05-CF 08021505CF 2/15/2008		Forebay P06-CF 08021406CF 2/14/2008		Forebay P07-CF 08021407CF 2/14/2008		Forebay P08-CF 08021408CF 2/14/2008	
128	128 + 166	3.34	C	132	C	59.7	C	112	C	28.7	C	11.4	C
129	129 + 138 + 160 + 163	136	C	1,490	C	1,250	C	3,840	C	983	C	260	C
130		6.23		13.1		15.7		31.0		89.7		11.2	
131		0.160	U	0.521		0.226	U	0.281	U	0.632	U	0.164	U
132		1.64	EMPC	8.32		4.01		3.69		3.12		1.25	
133		3.90		11.3		32.3		39.5		26.8		5.97	
134	134 + 143	0.164	C U	2.94	C	0.988	C	0.288	C U	0.648	C U	0.907	C
135	135 + 151 + 154	7.02	C	13.2	C	11.8	C	8.25	C	34.1	C	5.84	C
136		0.679		3.94		3.02		1.79		27.8		1.05	
137		11.9		698		662		1,770		291		83.3	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	0.444	C EMPC	1.84	C	1.40	C	0.260	C U	13.9	C	0.878	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		0.154	U	0.204	U	0.218	U	0.271	U	0.609	U	0.158	U
142		0.166	U	0.220	U	0.235	U	0.292	U	0.657	U	0.171	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		0.433		1.45		0.977		0.957		0.853	EMPC	0.461	
145		0.0489	U	0.0496	U	0.0514	U	0.0497	U	0.0641	U	0.0550	U
146		52.3		483		601		1,790		323		101	
147	147 + 149	11.8	C	52.2	C	27.4	C	92.6	C	57.3	C	14.5	C
148		0.0910		0.0840		0.113		0.0850	EMPC	0.737		0.0724	U
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.0489	U	0.0820	EMPC	0.0500	U	0.0497	U	0.317		0.0508	U
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.0489	U	0.0496	U	0.0500	U	0.0497	U	0.0532	U	0.0498	U
153	153 + 168	242	C	2,060	C	2,870	C	7,730	C	2,320	C	570	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.0820		0.0496	U	0.112		0.191	EMPC	0.190	EMPC	0.0770	
156	156 + 157	38.2	C	2,280	C	1,620	C	3,910	C	655	C	211	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		2.61		10.5		5.41		7.03		9.62		3.49	
159		0.198	EMPC	0.360	EMPC	0.177	U	0.220	U	1.01	EMPC	0.189	EMPC
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.117	U	0.155	U	0.165	U	0.205	U	0.462	U	0.120	U
162		1.46		38.2		31.8		74.6		13.1		4.77	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		0.124	U	0.164	U	0.175	U	0.217	U	0.489	U	0.127	U
165		0.133	U	0.524		0.866	EMPC	0.234	U	0.528	U	0.172	EMPC
166	128 + 166		C128		C128		C128		C128		C128		C128
167		23.0		1,180		629		1,530		222		97.1	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.597	U	2.95	U	1.80	U	1.20	U	2.22	U	0.487	U
170		21.6		137		160		326		239		29.3	
171	171 + 173	2.99	C	5.30	C	4.06	C	3.04	C	18.8	C	1.86	C
172		2.97		5.77		10.3		11.5		24.4		3.38	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		2.39		8.43		6.02		3.65		16.2		2.45	EMPC
175		0.921		1.56		2.38		3.30		5.92		1.01	
176		0.531		1.08		0.443	EMPC	0.351		1.39		0.299	
177		22.1		34.2		25.9		36.4		58.5		17.4	
178		7.12		9.28		13.6		10.2		21.1		6.02	
179		1.62		2.86		2.26		1.89		2.80		1.62	
180	180 + 193	143	C	1,710	C	0.0552	C U	2,450	C	495	C	194	C
181		0.776	EMPC	28.1		14.7		30.6		8.48		2.06	
182		0.0596	U	0.0594	U	0.0632	U	0.0593	U	1.47		0.0879	U
183	183 + 185	16.8	C	28.4	C	40.5	C	42.5	C	81.3	C	13.6	C
184		0.0940		0.0496	U	0.0500	U	0.0497	U	0.147	EMPC	0.0613	U
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0489	U	0.0496	U	0.0500	U	0.0497	U	0.0574	U	0.0680	U
187		165		792		424		896		238		160	
188		0.349	EMPC	1.27		0.657		0.755		0.422		0.317	
189		2.69		68.3		41.4		82.1		16.0		5.48	
190		14.1		130		49.4		40.3		51.9		13.8	
191		1.75		13.3		13.6		33.6		11.6		3.01	
192		0.0560	U	0.0558	U	0.0593	U	0.0557	U	0.0697	U	0.0826	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		11.0		39.5		36.3		37.8		47.1		9.33	
195		7.44		19.1		14.7		12.6		15.9		4.55	
196		9.34		35.9		19.8		22.1		27.4		6.12	
197	197 + 200	1.05	C	2.37	C	1.36	C	0.678	C	3.82	C	0.475	C
198	198 + 199	19.0	C	57.7	C	38.6	C	38.9	C	62.9	C	14.1	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		3.70		8.46		5.73		4.90		8.53		2.42	
202		2.79		3.73		3.95		3.21		11.0		2.74	
203		16.1		43.4		18.8		13.0		44.2		9.43	
204		0.0489	U	0.0615	U	0.0572	U	0.0702	U	0.0597	U	0.0720	U
205		0.689	EMPC	1.50		1.37		0.796		2.02		0.545	EMPC
206		4.40		6.06		7.23		4.38		25.4		3.63	
207		1.88		4.24		2.49		1.54		4.31		1.03	
208		2.57		4.14		3.50		2.98		7.18		1.91	
209		5.07		4.84		5.75		4.94		4.45		3.19	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		1.46	J	16.8	J	16.9	J	42.7	J	12.5	J	3.14	J
Total PCBs as Congeners (KM-based)		1.44	J	16.9	J	16.9	J	42.6	J	12.4	J	3.12	J
Total PCBs as Congeners (KM-based, capped)		1.44	J	16.8	J	16.9	J	42.6	J	12.4	J	3.12	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-10
Crayfish PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay P13-CF 08021413CF 2/14/2008		Forebay P14-CF 08022014CF 2/20/2008		Forebay P15-CF 08021915CF 2/19/2008		Forebay P16-CF 08022216CF 2/22/2008		Forebay P17-CF 08021917CF 2/19/2008		Forebay P18-CF 08021918CF 2/19/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.138		0.134		0.153		0.224		0.151		0.128	EMPC
2		0.0970	EMPC	0.123	EMPC	0.139		0.175		0.108	EMPC	0.139	EMPC
3		0.193	EMPC	0.209	EMPC	0.203	EMPC	0.191	EMPC	0.239	EMPC	0.227	EMPC
4		0.224	U	0.275	U	0.520	U	0.884	U	0.483	U	0.308	U
5		0.156	U	0.114	U	0.129	U	0.745	U	0.163	U	0.161	U
6		0.138	U	0.147		0.192		0.653	U	0.145	U	0.143	U
7		0.142	U	0.104	U	0.118	U	0.655	U	0.149	U	0.147	U
8		0.339	U	0.579	U	0.782	U	0.585	U	0.530	U	0.466	U
9		0.140	U	0.102	U	0.116	U	0.654	U	0.146	U	0.144	U
10		0.144	U	0.105	U	0.120	U	0.648	U	0.151	U	0.149	U
11		12.0		16.7		32.3		56.4		37.9		41.9	
12	12 + 13	0.156	C U	0.114	C U	0.130	C U	0.714	C U	0.164	C U	0.162	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.147	U	0.108	U	0.122	U	0.677	U	0.155	U	0.152	U
15		0.931		0.832		3.11		1.03	U	1.02	EMPC	1.15	
16		0.172		0.321		0.365		0.378	EMPC	0.409	EMPC	0.278	
17		0.143	EMPC	0.340	EMPC	0.341		0.389		0.488		0.306	EMPC
18	18 + 30	0.460	C U	0.668	C U	1.16	C U	1.30	C U	1.03	C U	0.828	C U
19		0.0964	U	0.0679	U	0.0970	U	0.157	U	0.104	U	0.147	U
20	20 + 28	1.27	C U	1.87	C U	2.61	C U	2.21	C U	1.91	C U	2.07	C U
21	21 + 33	0.395	C U	0.507	C U	0.743	C U	0.480	C U	0.481	C U	0.544	C U
22		0.320		0.399	EMPC	0.564		0.362		0.786		0.492	EMPC
23		0.0692	U	0.0515	U	0.0709	U	0.0981	U	0.0862	U	0.0598	U
24		0.0682	U	0.0509	U	0.0683	U	0.0802	U	0.0615	U	0.0606	U
25		0.0618	U	0.0630		0.122		0.101	EMPC	0.0850		0.0535	U
26	26 + 29	0.239	C U	0.247	C U	0.479	C U	0.488	C U	0.310	C U	0.358	C U
27		0.0659	U	0.0520	EMPC	0.103		0.0748	U	0.0850	EMPC	0.0586	U
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		0.607	U	0.932	U	1.14	U	1.05	U	1.03	U	0.880	U
32		0.125	EMPC	0.199		0.239		0.185		0.148		0.161	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.0709	U	0.0527	U	0.0726	U	0.0998	U	0.0883	U	0.0613	U
35		0.0870	EMPC	0.0680	EMPC	0.120	EMPC	0.157		0.0961	U	0.149	
36		0.0672	U	0.0500	U	0.0689	U	0.0950	EMPC	0.0838	U	0.0582	U
37		1.52		1.01		5.58		3.88		1.51		2.84	
38		0.0692	U	0.0515	U	0.0709	U	0.0956	U	0.0862	U	0.0598	U
39		0.149		0.0567	U	0.0781	U	0.106	U	0.0950	U	0.0659	U
40	40 + 41 + 71	0.343	C	0.435	C	0.627	C	0.502	C	0.666	C	0.534	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		0.154	U	0.174	U	0.464		0.409	U	0.916		0.369	U
43		0.0837	U	0.0849	U	0.0880	U	0.118	U	0.0942	U	0.0936	U
44	44 + 47 + 65	1.13	C	1.28	C	2.98	C	3.12	C	3.28	C	2.17	C
45	45 + 51	0.129	C EMPC	0.0900	C	0.144	C	0.261	C EMPC	0.194	C	0.184	C
46		0.0852	U	0.0864	U	0.0896	U	0.110	U	0.0959	U	0.0953	U
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		0.145	U	0.184	U	0.189	U	0.275	U	0.454	U	0.204	U
49	49 + 69	0.603	C	0.659	C	0.716	C	0.892	C EMPC	1.36	C	0.738	C EMPC
50	50 + 53	0.137	C	0.107	C EMPC	0.195	C	0.194	C	0.212	C	0.124	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		1.56		1.72		2.28		2.58		2.72		2.14	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0644	U	0.0578	U	0.0616	U	0.0711	U	0.0655	U	0.0733	U
55		0.191	U	0.109	U	0.234	U	0.268	U	0.140	U	0.130	U
56		0.287	U	0.329	U	0.414	U	0.612	U	0.822	U	0.427	U
57		0.172	U	0.0979	U	0.211	U	0.254	U	0.126	U	0.117	U
58		0.187	U	0.106	U	0.229	U	0.285	U	0.137	U	0.127	U
59	59 + 62 + 75	0.0960	C U	0.0573	C U	0.151	C U	0.130	C U	0.124	C U	0.0850	C U
60		0.222	U	0.282	U	0.462	U	0.691		0.726		0.619	
61	61 + 70 + 74 + 76	6.77	C	4.72	C	7.95	C	14.0	C	8.04	C	8.64	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		1.75		1.24		1.88		2.48		0.615		1.91	
64		0.339	U	0.458	U	0.563	U	0.578	U	0.892	U	0.488	U
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		7.05		3.86		8.47		19.0		6.72		10.8	
67		0.161	U	0.0917	U	0.197	U	0.250	U	0.118	U	0.110	U
68		0.870	EMPC	0.424		0.520		0.741		0.225		0.629	EMPC
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		0.165	U	0.0936	U	0.201	U	0.234	U	0.121	U	0.112	U
73		0.0590	U	0.0598	U	0.0620	U	0.0715	U	0.0664	U	0.0659	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		2.11		1.74		4.38		5.14		1.57		4.12	
78		0.195	U	0.111	U	0.238	U	0.286	U	0.143	U	0.133	U
79		0.150	U	0.0854	U	0.227	EMPC	0.240	EMPC	0.189	EMPC	0.206	EMPC
80		0.167	U	0.0951	U	0.205	U	0.228	U	0.123	U	0.114	U
81		0.215	U	0.125	U	0.273	U	0.289	U	0.164	U	0.313	EMPC
82		0.206	EMPC	0.198		0.237	EMPC	0.259	EMPC	0.372	EMPC	0.224	
83	83 + 99	7.35	C	3.17	C	7.66	C	18.9	C	8.36	C	9.81	C
84		0.402	U	0.453	U	0.597	EMPC	0.533	U	0.657		0.419	U
85	85 + 116 + 117	4.58	C	3.10	C	4.28	C	6.45	C	2.80	C	5.87	C
86	86 + 87 + 97 + 108 + 119 + 125	1.73	C	1.62	C U	3.39	C	4.91	C	5.21	C	2.83	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	0.256	C U	0.290	C U	0.375	C	0.276	C U	0.788	C	0.343	C
89		0.0941	U	0.0759	U	0.0950	U	0.108	U	0.129	U	0.0851	U
90	90 + 101 + 113	5.43	C	4.32	C	6.03	C	9.84	C	9.08	C	7.35	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		0.626	EMPC	0.515	EMPC	0.781	EMPC	1.98		1.32		0.900	
93	93 + 95 + 98 + 100 + 102	1.88	C U	1.82	C U	3.68	C	7.50	C	4.28	C	3.13	C
94		0.0971	U	0.0783	U	0.0980	U	0.111	U	0.133	U	0.0878	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.0491	U	0.0726	U	0.0500	U	0.0711	U	0.0520	U	0.0491	U
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		0.0806	U	0.0651	U	0.0814	U	0.0926	U	0.111	U	0.0730	U
104		0.0541	U	0.0771	U	0.0501	U	0.0711	U	0.0559	U	0.0532	U
105		4.89	EMPC	3.67	EMPC	7.46		13.2		6.36		7.37	
106		0.193	U	0.168	U	0.285	U	0.778	U	0.278	U	0.339	U
107	107 + 124	0.441	C	0.176	C U	0.694	C EMPC	1.15	C	0.363	C	0.577	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		10.7		10.9		9.05		16.2		5.55		16.3	
110	110 + 115	2.42	C	2.52	C	3.48	C	3.06	C	7.22	C	3.33	C
111		0.303		0.283		0.159	EMPC	0.326		0.131		0.311	
112		0.0655	U	0.0529	U	0.0662	U	0.0826	U	0.0900	U	0.0593	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		3.70		5.69		4.07		6.61		2.14		6.10	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		95.5		112		122		248		82.4		173	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		0.985		1.20		0.778		1.41		0.561		1.32	
121		0.0702	U	0.0567	U	0.0708	U	0.0799	U	0.0964	U	0.0635	U
122		0.214	U	0.186	U	0.316	U	0.899	U	0.308	U	0.376	U
123		2.42		5.81		3.37		6.82		2.11		5.06	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		0.306		0.238		0.468		1.10	U	0.397	U	0.469	
127		0.438		0.494	EMPC	0.340	U	0.852	U	0.331	U	0.540	EMPC

Table H-10
Crayfish PCB Congener Analysis Results
(Page 4 of 12)

IUPAC #	COELUTING CONGENERS[1]	Forebay P13-CF 08021413CF 2/14/2008		Forebay P14-CF 08022014CF 2/20/2008		Forebay P15-CF 08021915CF 2/19/2008		Forebay P16-CF 08022216CF 2/22/2008		Forebay P17-CF 08021917CF 2/19/2008		Forebay P18-CF 08021918CF 2/19/2008	
128	128 + 166	1.63	C EMPC	1.61	C	1.91	C	2.59	C	2.30	C EMPC	2.21	C
129	129 + 138 + 160 + 163	60.4	C	54.7	C	69.1	C	122	C	44.8	C	99.8	C
130		3.21		0.988	EMPC	3.58		7.22		1.47		4.35	
131		0.147	U	0.226	U	0.207	U	0.185	U	0.188	U	0.141	U
132		0.857		0.819		0.999		0.945	EMPC	1.72		0.871	
133		2.55		1.60		1.64		3.42		1.11		2.83	
134	134 + 143	0.143	C U	0.220	C U	0.450	C EMPC	0.185	C U	0.457	C EMPC	0.431	C
135	135 + 151 + 154	0.0574	C U	1.54	C	3.26	C	7.56	C	3.32	C	3.24	C
136		0.433		0.329		0.548		1.05		0.678		0.561	EMPC
137		6.57		9.31		5.97		10.9		4.34		10.1	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	0.236	C	0.203	C U	0.187	C	0.435	C EMPC	0.297	C EMPC	0.310	C EMPC
140	139 + 140		C139		C139		C139		C139		C139		C139
141		0.133	U	0.205	U	1.64		0.183	U	0.171	U	0.128	U
142		0.149	U	0.230	U	0.211	U	0.185	U	0.192	U	0.143	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		0.186	EMPC	0.174	EMPC	0.244		0.516		0.314	EMPC	0.235	
145		0.0491	U	0.0499	U	0.0654	U	0.0711	U	0.0711	U	0.0502	U
146		30.9		26.1		27.0		55.0		13.9		46.9	
147	147 + 149	4.72	C	3.96	C	6.55	C	9.04	C	9.22	C	6.66	C
148		0.0590	U	0.0587	U	0.0828	U	0.113		0.0900	U	0.0635	U
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.0491	U	0.0499	U	0.0626	U	0.0711	U	0.0680	U	0.0491	U
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.0491	U	0.0499	U	0.0592	U	0.0711	U	0.0644	U	0.0491	U
153	153 + 168	122	C	201	C	151	C	322	C	76.0	C	220	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.150	EMPC	0.0499	U	0.0722	U	0.0820		0.0662	U	0.0518	U
156	156 + 157	13.8	C	26.3	C	16.9	C	28.0	C	13.6	C	25.7	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		0.898		0.612		1.44		2.55	EMPC	1.41	EMPC	1.40	
159		0.157		0.172	U	0.158	U	0.221		0.144	U	0.123	EMPC
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.102	U	0.157	U	0.144	U	0.133	U	0.131	U	0.0975	U
162		0.973		1.28		0.820	EMPC	1.18		0.454	EMPC	1.42	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		0.108	U	0.166	U	0.153	U	0.137	U	0.139	U	0.104	U
165		0.201	EMPC	0.174	U	0.159	U	0.153	U	0.145	U	0.178	
166	128 + 166		C128		C128		C128		C128		C128		C128
167		8.53		22.8		12.1		21.5		11.8		17.7	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.249	U	0.257	U	0.350	U	0.539	U	0.167	U	0.254	U
170		9.04		12.5		11.3		14.4		4.86		13.8	
171	171 + 173	0.958	C EMPC	0.571	C	1.05	C	2.27	C	1.18	C EMPC	1.25	C
172		1.75		0.953		1.85		2.17		0.456		1.45	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		1.34		1.09	EMPC	2.33		2.37		0.855	EMPC	1.36	
175		0.571		0.341	EMPC	0.595		0.925		0.203	EMPC	0.617	
176		0.134	EMPC	0.156	EMPC	0.292	EMPC	0.474		0.345		0.164	
177		8.44		4.28		10.6		19.1		3.60		11.6	
178		3.88		1.81		3.77		7.59		1.92		4.27	
179		0.599		0.549		1.06		2.48		1.17		0.911	EMPC
180	180 + 193	0.0610	C U	111	C	73.9	C	0.0766	C U	47.3	C	104	C
181		0.340		0.507		0.363		0.631		0.241		0.613	EMPC
182		0.0648	U	0.0788	U	0.167	EMPC	0.584		0.0719	U	0.0521	U
183	183 + 185	6.59	C	3.75	C	8.26	C	14.8	C	4.09	C	8.75	C
184		0.0910		0.0574	U	0.0500	U	0.0711	U	0.0524	U	0.0491	U
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0519	U	0.0631	U	0.0500	U	0.0711	U	0.0576	U	0.0491	U
187		78.2		101		81.1		138		50.9		136	
188		0.380		0.408		0.267	EMPC	0.354		0.219	EMPC	0.474	
189		1.17		1.62	EMPC	1.26		1.55	EMPC	0.926		1.58	
190		4.84		2.85		7.76		11.9		2.82		7.41	
191		0.982		1.45		1.10		1.59		0.565	EMPC	1.49	
192		0.0651	U	0.0791	U	0.0610	U	0.0798	U	0.0722	U	0.0523	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		6.30		7.03		6.69		6.53		2.14		8.18	
195		2.18		3.96		3.12		3.95		1.67		4.16	
196		4.04		6.38		4.03		4.69		2.51		5.90	
197	197 + 200	0.407	C	0.298	C	0.500	C	0.533	C EMPC	0.504	C	0.440	C
198	198 + 199	11.1	C	9.40	C	12.1	C	12.9	C	4.20	C	13.4	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		1.79		2.67		1.85		2.77		1.45		3.00	
202		1.87		0.890	EMPC	2.29		4.22		1.09		2.54	
203		5.37		2.53		10.2		13.1		2.84		6.41	
204		0.0509	U	0.0561	U	0.0543	U	0.0711	U	0.0564	U	0.0491	U
205		0.305		0.216		0.421		0.633		0.123		0.363	
206		2.23		1.62		3.50		3.32		1.26		2.22	
207		0.852		1.38		0.853	EMPC	0.931		0.763		1.27	
208		1.42		1.01		1.84		1.84		0.541		1.64	
209		2.17	EMPC	2.83		2.76		3.47		1.77		2.61	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		0.611	J	0.846	J	0.831	J	1.36	J	0.555	J	1.13	J
Total PCBs as Congeners (KM-based)		0.591	J	0.825	J	0.816	J	1.34	J	0.536	J	1.12	J
Total PCBs as Congeners (KM-based, capped)		0.591	J	0.825	J	0.816	J	1.34	J	0.536	J	1.12	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-10
Crayfish PCB Congener Analysis Results
(Page 5 of 12)

IUPAC #	COELUTING CONGENERS[1]	Forebay P19-CF 08021919CF 2/19/2008		Forebay P20-CF 08021920CF 2/19/2008		Forebay P21-CF 08021921CF 2/19/2008		Reference P38/42-CF 08021838/42 CF 2/28/2008		Reference P22-CF 08022622CF 2/26/2008		Reference P33-CF 08022233CF 2/26/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.161	EMPC	0.182	EMPC	0.142		0.176	U	0.130		0.156	U
2		0.106	EMPC	0.167	EMPC	0.123		0.186		0.138		0.186	EMPC
3		0.222	EMPC	0.261		0.130		0.156		0.186		0.188	EMPC
4		0.467	U	0.514	U	0.790	U	0.695	U	0.889	U	0.445	
5		0.168	U	0.130	U	0.655	U	0.532	U	0.735	U	0.184	U
6		0.149	EMPC	0.251		0.573	U	0.466	U	0.644	U	0.164	U
7		0.153	U	0.118	U	0.576	U	0.468	U	0.647	U	0.168	U
8		0.477	U	0.889	U	0.514	U	0.627		0.577	U	0.682	
9		0.150	U	0.116	U	0.574	U	0.467	U	0.645	U	0.162	U
10		0.155	U	0.120	U	0.569	U	0.463	U	0.639	U	0.163	U
11		49.4		48.2		49.7		64.3		15.1		35.8	
12	12 + 13	0.168	C U	0.130	C U	0.627	C U	0.510	C U	0.705	C U	0.181	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.159	U	0.123	U	0.595	U	0.484	U	0.668	U	0.170	U
15		1.73	EMPC	1.57	EMPC	4.50	EMPC	2.12		0.998	U	1.87	
16		0.397	EMPC	0.519		0.408		0.488		0.225	EMPC	0.497	
17		0.274		0.524	EMPC	0.359	EMPC	0.578		0.188		0.614	EMPC
18	18 + 30	1.55	C U	1.52	C U	1.64	C U	1.40	C U	0.447	C U	1.28	C U
19		0.0967	U	0.119	U	0.145	U	0.142		0.0870	U	0.111	
20	20 + 28	2.30	C U	3.10	C	2.53	C U	4.70	C	0.883	C U	3.94	C
21	21 + 33	0.386	C U	0.722	C U	0.482	C U	0.625	C U	0.310	C U	0.780	C U
22		0.386	EMPC	0.587		0.522		0.638		0.260		0.691	
23		0.0855	U	0.0751	U	0.0952	U	0.0709	U	0.0750	U	0.0497	U
24		0.0830	U	0.0614	U	0.0797	U	0.0527	U	0.0633	U	0.0497	U
25		0.121	EMPC	0.105		0.0834	U	0.0720		0.0657	U	0.177	
26	26 + 29	0.378	C U	0.414	C U	0.951	C	0.544	C	0.149	C U	0.460	C
27		0.109		0.0720		0.131	EMPC	0.0900		0.0590	U	0.0880	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		0.782	U	1.58	U	1.10	U	1.54	U	0.495	U	1.60	U
32		0.101	EMPC	0.270		0.168		0.240	U	0.118	EMPC	0.264	U
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.0876	U	0.0770	U	0.0968	U	0.0721	U	0.0763	U	0.0497	U
35		0.254		0.147	EMPC	0.157	EMPC	0.408	EMPC	0.0790	U	0.112	EMPC
36		0.0831	U	0.0731	U	0.0890	U	0.177		0.0701	U	0.0497	U
37		2.37		2.81		6.25		4.39		1.02		3.32	
38		0.0855	U	0.0752	U	0.0928	U	0.0691	U	0.0731	U	0.0497	U
39		0.0941	U	0.0828	U	0.103	U	0.0765	U	0.0809	U	0.0497	U
40	40 + 41 + 71	0.460	C EMPC	0.553	C	0.513	C	0.652	C U	0.277	C EMPC	0.594	C U
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		0.459	EMPC	0.564	EMPC	0.673	EMPC	0.460		0.187	U	0.510	
43		0.105	U	0.0913	U	0.126	U	0.0900		0.0919	U	0.0742	U
44	44 + 47 + 65	3.98	C	3.41	C	4.45	C	2.87	C	1.05	C	2.30	C U
45	45 + 51	0.171	C	0.213	C	0.187	C EMPC	0.276	C EMPC	0.138	C	0.223	C
46		0.107	U	0.0930	U	0.118	U	0.0827	U	0.0857	U	0.0748	U
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		0.185	U	0.343	U	0.342	U	0.362		0.0890	U	0.365	EMPC
49	49 + 69	0.499	C	0.911	C EMPC	0.991	C	1.10	C U	0.368	C	1.05	C U
50	50 + 53	0.224	C EMPC	0.239	C	0.258	C EMPC	0.235	C	0.0800	C EMPC	0.266	C EMPC
51	45 + 51		C45		C45		C45		C45		C45		C45
52		2.03		2.63		2.93		2.94		0.872		2.36	U
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0692	U	0.0558	U	0.0742	U	0.0500	U	0.0567	U	0.0497	U
55		0.192	U	0.125	U	0.191	U	0.158	U	0.133	U	0.138	U
56		0.362	U	0.502	U	0.744	U	0.542		0.269	U	0.429	EMPC
57		0.173	U	0.112	U	0.182	U	0.148	U	0.126	U	0.127	U
58		0.188	U	0.122	U	0.203	U	0.152	U	0.141	U	0.128	U
59	59 + 62 + 75	0.156	C U	0.113	C U	0.128	C U	0.162	C EMPC	0.0568	C U	0.177	C
60		0.857		1.08		1.01		1.01		0.207	U	0.957	
61	61 + 70 + 74 + 76	9.75	C	11.3	C	14.5	C	11.6	C	2.66	C U	9.41	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		1.10		1.59		1.69		1.20		0.612		1.06	
64		0.321	U	0.536	U	0.599	U	0.653		0.247	U	0.718	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		10.3		10.5		17.6		11.9		2.43		7.92	
67		0.162	U	0.130	EMPC	0.307	EMPC	0.152	EMPC	0.124	U	0.109	U
68		0.304	EMPC	0.342	EMPC	0.352		0.384		0.235	EMPC	0.446	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		0.165	U	0.108	U	0.167	U	0.145	U	0.116	U	0.121	U
73		0.0737	U	0.0644	U	0.0763	U	0.0536	U	0.0555	U	0.0526	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		2.67		3.38		3.66		2.88		1.30		2.39	
78		0.196	U	0.127	U	0.204	U	0.154	U	0.142	U	0.138	U
79		0.343		0.338		0.368		0.141		0.115	U	0.155	
80		0.168	U	0.109	U	0.163	U	0.133	U	0.113	U	0.123	U
81		0.218	U	0.211		0.250		0.175	U	0.135	U	0.176	
82		0.139	EMPC	0.204	EMPC	0.257	EMPC	0.180		0.0880	EMPC	0.144	
83	83 + 99	13.8	C	13.4	C	17.4	C	12.7	C	2.57	C	9.17	C
84		0.311	U	0.371	U	0.489	U	0.424		0.219	U	0.489	
85	85 + 116 + 117	3.21	C	3.90	C EMPC	3.71	C	3.47	C	1.31	C	2.87	C
86	86 + 87 + 97 + 108 + 119 + 125	5.66	C	4.85	C	6.75	C	3.23	C	1.12	C U	2.99	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	0.324	C U	0.426	C EMPC	0.576	C	0.353	C	0.141	C U	0.477	C EMPC
89		0.117	U	0.0794	U	0.104	U	0.0798	U	0.0730	U	0.0798	U
90	90 + 101 + 113	6.68	C	7.56	C	9.91	C	6.46	C	2.15	C	5.33	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		1.27		1.09		1.88		1.22		0.267	EMPC	0.852	
93	93 + 95 + 98 + 100 + 102	5.14	C	4.75	C	6.91	C	3.46	C	1.07	C U	2.43	C
94		0.121	U	0.0819	U	0.107	U	0.0819	U	0.0750	U	0.0814	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.0557	U	0.0637	U	0.0580	U	0.0500	U	0.0494	U	0.0497	U
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		0.100	U	0.0681	U	0.0886	U	0.0682	U	0.0624	U	0.0660	U
104		0.0626	U	0.0611	U	0.0633	U	0.0507	U	0.0494	U	0.0497	U
105		11.1		11.0		12.7		8.98		1.97		7.62	
106		0.462	U	0.500	U	0.435	U	0.281	U	0.153	U	0.197	U
107	107 + 124	0.530	C EMPC	0.609	C EMPC	0.711	C	0.526	C EMPC	0.160	C U	0.330	C EMPC
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		8.00		10.8		8.96		7.79		3.90		6.80	
110	110 + 115	3.35	C	3.46	C	5.81	C	3.13	C	1.36	C U	3.44	C
111		0.131	EMPC	0.171	EMPC	0.117		0.0990	EMPC	0.0810	EMPC	0.172	
112		0.0816	U	0.0553	U	0.0790	U	0.0590	U	0.0556	U	0.0565	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		2.61	EMPC	3.61		3.89		2.92		2.62		3.20	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		111		152		156		107		52.6		95.3	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		0.668		0.903		0.754		0.585		0.418	EMPC	0.669	
121		0.0874	U	0.0592	U	0.0764	U	0.0588	U	0.0538	U	0.0583	U
122		0.513	U	0.554	U	0.503	U	0.324	U	0.177	U	0.221	U
123		3.11	EMPC	3.62		4.00		2.45		1.93		2.71	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		0.650	U	0.748	U	0.547	U	0.377		0.207	U	0.273	U
127		0.551	U	0.596	U	0.476	U	0.307	U	0.265		0.221	U

Table H-10
Crayfish PCB Congener Analysis Results
(Page 6 of 12)

IUPAC #	COELUTING CONGENERS[1]	Forebay P19-CF 08021919CF 2/19/2008		Forebay P20-CF 08021920CF 2/19/2008		Forebay P21-CF 08021921CF 2/19/2008		Reference P38/42-CF 08021838/42 CF 2/28/2008		Reference P22-CF 08022622CF 2/26/2008		Reference P33-CF 08022233CF 2/26/2008	
128	128 + 166	1.84	C	1.60	C	2.97	C	1.58	C	0.887	C EMPC	1.84	C
129	129 + 138 + 160 + 163	73.8	C	81.0	C	79.1	C	58.0	C	23.2	C	51.0	C
130		3.33		3.48		4.29		3.30		0.614		1.80	
131		0.265	U	0.246	U	0.249	U	0.130	U	0.171	U	0.0961	U
132		1.35		1.36		1.98		1.08		0.407	U	1.18	
133		1.84		2.00		1.95		1.69		0.574	EMPC	1.33	
134	134 + 143	0.487	C EMPC	0.240	C U	0.249	C U	0.488	C	0.171	C U	0.277	C EMPC
135	135 + 151 + 154	5.73	C	4.19	C	6.96	C	4.01	C	0.856	C U	2.61	C
136		0.641		0.472	EMPC	0.867		0.454		0.246	U	0.403	EMPC
137		4.72		6.25		6.00		4.02		4.35		5.15	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	0.262	C EMPC	0.221	C U	0.419	C	0.361	C	0.156	C U	0.262	C EMPC
140	139 + 140		C139		C139		C139		C139		C139		C139
141		0.241	U	0.224	U	0.247	U	0.130	U	0.170	U	1.33	
142		0.270	U	0.251	U	0.250	U	0.131	U	0.171	U	0.100	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		0.341		0.404		0.453		0.374		0.0800		0.259	
145		0.0621	U	0.0498	U	0.0572	U	0.0500	U	0.0494	U	0.0497	U
146		24.8		32.5		27.9		22.7		9.49		23.5	
147	147 + 149	9.47	C	8.93	C	11.0	C	5.57	C	1.72	C	5.76	C
148		0.0786	U	0.0610	U	0.0712	U	0.0500	U	0.0494	U	0.0594	U
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.0594	U	0.0498	U	0.0541	U	0.0500	U	0.0494	U	0.0497	U
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.0563	U	0.0498	U	0.0513	U	0.0500	U	0.0494	U	0.0497	U
153	153 + 168	158	C	192	C	181	C	113	C	77.4	C	115	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.111	EMPC	0.0660		0.113	EMPC	0.0500	U	0.0494	U	0.0497	U
156	156 + 157	13.9	C	19.2	C	19.1	C	12.7	C	14.3	C	14.7	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		2.07		1.37	EMPC	2.35		1.52		0.216		1.16	
159		0.202	U	0.188	U	0.191	U	0.100	U	0.132	U	0.0770	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.184	U	0.171	U	0.179	U	0.0936	U	0.123	U	0.0693	U
162		0.616		0.820	EMPC	0.741	EMPC	0.470		0.389	EMPC	0.572	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		0.195	U	0.182	U	0.721	EMPC	0.514		0.127	U	0.308	
165		0.204	U	0.189	U	0.206	U	0.108	U	0.142	U	0.0850	
166	128 + 166		C128		C128		C128		C128		C128		C128
167		12.0		14.1		14.4		8.88		9.80		9.44	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.240	U	0.298	U	0.265	U	0.126	U	0.180	U	0.158	U
170		6.75		8.53		9.35		7.25		6.33		7.41	
171	171 + 173	1.50	C EMPC	1.25	C EMPC	2.69	C	1.59	C	0.341	C	1.06	C
172		0.835	EMPC	0.829		1.18		1.06		0.314	EMPC	0.750	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		1.18		1.01		2.02		1.53		0.395		0.943	
175		0.475	EMPC	0.420	EMPC	0.647	EMPC	0.372		0.141	EMPC	0.254	EMPC
176		0.376	EMPC	0.335	EMPC	0.648		0.265		0.0870	EMPC	0.227	
177		9.27		11.5		12.5		10.0		2.34		5.32	
178		4.25		3.43		5.11		4.64		0.892		2.18	
179		1.53		0.765		2.41		0.916		0.253		0.681	
180	180 + 193	54.2	C	66.8	C	73.8	C	47.6	C	63.0	C	52.3	C
181		0.272	EMPC	0.430		0.445	EMPC	0.247		0.323	EMPC	0.325	
182		0.294	EMPC	0.0717	U	0.0912	U	0.0571	U	0.0601	U	0.242	
183	183 + 185	7.93	C	8.16	C	11.9	C	7.37	C	2.89	C	5.09	C
184		0.0830	EMPC	0.0570		0.103		0.0500	U	0.0494	U	0.0497	U
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0632	U	0.0575	U	0.0744	U	0.0500	U	0.0494	U	0.0497	U
187		67.1		87.6		77.7		69.8		27.8		65.6	
188		0.197	EMPC	0.237		0.383	EMPC	0.197		0.153		0.159	
189		0.923		1.09	EMPC	1.23		0.767		1.24		0.956	
190		5.92		6.14		7.38		4.95		2.39		3.57	
191		0.684		0.867		0.814		0.651		0.688	EMPC	0.740	
192		0.0792	U	0.0720	U	0.0902	U	0.0565	U	0.0595	U	0.0509	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		3.41		4.08		4.48		3.38		2.79		3.76	
195		2.43		3.11		3.38		2.28		2.34	EMPC	2.33	
196		2.60		3.24		4.02		2.42		3.20		2.87	
197	197 + 200	0.364	C	0.396	C	0.979	C	0.421	C EMPC	0.215	C EMPC	0.360	C
198	198 + 199	6.57	C	7.03	C	7.98	C	7.41	C	2.93	C	6.53	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		1.70		2.09		2.35		1.56		0.705	EMPC	1.23	
202		2.16		1.65		2.88		2.45		0.575	EMPC	0.948	
203		6.31		5.08		8.24		5.50		1.79		2.70	
204		0.0670	U	0.0572	U	0.0510	U	0.0500	U	0.0494	U	0.0497	U
205		0.260		0.242		0.428		0.322		0.162		0.238	
206		1.75		1.56		2.51		2.25		0.714		1.62	
207		0.609		0.816		1.17		0.606		0.808		0.787	
208		0.977	EMPC	1.10		1.47		1.34		0.442		0.999	
209		2.16		2.41		3.43		2.07		2.95		2.60	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		0.792	J	0.936	J	0.990	J	0.729	J	0.391	J	0.647	J
Total PCBs as Congeners (KM-based)		0.766	J	0.911	J	0.967	J	0.71868	J	0.366	J	0.634	J
Total PCBs as Congeners (KM-based, capped)		0.766	J	0.911	J	0.967	J	0.71868	J	0.366	J	0.634	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-10
Crayfish PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Reference P72-CF 08030372CF 3/3/2008		Reference P73-CF 08030373CF 3/3/2008		Reference P74-CF 08030374CF 3/3/2008		Reference P75-CF 08030375CF 3/3/2008		Reference P76-CF 08030376CF 3/3/2008	
Individual Congeners in pg/g (ng/kg), wet weight											
1		0.152	U	0.191	U	0.140	U	0.100	U	0.152	U
2		0.665		0.474		0.0900		0.457	EMPC	0.268	
3		0.109	EMPC	0.213		0.175		0.122	EMPC	0.114	
4		0.367	U	0.434		0.313		0.648	U	0.320	
5		0.257	U	0.229	U	0.165	U	0.531	U	0.249	U
6		0.228	U	0.204	U	0.147	U	0.465	U	0.221	U
7		0.234	U	0.209	U	0.150	U	0.467	U	0.227	U
8		0.588		0.559		0.334		0.417	U	0.639	
9		0.227	U	0.202	U	0.146	U	0.466	U	0.220	U
10		0.227	U	0.202	U	0.146	U	0.462	U	0.220	U
11		57.0		40.0		30.9		50.5		40.5	
12	12 + 13	0.253	C U	0.226	C U	0.163	C U	0.509	C U	0.245	C U
13	12 + 13		C12		C12		C12		C12		C12
14		0.237	U	0.212	U	0.153	U	0.483	U	0.230	U
15		1.35		1.24		0.891		0.721	U	0.782	
16		0.284		0.264		0.298		0.523		0.249	
17		0.317		0.281	EMPC	0.220		0.407		0.376	
18	18 + 30	0.756	C U	0.804	C U	0.733	C U	1.29	C U	0.836	C U
19		0.126		0.140	EMPC	0.0717	U	0.0991	U	0.0780	EMPC
20	20 + 28	1.80	C U	1.95	C U	2.54	C	2.43	C	1.32	C U
21	21 + 33	0.464	C U	0.364	C U	0.379	C U	0.405	C U	0.380	C U
22		0.342		0.344		0.297		0.604		0.285	
23		0.0683	U	0.0717	U	0.0490	U	0.0882	U	0.0570	U
24		0.0534	U	0.0587	U	0.0490	U	0.0782	U	0.0550	U
25		0.0770		0.0603	U	0.0750	EMPC	0.0772	U	0.0750	
26	26 + 29	0.267	C	0.270	C	0.208	C	0.274	C EMPC	0.228	C
27		0.0496	U	0.0546	U	0.0650		0.0870	EMPC	0.0511	U
28	20 + 28		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18
31		0.904	U	0.779	U	0.705	U	0.874	U	0.725	U
32		0.178	U	0.229	U	0.129	U	0.137	U	0.205	U
33	21 + 33		C21		C21		C21		C21		C21
34		0.0659	U	0.0800	EMPC	0.0490	U	0.0897	U	0.0550	U
35		0.348		0.384		0.0502	U	0.251		0.281	EMPC
36		0.116	EMPC	0.143		0.0490	U	0.0913	U	0.0740	EMPC
37		2.40		3.36		2.38		2.68		1.33	
38		0.0667	U	0.0699	U	0.0490	U	0.0859	U	0.0557	U
39		0.0689	U	0.0723	U	0.0490	U	0.0951	U	0.0575	U
40	40 + 41 + 71	0.500	C U	0.412	C U	0.433	C U	0.505	C U	0.441	C U
41	40 + 41 + 71		C40		C40		C40		C40		C40
42		0.240	EMPC	0.255	EMPC	0.433	EMPC	0.794		0.267	
43		0.0705	U	0.0838	U	0.0620	U	0.139	U	0.0770	U
44	44 + 47 + 65	1.82	C U	1.63	C U	2.45	C	3.92	C	1.43	C U
45	45 + 51	0.210	C	0.211	C EMPC	0.141	C	0.243	C	0.181	C
46		0.0710	U	0.0844	U	0.0625	U	0.130	U	0.0776	U
47	44 + 47 + 65		C44		C44		C44		C44		C44
48		0.250	EMPC	0.179	EMPC	0.239		0.339		0.189	EMPC
49	49 + 69	0.722	C U	0.504	C U	0.722	C U	1.06	C U	0.535	C U
50	50 + 53	0.124	C EMPC	0.195	C EMPC	0.173	C EMPC	0.281	C EMPC	0.132	C EMPC
51	45 + 51		C45		C45		C45		C45		C45
52		1.84	U	1.36	U	1.87	U	2.23	U	1.39	U
53	50 + 53		C50		C50		C50		C50		C50
54		0.0497	U	0.0820		0.0490	U	0.0745	U	0.0497	U
55		0.160	U	0.132	U	0.107	U	0.168	U	0.115	U
56		0.423		0.365		0.416		0.543	EMPC	0.266	
57		0.147	U	0.122	U	0.0987	U	0.158	U	0.106	U
58		0.149	U	0.123	U	0.0998	U	0.162	U	0.107	U
59	59 + 62 + 75	0.102	C EMPC	0.0760	C EMPC	0.112	C EMPC	0.189	C	0.104	C
60		0.392		0.583		1.56		1.18	EMPC	0.324	
61	61 + 70 + 74 + 76	7.41	C	8.95	C	10.3	C	12.3	C	4.04	C
62	59 + 62 + 75		C59		C59		C59		C59		C59
63		1.19		1.23		1.22		1.19		0.811	
64		0.480		0.379		0.483		0.678	EMPC	0.358	
65	44 + 47 + 65		C44		C44		C44		C44		C44
66		5.78		8.94		13.6		12.9		3.81	
67		0.126	U	0.104	U	0.100	EMPC	0.142	U	0.0909	U
68		0.444		0.414		0.405		0.352		0.215	
69	49 + 69		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40
72		0.140	U	0.116	U	0.0939	U	0.154	U	0.101	U
73		0.0499	U	0.0593	U	0.0490	U	0.0841	U	0.0545	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61
77		2.62		3.29		2.99		2.57		1.87	
78		0.160	U	0.132	U	0.107	U	0.164	U	0.115	U
79		0.139	EMPC	0.208		0.208		0.246	EMPC	0.0941	U
80		0.143	U	0.118	U	0.0960	U	0.142	U	0.103	U
81		0.169	U	0.161	EMPC	0.167		0.194	U	0.127	U
82		0.247	EMPC	0.166		0.0707	U	1.31	U	0.0854	U
83	83 + 99	5.76	C	9.09	C	16.3	C	16.2	C	4.44	C
84		0.421		0.272		0.365		1.30	U	0.373	
85	85 + 116 + 117	3.64	C	3.53	C	3.68	C	3.51	C	2.47	C
86	86 + 87 + 97 + 108 + 119 + 125	2.03	C	2.21	C	3.49	C	6.42	C	1.63	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
88	88 + 91	0.319	C	0.325	C	0.403	C	1.16	C U	0.260	C
89		0.0601	U	0.106	U	0.0655	U	1.22	U	0.0791	U
90	90 + 101 + 113	4.97	C	4.86	C	6.91	C	9.00	C	3.68	C
91	88 + 91		C88		C88		C88		C88		C88
92		0.781		0.546		0.926		1.19	U	0.546	
93	93 + 95 + 98 + 100 + 102	2.31	C	2.30	C	3.17	C	5.36	C	1.86	C U
94		0.0614	U	0.108	U	0.0668	U	1.25	U	0.0807	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
96		0.0496	U	0.0512	U	0.0490	U	0.344	U	0.0497	U
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
103		0.0497	U	0.0877	U	0.0542	U	1.04	U	0.0654	U
104		0.0496	U	0.0549	U	0.0490	U	0.339	U	0.0497	U
105		3.57		6.03		12.7		10.6		3.01	
106		0.186	U	0.258	U	0.266	U	1.42	U	0.171	U
107	107 + 124	0.327	C	0.402	C	0.405	C	1.49	C U	0.265	C EMPC
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
109		8.91		8.22		7.05		9.24		5.65	
110	110 + 115	2.71	C	2.03	C	3.33	C	5.47	C	2.11	C
111		0.205	EMPC	0.123		0.137	EMPC	0.916	U	0.0660	EMPC
112		0.0496	U	0.0752	U	0.0490	U	0.904	U	0.0561	U
113	90 + 101 + 113		C90		C90		C90		C90		C90
114		3.69		3.51		3.90		3.64		2.52	
115	110 + 115		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85
118		95.8		111		138		157		63.6	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
120		0.737		0.704		0.865		0.866	U	0.517	EMPC
121		0.0496	U	0.0775	U	0.0490	U	0.901	U	0.0578	U
122		0.209	U	0.290	U	0.299	U	1.64	U	0.217	
123		2.47		3.07		3.76		3.72		1.96	
124	107 + 124		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
126		0.450		0.455		0.376	U	1.96	U	0.231	U
127		0.209	U	0.290	U	0.299	U	1.56	U	0.192	U

Table H-10
Crayfish PCB Congener Analysis Results
(Page 8 of 12)

IUPAC #	COELUTING CONGENERS[1]	Reference P72-CF 08030372CF 3/3/2008		Reference P73-CF 08030373CF 3/3/2008		Reference P74-CF 08030374CF 3/3/2008		Reference P75-CF 08030375CF 3/3/2008		Reference P76-CF 08030376CF 3/3/2008	
128	128 + 166	1.46	C	1.46	C	2.70	C	2.94	C	1.19	C
129	129 + 138 + 160 + 163	59.5	C	62.7	C	61.4	C	78.4	C	37.8	C
130		2.94		3.43		2.66		3.00		1.58	
131		0.124	U	0.137	U	0.0754	U	0.200	U	0.0938	U
132		0.919		0.957		1.08		1.88		0.655	
133		1.99		1.85		1.21		1.92		0.878	
134	134 + 143	0.229	C	0.438	C	0.312	C	0.674	C	0.183	C EMPC
135	135 + 151 + 154	2.80	C	3.23	C	2.78	C	5.26	C	1.67	C
136		0.435		0.401		0.425		0.679		0.340	
137		5.78		5.84		5.10		7.00		3.80	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129
139	139 + 140	0.158	C	0.258	C	0.339	C	0.354	C	0.105	C
140	139 + 140		C139		C139		C139		C139		C139
141		1.00		0.132	U	0.0731	U	0.199	U	0.0909	U
142		0.130	U	0.142	U	0.0786	U	0.201	U	0.0977	U
143	134 + 143		C134		C134		C134		C134		C134
144		0.141	EMPC	0.201	EMPC	0.261	EMPC	0.343		0.131	EMPC
145		0.0496	U	0.0598	U	0.0490	U	0.0591	U	0.0497	U
146		27.9		25.2		21.6		29.4		16.5	
147	147 + 149	4.56	C	4.97	C	6.85	C	10.1	C	3.54	C
148		0.0496	U	0.0764	U	0.0511	U	0.0736	U	0.0521	U
149	147 + 149		C147		C147		C147		C147		C147
150		0.0496	U	0.0574	U	0.0490	U	0.0559	U	0.0497	U
151	135 + 151 + 154		C135		C135		C135		C135		C135
152		0.0496	U	0.0547	U	0.0490	U	0.0531	U	0.0497	U
153	153 + 168	115	C	142	C	174	C	199	C	83.2	C
154	135 + 151 + 154		C135		C135		C135		C135		C135
155		0.0550	EMPC	0.0630	EMPC	0.0570	EMPC	0.0524	U	0.0497	U
156	156 + 157	17.3	C	16.9	C	18.8	C	22.2	C	12.3	C
157	156 + 157		C156		C156		C156		C156		C156
158		0.855		0.957		1.88		2.25		0.410	
159		0.0966	U	0.106	U	0.0586	U	0.154	U	0.0729	U
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129
161		0.0898	U	0.0985	U	0.0544	U	0.144	U	0.0677	U
162		0.847		0.642	EMPC	0.522	EMPC	0.679		0.540	EMPC
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129
164		0.240		0.0989	U	0.357		0.345	EMPC	0.264	EMPC
165		0.102	U	0.118	EMPC	0.0670	EMPC	0.175		0.0771	U
166	128 + 166		C128		C128		C128		C128		C128
167		10.6		10.6		13.6		16.7		8.46	
168	153 + 168		C153		C153		C153		C153		C153
169		0.0992	U	0.154	U	0.103	U	0.171	U	0.105	U
170		12.6		13.2		7.82		7.37		6.92	
171	171 + 173	0.879	C	1.33	C	1.32	C	2.00	C	0.560	C EMPC
172		1.30	EMPC	1.17		0.535		0.414		0.551	
173	171 + 173		C171		C171		C171		C171		C171
174		1.26		1.04		0.802		0.888		0.870	
175		0.391		0.493		0.316		0.476		0.206	
176		0.172	EMPC	0.233		0.324		0.526		0.108	EMPC
177		8.23		10.9		7.16		9.14		4.52	
178		3.61		4.15		2.71		5.19		1.45	
179		0.504	EMPC	0.474		0.750		1.48		0.478	EMPC
180	180 + 193	59.1	C	61.3	C	55.5	C	74.1	C	39.2	C
181		0.393	EMPC	0.343		0.324		0.381	EMPC	0.267	
182		0.0496	U	0.0718	U	0.0490	U	0.0807	U	0.0670	U
183	183 + 185	6.19	C	7.93	C	7.07	C	9.00	C	3.55	C
184		0.0496	U	0.0541	U	0.0490	U	0.0591	U	0.0505	U
185	183 + 185		C183		C183		C183		C183		C183
186		0.0496	U	0.0585	U	0.0490	U	0.0658	U	0.0546	U
187		75.8		69.5		55.2		87.9		47.6	
188		0.147		0.275		0.214		0.238		0.163	
189		1.33		1.19		1.04		1.25		0.851	
190		5.05		5.69		5.00		5.95		3.09	
191		0.750		0.639		0.727		0.997		0.304	
192		0.0496	U	0.0726	U	0.0490	U	0.0798	U	0.0678	U
193	180 + 193		C180		C180		C180		C180		C180
194		6.01		5.36		3.88		3.73		3.47	
195		3.41		3.75		3.38		2.76		1.97	
196		3.28		3.72		3.42		3.07		2.06	
197	197 + 200	0.395	C	0.359	C	0.521	C	0.565	C	0.140	C
198	198 + 199	8.55	C	8.71	C	5.10	C	6.56	C	3.64	C
199	198 + 199		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197
201		1.45		1.74		1.50		1.83		0.856	
202		1.31		1.88		1.84		2.76		0.635	
203		4.17		5.11		5.08		4.41		2.46	
204		0.0496	U	0.0494	U	0.0490	U	0.0570	U	0.0511	U
205		0.335		0.300		0.287		0.286		0.156	
206		2.11		2.18		1.63		1.31		1.06	
207		0.787		0.789	EMPC	0.772	EMPC	0.760		0.414	
208		1.24		1.18		0.799		0.735		0.506	
209		2.48		2.46		2.43		1.82		1.68	
Total PCBs as Congeners in ug/kg, wet weight											
Total PCBs as Congeners (full EMPC/full SDL)		0.706	J	0.746	J	0.783	J	0.984	J	0.469	J
Total PCBs as Congeners (KM-based)		0.692	J	0.735	J	0.774	J	0.952	J	0.456	J
Total PCBs as Congeners (KM-based, capped)		0.692	J	0.735	J	0.774	J	0.952	J	0.456	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-10
Crayfish PCB Congener Analysis Results
(Page 9 of 12)

IUPAC #	COELUTING CONGENERS[1]	Reference P78-CF 08030378CF 3/3/2008		Reference P79-CF 08030379CF 3/3/2008		Reference P82-CF 08030382CF 3/3/2008		Reference P90-CF 08031290CF 3/12/2008		Reference P91-CF 08031291CF 3/12/2008	
Individual Congeners in pg/g (ng/kg), wet weight											
1		0.228	U	0.238	U	0.127	U	0.0970	U	0.132	U
2		0.235	EMPC	0.324		0.130		0.0790		0.130	
3		0.204		0.185		0.166	EMPC	0.106		0.176	EMPC
4		0.627		0.544		0.337		0.262	U	0.297	
5		0.197	U	0.260	U	0.215	U	0.251	U	0.113	U
6		0.324		0.273		0.191	U	0.223	U	0.104	U
7		0.179	U	0.237	U	0.195	U	0.228	U	0.106	U
8		1.05		0.937		0.433		0.380		0.418	
9		0.174	U	0.229	U	0.189	U	0.221	U	0.101	U
10		0.174	U	0.230	U	0.190	U	0.222	U	0.100	U
11		42.9		71.1		60.0		25.9		51.0	
12	12 + 13	0.194	C U	0.256	C U	0.212	C U	0.247	C U	0.119	C U
13	12 + 13		C12		C12		C12		C12		C12
14		0.182	U	0.240	U	0.199	U	0.232	U	0.110	U
15		0.898		1.41		1.35		0.527		1.21	
16		0.365		0.349		0.414		0.263		0.320	
17		0.516		0.524		0.367		0.357		0.332	
18	18 + 30	1.30	C U	1.49	C U	1.29	C U	0.767	C U	1.34	C U
19		0.150		0.138	EMPC	0.0980		0.0760		0.0696	U
20	20 + 28	1.93	C U	2.59	C	4.47	C	2.65	C	2.75	C
21	21 + 33	0.622	C U	0.671	C U	0.554	C U	0.433	C U	0.336	C U
22		0.467		0.369		0.413	EMPC	0.384		0.328	
23		0.0536	U	0.0721	U	0.0675	U	0.0570	U	0.0644	U
24		0.0498	U	0.0529	U	0.0497	U	0.0500	U	0.0517	U
25		0.106	EMPC	0.101		0.0568	U	0.0710		0.0660	
26	26 + 29	0.311	C	0.500	C	0.355	C	0.195	C	0.252	C
27		0.0660		0.0760	EMPC	0.0940	EMPC	0.0498	U	0.0690	
28	20 + 28		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18
31		1.30	U	1.18	U	1.29	U	0.833	U	0.866	U
32		0.324	U	0.203	U	0.160	U	0.177	U	0.120	U
33	21 + 33		C21		C21		C21		C21		C21
34		0.0516	U	0.0695	U	0.0651	U	0.0549	U	0.0633	U
35		0.431		0.854		0.152	EMPC	0.0647	U	0.186	
36		0.0539	U	0.491		0.0679	U	0.0573	U	0.0635	U
37		1.96		3.13		4.20		1.96		4.04	
38		0.0523	U	0.0704	U	0.0658	U	0.0556	U	0.0633	U
39		0.0540	U	0.0728	U	0.0681	U	0.0575	U	0.0653	U
40	40 + 41 + 71	0.552	C U	0.536	C U	0.657	C U	0.590	C U	0.411	C U
41	40 + 41 + 71		C40		C40		C40		C40		C40
42		0.348	EMPC	0.342		0.762		0.608		0.841	
43		0.0640	U	0.0859	U	0.0871	U	0.0837	U	0.0782	U
44	44 + 47 + 65	1.68	C U	2.42	C	4.31	C	2.24	C U	4.11	C
45	45 + 51	0.287	C	0.227	C EMPC	0.262	C EMPC	0.234	C EMPC	0.157	C EMPC
46		0.0710		0.0866	U	0.0877	U	0.0843	U	0.0789	U
47	44 + 47 + 65		C44		C44		C44		C44		C44
48		0.271		0.267		0.394	EMPC	0.301		0.272	EMPC
49	49 + 69	0.658	C U	0.872	C U	1.14	C U	0.852	C U	0.738	C U
50	50 + 53	0.146	C EMPC	0.198	C	0.271	C	0.171	C	0.227	C
51	45 + 51		C45		C45		C45		C45		C45
52		1.79	U	2.31	U	3.57		1.87	U	2.06	U
53	50 + 53		C50		C50		C50		C50		C50
54		0.0498	U	0.0529	U	0.0497	U	0.0498	U	0.0492	U
55		0.0898	U	0.141	U	0.160	U	0.166	U	0.167	U
56		0.405		0.428		0.501		0.360		0.436	
57		0.0828	U	0.130	U	0.147	U	0.153	U	0.153	U
58		0.0837	U	0.132	U	0.149	U	0.155	U	0.150	U
59	59 + 62 + 75	0.0960	C	0.135	C	0.183	C	0.169	C EMPC	0.166	C
60		0.468	EMPC	0.764		2.63		1.47		1.55	
61	61 + 70 + 74 + 76	5.99	C	9.99	C	26.6	C	10.6	C	17.6	C
62	59 + 62 + 75		C59		C59		C59		C59		C59
63		0.752		1.49		2.13		0.626		1.34	
64		0.467		0.596		0.671		0.566	EMPC	0.429	
65	44 + 47 + 65		C44		C44		C44		C44		C44
66		5.43		9.40		27.9		14.4		16.5	
67		0.0710	U	0.151		0.203		0.131	U	0.201	EMPC
68		0.232		0.524		0.745		0.327	EMPC	0.403	
69	49 + 69		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40
72		0.0787	U	0.124	U	0.191		0.145	U	0.143	U
73		0.0498	U	0.0609	U	0.0617	U	0.0592	U	0.0550	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61
77		2.09		3.49		4.66		1.87		3.80	
78		0.0897	U	0.141	U	0.159	U	0.166	U	0.164	U
79		0.114	EMPC	0.264		0.434		0.176	EMPC	0.387	
80		0.0805	U	0.126	U	0.143	U	0.149	U	0.143	U
81		0.104	U	0.162	U	0.250	EMPC	0.204	U	0.188	U
82		0.187		0.153	EMPC	0.212		0.0887	U	0.170	EMPC
83	83 + 99	5.29	C	10.6	C	41.2	C	24.3	C	20.3	C
84		0.365		0.470		0.600		0.432		0.396	
85	85 + 116 + 117	2.44	C	4.25	C	7.65	C	2.14	C	4.15	C
86	86 + 87 + 97 + 108 + 119 + 125	1.61	C	3.53	C	10.2	C	3.29	C	6.91	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
88	88 + 91	0.263	C	0.404	C	0.657	C	0.527	C	0.699	C EMPC
89		0.0653	U	0.0734	U	0.0927	U	0.0822	U	0.0955	U
90	90 + 101 + 113	3.55	C	7.01	C	17.1	C	5.30	C	9.27	C
91	88 + 91		C88		C88		C88		C88		C88
92		0.515		1.39		2.40		0.693	EMPC	1.25	
93	93 + 95 + 98 + 100 + 102	1.88	C U	3.47	C	6.93	C	2.75	C	5.56	C
94		0.0666	U	0.0749	U	0.0947	U	0.0839	U	0.0971	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
96		0.0498	U	0.0496	U	0.0497	U	0.0498	U	0.0492	U
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
103		0.0540	U	0.0607	U	0.0767	U	0.0680	U	0.0797	U
104		0.0498	U	0.0496	U	0.0497	U	0.0498	U	0.0492	U
105		3.34		7.99		24.8		15.5		14.3	
106		0.188	U	0.281	U	0.514	U	0.237	U	0.0985	U
107	107 + 124	0.217	C EMPC	0.665	C	1.67	C	0.264	C	0.945	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
109		5.37		9.59		16.7		5.82		10.0	
110	110 + 115	2.04	C	3.44	C	4.76	C	3.40	C	3.36	C
111		0.0930	EMPC	0.189	EMPC	0.266	EMPC	0.0607	U	0.221	
112		0.0498	U	0.0520	U	0.0657	U	0.0582	U	0.0687	U
113	90 + 101 + 113		C90		C90		C90		C90		C90
114		2.36		3.56		8.15		4.71		4.17	
115	110 + 115		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85
118		69.7		122		323		264		163	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
120		0.438	EMPC	0.769	EMPC	1.41		1.10		0.970	
121		0.0498	U	0.0536	U	0.0677	U	0.0600	U	0.0706	U
122		0.212	U	0.316	U	0.578	U	0.267	U	0.109	U
123		2.05		3.26		7.36		6.45		3.72	
124	107 + 124		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
126		0.267	U	0.530		0.792	U	0.329	U	0.402	
127		0.212	U	0.315	U	0.587	EMPC	0.267	U	0.107	U

Table H-10
Crayfish PCB Congener Analysis Results
(Page 10 of 12)

IUPAC #	COELUTING CONGENERS[1]	Reference P78-CF 08030378CF 3/3/2008		Reference P79-CF 08030379CF 3/3/2008		Reference P82-CF 08030382CF 3/3/2008		Reference P90-CF 08031290CF 3/12/2008		Reference P91-CF 08031291CF 3/12/2008	
128	128 + 166	0.835	C	2.66	C	3.35	C	2.56	C	2.85	C
129	129 + 138 + 160 + 163	38.9	C	74.5	C	167	C	67.9	C	91.9	C
130		2.07		4.19		8.80		2.09	EMPC	4.86	
131		0.100	U	0.117	U	0.168	U	0.0908	U	0.159	EMPC
132		0.763		0.965	EMPC	2.19		1.16		2.32	
133		1.14		2.11		3.55		0.786		2.12	
134	134 + 143	0.180	C	0.443	C	0.580	C	0.355	C EMPC	0.358	C
135	135 + 151 + 154	2.13	C	4.33	C	8.38	C	2.25	C	5.58	C
136		0.435	EMPC	0.597		0.701		0.476		0.545	
137		4.02		6.47		14.5		8.45		5.64	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129
139	139 + 140	0.214	C	0.277	C EMPC	0.653	C	0.296	C EMPC	0.347	C
140	139 + 140		C139		C139		C139		C139		C139
141		0.0973	U	0.113	U	0.163	U	0.0880	U	0.923	EMPC
142		0.105	U	0.122	U	0.175	U	0.0946	U	0.158	U
143	134 + 143		C134		C134		C134		C134		C134
144		0.137		0.284	EMPC	0.994		0.205	EMPC	0.487	
145		0.0498	U	0.0496	U	0.0497	U	0.0498	U	0.0595	U
146		17.2		31.9		66.0		19.0		31.0	
147	147 + 149	3.72	C	6.69	C	15.9	C	5.17	C	12.0	C
148		0.0498	U	0.0579	U	0.0550	U	0.0514	U	0.0753	U
149	147 + 149		C147		C147		C147		C147		C147
150		0.0498	U	0.0496	U	0.0497	U	0.0498	U	0.0550	U
151	135 + 151 + 154		C135		C135		C135		C135		C135
152		0.0498	U	0.0496	U	0.0497	U	0.0498	U	0.0527	U
153	153 + 168	90.6	C	155	C	472	C	323	C	204	C
154	135 + 151 + 154		C135		C135		C135		C135		C135
155		0.0498	U	0.0560	EMPC	0.0840	EMPC	0.0498	U	0.0980	
156	156 + 157	13.0	C	18.8	C	39.1	C	29.6	C	20.4	C
157	156 + 157		C156		C156		C156		C156		C156
158		0.537		1.58		3.55		2.29		2.14	
159		0.0870		0.133	EMPC	0.172	EMPC	0.0730	EMPC	0.117	U
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129
161		0.0725	U	0.0844	U	0.122	U	0.0655	U	0.104	U
162		0.478		0.851	EMPC	1.48		0.464		0.895	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129
164		0.0728	U	0.525		1.17	EMPC	0.0658	U	0.377	EMPC
165		0.0825	U	0.141	EMPC	0.138	U	0.0746	U	0.135	EMPC
166	128 + 166		C128		C128		C128		C128		C128
167		8.16		11.2		30.1		27.3		13.4	
168	153 + 168		C153		C153		C153		C153		C153
169		0.0911	U	0.114	U	0.200	U	0.223	U	0.237	U
170		6.83		14.5		22.0		7.97		10.7	
171	171 + 173	1.02	C	1.50	C	2.96	C	2.87	C	2.60	C
172		0.632		1.42		2.50		0.262	EMPC	0.808	
173	171 + 173		C171		C171		C171		C171		C171
174		0.777		1.69		2.36		0.846	EMPC	0.949	
175		0.260		0.497		0.990		0.214	EMPC	0.578	EMPC
176		0.158		0.309		0.577		0.298	EMPC	0.665	
177		6.63		11.1		19.9		4.96		18.2	
178		2.81		4.35		8.53		2.81		5.70	
179		0.387		1.05		0.970		0.608		1.41	
180	180 + 193	41.9	C	70.1	C	145	C	98.6	C	71.1	C
181		0.303		0.457		0.789	EMPC	0.409		0.389	EMPC
182		0.0498	U	0.0563	U	0.0725	U	0.0589	U	0.0860	U
183	183 + 185	4.61	C	8.46	C	22.7	C	15.0	C	12.4	C
184		0.0498	U	0.0496	U	0.0546	U	0.0498	U	0.0621	U
185	183 + 185		C183		C183		C183		C183		C183
186		0.0498	U	0.0496	U	0.0591	U	0.0498	U	0.0726	U
187		47.4		85.3		167		53.4		83.7	
188		0.132		0.189		0.268		0.234		0.204	EMPC
189		0.907		1.31		2.20		1.29		1.14	EMPC
190		3.11		7.28		12.9		4.71		7.11	
191		0.452		0.996		2.02		1.61		0.641	EMPC
192		0.0498	U	0.0569	U	0.0734	U	0.0596	U	0.0850	U
193	180 + 193		C180		C180		C180		C180		C180
194		2.90		6.15		9.42		2.89		3.96	
195		2.28		3.87		5.80		3.45		3.94	
196		2.31		4.18		6.28		3.85		3.26	
197	197 + 200	0.296	C	0.479	C	0.713	C	0.827	C	0.638	C
198	198 + 199	4.93	C	9.03	C	14.9	C	3.19	C	7.24	C
199	198 + 199		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197
201		1.26		1.84		2.85		1.15		2.16	
202		1.27		1.98		2.91		1.42	EMPC	2.62	
203		2.70		8.67		11.8		4.45		5.92	
204		0.0498	U	0.0496	U	0.0514	U	0.0499	U	0.0661	U
205		0.207	EMPC	0.378		0.710		0.139	EMPC	0.380	
206		1.14		2.76		3.22		1.07		1.83	
207		0.599		0.766		1.27		0.849		0.892	
208		0.669		1.23		1.40		0.449	EMPC	1.06	
209		2.00		2.50		2.95		1.72		2.23	
Total PCBs as Congeners in ug/kg, wet weight											
Total PCBs as Congeners (full EMPC/full SDL)		0.510	J	0.889	J	1.96	J	1.14	J	1.03	J
Total PCBs as Congeners (KM-based)		0.496	J	0.876	J	1.94	J	1.12	J	1.02	J
Total PCBs as Congeners (KM-based, capped)		0.496	J	0.876	J	1.94	J	1.12	J	1.02	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-10
Crayfish PCB Congener Analysis Results
(Page 11 of 12)

IUPAC #	COELUTING CONGENERS[1]	Reference P92-CF 08031292CF 3/12/2008		Reference P94-CF 08031294CF 3/12/2008		Reference P98-CF 08031298CF 3/12/2008		Reference P100-CF 080312100CF 3/12/2008		Forebay - Goose Island P110 090429110CF 4/29/2009	
Individual Congeners in pg/g (ng/kg), wet weight											
1		0.341	U	0.162	U	0.145	U	0.135	U	0.201	U
2		0.327	EMPC	1.14		0.171		0.492		0.209	U
3		0.936		0.238		0.166		0.191		0.258	U
4		0.610	U	0.410		0.280		0.369		1.29	U
5		0.415	U	0.165	U	0.119	U	0.123	U	0.703	U
6		0.383	U	0.164	EMPC	0.110	U	0.152	EMPC	0.639	U
7		0.390	U	0.188		0.112	U	0.122		0.657	U
8		0.892	EMPC	0.718		0.414		0.586		0.600	U
9		0.369	U	0.147	U	0.106	U	0.109	U	0.634	U
10		0.369	U	0.147	U	0.105	U	0.109	U	0.626	U
11		37.3		61.9		28.1		58.0		19.8	
12	12 + 13	0.436	C U	0.174	C U	0.125	C U	0.129	C U	0.724	C U
13	12 + 13		C12		C12		C12		C12		C12
14		0.403	U	0.160	U	0.115	U	0.119	U	0.687	U
15		1.00	EMPC	1.00		0.932		1.24		0.914	U
16		0.326	U	0.323		0.214		0.407		0.292	
17		0.463	EMPC	0.424		0.202		0.452		0.295	EMPC
18	18 + 30	0.854	C U	1.02	C U	0.611	C U	1.31	C U	0.655	C EMPC
19		0.269	U	0.101		0.117	EMPC	0.117	EMPC	0.214	U
20	20 + 28	1.68	C U	1.79	C U	1.15	C U	2.60	C	2.23	C
21	21 + 33	0.582	C U	0.552	C U	0.311	C U	0.439	C U	0.460	C EMPC
22		0.430		0.431		0.286		0.433		0.566	EMPC
23		0.215	U	0.0928	U	0.0604	U	0.0513	U	0.115	U
24		0.201	U	0.0670	U	0.0577	U	0.0496	U	0.104	U
25		0.187	U	0.119		0.0650		0.100		0.117	
26	26 + 29	0.263	C	0.303	C EMPC	0.193	C	0.375	C	0.348	C
27		0.189	U	0.0652	U	0.0542	U	0.0660		0.0930	U
28	20 + 28		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18
31		1.03	U	1.06	U	0.553	U	0.911	U	1.09	
32		0.255	U	0.251	U	0.0990	U	0.221	U	0.132	
33	21 + 33		C21		C21		C21		C21		C21
34		0.212	U	0.0912	U	0.0594	U	0.0505	U	0.116	U
35		0.249	U	0.650		0.171		0.389		0.136	U
36		0.212	U	0.231		0.0596	U	0.112	EMPC	0.119	U
37		1.60		2.06		2.18		3.58		2.59	
38		0.212	U	0.0912	U	0.0594	U	0.0504	U	0.120	U
39		0.218	U	0.0941	U	0.0613	U	0.0520	U	0.117	U
40	40 + 41 + 71	0.672	C U	0.419	C U	0.269	C U	0.522	C U	0.647	C EMPC
41	40 + 41 + 71		C40		C40		C40		C40		C40
42		0.286	U	0.310	EMPC	0.248		0.670		0.512	
43		0.303	U	0.102	U	0.0911	U	0.0799	U	0.103	U
44	44 + 47 + 65	1.59	C U	1.72	C U	1.32	C U	2.84	C	2.15	C
45	45 + 51	0.263	C U	0.210	C EMPC	0.0792	C U	0.225	C	0.138	C EMPC
46		0.305	U	0.103	U	0.0919	U	0.0806	U	0.104	U
47	44 + 47 + 65		C44		C44		C44		C44		C44
48		0.303		0.214		0.150		0.270		0.321	
49	49 + 69	0.866	C U	0.659	C U	0.475	C U	0.759	C U	0.907	C
50	50 + 53	0.255	C U	0.185	C	0.0768	C U	0.205	C	0.150	C
51	45 + 51		C45		C45		C45		C45		C45
52		2.15	U	1.45	U	1.18	U	2.07	U	1.89	
53	50 + 53		C50		C50		C50		C50		C50
54		0.188	U	0.0742	U	0.0760		0.0496	U	0.130	U
55		0.360	U	0.145	U	0.0796	U	0.146	U	0.187	EMPC
56		0.349	U	0.300	EMPC	0.294		0.347		0.802	
57		0.328	U	0.132	U	0.0725	U	0.133	U	0.125	U
58		0.323	U	0.130	U	0.0712	U	0.131	U	0.133	U
59	59 + 62 + 75	0.205	C U	0.0690	C	0.0618	C U	0.134	C EMPC	0.207	C
60		0.425	EMPC	0.383	EMPC	0.404		0.977		0.875	
61	61 + 70 + 74 + 76	4.90	C	5.52	C	5.15	C	13.2	C	6.60	C
62	59 + 62 + 75		C59		C59		C59		C59		C59
63		0.762	EMPC	0.887	EMPC	1.02		1.42		0.777	
64		0.500	EMPC	0.420		0.355		0.462	EMPC	0.650	
65	44 + 47 + 65		C44		C44		C44		C44		C44
66		3.39		5.75		5.65		14.0		7.41	
67		0.288	U	0.116	U	0.0636	U	0.117	U	0.112	U
68		0.313	U	0.316		0.252	EMPC	0.423	EMPC	0.128	
69	49 + 69		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40
72		0.309	U	0.124	U	0.0681	U	0.125	U	0.121	U
73		0.213	U	0.0714	U	0.0641	U	0.0562	U	0.0568	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61
77		1.90		2.74		2.28		4.02		2.26	
78		0.353	U	0.142	U	0.0780	U	0.143	U	0.137	U
79		0.296	U	0.119	U	0.118	EMPC	0.379		0.146	
80		0.307	U	0.124	U	0.0678	U	0.124	U	0.120	U
81		0.401	U	0.151	U	0.146	EMPC	0.193	EMPC	0.145	U
82		0.362	U	0.135	EMPC	0.137		0.150		0.168	U
83	83 + 99	3.59	C	5.65	C	5.64	C	16.4	C	7.64	C
84		0.545	EMPC	0.375		0.208		0.491		0.560	
85	85 + 116 + 117	2.28	C	2.21	C	2.34	C	3.93	C	2.58	C
86	86 + 87 + 97 + 108 + 119 + 125	1.70	C	1.52	C	1.69	C	4.78	C	3.47	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
88	88 + 91	0.383	C EMPC	0.287	C	0.243	C	0.439	C	0.404	C
89		0.333	U	0.0861	U	0.0579	U	0.0594	U	0.161	U
90	90 + 101 + 113	3.57	C	3.67	C	3.28	C	6.61	C	5.26	C EMPC
91	88 + 91		C88		C88		C88		C88		C88
92		0.475		0.548		0.504		0.951		0.850	
93	93 + 95 + 98 + 100 + 102	2.78	C	1.78	C U	1.71	C U	3.65	C	2.43	C
94		0.339	U	0.0875	U	0.0588	U	0.0604	U	0.162	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
96		0.172	U	0.0652	U	0.0496	U	0.0496	U	0.0644	U
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93
103		0.278	U	0.0718	U	0.0495	U	0.0496	U	0.137	U
104		0.184	U	0.0744	U	0.0680	EMPC	0.0496	U	0.106	U
105		2.25		4.00		4.33		11.8		6.24	
106		0.240	U	0.152	U	0.0804	U	0.0962	U	0.190	U
107	107 + 124	0.254	C U	0.208	C EMPC	0.271	C	0.674	C	0.399	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
109		5.65		6.22		5.98		10.0		4.75	
110	110 + 115	1.88	C EMPC	1.90	C	1.93	C	2.86	C	3.99	C
111		0.248	U	0.0950	EMPC	0.132	EMPC	0.178	EMPC	0.120	U
112		0.240	U	0.0652	U	0.0495	U	0.0496	U	0.108	U
113	90 + 101 + 113		C90		C90		C90		C90		C90
114		2.86		3.02		3.47		4.58		2.35	
115	110 + 115		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85
118		69.7		112		101		149		87.0	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
120		0.500	EMPC	0.584		0.685		0.891	EMPC	0.398	
121		0.246	U	0.0652	U	0.0495	U	0.0496	U	0.118	U
122		0.264	U	0.167	U	0.0885	U	0.106	U	0.232	U
123		2.26		2.91		3.00		4.17		2.56	
124	107 + 124		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86
126		0.275	U	0.243	EMPC	0.261	EMPC	0.481		0.261	EMPC
127		0.261	U	0.165	U	0.0875	U	0.105	U	0.223	U

Table H-10
Crayfish PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Reference P92-CF 08031292CF 3/12/2008		Reference P94-CF 08031294CF 3/12/2008		Reference P98-CF 08031298CF 3/12/2008		Reference P100-CF 080312100CF 3/12/2008		Forebay - Goose Island P110 090429110CF 4/29/2009	
128	128 + 166	1.18	C	1.33	C	1.30	C	2.55	C	1.48	C EMPC
129	129 + 138 + 160 + 163	37.3	C	40.1	C	44.3	C	82.1	C	44.5	C
130		1.09		1.45		1.74		3.50		1.77	
131		0.368	U	0.174	U	0.0844	U	0.136	EMPC	0.195	U
132		0.558		0.534		0.584		1.07		1.42	
133		1.01		1.17		0.994		2.30		0.924	
134	134 + 143	0.354	C U	0.176	C EMPC	0.229	C EMPC	0.271	C EMPC	0.689	C EMPC
135	135 + 151 + 154	1.47	C	1.69	C	1.73	C	4.50	C	3.04	C
136		0.394		0.391		0.380		0.659		0.636	
137		4.20		3.77		4.24		5.77		4.13	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129
139	139 + 140	0.314	C U	0.148	C U	0.111	C EMPC	0.321	C EMPC	0.178	C U
140	139 + 140		C139		C139		C139		C139		C139
141		0.344	U	0.597		0.322	EMPC	0.711		0.177	U
142		0.368	U	0.173	U	0.0843	U	0.124	U	0.198	U
143	134 + 143		C134		C134		C134		C134		C134
144		0.256	U	0.0970		0.100	EMPC	0.366	EMPC	0.290	EMPC
145		0.204	U	0.0652	U	0.0495	U	0.0496	U	0.0866	U
146		15.6		17.7		17.4		31.8		15.0	
147	147 + 149	2.98	C	3.12	C	3.29	C	8.45	C	6.32	C
148		0.259	U	0.0779	U	0.0495	U	0.0496	U	0.111	U
149	147 + 149		C147		C147		C147		C147		C147
150		0.189	U	0.0652	U	0.0495	U	0.0496	U	0.0823	U
151	135 + 151 + 154		C135		C135		C135		C135		C135
152		0.181	U	0.0652	U	0.0495	U	0.0496	U	0.0787	U
153	153 + 168	78.8	C	140	C	129	C	171	C	136	C
154	135 + 151 + 154		C135		C135		C135		C135		C135
155		0.210	U	0.0684	U	0.160		0.0660		0.118	U
156	156 + 157	15.1	C	16.7	C	20.1	C	24.4	C	13.3	C
157	156 + 157		C156		C156		C156		C156		C156
158		0.249	U	0.652		0.625		1.69		1.04	
159		0.272	U	0.128	U	0.0624	U	0.0914	U	0.138	U
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129
161		0.242	U	0.114	U	0.0554	U	0.0812	U	0.139	U
162		0.678	EMPC	0.570	EMPC	0.757		0.882		0.400	EMPC
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129
164		0.266	U	0.126	U	0.0611	U	0.356	EMPC	0.579	EMPC
165		0.289	U	0.136	U	0.0663	U	0.0971	U	0.159	U
166	128 + 166		C128		C128		C128		C128		C128
167		9.47		12.3		16.6		18.0		11.2	
168	153 + 168		C153		C153		C153		C153		C153
169		0.301	U	0.307	U	0.0971	U	0.325	U	0.164	U
170		7.26		8.06		7.72		9.43		8.66	
171	171 + 173	0.667	C EMPC	0.817	C	0.768	C EMPC	1.89	C	0.960	C
172		0.750	EMPC	0.531		0.472		0.921	EMPC	0.676	EMPC
173	171 + 173		C171		C171		C171		C171		C171
174		0.723	EMPC	0.623		0.759		1.17		1.55	
175		0.281	U	0.317		0.219		0.435	EMPC	0.290	
176		0.210	U	0.174	EMPC	0.150		0.463	EMPC	0.285	EMPC
177		5.45		7.30		5.60		10.3		4.80	
178		2.29	EMPC	2.64		2.36		4.95		2.42	
179		0.305	EMPC	0.463		0.556		0.882		1.07	
180	180 + 193	58.7	C	57.2	C	65.5	C	79.3	C	57.3	C
181		0.336		0.344		0.278	EMPC	0.507		0.267	EMPC
182		0.274	U	0.0857	U	0.0549	U	0.123		0.142	EMPC
183	183 + 185	4.21	C	6.21	C	4.69	C	9.06	C	5.11	C
184		0.198	U	0.0652	U	0.0495	U	0.0496	U	0.0568	U
185	183 + 185		C183		C183		C183		C183		C183
186		0.231	U	0.0723	U	0.0495	U	0.0562	U	0.0589	U
187		58.6		53.6		60.0		79.9		52.2	
188		0.222	U	0.209		0.202	EMPC	0.297		0.155	EMPC
189		1.31		0.936		1.32		1.65		0.662	
190		4.30		6.46		4.93		10.7		4.73	
191		0.460		0.566	EMPC	0.483		0.857		0.841	
192		0.271	U	0.0847	U	0.0542	U	0.0658	U	0.0623	U
193	180 + 193		C180		C180		C180		C180		C180
194		3.85		2.91		3.44		4.53		3.76	
195		2.32	EMPC	3.12		2.36		3.87		2.48	
196		2.55		2.37		2.27		3.43		3.05	
197	197 + 200	0.244	C U	0.284	C	0.214	C	0.448	C	0.297	C EMPC
198	198 + 199	6.09	C	4.47	C	4.59	C	8.19	C	5.37	C EMPC
199	198 + 199		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197
201		1.27		1.51		1.28		2.01		1.20	
202		0.961	EMPC	1.21		1.18		2.22		1.63	
203		3.04		4.86		4.32		9.69		5.47	
204		0.238	U	0.0786	U	0.0495	U	0.0648	U	0.0637	U
205		0.288	U	0.319	EMPC	0.242	EMPC	0.450		0.315	EMPC
206		1.28		1.63		1.35		2.54		1.53	EMPC
207		0.757	EMPC	0.666		0.499		0.813		0.425	
208		0.701	U	0.739	EMPC	0.641		1.19		0.758	
209		2.02		2.37		1.71	EMPC	2.67		1.80	
Total PCBs as Congeners in ug/kg, wet weight											
Total PCBs as Congeners (full EMPC/full SDL)		0.528	J	0.665	J	0.620	J	0.958	J	0.614	J
Total PCBs as Congeners (KM-based)		0.498	J	0.650	J	0.609	J	0.946	J	0.587	J
Total PCBs as Congeners (KM-based, capped)		0.498	J	0.650	J	0.609	J	0.946	J	0.587	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-11
Sculpin PCB Congener Analysis Results
(Page 1 of 12)

IUPAC #	COELUTING CONGENERS[1]	Forebay SF-01 F-1 9/17/2008		Forebay SF-02 F-2 9/17/2008		Forebay SF-03 F-3 9/17/2008		Forebay SF-04 F-4 9/17/2008		Forebay SF-05 F-5 10/22/2008		Forebay SF-06 F-6 9/19/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.121	EMPC	0.161		66.3	U	0.205		0.246		0.382	
2		0.482		0.409		72.3	U	0.561		0.444		1.22	
3		0.220	EMPC	0.444	EMPC	77.0	U	0.496	EMPC	0.247		0.665	EMPC
4		1.03	EMPC	1.22	EMPC	336	U	1.01		1.78		2.94	
5		0.151	U	0.148	U	251	U	0.184	U	0.132	U	0.216	U
6		0.681		0.684		226	U	1.21	EMPC	0.961		1.75	
7		0.267	EMPC	0.154	EMPC	229	U	0.191	EMPC	0.233		0.469	EMPC
8		3.47		3.40		209	U	2.78		4.36		8.63	
9		0.233	EMPC	0.268		225	U	0.744		0.304		0.652	EMPC
10		0.139	U	0.136	U	230	U	0.169	U	0.121	U	0.206	U
11		211		191		233	U	90.5		124		450	
12	12 + 13	0.146	C U	0.143	C U	233	C U	1.07	C EMPC	0.127	C U	0.221	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.139	U	0.135	U	228	U	0.168	U	0.120	U	0.208	U
15		1.16	EMPC	1.19		278	U	0.620		0.854		2.93	EMPC
16		3.94		3.64		130	U	2.63		5.38		11.5	
17		6.55		5.96		189		14.6		14.8		36.3	
18	18 + 30	15.6	C	15.1	C	882	C EMPC	65.2	C	25.9	C	60.1	C
19		0.437		0.499	EMPC	111	U	0.492		1.01		1.76	
20	20 + 28	68.0	C	60.6	C	2,330	C	283	C	122	C	280	C
21	21 + 33	9.90	C	7.60	C	380	C	20.7	C	14.1	C	40.1	C
22		9.74		8.99		86.1	U	14.6		13.3		48.1	
23		0.0740	EMPC	0.0497	U	80.7	U	0.418		0.196	U	0.330	U
24		0.314	EMPC	0.248		79.9	U	0.290		0.376		0.655	
25		1.53		1.32		69.3	U	5.51		2.62		10.5	
26	26 + 29	7.77	C	6.49	C	211	C EMPC	31.4	C	12.4	C	38.8	C
27		1.00		1.02		79.0	U	2.75		2.39		7.03	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		29.8		23.0		850		243		37.4		170	
32		1.61		1.23		75.3	U	4.21		4.08		13.3	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.234	EMPC	0.210		79.8	U	0.804		0.397		1.02	
35		0.0680	EMPC	0.141		77.7	U	0.325	U	0.198	U	0.343	U
36		0.0517	U	0.0860		74.0	U	0.882	EMPC	0.169	U	0.302	U
37		2.53		3.54		96.5		28.7		9.62		13.9	
38		0.119	EMPC	0.108		78.9	U	1.99		0.559		0.972	
39		0.315	EMPC	0.184		76.6	U	8.92		1.95		3.59	
40	40 + 41 + 71	10.6	C	7.53	C	3,320	C	322	C	162	C	227	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		7.19		6.24		3,610		505		82.5		115	
43		2.21	EMPC	1.62		2,880		54.4		17.3		23.3	
44	44 + 47 + 65	71.3	C	67.5	C	52,400	C	5,620	C	1,120	C	1,300	C
45	45 + 51	2.10	C	1.52	C	313	C EMPC	5.89	C	11.8	C	20.4	C
46		0.359		0.385	EMPC	94.7	U	0.515		2.14		2.66	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		8.08		6.12		2,690		0.250	U	52.9		93.1	
49	49 + 69	56.3	C	53.1	C	35,700	C	8,730	C	909	C	1,090	C
50	50 + 53	1.05	C	0.876	C EMPC	1,090	C	18.7	C	18.5	C	15.5	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		142		109		165,000		29,800		3,220		3,640	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0620	EMPC	0.0497	U	59.6	U	0.261		0.214	EMPC	1.38	
55		0.198	U	0.240	U	258	U	4.22	U	1.64	U	1.70	U
56		7.85		6.63		5,290		1,340		18.1		217	
57		0.622		0.608	EMPC	260	U	7.88		1.68		2.88	EMPC
58		0.405	EMPC	0.461		262	U	3.85	U	4.39	EMPC	4.32	EMPC
59	59 + 62 + 75	6.14	C	5.80	C	1,070	C	97.1	C	25.5	C	44.7	C
60		41.4		63.5		8,840		1,950		370		357	
61	61 + 70 + 74 + 76	246	C	360	C	131,000	C	41,600	C	3,970	C	5,880	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		14.2		31.5		2,480		501		199		82.5	
64		29.7		26.5		9,120		1,710		417		559	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		201		396		73,300		16,800		3,060		1,970	
67		1.28		1.39		225	U	10.4		2.07		8.86	
68		2.62		3.22		236	U	12.1		7.68		10.6	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		3.46		3.83		237	U	19.2		9.09		15.4	
73		0.0505	U	0.0497	U	58.2	U	0.192	U	0.178	U	0.124	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		10.8		19.9		443		111		40.0		48.7	
78		0.494		0.241	U	251	U	47.1		26.2		6.78	EMPC
79		1.63		1.90		3,020		471		71.4		59.4	
80		0.456		0.486	EMPC	233	U	9.75	EMPC	3.83		1.57	
81		0.449	EMPC	0.807	EMPC	295	U	9.50	U	5.23	U	3.88	U
82		2.29	EMPC	1.23	EMPC	22,200		2,230		361		227	
83	83 + 99	708	C	1,480	C	315,000	C	69,000	C	33,400	C	8,610	C
84		6.44		4.50		29,200		1,240		588		420	
85	85 + 116 + 117	198	C	365	C	73,900	C	18,800	C	8,850	C	2,650	C
86	86 + 87 + 97 + 108 + 119 + 125	117	C	129	C	196,000	C	33,500	C	7,090	C	5,600	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	9.41	C	6.34	C	23,900	C	2,730	C	566	C	535	C
89		0.294		0.229	EMPC	366	U	6.26		31.7		25.4	
90	90 + 101 + 113	302	C	311	C	303,000	C	58,700	C	12,600	C	10,000	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		82.8		85.9		49,100		9,270		1,840		1,760	
93	93 + 95 + 98 + 100 + 102	96.2	C	75.1	C	113,000	C	12,100	C	2,720	C	2,860	C
94		0.0830		0.0908	U	363	U	1.96		4.01		1.48	
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.507	EMPC	0.300		234	EMPC	8.61		19.0		19.6	
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		1.35		0.795	EMPC	954		120		24.4		26.7	
104		0.0505	U	0.0615	U	52.9	U	0.490	U	0.400	U	0.189	U
105		383		881		269,000		38,200		21,400		5,130	
106		1.28	U	2.55	U	325	U	23.9	U	13.5	U	7.53	U
107	107 + 124	14.5	C	14.6	C	10,400	C	2,180	C	182	C	465	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		100		283		40,600		7,130		3,890		955	
110	110 + 115	197	C	197	C	247,000	C	45,700	C	12,200	C	9,350	C
111		1.83		5.01		256	U	6.01		4.76		3.22	
112		0.0505	U	0.0639	U	235	U	0.657	U	0.441	U	0.194	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		44.8		162		19,900		3,510		2,890		356	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		1,630		6,700		757,000		111,000		86,900		19,300	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		9.36		26.6		234	U	33.1		32.0		19.5	
121		0.677		1.11		259	U	1.55		1.54	EMPC	1.63	
122		1.44	U	2.87	U	4,460		257		15.2	U	56.0	
123		22.9		61.0		11,800		1,660		920		268	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		3.21		7.31		405	EMPC	54.0		29.1		11.7	
127		4.51		15.0		1,950		283		14.0	U	31.9	

Table H-11
Sculpin PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay SF-01 F-1 9/17/2008		Forebay SF-02 F-2 9/17/2008		Forebay SF-03 F-3 9/17/2008		Forebay SF-04 F-4 9/17/2008		Forebay SF-05 F-5 10/22/2008		Forebay SF-06 F-6 9/19/2008	
128	128 + 166	305	C	597	C	60,700	C	20,800	C	17,100	C	2,510	C
129	129 + 138 + 160 + 163	2,040	C	4,800	C	463,000	C	113,000	C	91,300	C	15,100	C
130		32.6		44.2		23,600		3,040		774		577	
131		0.630		0.562	U	2,350		332		48.0		38.7	
132		16.0		9.49		38,400		4,080		1,010		874	
133		37.7		107		4,820		912		827		176	
134	134 + 143	5.45	C	3.43	C	10,400	C	1,330	C	233	C	200	C
135	135 + 151 + 154	164	C	204	C	31,900	C	6,240	C	1,740	C	1,710	C
136		16.1		12.6		13,700		1,280		493		453	
137		130		424		57,700		12,800		14,700		979	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	34.3	C	70.6	C	6,590	C	2,040	C	1,530	C	306	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		63.5		74.5		37,700		7,460		2,330		1,220	
142		0.206	U	0.561	U	233	U	6.08	U	3.32	U	2.18	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		7.37		5.71		7,050		1,100		195		191	
145		0.0505	U	0.0497	U	55.1	EMPC	0.343	U	2.17		1.88	
146		304		845		59,200		10,500		7,890		1,840	
147	147 + 149	57.5	C	49.8	C	69,800	C	8,440	C	1,360	C	1,480	C
148		1.07	EMPC	1.15		91.1	EMPC	17.2		5.27		7.33	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.0940		0.0497	U	61.9	EMPC	8.60		1.37		1.72	
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.377		0.332		49.8	U	10.4		9.62		8.39	
153	153 + 168	2,940	C	13,600	C	423,000	C	105,000	C	106,000	C	14,500	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		2.34	EMPC	5.11		46.1	U	4.50		5.38		4.76	
156	156 + 157	306	C	1,220	C	118,000	C	21,900	C	25,400	C	2,020	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		169		380		40,500		12,800		11,400		1,450	
159		1.03		1.11	EMPC	375		31.3		7.48		7.47	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.136	U	0.371	U	158	U	4.01	U	2.19	U	1.47	U
162		10.8		36.1		2,740		426		475		53.8	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		20.8		20.3		15,200		2,580		618		456	
165		1.73		4.68		177	U	14.5		14.3		1.64	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		97.9		322		30,800		5,230		3,520		766	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		2.46	U	7.04	U	164	U	23.2	U	28.8	U	5.51	U
170		285		1,120		49,200		9,460		12,900		988	
171	171 + 173	103	C	281	C	6,420	C	2,160	C	2,240	C	379	C
172		37.6		71.5		5,030		851		830		134	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		12.7		8.59		8,400		687		134		152	
175		5.64		11.3		839		125		63.5		27.8	
176		1.55		0.819		566		64.3		10.7		20.8	
177		40.6		58.0		8,900		851		309		311	
178		81.8		246		4,160		659		599		300	
179		26.8		21.3		2,220		318		121		220	
180	180 + 193	975	C	7,050	C	84,000	C	16,500	C	26,600	C	2,040	C
181		6.76		26.4		1,410		311		412		28.4	
182		2.35		3.95		266	EMPC	48.0		47.7		7.86	
183	183 + 185	234	C	788	C	16,100	C	3,520	C	3,550	C	721	C
184		2.66		6.37		48.8	U	12.0		12.0		5.82	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0513	U	0.0497	U	53.4	U	0.475	U	0.246	U	0.137	EMPC
187		451		952		28,700		3,350		2,620		1,750	
188		1.06		2.28		53.1	U	6.22		4.29		3.12	
189		12.8		88.1		2,480		400		501		43.7	
190		107		421		7,060		1,640		1,990		294	
191		15.9		84.3		2,130		337		438		39.8	
192		0.0570	U	0.274	EMPC	56.0	U	0.528	U	0.273	U	0.124	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		101		422		9,210		950		1,480		147	
195		60.8		394		3,180		371		534		90.2	
196		59.5		445		3,890		462		688		86.5	
197	197 + 200	9.52	C	39.6	C	393	C	44.2	C	63.9	C	17.8	C
198	198 + 199	72.8	C	172	C	7,560	C	564	C	449	C	193	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		11.1		30.4		830	EMPC	65.7		48.2		29.6	
202		53.2		205		1,790		226		309		131	
203		128		409		2,960		717		1,220		232	
204		0.214	EMPC	0.765		35.6	U	0.801		1.10		0.363	
205		6.94		27.4		265		50.5		67.1		12.7	
206		54.5		147		1,650		321		635		75.8	
207		12.0		57.0		405		60.6		92.8		12.3	
208		10.7		26.7		631		54.2		54.7		20.0	
209		28.5		75.0		282		67.0		85.5		28.5	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		15.0	J	48.9	J	4,784	J	915	J	559	J	141	J
Total PCBs as Congeners (KM-based)		14.9	J	48.8	J	4,773	J	915	J	559	J	141	J
Total PCBs as Congeners (KM-based, capped)		14.9	J	48.8	J	4,773	J	915	J	559	J	141	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-11
Sculpin PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay SF-07 F-7 10/21/2008		Forebay SF-08 F-8 9/17/2008		Forebay SF-09 F-9 9/19/2008		Forebay SF-10 F-10 10/21/2008		Forebay SF-11 F-11 9/17/2008		Forebay SF-12 F-12 2/22/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.234		0.178		0.160	EMPC	0.251	EMPC	0.175		0.929	J
2		0.446		0.473		0.535		0.479	EMPC	0.384		1.14	J
3		0.251	EMPC	0.265	EMPC	0.368	EMPC	0.594	EMPC	0.236	EMPC	0.702	EMPC
4		1.27		1.10		1.36		1.84		1.01		5.26	J
5		0.0876	U	0.112	U	0.172	U	0.134	EMPC	0.112	U	0.347	EMPC
6		0.687		0.657		0.161	U	0.125	U	0.518		2.55	J
7		0.146	EMPC	0.176		0.165	U	0.289		0.114	EMPC	0.477	J
8		3.26		3.58		3.05		5.69		2.44		12.2	J
9		0.241		0.244		0.237		0.391		0.178	EMPC	0.946	EMPC
10		0.0890	EMPC	0.106	U	0.163	U	0.125	U	0.106	U	0.257	EMPC
11		128		213		152		132		179		332	J
12	12 + 13	0.0896	C U	0.114	C U	0.176	C U	0.125	C U	0.114	C U	0.132	C UJ
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.0845	U	0.108	U	0.166	U	0.125	U	0.108	U	0.125	UJ
15		0.784		1.51	EMPC	0.923	EMPC	1.19		1.16	EMPC	1.98	EMPC
16		4.02		4.16		3.47		5.68		2.70		12.7	J
17		7.31		8.49		5.65		9.32		4.84		21.4	J
18	18 + 30	16.5	C	18.8	C	12.6	C	20.5	C	11.9	C	49.6	C J
19		0.561		0.461		0.534	EMPC	0.754		0.423		1.89	J
20	20 + 28	89.0	C	97.6	C	66.2	C	99.7	C	66.3	C	184	C J
21	21 + 33	11.8	C	13.0	C	8.45	C	16.7	C	7.27	C	28.3	C J
22		11.2		13.1		9.07		14.8		7.21		27.8	J
23		0.126		0.0752	U	0.0650	EMPC	0.125	U	0.0815	U	0.184	J
24		0.319		0.299		0.309		0.419		0.214		0.880	EMPC
25		1.75		1.90		1.31		2.45		1.13		3.53	J
26	26 + 29	9.60	C	10.5	C	6.89	C	11.5	C	6.60	C	18.2	C J
27		1.04		1.16		0.877		1.40		0.649		3.56	J
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		36.8		40.5		26.7		50.6		22.3		93.8	J
32		1.60		1.81		1.20		2.83		1.10		4.38	J
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.394		0.394	EMPC	0.280		0.422		0.273		0.630	J
35		0.0880	U	0.105	EMPC	0.107	EMPC	0.239		0.0847	U	0.179	UJ
36		0.0775	U	0.0689	U	0.0510	EMPC	0.138		0.0746	U	0.157	UJ
37		2.29		11.4		2.55		3.23		3.24		3.70	J
38		0.170	EMPC	0.151		0.125	EMPC	0.235	EMPC	0.108	EMPC	0.407	EMPC
39		0.464		0.454		0.364		0.653	EMPC	0.244		1.21	J
40	40 + 41 + 71	17.5	C	16.8	C	10.7	C	24.3	C	7.51	C	43.3	C J
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		14.3		12.4		9.84		15.5		5.21		42.9	J
43		3.47		3.43		1.97		4.51		2.04	EMPC	8.19	J
44	44 + 47 + 65	118	C	119	C	69.0	C	138	C	65.9	C	307	C J
45	45 + 51	2.74	C	2.59	C	2.00	C	4.74	C	1.32	C	8.77	C J
46		0.550		0.413	EMPC	0.489		0.836		0.300	EMPC	1.71	J
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		15.1		13.7		0.0623	U	0.125	U	6.24		40.9	J
49	49 + 69	105	C	105	C	62.2	C	128	C	57.5	C	208	C J
50	50 + 53	1.40	C	1.22	C	1.25	C	2.31	C	0.829	C	6.12	C J
51	45 + 51		C45		C45		C45		C45		C45		C45
52		231		234		122		310		123		564	J
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0870	EMPC	0.0750	EMPC	0.0527	U	0.125	U	0.0570		0.125	UJ
55		0.236	U	0.396	U	0.262	U	0.361	U	0.341	U	0.745	UJ
56		11.2		11.6		8.27		15.7		5.84		37.9	J
57		1.12		1.48		0.775	EMPC	1.39		0.728		2.22	J
58		0.960		0.589		0.450		1.47		0.525		2.00	EMPC
59	59 + 62 + 75	10.5	C	10.1	C	5.95	C	12.8	C	5.67	C	26.4	C J
60		68.6		77.2		46.0		70.9		54.5		154	J
61	61 + 70 + 74 + 76	402	C	505	C	259	C	514	C	307	C	940	C J
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		19.2		31.0		14.4		16.6		22.1		33.5	J
64		58.4		54.8		37.4		73.9		27.7		0.125	UJ
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		330		458		227		318		319		633	J
67		2.17		2.52		1.52		2.71		1.23		4.86	J
68		3.55		4.22		2.92		3.66		3.36		7.33	J
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		5.47		5.89		3.24		5.80		3.92		9.79	J
73		0.0500	U	0.0501	U	0.0497	U	0.125	U	0.0498	U	0.125	UJ
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		12.8		29.8		11.4		14.3		14.2		29.2	J
78		0.905	EMPC	0.831		0.621		0.349	U	0.920		1.44	J
79		2.87		2.68		1.76		3.91		1.59		10.9	J
80		0.315	EMPC	0.441	EMPC	0.298	EMPC	0.306	U	0.385		0.717	J
81		0.553	U	1.45		0.382	EMPC	0.524	U	0.710	EMPC	0.818	UJ
82		4.11	EMPC	3.48		3.07		6.08		2.22	EMPC	16.8	J
83	83 + 99	1,020	C	1,210	C	524	C	1,060	C	877	C	1,880	C J
84		11.0		9.27		7.46		18.2		4.05		56.4	J
85	85 + 116 + 117	280	C	347	C	154	C	316	C	234	C	608	C J
86	86 + 87 + 97 + 108 + 119 + 125	241	C	227	C	133	C	342	C	110	C	733	C J
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	19.8	C	17.2	C	11.4	C	30.9	C	6.16	C	90.2	C J
89		0.750		0.638		0.470	EMPC	1.14		0.208	U	1.93	EMPC
90	90 + 101 + 113	730	C	661	C	375	C	920	C	291	C	2,080	C J
91	88 + 91		C88		C88		C88		C88		C88		C88
92		166		169		76.4		203		74.4		469	J
93	93 + 95 + 98 + 100 + 102	180	C	180	C	88.8	C	240	C	76.6	C	520	C J
94		0.232	U	0.214	U	0.262	U	0.224		0.214	U	0.449	J
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.928		0.804		0.448	EMPC	1.25		0.361	EMPC	2.09	J
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		3.09		2.50		1.54		3.67		0.943		7.22	J
104		0.103	U	0.103	U	0.113	U	0.137	U	0.106	U	0.141	UJ
105		600		752		325		652		527		1,210	J
106		1.73	U	1.97	U	1.18	U	1.60	U	1.74	U	3.09	U
107	107 + 124	25.9	C	33.6	C	16.7	C	43.3	C	17.7	C	63.8	C J
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		159		187		107		143		171		320	J
110	110 + 115	462	C	430	C	263	C	649	C	172	C	1,720	C J
111		2.87		3.04		1.87		2.16		3.10		4.08	J
112		0.159	U	0.146	U	0.179	U	0.144	U	0.147	U	0.219	UJ
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		55.3		73.4		32.7		47.8		68.2		63.8	J
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		2,430		3,000		1,360		2,090		2,880		3,840	J
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		14.7		16.2		8.97		11.0		16.8		22.6	J
121		1.17		1.09		0.633		1.08		0.789		2.38	J
122		1.94	U	2.20	U	1.32	U	1.79	U	1.95	U	3.46	U
123		32.6		37.6		21.4		24.1		39.4		30.3	J
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		4.35		5.97		3.21		4.20		5.50		10.2	J
127		3.82		6.00		2.78		4.89		5.91		3.17	U

Table H-11
Sculpin PCB Congener Analysis Results
(Page 4 of 12)

IUPAC #	COELUTING CONGENERS[1]	Forebay SF-07 F-7 10/21/2008		Forebay SF-08 F-8 9/17/2008		Forebay SF-09 F-9 9/19/2008		Forebay SF-10 F-10 10/21/2008		Forebay SF-11 F-11 9/17/2008		Forebay SF-12 F-12 2/22/2008	
128	128 + 166	392	C	500	C	207	C	476	C	347	C	834	C J
129	129 + 138 + 160 + 163	3,090	C	3,700	C	1,550	C	3,270	C	2,960	C	5,390	C J
130		72.7		65.2		43.8		78.9		37.5		183	J
131		1.67		1.45		1.03		2.26		0.492	U	2.39	U
132		33.7		31.4		19.6		60.4		8.62		237	J
133		61.3		70.4		34.8		56.5		61.3		117	J
134	134 + 143	14.4	C	11.6	C	7.45	C	20.4	C	3.34	C	59.8	C J
135	135 + 151 + 154	320	C	307	C	144	C	356	C	138	C	1,030	C J
136		34.9		32.9		16.6		45.3		12.2		129	J
137		138		180		73.3		140		163		59.6	J
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	46.3	C	56.8	C	22.3	C	56.3	C	40.1	C	62.6	C J
140	139 + 140		C139		C139		C139		C139		C139		C139
141		115		130		53.5		161		65.4		123	J
142		0.370	U	0.424	U	0.330	U	0.520	U	0.501	U	2.44	UJ
143	134 + 143		C134		C134		C134		C134		C134		C134
144		16.8		14.2		8.62		22.3		5.07		31.2	J
145		0.101	U	0.0808	U	0.0954	U	0.125	U	0.0685	U	0.125	UJ
146		525		570		310		420		538		935	J
147	147 + 149	109	C	105	C	65.2	C	158	C	40.9	C	808	C J
148		2.23		1.86		1.11		2.52		0.727		8.49	J
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.202		0.152	EMPC	0.0900	U	0.273		0.0647	U	1.14	J
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.598		0.0745	U	0.341		0.808		0.305		1.94	J
153	153 + 168	4,650	C	5,270	C	2,190	C	3,950	C	6,260	C	5,280	C J
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		3.62		4.12		1.77		3.97		3.47		6.51	J
156	156 + 157	340	C	428	C	179	C	337	C	414	C	283	C J
157	156 + 157		C156		C156		C156		C156		C156		C156
158		233		293		106		284		205		186	J
159		1.63		1.64		0.922		1.93		0.778	EMPC	3.66	J
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.250	U	0.286	U	0.223	U	0.351	U	0.338	U	1.65	UJ
162		14.7		18.9		8.77		14.1		17.7		18.1	J
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		41.5		43.3		20.9		58.6		18.8		160	J
165		2.70		3.12		1.72		2.31		2.83		3.77	EMPC
166	128 + 166		C128		C128		C128		C128		C128		C128
167		116		140		71.6		93.5		165		131	J
168	153 + 168		C153		C153		C153		C153		C153		C153
169		3.65		3.63	U	2.18	U	3.22	U	4.79	U	4.05	U
170		328		388		175		373		478		218	J
171	171 + 173	152	C	177	C	77.6	C	188	C	159	C	127	C J
172		49.9		57.4		27.5		52.7		64.3		42.1	J
173	171 + 173		C171		C171		C171		C171		C171		C171
174		21.0		19.4		12.0		32.3		7.51		70.8	J
175		9.72		9.21		5.65		9.54		8.02		10.6	J
176		3.09		2.74		1.73		5.13		0.614	EMPC	13.6	J
177		85.4		72.4		57.1		91.3		45.5		414	J
178		159		168		87.7		147		133		386	J
179		67.1		53.3		34.3		82.8		17.5		333	J
180	180 + 193	1,290	C	1,460	C	693	C	1,150	C	2,270	C	744	C J
181		8.39		10.0		4.24		8.19		9.88		6.22	J
182		3.00		3.49		1.73	EMPC	3.59		2.68		3.09	J
183	183 + 185	347	C	384	C	172	C	379	C	398	C	309	C J
184		4.22		4.81		2.20		5.12		4.13		5.36	J
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0500	U	0.0574	U	0.0507	U	0.125	U	0.0498	U	0.125	UJ
187		705		643		468		526		654		2,230	J
188		1.83		1.76		1.34		1.47		1.75		5.34	J
189		13.5		15.7		8.13		13.6		20.9		9.62	J
190		172		202		83.0		170		242		161	J
191		19.9		24.2		10.3		21.1		33.3		11.1	J
192		0.0542	U	0.0647	U	0.0571	U	0.175	EMPC	0.101	EMPC	0.125	UJ
193	180 + 193		C180		C180		C180		C180		C180		C180
194		124		130		69.5		118		190		65.9	J
195		84.9		92.0		44.6		83.0		123		67.9	J
196		68.4		77.7		40.9		71.8		120		40.7	J
197	197 + 200	14.1	C	15.1	C	7.56	C	16.7	C	18.3	C	10.3	C J
198	198 + 199	115	C	108	C	73.7	C	91.8	C	110	C	155	C J
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		19.6		17.6		13.0		15.5		18.5		20.7	J
202		106		113		57.8		104		93.2		199	J
203		213		227		102		217		288		142	J
204		0.407		0.420		0.214		0.374	EMPC	0.476		0.229	J
205		11.2		11.6		5.74		10.7		14.3		5.73	J
206		73.4		74.9		40.7		66.6		73.4		34.8	J
207		14.5		15.6		8.48		14.6		18.3		7.46	J
208		17.4		16.3		10.9		13.9		14.4		14.8	J
209		37.1		39.3		20.9		29.6		34.9		15.9	J
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		22.9	J	26.2	J	12.3	J	23.1	J	24.1	J	39.7	J
Total PCBs as Congeners (KM-based)		22.9	J	26.1	J	12.3	J	23.1	J	24.2	J	39.6	J
Total PCBs as Congeners (KM-based, capped)		22.9	J	26.1	J	12.3	J	23.1	J	24.1	J	39.6	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-11
Sculpin PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Forebay SF-13 F-13 2/22/2008		Forebay SF-14 F-14 10/22/2008		Forebay SF-15 F-15 10/21/2008		Forebay SF-16 F-16 10/21/2008		Forebay SF-17 F-17 10/21/2008		Reference SR-01 R-1 7/23/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.540	EMPC	0.160		1.94		0.218	EMPC	0.266	EMPC	0.165	
2		0.664	J	0.376		2.04		0.411		0.454		0.407	EMPC
3		2.45	EMPC	0.221	EMPC	20.9	EMPC	0.461	EMPC	0.595	EMPC	0.275	
4		2.43	J	1.32		0.989	EMPC	1.27		1.70		1.24	
5		0.157	UJ	0.0960		0.273	U	0.0870	EMPC	0.233	U	0.275	U
6		1.21	J	0.748		0.379	EMPC	0.637		1.34		0.641	
7		0.289	EMPC	0.202	EMPC	0.651		0.187		0.254		0.253	U
8		4.86	J	3.44		1.92		2.84		6.59		3.15	
9		0.547	J	0.286	EMPC	0.975	EMPC	0.221	EMPC	0.435		0.244	U
10		0.150	UJ	0.0830	EMPC	0.241	U	0.0760		0.206	U	0.257	U
11		114	J	127		138	EMPC	134		133		143	
12	12 + 13	0.924	C EMPC	0.0822	C U	0.269	C U	0.0759	C U	0.230	C U	0.257	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.152	UJ	0.0769	U	0.252	U	0.0710	U	0.215	U	0.246	U
15		0.731	J	0.975	EMPC	1.41		0.779		1.15		1.03	
16		4.24	J	3.92		0.937		3.27		6.22		3.55	
17		5.96	J	11.2		1.84		5.58		13.7		6.49	
18	18 + 30	15.2	C J	22.5	C	4.69	C	15.3	C	29.9	C	14.3	C
19		0.735	J	0.456	EMPC	0.272	EMPC	0.475		0.621		0.429	EMPC
20	20 + 28	66.4	C J	106	C	44.9	C	78.9	C	226	C	91.5	C
21	21 + 33	6.95	C J	13.3	C	3.29	C	7.60	C	26.2	C	12.5	C
22		6.41	J	14.5		3.51		8.85		23.2		12.6	
23		0.141	UJ	0.106	EMPC	0.132	U	0.117	EMPC	0.203	U	0.133	U
24		0.263	EMPC	0.352	EMPC	0.132	U	0.243		0.529	EMPC	0.239	
25		0.866	J	2.06		0.576		1.35		3.63		2.01	
26	26 + 29	6.67	C J	11.7	C	3.79	C	8.35	C	18.8	C	9.87	C
27		1.03	J	1.33		0.291	EMPC	0.954		1.91		0.802	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		35.4	J	44.5		15.2		32.2		88.9		46.4	
32		1.79	J	1.85		0.452	EMPC	1.35		7.15		1.36	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.153	EMPC	0.383		0.132	U	0.256		0.467		0.314	
35		0.141	UJ	0.114	EMPC	0.132	U	0.0929	U	0.219	U	0.133	U
36		0.141	UJ	0.0776	U	0.132	U	0.0800	U	0.188	U	0.114	U
37		0.874	J	2.34		0.716		2.51		4.10		2.85	
38		0.141	UJ	0.223		0.132	U	0.134	EMPC	0.342	EMPC	0.123	U
39		0.158	EMPC	0.663	EMPC	0.132	U	0.350		0.821		0.483	
40	40 + 41 + 71	7.86	C J	17.2	C	2.61	C	8.07	C	35.9	C	14.8	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		5.17	J	18.0		1.72		10.9		25.4		11.0	
43		1.55	J	0.245		0.880	EMPC	2.91		6.71		3.37	EMPC
44	44 + 47 + 65	66.9	C J	154	C	57.4	C	102	C	279	C	112	C
45	45 + 51	1.80	C J	2.51	C	1.21	C	2.00	C	4.69	C	2.33	C
46		0.493	EMPC	0.367	EMPC	0.132	U	0.395	EMPC	0.619	EMPC	0.380	EMPC
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		6.69	J	19.4		2.37		9.48		24.9		12.1	
49	49 + 69	58.7	C J	136	C	29.1	C	82.0	C	221	C	103	C
50	50 + 53	1.27	C J	1.03	C	0.223	C	0.972	C	2.17	C	0.952	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		151	J	277		61.8		165		361		216	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.141	UJ	0.0810	EMPC	0.132	U	0.0760	EMPC	0.108	EMPC	0.0903	U
55		0.240	UJ	0.819	U	0.336	U	0.349	U	1.18	U	0.334	U
56		5.32	J	9.89		1.47		6.50		22.3		12.4	
57		0.564	J	1.30		0.409		1.10		2.27		1.00	
58		0.285	J	0.734	U	0.301	U	0.509		1.06	U	1.06	
59	59 + 62 + 75	6.09	C J	13.0	C	3.84	C	8.31	C	22.2	C	9.92	C
60		43.9	J	108		51.1		59.4		249		69.0	
61	61 + 70 + 74 + 76	255	C J	585	C	257	C	477	C	1,090	C	415	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		10.4	J	28.2		12.9		29.4		49.5		15.1	
64		0.141	UJ	68.0		14.2		42.5		114		55.3	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		188	J	517		266		383		982		313	
67		0.612	J	2.45		0.479		1.44	EMPC	3.52		2.43	
68		2.22	J	4.44		2.11		6.21		5.00		3.30	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		3.20	J	6.62		2.81		4.89		8.77		5.64	
73		0.141	UJ	0.0499	U	0.132	U	0.0501	U	0.100	U	0.0823	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		4.31	J	15.3		4.64		18.7		15.4		11.4	
78		0.365	J	1.21		0.505	EMPC	1.32		1.63	EMPC	0.318	U
79		1.26	J	3.25		0.664		1.91		4.36		2.03	
80		0.238	EMPC	0.682	U	0.280	U	0.460	EMPC	1.92	EMPC	0.390	EMPC
81		0.225	UJ	0.756	U	0.278	U	0.846	EMPC	1.11	U	0.938	EMPC
82		2.64	EMPC	2.98		0.629	EMPC	2.73		11.6		4.10	
83	83 + 99	502	C J	1,710	C	913	C	878	C	2,490	C	868	C
84		6.50	J	8.94		1.27	EMPC	6.94		21.6		11.2	
85	85 + 116 + 117	157	C J	454	C	158	C	252	C	708	C	266	C
86	86 + 87 + 97 + 108 + 119 + 125	119	C J	288	C	58.4	C	151	C	447	C	212	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	7.34	C J	18.9	C	2.27	C	11.2	C	33.3	C	18.0	C
89		0.210	EMPC	0.642		0.209	U	0.382		0.967		0.483	
90	90 + 101 + 113	342	C J	953	C	161	C	485	C	1,020	C	632	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		99.1	J	228		55.0		109		251		161	
93	93 + 95 + 98 + 100 + 102	100	C J	207	C	46.7	C	114	C	246	C	172	C
94		0.197	UJ	0.0839	U	0.214	U	0.138	U	0.286	U	0.113	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.342	EMPC	0.836		0.150	U	0.572		1.19		0.734	
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		1.43	J	3.07		0.430	EMPC	2.05		4.13		2.53	
104		0.145	UJ	0.0743	U	0.211	U	0.0719	U	0.167	U	0.0591	U
105		303	J	997		549		530		1,570		505	
106		0.900	UJ	2.63	U	1.58	U	3.47	U	3.90	U	1.27	U
107	107 + 124	13.0	C J	35.7	C	8.36	C	17.6	C	37.5	C	29.4	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		72.4	J	221		98.3		393		270		123	
110	110 + 115	191	C J	551	C	97.2	C	289	C	756	C	458	C
111		1.20	J	3.71		3.25		3.81		4.41		1.88	
112		0.141	UJ	0.0586	U	0.150	U	0.0964	U	0.200	U	0.0723	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		21.2	J	81.8		48.8		239		128		32.0	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		870	J	3,750		1,860		7,340		4,800		1,540	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		6.40	EMPC	22.0		8.18		19.8		18.5		10.2	
121		0.897	J	1.87		0.669	EMPC	1.15		2.29		0.984	
122		1.01	U	2.99	U	1.80	U	3.94	U	4.42	U	2.19	EMPC
123		12.8	EMPC	48.7		19.6		160		56.6		20.2	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		2.39	J	6.32		2.90		7.26		5.96		3.06	
127		1.62	J	5.70		3.59		20.6		10.7		1.30	U

Table H-11
Sculpin PCB Congener Analysis Results
(Page 6 of 12)

IUPAC #	COELUTING CONGENERS[1]	Forebay SF-13 F-13 2/22/2008		Forebay SF-14 F-14 10/22/2008		Forebay SF-15 F-15 10/21/2008		Forebay SF-16 F-16 10/21/2008		Forebay SF-17 F-17 10/21/2008		Reference SR-01 R-1 7/23/2008	
128	128 + 166	190	C J	670	C	401	C	335	C	877	C	361	C
129	129 + 138 + 160 + 163	1,380	C J	5,510	C	3,010	C	3,230	C	5,830	C	2,440	C
130		30.9	J	98.3		19.7		65.4		103		54.1	
131		0.754	EMPC	1.69	EMPC	0.507	U	0.997		3.00		1.51	
132		16.8	J	32.1		2.82		18.5		66.6		40.0	
133		27.1	J	100		60.4		73.6		91.2		45.1	
134	134 + 143	5.18	C J	14.3	C	1.24	C	6.60	C	17.2	C	11.1	C
135	135 + 151 + 154	180	C J	488	C	114	C	211	C	407	C	310	C
136		0.141	UJ	42.9		5.90		20.7		46.2		32.9	
137		47.2	J	180		95.0		602		366		76.5	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	22.3	C	78.3	C	22.9	C	31.3	C	95.7	C	39.1	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		66.6	J	148		47.9		81.5		266		108	
142		0.555	UJ	0.722	U	0.506	U	0.633	U	1.04	U	0.274	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		8.04	J	21.1		2.30		10.4		25.6		15.0	
145		0.141	UJ	0.0610	EMPC	0.132	U	0.0703	U	0.161	U	0.0554	U
146		216	J	840		547		977		721		352	
147	147 + 149	53.4	C J	128	C	17.8	C	82.6	C	196	C	131	C
148		1.32	J	3.54		0.597		1.89		3.14		2.23	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.141	U	0.126	EMPC	0.132	U	0.0655	U	0.301	EMPC	0.251	EMPC
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.141	UJ	0.852		0.132	U	0.449		0.651	EMPC	0.597	
153	153 + 168	1,480	C	7,790	C	4,780	C	8,030	C	6,930	C	2,900	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		1.98		6.24		1.76		3.29		6.24		2.55	
156	156 + 157	123	C J	485	C	381	C	1,550	C	759	C	183	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		90.3	J	414		183		150		552		195	
159		0.799	J	1.34		0.556	EMPC	1.14	EMPC	2.38	EMPC	1.70	EMPC
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.375	UJ	0.504	U	0.353	U	0.442	U	0.724	U	0.183	U
162		6.02	J	20.6		13.4		37.4		28.5		9.42	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		25.1	J	52.9		12.3		27.0		73.1		41.0	
165		1.30	J	4.53		4.52		3.88		3.85	EMPC	1.64	
166	128 + 166		C128		C128		C128		C128		C128		C128
167		43.2	J	179		87.5		671		193		70.8	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		1.45	UJ	5.62	U	3.69	U	4.16	U	3.70	U	3.36	U
170		148	J	411		526		392		641		212	
171	171 + 173	67.6	C J	271	C	130	C	112	C	227	C	110	C
172		27.5	J	64.0		81.2		44.5		102		39.4	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		12.8	J	17.9		3.01		12.9		32.7		21.4	
175		5.47	J	15.2		5.04		11.3		14.8		6.60	
176		1.61	J	3.85		0.132	U	1.73		4.77		3.59	
177		38.4	J	110		19.2		78.6		93.9		60.8	
178		79.7	J	292		128		170		200		118	
179		35.1	J	91.6		10.2		36.5		61.0		57.7	
180	180 + 193	448	C J	1,650	C	1,620	C	2,710	C	1,860	C	624	C
181		3.13	J	11.3		5.02		20.4		13.8		4.30	
182		2.19	J	5.01		2.22	EMPC	3.02		6.29		2.14	
183	183 + 185	175	C J	595	C	319	C	360	C	520	C	224	C
184		1.86	J	7.70		1.58		3.24		5.89		3.14	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.141	UJ	0.0570	U	0.132	U	0.0592	U	0.109	U	0.0672	U
187		306	J	1,100		710		1,350		720		450	
188		0.880	EMPC	2.90		0.692		2.99		2.25		1.19	
189		5.86	J	15.8		20.5		41.3		24.8		6.91	
190		67.0	J	246		169		193		191		97.8	
191		8.32	J	28.3		20.2		29.8		32.2		10.1	
192		0.141	UJ	0.225		0.132	U	0.184	EMPC	0.141	EMPC	0.0750	
193	180 + 193		C180		C180		C180		C180		C180		C180
194		62.3	J	116		179		155		204		65.2	
195		31.1	J	109		85.5		98.3		98.1		45.2	
196		42.7	J	86.9		68.2		121		109		38.0	
197	197 + 200	6.51	C J	20.7	C	12.1	C	12.8	C	16.2	C	9.08	C
198	198 + 199	87.9	C J	136	C	166	C	166	C	169	C	81.8	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		10.3	J	32.6		9.75		33.9		20.8		13.3	
202		49.4	J	193		49.4		100		122		67.5	
203		112	J	288		208		185		268		114	
204		0.225	J	0.483		0.276		0.319	EMPC	0.696		0.244	
205		4.88	J	14.8		12.0		9.79		13.1		5.36	
206		46.3	J	82.3		68.2		58.2		102		34.8	
207		13.2	J	18.3		12.0		24.1		18.4		7.22	
208		15.6	J	22.4		12.0		20.3		20.9		10.8	
209		22.4	J	41.9		22.8		34.8		31.6		17.8	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		9.90	J	35.4	J	19.6	J	35.6	J	40.7	J	16.8	J
Total PCBs as Congeners (KM-based)		9.87	J	35.3	J	19.4	J	35.6	J	40.7	J	16.9	J
Total PCBs as Congeners (KM-based, capped)		9.87	J	35.3	J	19.4	J	35.6	J	40.7	J	16.8	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-11
Sculpin PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Reference SR-02 R-2 7/24/2008		Reference SR-03 R-3 3/14/2008		Reference SR-04 R-4 10/9/2008		Reference SR-05 R-5 7/24/2008		Reference SR-06 R-6 2/26/2008		Reference SR-07 R-7 3/10/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.190	EMPC	0.179	EMPC	0.213		0.323	EMPC	0.433		1.43	J
2		0.440	EMPC	0.235		0.413	EMPC	0.611		0.656	EMPC	0.719	J
3		0.241	EMPC	0.218	EMPC	0.212	EMPC	0.353		0.458	EMPC	0.424	J
4		1.41		1.26		2.03	EMPC	3.18	EMPC	1.81		16.9	J
5		0.250	U	0.192	U	0.198	U	0.242	EMPC	0.423	U	0.513	UJ
6		0.913		0.573		1.03		1.98		1.05		7.90	J
7		0.231	U	0.177	U	0.233	EMPC	0.419	EMPC	0.402	EMPC	0.726	EMPC
8		4.41		2.60		0.172	U	8.86		5.25		23.9	J
9		0.305	EMPC	0.201	EMPC	0.334		0.639		0.450	EMPC	2.21	J
10		0.234	U	0.179	U	0.184	U	0.198	EMPC	0.393	U	0.886	J
11		149		119		140		215		112		178	J
12	12 + 13	0.234	C U	0.179	C U	0.190	C U	0.182	C U	0.405	C U	1.65	C EMPC
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.224	U	0.171	U	0.185	U	0.177	U	0.395	U	0.479	UJ
15		1.25		0.587	EMPC	0.903		2.30		0.976		1.92	J
16		5.85		2.64		4.06		12.0		4.91		17.8	J
17		9.45		4.21		7.34		21.0		6.38		31.3	J
18	18 + 30	21.8	C	9.94	C	17.9	C	44.9	C	16.0	C	68.6	C J
19		0.741		0.392	EMPC	0.633		1.56		0.916		3.18	J
20	20 + 28	99.4	C	57.0	C	112	C	166	C	68.5	C	251	C J
21	21 + 33	15.2	C	5.84	C	15.1	C	29.9	C	9.51	C	39.8	C J
22		15.1		6.81		16.2		31.3		7.54		28.8	J
23		0.0906	U	0.118	U	0.109		0.239		0.246	U	0.221	EMPC
24		0.315		0.183	EMPC	0.277		0.532	EMPC	0.337		1.06	J
25		2.30		1.00		2.90		3.96		1.03		4.00	J
26	26 + 29	12.1	C	6.10	C	12.8	C	19.9	C	6.79	C	27.3	C J
27		1.62		0.658	EMPC	1.23		3.23		1.09		4.32	J
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		39.6		21.0		57.7		74.1		33.2		90.2	J
32		2.85		1.08		1.89		5.54		2.18		11.6	J
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.394	EMPC	0.165	EMPC	0.407		0.722		0.266	EMPC	0.561	J
35		0.198	EMPC	0.118	U	0.137	EMPC	0.288		0.253	U	0.164	UJ
36		0.160	EMPC	0.102	U	0.0852	U	0.138		0.210	U	0.136	UJ
37		4.47		2.27		2.06		7.28		0.674		1.41	J
38		0.171	EMPC	0.109	U	0.0926	U	0.276		0.228	U	0.149	EMPC
39		0.606	EMPC	0.108	U	0.0937	U	1.22	EMPC	0.245	EMPC	0.911	J
40	40 + 41 + 71	24.4	C	7.61	C	19.5	C	7.73	C	12.7	C	40.5	C J
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		19.4		10.9		15.2		40.8		7.92		24.9	J
43		5.15		2.22		4.15		7.29		2.78		7.10	J
44	44 + 47 + 65	156	C	103	C	126	C	257	C	82.8	C	204	C J
45	45 + 51	4.43	C	1.34	C	2.95	C	6.83	C	2.84	C	7.65	C J
46		0.709		0.124		0.434	EMPC	1.85		0.792	EMPC	1.76	J
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		18.5		8.93		16.0		35.7		9.05		30.3	J
49	49 + 69	121	C	86.1	C	123	C	183	C	67.3	C	177	C J
50	50 + 53	2.48	C	0.784	C	1.88	C	6.32	C	2.41	C	4.50	C J
51	45 + 51		C45		C45		C45		C45		C45		C45
52		284		175		256		424		161		347	J
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0830	EMPC	0.0588	U	0.0597	U	0.182		0.141	U	0.149	EMPC
55		0.481	U	0.475	U	0.311	U	0.362	U	0.750	U	0.709	U
56		18.8		5.48	EMPC	18.6		39.5		7.33		14.0	J
57		1.02		0.803	EMPC	1.08		1.43		0.811		1.59	J
58		0.717	EMPC	0.502	EMPC	1.12		1.33	EMPC	0.725	U	0.813	J
59	59 + 62 + 75	13.2	C	8.70	C	12.1	C	21.4	C	7.98	C	18.1	C J
60		82.1		78.7		67.4		130		52.6		92.3	J
61	61 + 70 + 74 + 76	420	C	366	C	463	C	680	C	282	C	504	C J
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		19.5		22.5		17.0		28.0		12.0		23.7	J
64		64.0		41.0		70.2		116		38.8		0.122	UJ
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		387		409		310		579		215		409	J
67		2.81		1.73		3.48		4.59		0.972	EMPC	2.48	J
68		2.53		2.37		3.89		4.18		2.11		3.06	J
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		5.95		5.39		6.15		8.38		3.93		6.59	J
73		0.0706	U	0.0604	U	0.0582	U	0.0484	U	0.138	U	0.122	UJ
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		12.9		10.7		13.8		21.7		5.19		9.81	J
78		0.458	U	0.452	U	0.300	U	0.349	U	0.724	U	0.683	UJ
79		3.24		2.19		2.74		6.22		1.42		2.65	J
80		0.421	U	0.576		0.374	EMPC	0.542	EMPC	0.649	U	0.613	UJ
81		1.40	EMPC	1.36	EMPC	0.689	EMPC	1.98	EMPC	0.711	U	1.41	EMPC
82		6.24		1.61		9.57		15.7		4.30		5.96	J
83	83 + 99	1,200	C	1,730	C	817	C	1,930	C	632	C	1,010	C J
84		16.7		4.57		22.4		40.3		11.0		11.3	J
85	85 + 116 + 117	324	C	445	C	239	C	522	C	192	C	285	C J
86	86 + 87 + 97 + 108 + 119 + 125	263	C	233	C	274	C	496	C	145	C	269	C J
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	23.3	C	9.67	C	29.0	C	52.6	C	12.1	C	16.7	C J
89		0.984	EMPC	0.203		0.674		1.83		0.461	EMPC	0.568	J
90	90 + 101 + 113	758	C	775	C	758	C	1,270	C	412	C	748	C J
91	88 + 91		C88		C88		C88		C88		C88		C88
92		203		213		188		305		127		197	J
93	93 + 95 + 98 + 100 + 102	204	C	149	C	204	C	347	C	134	C	197	C J
94		0.209	U	0.186	U	0.225	EMPC	0.420		0.221	U	0.351	UJ
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		1.04		0.497		0.758		1.71		0.569		1.19	J
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		2.99		2.07		4.04		4.47		1.49	EMPC	3.21	J
104		0.0624	U	0.0757	U	0.0619	U	0.136	EMPC	0.119	U	0.131	UJ
105		685		972		455		1,040		358		591	J
106		2.10	U	2.11	U	1.27	U	2.23	U	0.903	U	1.48	UJ
107	107 + 124	25.9	C	23.7	C	32.9	C	41.6	C	13.6	C	22.9	C J
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		159		261		104		214		80.7		144	J
110	110 + 115	498	C	390	C	568	C	1,030	C	289	C	460	C J
111		2.70		4.18		1.70	EMPC	3.81		1.39	EMPC	2.44	J
112		0.134	U	0.119	U	0.118	U	0.106	U	0.142	U	0.225	UJ
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		47.1		82.1		27.2		71.6		25.0		39.2	J
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		2,180		3,870		1,270		3,490		1,050		1,710	J
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		14.1		24.1		8.82		21.2		7.27		11.7	J
121		1.68		0.133	U	0.985		1.95		0.878		1.62	J
122		2.24	U	2.25	U	2.92		3.59	EMPC	0.993	U	1.62	UJ
123		25.8		44.5		21.4		45.3		15.3		25.5	J
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		3.64		4.62		2.54		5.89		2.72		3.97	J
127		2.16	U	7.38		2.86		7.33		2.47		3.00	J

Table H-11
Sculpin PCB Congener Analysis Results
(Page 8 of 12)

IUPAC #	COELUTING CONGENERS[1]	Reference SR-02 R-2 7/24/2008		Reference SR-03 R-3 3/14/2008		Reference SR-04 R-4 10/9/2008		Reference SR-05 R-5 7/24/2008		Reference SR-06 R-6 2/26/2008		Reference SR-07 R-7 3/10/2008	
128	128 + 166	450	C	803	C	319	C	840	C	271	C	366	C J
129	129 + 138 + 160 + 163	3,310	C	6,350	C	2,110	C	5,890	C	1,820	C	2,740	C J
130		56.5		76.2		79.7		124		45.5		81.1	J
131		1.33	EMPC	0.470	U	3.10		3.26	EMPC	1.08		1.94	J
132		48.5		13.8		72.1		122		25.7		32.4	J
133		66.5		123		40.6		97.1		34.4		53.8	J
134	134 + 143	13.2	C	7.32	C	19.1	C	29.3	C	7.86	C	12.4	C J
135	135 + 151 + 154	398	C	531	C	354	C	623	C	243	C	378	C J
136		40.7		29.8		43.1		73.6		24.0		36.2	J
137		94.4		179		62.4		172		57.8		64.6	J
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	52.4	C	91.9	C	35.6	C	88.2	C	28.3	C	40.8	C J
140	139 + 140		C139		C139		C139		C139		C139		C139
141		124		138		110		197		78.2		107	J
142		0.543	U	0.458	U	0.209	U	2.05	U	0.379	U	0.569	UJ
143	134 + 143		C134		C134		C134		C134		C134		C134
144		17.6		15.7		24.0		32.0		10.7		19.0	J
145		0.0920		0.0663	U	0.0653	U	0.0970	EMPC	0.119	U	0.153	UJ
146		470		922		353		722		280		447	J
147	147 + 149	149	C	81.2	C	186	C	330	C	76.6	C	101	C J
148		2.72		3.30		2.86		4.08		2.00		2.91	J
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.171	EMPC	0.0639	U	0.469		0.509		0.119	U	0.147	UJ
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.783	EMPC	0.735	EMPC	0.555		1.24		0.472	EMPC	0.738	J
153	153 + 168	4,190	C	9,000	C	2,290	C	7,430	C	1,950	C	2,930	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		3.90		7.09		2.47	EMPC	6.49		2.12		3.24	J
156	156 + 157	239	C	464	C	148	C	438	C	140	C	187	C J
157	156 + 157		C156		C156		C156		C156		C156		C156
158		268		504		173		482		148		206	J
159		1.84		0.324	U	2.21		3.48	EMPC	1.63	EMPC	2.01	EMPC
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.362	U	0.305	U	0.144	U	1.41	U	0.262	U	0.393	UJ
162		12.1		27.8		7.82		19.7		6.76		9.81	J
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		42.3		35.8		49.1		87.1		31.1		57.1	J
165		2.65		4.47		1.58	EMPC	3.99		1.65		1.88	EMPC
166	128 + 166		C128		C128		C128		C128		C128		C128
167		91.2		175		60.6		149		51.9		77.0	J
168	153 + 168		C153		C153		C153		C153		C153		C153
169		4.03	U	7.77	U	2.14	U	7.56	U	2.90	U	3.95	UJ
170		245		528		186		560		188		188	J
171	171 + 173	153	C	361	C	100	C	304	C	91.3	C	113	C J
172		43.8		80.5		34.8		78.8		33.8		35.2	J
173	171 + 173		C171		C171		C171		C171		C171		C171
174		21.5		9.27		31.8		50.6		16.3		21.9	J
175		8.12		15.1		8.19		13.7		5.72		9.25	J
176		3.43		1.58		5.38		8.51		1.97		3.13	J
177		62.0		79.9		84.5		146		47.4		75.6	J
178		164		357		109		257		93.4		150	J
179		59.1		67.8		72.6		127		44.7		69.2	J
180	180 + 193	756	C	1,940	C	514	C	1,650	C	523	C	576	C J
181		5.84		13.6		3.82		11.5		3.39	EMPC	4.84	J
182		3.00		5.69		2.14	EMPC	5.39		2.46	EMPC	2.91	J
183	183 + 185	321	C	722	C	203	C	550	C	194	C	279	C J
184		4.75		9.57		2.70		7.93		2.38		3.31	J
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0495	U	0.0683	U	0.0721	U	0.0777	U	0.192	U	0.133	UJ
187		520		1,060		503		917		381		634	J
188		1.54		2.85		1.32		2.43		1.12		1.67	J
189		8.59		0.318	U	5.20		17.2		5.98		6.73	J
190		131		322		78.1		260		78.2		102	J
191		14.6		36.9		8.48		28.6		9.42		11.8	J
192		0.0680	EMPC	0.0719	U	0.0870	EMPC	0.193	EMPC	0.208	U	0.144	UJ
193	180 + 193		C180		C180		C180		C180		C180		C180
194		75.0		158		52.9		162		57.7		57.6	J
195		59.2		158		37.3		133		38.8		40.3	J
196		49.0		117		32.4		97.3		34.2		42.3	J
197	197 + 200	11.5	C	27.7	C	7.31	C	22.5	C	7.29	C	8.82	C J
198	198 + 199	83.8	C	153	C	73.8	C	132	C	67.1	C	87.0	C J
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		14.7		37.4		12.5		25.7		10.7		16.3	J
202		91.1		225		55.0		151		48.2		72.1	J
203		155		420		82.7		296		90.6		122	J
204		0.259		0.650		0.133	EMPC	0.378	EMPC	0.129	U	0.187	J
205		6.54		17.8		4.58		13.4		3.91		5.26	J
206		36.0		88.4		25.8		78.8		27.4		34.1	J
207		8.85		22.0		5.72		17.0		6.57		7.86	J
208		10.2		21.8		9.30		17.5		8.42		12.4	J
209		15.1		41.1		13.1		32.3		12.9		21.6	J
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		22.0	J	37.5	J	15.9	J	38.4	J	12.3	J	19.3	J
Total PCBs as Congeners (KM-based)		21.9	J	37.5	J	15.9	J	38.3	J	12.2	J	19.2	J
Total PCBs as Congeners (KM-based, capped)		21.9	J	37.5	J	15.9	J	38.3	J	12.2	J	19.2	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-11
Sculpin PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Reference SR-08 R-8 10/9/2008		Reference SR-09 R-9 7/24/2008		Reference SR-10 R-10 7/23/2008		Reference SR-11 R-11 3/3/2008		Reference SR-12 R-12 10/9/2008		Reference SR-13 R-13 7/23/2008	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.182		0.166	EMPC	0.360	EMPC	0.231	EMPC	0.185	EMPC	0.231	EMPC
2		0.411	EMPC	0.672	EMPC	0.631	EMPC	0.450		0.483	EMPC	0.440	
3		0.236	EMPC	0.227	EMPC	0.428	EMPC	0.235	EMPC	0.245	EMPC	0.333	EMPC
4		2.10		2.49		4.05	EMPC	2.74		1.50		2.36	
5		0.229	U	0.199	U	0.371	U	0.207	U	0.140	U	0.220	U
6		1.10		1.70		2.18		1.70		0.818		1.75	
7		0.256	EMPC	0.283	EMPC	0.523	EMPC	0.221		0.180		0.218	EMPC
8		4.49		5.79		8.77		5.86		4.02		6.09	
9		0.366	EMPC	0.486		0.854		0.485	EMPC	0.286		0.310	
10		0.213	U	0.187	U	0.345	U	0.195	U	0.131	U	0.207	U
11		135		145		188		153		204		177	
12	12 + 13	0.219	C U	0.865	C EMPC	1.14	C	1.14	C EMPC	0.899	C	0.868	C EMPC
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.214	U	0.185	U	0.346	U	0.192	U	0.130	U	0.205	U
15		1.03		1.48		2.11		1.32		1.20		1.46	
16		4.60		7.35		10.4		7.77		4.10		13.9	
17		11.3		14.6		16.6		13.9		8.35		23.8	
18	18 + 30	21.0	C	31.9	C	35.4	C	32.1	C	18.1	C	53.1	C
19		0.566		0.918		1.90		1.17		0.552		0.986	
20	20 + 28	138	C	132	C	137	C	135	C	120	C	122	C
21	21 + 33	17.3	C	20.2	C	23.1	C	16.2	C	15.6	C	21.2	C
22		18.4		21.4		25.6		19.5		16.6		31.9	
23		0.137	U	0.0960		0.179	U	0.161		0.0764	U	0.165	U
24		0.245		0.421		0.490	EMPC	0.476	EMPC	0.306		0.505	EMPC
25		2.80		2.82		3.63		2.52		2.79		3.72	
26	26 + 29	14.5	C	14.6	C	16.3	C	15.1	C	14.2	C	15.5	C
27		1.25		2.25		2.91		2.21		1.17	EMPC	4.40	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		65.6		60.9		65.1		53.2		56.5		57.6	
32		2.65		3.92		5.34		3.61		1.84		3.38	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.434		0.514	EMPC	0.480		0.494		0.527		0.367	
35		0.141	U	0.0840	U	0.184	U	0.173	EMPC	0.148	EMPC	0.194	EMPC
36		0.117	U	0.0880	EMPC	0.153	U	0.117	EMPC	0.0724	U	0.157	U
37		1.73		3.61		6.08		3.97		2.59		2.41	
38		0.127	U	0.0747	U	0.166	U	0.0917	U	0.129	EMPC	0.217	EMPC
39		0.651	EMPC	0.821		0.842		0.763	EMPC	0.589		1.32	
40	40 + 41 + 71	20.4	C	27.1	C	39.5	C	23.7	C	18.6	C	29.1	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		14.4		24.8		31.6		22.6		0.0810	U	54.5	
43		4.02		5.23		5.78		5.05		4.49		4.26	
44	44 + 47 + 65	140	C	167	C	195	C	184	C	149	C	218	C
45	45 + 51	2.69	C	4.45	C	8.79	C	4.06	C	2.35	C EMPC	3.76	C
46		0.425	EMPC	0.753	EMPC	2.14	EMPC	0.814		0.447	EMPC	0.788	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		18.0		23.4		25.8		21.0		16.4		29.1	
49	49 + 69	135	C	132	C	138	C	154	C	141	C	134	C
50	50 + 53	0.994	C	2.28	C	7.73	C	3.31	C	1.18	C EMPC	4.64	C
51	45 + 51		C45		C45		C45		C45		C45		C45
52		253		285		333		307		315		312	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.0740	EMPC	0.0687	U	0.131	EMPC	0.0833	U	0.0780	EMPC	0.102	EMPC
55		0.283	U	0.256	U	0.278	U	0.313	U	0.214	U	0.381	U
56		13.4		17.7		34.0		15.1		15.1		26.5	
57		1.37		1.22		1.15		1.46		1.43		1.07	EMPC
58		1.14	EMPC	0.941		1.04		0.976		1.03	EMPC	0.607	EMPC
59	59 + 62 + 75	13.1	C	14.7	C	16.7	C	16.4	C	13.9	C	15.5	C
60		84.7		80.6		84.0		113		100		96.9	
61	61 + 70 + 74 + 76	520	C	466	C	493	C	602	C	575	C	574	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		20.9		19.2		20.0		29.3		23.8		20.8	
64		64.5		77.5		89.5		0.0727	U	71.0		77.5	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		393		380		389		536		477		481	
67		3.37		3.13		3.69		3.16		3.69		4.39	
68		3.57		3.39		3.49		4.12		4.16		3.46	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		6.68		5.74		6.17		7.90		8.43		5.17	
73		0.0560	U	0.0595	U	0.0994	U	0.0732	U	0.0593	U	0.0525	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		13.9		13.2		17.8		13.8		17.7		21.3	
78		0.272	U	0.246	U	0.269	U	0.302	U	0.206	U	0.367	U
79		2.53	EMPC	3.07		5.75	EMPC	3.47		2.58	EMPC	7.86	
80		0.244	U	0.529		0.241	U	0.446	EMPC	0.423	EMPC	0.474	
81		1.19	EMPC	1.04	EMPC	1.39	EMPC	1.42	EMPC	0.998	EMPC	1.56	EMPC
82		3.60		5.26		17.9		4.65		4.09		11.8	EMPC
83	83 + 99	1,060	C	940	C	1,220	C	1,720	C	1,490	C	1,290	C
84		7.56		12.8		43.3		12.4		10.8		22.4	
85	85 + 116 + 117	280	C	269	C	335	C	456	C	403	C	368	C
86	86 + 87 + 97 + 108 + 119 + 125	235	C	256	C	366	C	322	C	289	C	411	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	14.9	C	23.7	C	51.1	C	21.8	C	20.0	C	33.8	C
89		0.486	EMPC	0.781	EMPC	1.92	EMPC	0.582		0.598	EMPC	1.29	U
90	90 + 101 + 113	688	C	746	C	925	C	926	C	953	C	1,050	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		176		181		227		262		254		207	
93	93 + 95 + 98 + 100 + 102	166	C	198	C	283	C	232	C	240	C	238	C
94		0.258	U	0.123	U	0.326	U	0.226	U	0.248	U	1.33	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		0.850		0.921		1.60		0.883	EMPC	0.927		1.08	
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		3.11		2.84	EMPC	4.21		3.12		3.45		3.55	
104		0.110	U	0.0526	U	0.137	U	0.0866	U	0.104	U	0.155	U
105		593		531		692		937		828		885	
106		1.45	U	1.47	U	1.86	U	1.65	U	1.60	U	2.45	U
107	107 + 124	31.2	C	28.3	C	33.3	C	36.5	C	46.5	C	41.7	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		139		133		138		220		206		178	
110	110 + 115	425	C	544	C	748	C	585	C	554	C	768	C
111		2.20		1.90		2.61		3.97		2.98		2.97	
112		0.166	U	0.0788	U	0.209	U	0.145	U	0.159	U	0.886	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		37.6		34.7		47.8		68.3		54.4		60.5	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		1,790		1,720		2,190		3,130		2,800		2,790	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		11.8		11.0		13.6		21.6		17.7		12.1	
121		0.184	U	1.13		0.232	U	2.16		1.84		1.28	
122		1.59	U	1.70	U	3.66	EMPC	1.92	U	2.40	EMPC	2.83	U
123		21.6		23.2		29.8		35.8		33.3		47.0	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		3.40		3.35	EMPC	3.80		5.19		5.93		4.83	
127		2.65	EMPC	3.13		4.57	EMPC	5.76		4.70		7.05	

Table H-11
Sculpin PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Reference SR-08 R-8 10/9/2008		Reference SR-09 R-9 7/24/2008		Reference SR-10 R-10 7/23/2008		Reference SR-11 R-11 3/3/2008		Reference SR-12 R-12 10/9/2008		Reference SR-13 R-13 7/23/2008	
128	128 + 166	367	C	353	C	465	C	682	C	550	C	614	C
129	129 + 138 + 160 + 163	2,660	C	2,550	C	3,310	C	4,910	C	4,120	C	5,200	C
130		71.4		72.1		93.2		95.1		88.0		101	
131		1.41		1.48		4.08		1.37		1.72		3.67	EMPC
132		26.3		42.4		120		37.8		39.5		68.6	
133		50.8		48.8		59.8		96.1		76.3		62.4	
134	134 + 143	9.89	C	13.3	C	25.8	C	12.3	C	14.5	C	24.7	C
135	135 + 151 + 154	308	C	359	C	456	C	556	C	484	C	386	C
136		27.3		36.2		58.8		44.2		41.4		44.5	
137		73.3		64.1		106		150		132		168	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	40.8	C	38.1	C	53.3	C	80.6	C	66.6	C	65.5	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		91.2		94.5		135		144		155		155	
142		0.270	U	0.472	U	0.486	U	0.415	U	0.399	U	1.45	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		15.6		17.3		26.1		21.4		21.5		23.7	
145		0.0546	U	0.0551	U	0.184	EMPC	0.0546	U	0.0788	U	0.112	
146		413		421		531		769		645		642	
147	147 + 149	95.5	C	156	C	322	C	164	C	139	C	243	C
148		2.63		2.67		3.11		3.92		3.39		2.59	
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.145	EMPC	0.269	EMPC	0.773		0.268	EMPC	0.226		0.302	EMPC
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.571		0.691		1.02		0.890		0.904		1.07	
153	153 + 168	2,960	C	3,130	C	4,000	C	6,740	C	5,350	C	7,400	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		3.39		3.10		4.40		6.36		4.76		3.29	
156	156 + 157	192	C	178	C	270	C	374	C	322	C	402	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		219		191		265		415		338		383	
159		1.39		1.46		2.68	EMPC	1.83		1.46	EMPC	1.26	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.187	U	0.327	U	0.336	U	0.288	U	0.276	U	1.00	U
162		10.2		8.85		11.6		18.8		15.2		14.1	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		36.5		49.7		57.7		58.0		56.3		55.8	
165		1.98		1.89		2.26		3.87		2.85		2.15	
166	128 + 166		C128		C128		C128		C128		C128		C128
167		73.9		81.1		101		142		136		170	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		2.94	U	3.84	U	4.56	U	5.86	U	3.84	U	5.05	U
170		196		181		281		425		340		297	
171	171 + 173	121	C	112	C	150	C	263	C	190	C	177	C
172		36.5		33.8		49.7		65.1		58.7		46.0	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		15.7		22.8		47.4		21.9		21.9		24.7	
175		7.83		7.42		9.47		12.8		10.1		12.6	
176		2.40		3.50		8.24		3.44		3.43		6.51	
177		65.8		80.4		115		93.7		79.6		127	
178		136		131		159		247		189		193	
179		52.6		68.1		93.6		78.8		74.4		99.4	
180	180 + 193	584	C	576	C	841	C	1,360	C	1,020	C	998	C
181		4.27		3.94		5.73		9.47		7.52		9.42	EMPC
182		2.14		2.23		3.24	EMPC	4.87		3.17		6.30	
183	183 + 185	242	C	233	C	319	C	508	C	379	C	362	C
184		3.47		3.25		4.93		7.63		5.13		3.80	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0565	U	0.0690	U	0.112	U	0.0644	U	0.0647	U	0.384	U
187		509		627		661		844		673		818	
188		1.40	EMPC	1.31		1.67		2.45		1.95		2.45	
189		6.40		5.93		9.63		14.2		11.5		9.74	
190		98.2		98.7		135		227		172		146	
191		10.3		10.2		14.7		25.6		17.5		19.2	
192		0.0960		0.0960		0.121	U	0.199		0.104		0.427	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		53.1		55.1		84.5		130		104		71.4	
195		41.6		44.3		66.2		124		83.2		70.8	
196		32.4		34.7		54.3		90.8		62.5		50.3	
197	197 + 200	8.12	C	8.57	C	12.2	C	20.6	C	14.6	C	13.5	C
198	198 + 199	67.5	C	81.0	C	96.6	C	130	C	112	C	93.6	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		12.2		14.6		17.6		26.8		21.6		27.6	
202		70.4		71.3		84.0		161		120		118	
203		98.9		113		151		290		193		188	
204		0.194	EMPC	0.245		0.212	EMPC	0.401	EMPC	0.315		0.392	EMPC
205		4.93		5.08		7.20		13.0		8.62		8.12	
206		31.0		31.1		46.3		66.0		45.8		42.1	
207		6.60		6.47		10.3		16.2		11.1		9.85	
208		10.1		10.5		13.5		17.9		14.0		13.7	
209		16.8		16.9		23.6		34.6		24.0		20.9	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		18.2	J	18.5	J	24.0	J	32.4	J	27.6	J	31.5	J
Total PCBs as Congeners (KM-based)		18.1	J	18.4	J	24.0	J	32.4	J	27.5	J	31.5	J
Total PCBs as Congeners (KM-based, capped)		18.1	J	18.4	J	24.0	J	32.4	J	27.5	J	31.5	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-11
Sculpin PCB Congener Analysis Results

IUPAC #	COELUTING CONGENERS[1]	Reference SR-14 R-14 10/10/2008		Reference SR-15 R-15 10/9/2008		Reference SR-16 R-16 10/10/2008		Reference SR-17 R-17 10/9/2008		Reference SR-18 R-18 7/24/2008		Forebay - Goose Island P110 090429110S C 4/29/2009	
Individual Congeners in pg/g (ng/kg), wet weight													
1		0.368	EMPC	0.175		0.163	EMPC	0.234	EMPC	0.228		0.437	EMPC
2		0.523		0.295	EMPC	0.396	EMPC	0.589		0.447	EMPC	0.294	
3		0.471	EMPC	0.231	EMPC	0.241		0.274	EMPC	0.238		0.388	EMPC
4		2.46	EMPC	1.29		1.88		1.80		1.94		3.87	EMPC
5		0.605	U	0.290	U	0.251	U	0.245	U	0.407	U	0.519	U
6		1.36	EMPC	0.637		1.10		1.08		1.23	EMPC	2.16	
7		0.572	U	0.268	U	0.233		0.298	EMPC	0.375	U	0.485	U
8		5.51		2.81		4.46		5.31		5.02		7.58	
9		0.560	EMPC	0.259	U	0.272		0.380		0.406	EMPC	0.540	EMPC
10		0.562	U	0.273	U	0.236	U	0.230	U	0.383	U	0.462	U
11		183		109		177		264		139		34.1	
12	12 + 13	0.580	C U	0.694	C	0.239	C U	0.233	C U	0.388	C U	0.534	C U
13	12 + 13		C12		C12		C12		C12		C12		C12
14		0.565	U	0.270	U	0.233	U	0.227	U	0.378	U	0.507	U
15		1.10	EMPC	0.932		1.15	EMPC	1.88	EMPC	1.41		1.05	EMPC
16		7.31		2.89		6.85		5.43		6.97		8.56	
17		12.9		5.33		9.92		12.2		11.4		17.8	
18	18 + 30	28.1	C	13.2	C	23.7	C	27.9	C	26.3	C	37.6	C
19		1.03	EMPC	0.573		0.674		0.444		1.05	EMPC	1.26	
20	20 + 28	142	C	67.2	C	76.9	C	155	C	117	C	155	C
21	21 + 33	21.3	C	8.28	C	12.8	C	23.4	C	17.2	C	29.7	C
22		23.5		8.69		15.4		21.2		16.8		23.1	
23		0.210	U	0.171	U	0.233	U	0.152	EMPC	0.142	EMPC	0.143	EMPC
24		0.398		0.201		0.262	EMPC	0.357	EMPC	0.360		0.644	EMPC
25		3.39		1.33		2.14		3.37		2.69		2.42	
26	26 + 29	16.4	C	7.57	C	9.32	C	17.9	C	13.9	C	14.2	C
27		2.01		0.839		1.73		1.70		1.90		3.15	
28	20 + 28		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18
31		70.6		27.5		38.7		80.1		55.9		38.0	
32		3.64		1.12		1.70	EMPC	3.30		3.40		9.17	
33	21 + 33		C21		C21		C21		C21		C21		C21
34		0.201	U	0.225	EMPC	0.349	EMPC	0.612		0.527		0.537	
35		0.215	U	0.183	U	0.248	U	0.199	EMPC	0.142	U	0.123	U
36		0.179	U	0.162	U	0.221	U	0.146	EMPC	0.126	U	0.107	U
37		2.13		2.50		2.79	EMPC	3.33		2.64		2.36	
38		0.194	U	0.162	U	1.25	U	0.268	EMPC	0.126	U	0.108	U
39		0.948		0.279	EMPC	0.496		0.948	EMPC	0.739		0.556	
40	40 + 41 + 71	33.4	C	8.80	C	12.8	C	22.3	C	22.5	C	35.1	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40
42		31.5		6.15		14.3		11.7		18.2		15.6	
43		5.61		2.25		2.41		5.71		4.45		5.01	
44	44 + 47 + 65	196	C	70.2	C	87.6	C	156	C	142	C	104	C
45	45 + 51	5.36	C	1.39	C EMPC	2.41	C	2.93	C	4.54	C	4.24	C
46		1.09		0.248	EMPC	0.225		0.394	EMPC	0.963	EMPC	0.608	EMPC
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44
48		26.3		7.80		11.5		18.9		18.6		15.2	
49	49 + 69	148	C	61.2	C	65.0	C	146	C	117	C	92.5	C
50	50 + 53	2.89	C	0.790	C	1.70	C	0.234	C EMPC	3.02	C EMPC	1.99	C EMPC
51	45 + 51		C45		C45		C45		C45		C45		C45
52		356		143		157		374		296		161	
53	50 + 53		C50		C50		C50		C50		C50		C50
54		0.152	U	0.0919	U	0.0958	U	0.166	EMPC	0.132	EMPC	0.130	U
55		0.618	U	0.358	U	0.328	U	0.409	U	0.401	U	6.82	
56		25.7		7.88		11.5		17.8		23.0		17.1	
57		1.60	EMPC	0.745		0.639		1.70		1.23		0.714	
58		1.55	EMPC	0.517	EMPC	0.567	EMPC	1.23	EMPC	0.762	EMPC	0.752	U
59	59 + 62 + 75	17.7	C	6.41	C	4.90	C	14.7	C	12.8	C	10.4	C
60		91.3		68.7		48.3		123		95.7		62.1	
61	61 + 70 + 74 + 76	575	C	332	C	293	C	660	C	490	C	249	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59
63		21.3		20.9		12.8		24.6		20.4		12.2	
64		94.3		31.3		36.4		80.3		65.3		51.4	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44
66		432		342		244		524		381		236	
67		4.19		1.52		2.28		4.26		2.86		1.60	
68		5.28		3.06		2.30	EMPC	5.20		3.34		0.811	
69	49 + 69		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40
72		7.11		4.59		3.79		8.47		6.59		3.30	
73		0.135	U	0.0820	U	0.0832	U	0.0585	U	0.0940	U	0.103	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61
77		19.4		16.0		14.0		25.9		13.2		7.99	
78		0.596	U	0.344	U	0.316	U	0.394	U	0.386	U	0.772	U
79		4.54		2.03	EMPC	2.89		3.58		5.94		0.997	
80		0.785	EMPC	0.428	EMPC	0.287	U	0.662		0.567	EMPC	0.675	U
81		1.57	EMPC	1.49	EMPC	0.829	EMPC	2.21	EMPC	1.22	EMPC	0.882	EMPC
82		10.4		2.35		3.81		2.79	EMPC	10.2	EMPC	4.24	EMPC
83	83 + 99	1,040	C	1,160	C	664	C	1,670	C	1,080	C	398	C
84		27.0		5.05		8.10		8.84		18.7		4.60	
85	85 + 116 + 117	300	C	290	C	213	C	450	C	308	C	132	C
86	86 + 87 + 97 + 108 + 119 + 125	403	C	148	C	170	C	279	C	300	C	103	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
88	88 + 91	45.1	C	7.63	C	12.8	C	22.4	C	25.0	C	5.64	C
89		1.75	EMPC	0.306	U	0.497		1.23	EMPC	1.27	U	0.343	U
90	90 + 101 + 113	1,150	C	397	C	445	C	1,050	C	823	C	176	C
91	88 + 91		C88		C88		C88		C88		C88		C88
92		253		115		104		281		215		56.4	
93	93 + 95 + 98 + 100 + 102	268	C	90.3	C	124	C	261	C	230	C	73.0	C
94		0.607	U	0.318	U	0.198	U	0.265	U	1.30	U	0.345	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
96		1.50		0.350		0.390	U	1.22		1.16		0.509	EMPC
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93
103		5.31		1.10	EMPC	1.46	EMPC	3.56		3.61	EMPC	0.749	EMPC
104		0.150	U	0.144	U	0.171	U	0.111	U	0.262	U	0.119	U
105		614		694		442		908		717		362	
106		2.16	U	2.76	U	1.67	U	2.37	U	2.21	U	0.851	U
107	107 + 124	41.1	C	18.9	C	26.1	C	58.2	C	30.9	C	12.9	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
109		151		201		125		210		160		53.1	
110	110 + 115	889	C	216	C	363	C	693	C	566	C	186	C
111		2.36		3.56		1.92		3.11		2.04	EMPC	1.00	
112		0.389	U	0.204	U	0.127	U	0.170	U	0.870	U	0.231	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		40.3		64.4		33.7		57.8		43.9		22.0	
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		1,920		3,110		1,610		2,850		1,930		872	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		12.6		18.3		10.0		17.9		11.8		3.45	
121		1.28	EMPC	1.24	EMPC	0.795		1.80		1.22		0.455	
122		2.38	U	3.21	U	1.94	U	2.75	U	10.3	EMPC	1.04	U
123		32.0	EMPC	42.3		21.9		40.2		31.3		16.3	
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		5.20		4.93		3.13		5.52		3.91		3.15	
127		2.20	U	7.99	EMPC	3.94		7.91		4.02	EMPC	1.51	EMPC

Table H-11
Sculpin PCB Congener Analysis Results
(Page 12 of 12)

IUPAC #	COELUTING CONGENERS[1]	Reference SR-14 R-14 10/10/2008		Reference SR-15 R-15 10/9/2008		Reference SR-16 R-16 10/10/2008		Reference SR-17 R-17 10/9/2008		Reference SR-18 R-18 7/24/2008		Forebay - Goose Island P110 090429110S C 4/29/2009	
128	128 + 166	391	C	570	C	344	C	653	C	519	C	194	C
129	129 + 138 + 160 + 163	2,960	C	4,940	C	2,800	C	5,620	C	4,110	C	1,130	C
130		127		48.8		56.5		102		102		18.2	
131		3.25		0.829	EMPC	1.82	EMPC	2.13		2.35	EMPC	0.798	U
132		101		18.0		32.1		47.5		66.9		10.7	
133		54.9		78.8		46.1		79.4		70.2		16.8	
134	134 + 143	1.62	C U	5.99	C	0.467	C U	17.9	C	19.5	C	2.28	C
135	135 + 151 + 154	479	C	219	C	235	C	460	C	438	C	94.7	C
136		62.9		15.6		20.2		47.6		44.5		9.96	
137		76.0		163		80.0		146		105		33.1	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	42.9	C	60.8	C	35.4	C	71.5	C	57.0	C	15.6	C
140	139 + 140		C139		C139		C139		C139		C139		C139
141		138		90.1		81.9		188		1.55	U	49.7	
142		1.61	U	0.524	U	0.465	U	0.557	U	1.75	U	0.812	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		35.6		7.52		11.6		21.3		21.1		4.25	
145		0.160	U	0.0861	U	0.0872	U	0.0896	U	0.132	U	0.113	U
146		517		627		410		661		617		114	
147	147 + 149	315	C	64.2	C	119	C	158	C	225	C	38.4	C
148		4.41		1.17		1.65		3.16		3.46		0.473	EMPC
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.524	EMPC	0.126		0.106		0.242		0.258		0.107	U
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		1.00		0.427	EMPC	0.225	EMPC	1.16	EMPC	0.828	EMPC	0.254	EMPC
153	153 + 168	3,230	C	6,360	C	4,080	C	5,380	C	4,970	C	1,050	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		3.71		4.95		2.35	EMPC	5.48		4.10		1.20	EMPC
156	156 + 157	203	C	402	C	193	C	350	C	257	C	106	C
157	156 + 157		C156		C156		C156		C156		C156		C156
158		215		356		194		395		314		86.7	
159		3.35		1.54	EMPC	1.07	EMPC	2.56		2.40		0.567	U
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		1.12	U	0.363	U	0.323	U	0.386	U	1.21	U	0.570	U
162		10.1		19.4		9.38		17.2		13.7		4.48	
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		71.6		21.2		34.3		68.2		66.0		23.4	
165		1.91		3.33	EMPC	1.75		3.18	EMPC	2.26		0.718	
166	128 + 166		C128		C128		C128		C128		C128		C128
167		96.8		146		91.0		139		99.2		34.8	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		3.66	U	9.29	U	4.88	U	7.12	U	4.67	U	1.31	U
170		205		398		186		342		252		113	
171	171 + 173	120	C	221	C	108	C	194	C	150	C	47.8	C
172		41.6		56.0		31.3	EMPC	60.0		48.7		17.4	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		49.3		15.4		14.2		31.4		30.5		8.12	
175		12.1		9.08		6.65		11.8		11.5		2.37	
176		8.71		1.82	EMPC	2.90	EMPC	4.44		4.85	EMPC	0.687	
177		155		50.7		63.3		94.0		88.8		19.3	
178		159		195		115		196		173		41.6	
179		123		31.6		48.6		96.2		79.0		11.5	
180	180 + 193	630	C	1,510	C	670	C	1,020	C	756	C	264	C
181		4.38	EMPC	10.8	EMPC	5.26	EMPC	6.52		7.05		1.52	
182		2.74		5.63		4.19	EMPC	3.01	EMPC	7.02	EMPC	1.28	EMPC
183	183 + 185	273	C	445	C	239	C	396	C	316	C	89.0	C
184		3.62		6.29		3.05	EMPC	6.34		4.22		0.886	
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.154	U	0.417	U	0.352	U	0.402	U	0.332	U	0.149	U
187		889		668		515		700		723		200	
188		2.32		2.02		1.51		1.92		2.28		0.414	EMPC
189		6.90		15.4		8.20		11.0	EMPC	9.20		3.83	
190		102		229		101		158		120		44.0	
191		11.0		32.9		14.5		19.3		16.5		5.34	
192		0.167	U	0.464	U	0.392	U	0.447	U	0.369	U	0.157	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		56.8		144		67.3		107		74.8		35.7	
195		43.5		127		56.8		77.0		59.6		23.6	
196		38.0		95.7		40.4		60.8		46.6		19.6	
197	197 + 200	10.8	C	18.6	C	9.27	C	15.7	C	11.2	C	3.63	C
198	198 + 199	99.5	C	107	C	70.8	C	109	C	99.0	C	45.2	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		20.1		21.6		16.9		20.7		18.8		3.32	
202		74.1		129		72.3		115		86.6		26.9	
203		111		274		141		184		137		60.7	
204		0.174		0.367	U	0.364	U	0.368	U	0.482	EMPC	0.132	
205		5.00		12.3		5.91		8.02		6.69		3.29	
206		30.8		63.1		35.6		49.3		37.6		21.3	
207		6.81		15.9		8.05		9.45		8.40		3.24	
208		12.4		13.5		9.81		13.4		11.9		6.62	
209		15.8		30.6		17.2		24.2		20.4		11.0	
Total PCBs as Congeners in ug/kg, wet weight													
Total PCBs as Congeners (full EMPC/full SDL)		22.3	J	27.2	J	17.4	J	30.6	J	24.3	J	8.17	J
Total PCBs as Congeners (KM-based)		22.3	J	27.2	J	17.3	J	30.5	J	24.2	J	8.14	J
Total PCBs as Congeners (KM-based, capped)		22.3	J	27.2	J	17.3	J	30.5	J	24.2	J	8.14	J

Notes:

C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
ng/kg = nanogram/kilogram
ug/kg = micrograms/kilogram
pg/g = picograms/gram

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
RDL = Reported detection limit
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-12
High-Volume Surface Water PCB Congener Analysis Results
(Page 1 of 6)

		Forebay - P52		Forebay - P53		Forebay - P54	
IUPAC #	COELUTING CONGENERS[1]	08021252XAD 2/12/2008 (Filter)	08021252XAD 2/12/2008 (Column)	08022453XAD 2/24/2008 (Filter)	08022453XAD 2/24/2008 (Column)	08021354XAD 2/13/2008 (Filter)	08021354XAD 2/13/2008 (Column)
1		0.13	0.385	0.021 U	0.191	0.051 U	0.267
2		0.265	0.371	0.042 U	0.27	0.125	0.293
3		0.201	0.324	0.041 U	0.162 U	0.14	0.249
4		0.02 U	0.369	0.063 U	0.409	0.082 U	0.42
5		0.007 U	0.014 EMPC	0.004 U	0.022	0.0069 U	0.012
6		0.009 U	0.101	0.0037 U	0.115	0.011 U	0.109
7		0.011 U	0.036 U	0.009 U	0.031 U	0.0064 U	0.033 U
8		0.043 U	0.416	0.0034 U	0.518	0.051 U	0.487
9		0.007 U	0.029 U	0.005 U	0.039	0.0061 U	0.039
10		0.0058 U	0.015 EMPC	0.006	0.017	0.011 EMPC	0.021
11		4.12	83.5	10.8	137	7.16	82.4
12	12 + 13	0.054 C	0.0091 C U	0.004 C U	0.0051 C U	0.0069 C U	0.0049 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.0067 U	0.009	0.0038 U	0.01	0.0064 U	0.008
15		0.054 U	0.654	0.07 U	0.741	0.073 U	0.531
16		0.034 U	0.261	0.039 U	0.287	0.034 U	0.279
17		0.032 U	0.24	0.104	0.267	0.11	0.253
18	18 + 30	0.071 C U	0.588 C	0.104 C U	0.637 C	0.079 C U	0.64 C
19		0.01 U	0.097	0.208	0.1	0.306	0.101
20	20 + 28	0.165 C U	0.67 C	0.259 C	0.741 C	0.216 C	0.656 C
21	21 + 33	0.053 C U	0.269 C	0.096 C U	0.3 C	0.081 C U	0.257 C
22		0.051 U	0.25	0.077 EMPC	0.271	0.068	0.235
23		0.0017 U	0.006 U	0.004 U	0.003 U	0.018 U	0.0038 U
24		0.0014 U	0.015 EMPC	0.0008 U	0.014 EMPC	0.0014 U	0.012 EMPC
25		0.01 U	0.047 EMPC	0.028	0.052	0.028	0.044
26	26 + 29	0.023 C U	0.112 C	0.046 C	0.126 C	0.041 C	0.116 C
27		0.007 U	0.045	0.062	0.051	0.074	0.05
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		0.121 U	0.532	0.178	0.632	0.148	0.555
32		0.015 U	0.121	0.066	0.14	0.078	0.138
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.0016 U	0.005 U	0.006 U	0.003 U	0.016 U	0.0038 U
35		0.018	0.079	0.035	0.121	0.028	0.081
36		0.006 EMPC	0.02 EMPC	0.009	0.031	0.003 EMPC	0.02
37		0.057 U	0.12	0.082	0.147	0.078 EMPC	0.121
38		0.0017 U	0.0049 U	0.004 EMPC	0.003 EMPC	0.02 EMPC	0.007
39		0.0017 U	0.006 EMPC	0.002	0.0029 U	0.0028 U	0.0037 U
40	40 + 41 + 71	0.081 C	0.21 C	0.204 C	0.213 C	0.223 C	0.198 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		0.037	0.101	0.082	0.113	0.083	0.097
43		0.004 EMPC	0.0033 U	0.025	0.027	0.03	0.021
44	44 + 47 + 65	0.202 C U	0.53 C	1.61 C	0.707 C	1.95 C	0.506 C U
45	45 + 51	0.031 C U	0.096 C U	0.381 C	0.11 C U	0.483 C	0.088 C U
46		0.006 U	0.033	0.023 EMPC	0.035 EMPC	0.022 EMPC	0.032
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		0.03	0.0027 U	0.051	0.0013 U	0.047	0.085
49	49 + 69	0.104 C	0.289 C	0.484 C	0.309 C	0.574 C	0.275 C
50	50 + 53	0.021 C	0.083 C EMPC	0.262 C	0.08 C	0.344 C	0.085 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		0.254	0.878	0.629	0.941	0.629	0.856
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.002 U	0.004 U	0.121	0.002 U	0.175	0.004 U
55		0.005 EMPC	0.0096 U	0.0051 U	0.006 EMPC	0.009 EMPC	0.01
56		0.101	0.121 EMPC	0.135	0.147	0.125	0.12
57		0.0045 U	0.009 U	0.005	0.0055 U	0.01	0.0061 U
58		0.0047 U	0.0091 U	0.0052 U	0.0056 U	0.0048 U	0.0061 U
59	59 + 62 + 75	0.016 C	0.045 C	0.076 C	0.047 C	0.086 C	0.046 C EMPC
60		0.056 EMPC	0.076	0.073	0.086	0.065	0.074
61	61 + 70 + 74 + 76	0.429 C	0.669 C	0.574 C	0.744 C	0.558 C	0.664 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		0.009	0.019 EMPC	0.012	0.017	0.015 EMPC	0.009
64		0.083	0.201	0.118	0.225	0.106	0.198
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		0.23	0.276	0.314	0.277	0.319	0.283
67		0.007 EMPC	0.01	0.006	0.012	0.009 EMPC	0.0055 U
68		0.007 U	0.014 U	0.022 U	0.021 U	0.025 U	0.0065 U
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		0.0044 U	0.0089 U	0.008 EMPC	0.0054 U	0.012	0.006 U
73		0.0015 U	0.015 EMPC	0.027	0.016	0.038	0.003
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		0.031 U	0.033 U	0.056	0.077 EMPC	0.046	0.033 U
78		0.005 U	0.0096 U	0.0055 U	0.0059 U	0.0051 U	0.0064 U
79		0.008 EMPC	0.0085 U	0.013	0.009 EMPC	0.013	0.0057 U
80		0.004 U	0.0083 U	0.0044 U	0.0051 U	0.0045 U	0.0056 U
81		0.0045 U	0.0098 U	0.0052 U	0.0059 U	0.006 U	0.0064 U
82		0.06	0.047	0.082	0.063	0.073	0.049 EMPC
83	83 + 99	0.295 C	0.257 C	0.922 C	0.31 C	0.973 C	0.243 C
84		0.091	0.147	0.19	0.168	0.202	0.141
85	85 + 116 + 117	0.101 C	0.065 C EMPC	0.178 C	0.104 C	0.173 C	0.076 C
86	86 + 87 + 97 + 108 + 119 + 125	0.358 C	0.339 C	0.717 C	0.463 C	0.685 C	0.332 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	0.057 C	0.069 C EMPC	0.202 C	0.071 C	0.249 C	0.065 C EMPC
89		0.005 EMPC	0.006 EMPC	0.007 EMPC	0.007 EMPC	0.009 EMPC	0.005 EMPC
90	90 + 101 + 113	0.542 C	0.54 C	1.54 C	0.633 C	1.78 C	0.505 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		0.108	0.104	0.337	0.117	0.421	0.1
93	93 + 95 + 98 + 100 + 102	0.323 C	0.548 C	1.25 C	0.627 C	1.43 C	0.51 C
94		0.0025 U	0.004	0.054	0.003 U	0.079	0.0025 U
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
96		0.003	0.004	0.026	0.005 EMPC	0.028	0.002 EMPC
97	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
98	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
99	83 + 99	C83	C83	C83	C83	C83	C83
100	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
101	90 + 101 + 113	C90	C90	C90	C90	C90	C90
102	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
103		0.003	0.0029 U	0.062	0.0024 U	0.082	0.003 EMPC
104		0.001 U	0.002 U	0.022 U	0.001 U	0.035 EMPC	0.0012 U
105		0.221	0.119	0.339	0.163	0.332	0.114
106		0.0039 U	0.0049 U	0.0049 U	0.007	0.0097 U	0.0038 U
107	107 + 124	0.023 C	0.01 C EMPC	0.037 C EMPC	0.021 C EMPC	0.035 C	0.017 C EMPC
108	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
109		0.046	0.034	0.075	0.041 EMPC	0.078	0.027 EMPC
110	110 + 115	0.644 C	0.575 C	1.08 C	0.721 C	1.04 C	0.551 C
111		0.0018 U	0.0025 U	0.003	0.0021 U	0.0012 U	0.0017 U

Table H-12
High-Volume Surface Water PCB Congener Analysis Results
(Page 2 of 6)

		Forebay - P52				Forebay - P53				Forebay - P54			
IUPAC #	COELUTING CONGENERS[1]	08021252XAD 2/12/2008 (Filter)		08021252XAD 2/12/2008 (Column)		08022453XAD 2/24/2008 (Filter)		08022453XAD 2/24/2008 (Column)		08021354XAD 2/13/2008 (Filter)		08021354XAD 2/13/2008 (Column)	
112		0.0018	U	0.0025	U	0.0017	U	0.0021	U	0.072		0.0017	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		0.017	U	0.012	U	0.02	U	0.009	U	0.025	U	0.008	U
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		0.518		0.36		1.07		0.499		0.947		0.325	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		0.0017	U	0.0023	U	0.007		0.002	U	0.009	EMPC	0.0016	U
121		0.0018	U	0.0024	U	0.007		0.0021	U	0.009		0.0017	U
122		0.008	EMPC	0.0053	U	0.01	EMPC	0.0034	U	0.0106	U	0.0041	U
123		0.013	U	0.007	U	0.017	U	0.009	EMPC	0.018	U	0.0037	U
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		0.004	U	0.0054	U	0.0057	U	0.006	U	0.0112	U	0.0042	U
127		0.0041	U	0.0047	U	0.0051	U	0.003	U	0.0097	U	0.0036	U
128	128 + 166	0.13	C	0.04	C	0.344	C	0.053	C	0.389	C	0.036	C
129	129 + 138 + 160 + 163	0.864	C	0.288	C	4.18	C	0.379	C	4.43	C	0.246	C
130		0.052		0.019		0.15		0.024		0.159		0.018	
131		0.008		0.004	U	0.024		0.006	EMPC	0.024	EMPC	0.003	U
132		0.209		0.094		0.74		0.115		0.799		0.081	
133		0.015	EMPC	0.0038	U	0.061		0.007	U	0.076		0.006	U
134	134 + 143	0.038	C	0.019	C EMPC	0.134	C	0.021	C	0.175	C	0.017	C
135	135 + 151 + 154	0.209	C	0.124	C	1.19	C	0.116	C	1.6	C	0.105	C
136		0.063	EMPC	0.038		0.32		0.039		0.393		0.031	
137		0.04		0.012	EMPC	0.08		0.015		0.07	EMPC	0.009	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	0.012	C	0.0036	C U	0.027	C EMPC	0.008	C	0.031	C	0.003	C EMPC
140	139 + 140		C139		C139		C139		C139		C139		C139
141		0.129		0.044		0.8		0.05		1		0.039	
142		0.0023	U	0.004	U	0.009	U	0.0014	U	0.012	U	0.003	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		0.027		0.016		0.143		0.014	EMPC	0.188		0.012	
145		0.0008	U	0.0015	U	0.001	EMPC	0.0011	U	0.002	EMPC	0.0013	U
146		0.115		0.047		0.563		0.055		0.686		0.044	
147	147 + 149	0.54	C	0.257	C	2.75	C	0.275	C	2.94	C	0.228	C
148		0.002		0.0018	U	0.012		0.0013	U	0.016		0.0016	U
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.001	EMPC	0.0014	U	0.011		0.001	U	0.016		0.0012	U
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.001	EMPC	0.0013	U	0.011		0.001	U	0.017		0.0012	U
153	153 + 168	0.686	C	0.261	C	4.13	C	0.301	C	4.99	C	0.214	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.002	U	0.002	U	0.006	U	0.001	U	0.011	U	0.002	U
156	156 + 157	0.085	C	0.026	C U	0.319	C	0.036	C	0.359	C	0.023	C U
157	156 + 157		C156		C156		C156		C156		C156		C156
158		0.07		0.029		0.284		0.031		0.351		0.021	EMPC
159		0.008	EMPC	0.0027	U	0.036	EMPC	0.003	EMPC	0.056		0.002	U
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.0016	U	0.0027	U	0.0062	U	0.001	U	0.0085	U	0.0021	U
162		0.0017	U	0.0029	U	0.0068	U	0.001	U	0.0088	U	0.0022	U
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		0.056		0.018		0.169		0.025		0.209		0.014	
165		0.0019	U	0.0031	U	0.0072	U	0.0011	U	0.0096	U	0.0023	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		0.033		0.014		0.139		0.013		0.148		0.01	
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.0017	U	0.0029	U	0.0066	U	0.0014	U	0.0088	U	0.0021	U
170		0.161		0.033		1.51		0.032		2.08		0.019	U
171	171 + 173	0.056	C EMPC	0.011	C	0.398	C	0.011	C EMPC	0.539	C	0.006	C EMPC
172		0.028		0.009	EMPC	0.247		0.006		0.343		0.006	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		0.168		0.051	U	0.878		0.046	U	1.18		0.03	U
175		0.008	EMPC	0.0016	U	0.047		0.001	EMPC	0.069		0.002	EMPC
176		0.019		0.008	EMPC	0.131		0.006	EMPC	0.178		0.005	EMPC
177		0.121	EMPC	0.033		0.835		0.03		1.19		0.023	
178		0.043		0.016		0.245		0.015	EMPC	0.337		0.011	EMPC
179		0.068		0.023	EMPC	0.391		0.02		0.499		0.015	
180	180 + 193	0.359	C	0.115	C U	3.51	C	0.107	C U	4.82	C	0.061	C U
181		0.001	U	0.0016	U	0.006		0.0012	U	0.012		0.0014	U
182		0.002	U	0.002	U	0.008	U	0.002	U	0.012	U	0.0013	U
183	183 + 185	0.129	C	0.04	C EMPC	0.907	C	0.039	C U	1.27	C	0.023	C U
184		0.002	EMPC	0.0011	U	0.003	EMPC	0.0009	U	0.002	EMPC	0.001	U
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.0008	U	0.0012	U	0.0009	U	0.0009	U	0.0009	U	0.0011	U
187		0.265		0.112	U	1.7		0.09	U	2.47		0.07	U
188		0.002	U	0.001	U	0.004	U	0.0008	U	0.008	U	0.0009	U
189		0.007	U	0.004	U	0.064		0.0022	U	0.09	EMPC	0.0025	U
190		0.038		0.008		0.287		0.009		0.409		0.006	EMPC
191		0.01	EMPC	0.002	EMPC	0.055		0.0009	U	0.076		0.001	U
192		0.0009	U	0.0014	U	0.001	U	0.001	U	0.001	U	0.0012	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		0.075		0.032	U	0.656		0.029	U	0.88		0.01	U
195		0.028		0.008		0.241		0.01	EMPC	0.302		0.005	EMPC
196		0.038		0.031		0.257		0.027		0.374		0.013	U
197	197 + 200	0.014	C EMPC	0.016	C EMPC	0.064	C	0.013	C EMPC	0.09	C	0.006	C
198	198 + 199	0.099	C EMPC	0.101	C U	0.489	C	0.102	C	0.711	C	0.041	C U
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		0.012	EMPC	0.012	EMPC	0.049		0.013		0.078		0.006	EMPC
202		0.028	EMPC	0.024	EMPC	0.077		0.023		0.109		0.01	U
203		0.063		0.075		0.331		0.081		0.466		0.03	EMPC
204		0.0008	U	0.001	U	0.0008	U	0.001	U	0.001		0.0009	U
205		0.003	U	0.003	U	0.033		0.003	U	0.048		0.002	U
206		0.054		0.034		0.118		0.036		0.15		0.018	EMPC
207		0.008		0.014	EMPC	0.016		0.016	EMPC	0.021	EMPC	0.0048	U
208		0.021	U	0.034		0.028		0.028	U	0.035		0.011	U
209		0.067		0.017	U	0.071		0.012	U	0.073		0.012	U
Total PCBs as Congeners (full EMPC/full SDL)		16.3	J	99.0	J	56.4	J	154	J	62.1	J	96.9	J
Total PCBs as Congeners (KM-based)		14.7	J	97.7	J	55.7	J	153	J	61.2	J	95.7	J
Total PCBs as Congeners (KM-based, capped)		14.7	J	97.7	J	55.7	J	153	J	61.2	J	95.7	J

Notes:

All results are in units of pg/L (picograms/Liter)
C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
RDL = Reported detection limit

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-12
High-Volume Surface Water PCB Congener Analysis Results
(Page 3 of 6)

		Forebay - P55				Forebay - P56				Reference - P57				Reference - P58			
IUPAC #	COELUTING CONGENERS[1]	08022555XAD 2/25/2008 (Filter)		08022555XAD 2/25/2008 (Column)		08022156XAD 2/26/2008 (Filter)		08022156XAD 2/26/2008 (Column)		08022757XAD 2/27/2008 (Filter)		08022757XAD 2/27/2008 (Column)		08030758XAD 3/7/2008 (Filter)		08030758XAD 3/7/2008 (Column)	
1		0.019	U	0.197		0.026	U	0.211		0.01	U	0.164		0.016	U	0.185	
2		0.055		0.256		0.069		0.282		0.033	U	0.291		0.034	U	0.236	
3		0.033	U	0.133		0.057	U	0.192	U	0.016	U	0.132		0.028	U	0.135	
4		0.03	U	0.43		0.033	U	0.496		0.024	U	0.364		0.024	U	0.392	
5		0.0065	U	0.02		0.0053	U	0.02		0.0071	U	0.023		0.005	U	0.013	
6		0.011	U	0.108		0.017	U	0.127		0.009	U	0.114		0.012	U	0.106	
7		0.013	U	0.034	U	0.015	U	0.038	U	0.008	U	0.029	U	0.005	U	0.037	U
8		0.055	U	0.487		0.09	U	0.487		0.045	U	0.497		0.056	U	0.501	
9		0.007	U	0.037		0.006	U	0.045		0.0063	U	0.038		0.0045	U	0.037	
10		0.0054	U	0.016		0.0045	U	0.021	EMPC	0.006	U	0.018		0.0042	U	0.017	
11		9.26		139		9.18		125		13.3		140		7.85		91.6	
12	12 + 13	0.0065	C U	0.0054	C U	0.0053	C U	0.0052	C U	0.0071	C U	0.0081	C U	0.005	C U	0.385	C
13	12 + 13		C12		C12		C12		C12		C12		C12		C12		C12
14		0.0061	U	0.011		0.005	U	0.009	EMPC	0.0067	U	0.0077	U	0.0047	U	0.01	
15		0.065	U	0.586	EMPC	0.141		0.275	U	0.044	U	0.261		0.056	U	0.761	
16		0.032	U	0.295		0.074		0.287		0.031	U	0.288		0.038	U	0.289	
17		0.035	U	0.261		0.073		0.292		0.039	U	0.244		0.039	U	0.25	
18	18 + 30	0.081	C U	0.647	C	0.146	C U	0.666	C	0.072	C U	0.6	C	0.088	C U	0.646	C
19		0.014	U	0.097		0.018	U	0.106		0.013	U	0.093		0.014	U	0.091	
20	20 + 28	0.202	C	0.745	C	0.452	C	0.717	C	0.198	C	0.655	C	0.205	C	1.02	C
21	21 + 33	0.073	C U	0.284	C	0.198	C	0.283	C	0.082	C U	0.306	C	0.08	C U	0.0022	C U
22		0.069	EMPC	0.29		0.158		0.268		0.07		0.283		0.076		0.267	
23		0.0018	U	0.004	U	0.0022	U	0.004	U	0.002	U	0.0057	U	0.0029	U	0.0025	U
24		0.001	EMPC	0.012		0.003	EMPC	0.013	EMPC	0.0018	U	0.011		0.002		0.012	
25		0.013	U	0.047	EMPC	0.029		0.044		0.013	U	0.05		0.012	U	0.049	
26	26 + 29	0.029	C U	0.125	C	0.064	C	0.127	C	0.027	C U	0.123	C	0.028	C U	0.124	C
27		0.007	U	0.051		0.014		0.05		0.007	U	0.047		0.007	U	0.054	
28	20 + 28		C20		C20		C20		C20		C20		C20		C20		C20
29	26 + 29		C26		C26		C26		C26		C26		C26		C26		C26
30	18 + 30		C18		C18		C18		C18		C18		C18		C18		C18
31		0.156		0.61		0.356		0.609		0.151		0.559		0.156		0.612	
32		0.018	U	0.142		0.032	U	0.141		0.016	U	0.145	EMPC	0.026	U	0.149	
33	21 + 33		C21		C21		C21		C21		C21		C21		C21		C21
34		0.0018	U	0.006	U	0.0022	U	0.006	U	0.003	U	0.0057	U	0.0029	U	0.003	U
35		0.029	EMPC	0.122		0.038		0.101		0.043		0.11		0.03	EMPC	0.091	
36		0.009	EMPC	0.029		0.009		0.032		0.01		0.025		0.007		0.021	
37		0.061	U	0.124		0.12		0.131		0.065		0.127		0.071		0.146	
38		0.0019	U	0.0039	U	0.006	EMPC	0.006	EMPC	0.002	EMPC	0.0056	U	0.0031	U	0.013	EMPC
39		0.002		0.006	EMPC	0.003	EMPC	0.0035	U	0.002	EMPC	0.0056	U	0.003	U	0.005	
40	40 + 41 + 71	0.091	C	0.215	C	0.153	C	0.196	C	0.097	C	0.185	C	0.098	C	0.219	C
41	40 + 41 + 71		C40		C40		C40		C40		C40		C40		C40		C40
42		0.057		0.113		0.084		0.101		0.055		0.102		0.065		0.123	
43		0.008	EMPC	0.022	EMPC	0.014	EMPC	0.0024	U	0.007	EMPC	0.017	EMPC	0.008		0.021	
44	44 + 47 + 65	0.268	C U	0.617	C	0.46	C	0.525	C U	0.27	C U	0.543	C	0.341	C	0.801	C
45	45 + 51	0.033	C U	0.093	C	0.048	C U	0.09	C U	0.033	C U	0.085	C	0.038	C U	0.11	C
46		0.009	EMPC	0.033		0.014	EMPC	0.031	EMPC	0.009		0.03		0.01	EMPC	0.033	
47	44 + 47 + 65		C44		C44		C44		C44		C44		C44		C44		C44
48		0.037		0.0024	U	0.057		0.0019	U	0.04		0.08	EMPC	0.04		0.002	U
49	49 + 69	0.14	C	0.304	C	0.214	C	0.274	C	0.126	C	0.243	C	0.135	C	0.3	C
50	50 + 53	0.021	C	0.091	C	0.031	C	0.079	C	0.02	C U	0.071	C	0.026	C	0.092	C
51	45 + 51		C45		C45		C45		C45		C45		C45		C45		C45
52		0.359		0.935		0.556		0.846		0.333		0.754		0.37		0.99	
53	50 + 53		C50		C50		C50		C50		C50		C50		C50		C50
54		0.001	U	0.002	U	0.001	U	0.004	U	0.003	U	0.004	U	0.002	U	0.0014	U
55		0.0073	U	0.01		0.0081	U	0.0077	U	0.0056	U	0.0072	U	0.004	U	0.008	
56		0.116		0.149		0.181		0.134		0.114		0.126		0.131		0.14	
57		0.007	U	0.0057	U	0.0078	U	0.0073	U	0.0054	U	0.0068	U	0.0039	U	0.0068	U
58		0.0071	U	0.0057	U	0.0079	U	0.0073	U	0.0055	U	0.0069	U	0.0039	U	0.0069	U
59	59 + 62 + 75	0.021	C	0.045	C	0.027	C	0.043	C	0.021	C	0.042	C EMPC	0.022	C EMPC	0.052	C
60		0.071		0.076		0.104		0.073		0.062		0.068	EMPC	0.069		0.075	
61	61 + 70 + 74 + 76	0.563	C	0.687	C	1	C	0.678	C	0.515	C	0.624	C	0.583	C	0.791	C
62	59 + 62 + 75		C59		C59		C59		C59		C59		C59		C59		C59
63		0.011	EMPC	0.011	EMPC	0.014		0.011	EMPC	0.01		0.01		0.011		0.016	
64		0.11		0.21		0.17		0.205		0.097		0.184		0.102		0.217	
65	44 + 47 + 65		C44		C44		C44		C44		C44		C44		C44		C44
66		0.282		0.302		0.43		0.281		0.251		0.26		0.276		0.313	
67		0.008		0.01		0.009		0.012	EMPC	0.006		0.012	EMPC	0.008		0.013	EMPC
68		0.0069	U	0.011	U	0.015	U	0.0079	U	0.0053	U	0.014	U	0.009	U	0.017	U
69	49 + 69		C49		C49		C49		C49		C49		C49		C49		C49
70	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61		C61
71	40 + 41 + 71		C40		C40		C40		C40		C40		C40		C40		C40
72		0.0071	U	0.0056	U	0.0079	U	0.0072	U	0.0055	U	0.0067	U	0.0039	U	0.0068	U
73		0.001	U	0.013	EMPC	0.0009	U	0.01	EMPC	0.001	U	0.003		0.0008	U	0.0015	U
74	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61		C61
75	59 + 62 + 75		C59		C59		C59		C59		C59		C59		C59		C59
76	61 + 70 + 74 + 76		C61		C61		C61		C61		C61		C61		C61		C61
77		0.039	U	0.048	EMPC	0.051		0.029	U	0.032	U	0.047		0.047		0.092	
78		0.0076	U	0.0061	U	0.0084	U	0.0077	U	0.0058	U	0.0072	U	0.0042	U	0.0067	U
79		0.0065	U	0.009		0.01	EMPC	0.0069	U	0.007	EMPC	0.007	EMPC	0.012		0.021	
80		0.0066	U	0.0052	U	0.0074	U	0.0067	U	0.0051	U	0.0063	U	0.0037	U	0.0061	U
81		0.0073	U	0.006	U	0.0084	U	0.0076	U	0.0055	U	0.0073	U	0.0043	U	0.007	U
82		0.079	EMPC	0.05		0.107		0.045	EMPC	0.057		0.042		0.074		0.061	
83	83 + 99	0.422	C	0.281	C	0.494	C	0.244	C	0.351	C	0.229	C	0.397	C	0.342	C
84		0.12		0.161		0.165		0.141		0.112		0.137		0.115		0.175	
85	85 + 116 + 117	0.14	C	0.092	C	0.18	C	0.078	C	0.112	C	0.075	C	0.13	C	0.101	C
86	86 + 87 + 97 + 108 + 119 + 125	0.476	C	0.387	C	0.609	C	0.335	C	0.409	C	0.333	C	0.483	C	0.482	C
87	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
88	88 + 91	0.075	C	0.071	C	0.089	C	0.064	C	0.057	C	0.05	C EMPC	0.074	C	0.08	C
89		0.0019	U	0.005		0.006	EMPC	0.0023	U	0.006	EMPC	0.0034	U	0.004	EMPC	0.004	EMPC
90	90 + 101 + 113	0.73	C	0.589	C	0.856	C	0.532	C	0.609	C	0.485	C	0.72	C	0.675	C
91	88 + 91		C88		C88		C88		C88		C88		C88		C88		C88
92		0.126		0.111		0.142		0.109		0.114	EMPC	0.092		0.127		0.125	
93	93 + 95 + 98 + 100 + 102	0.453	C	0.584	C	0.515	C	0.514	C	0.405	C	0.497	C	0.472	C	0.691	C
94		0.0019	U	0.002		0.002	EMPC	0.0024	U	0.0027	U	0.0035	U	0.002	EMPC	0.0027	U
95	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
96		0.003		0.004		0.003		0.003		0.002	EMPC	0.003	EMPC	0.002	EMPC	0.004	EMPC
97	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
98	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
99	83 + 99		C83		C83		C83		C83		C83		C83		C83		C83
100	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
101	90 + 101 + 113		C90		C90		C90		C90		C90		C90		C90		C90
102	93 + 95 + 98 + 100 + 102		C93		C93		C93		C93		C93		C93		C93		C93
103		0.005	EMPC	0.005	EMPC	0.004	EMPC	0.003		0.003		0.003		0.004		0.004	
104		0.001	U	0.001	U	0.002	U	0.0011	U	0.003	U	0.0018	U	0.002	U	0.0009	U
105		0.339		0.147		0.421		0.119		0.262		0.125		0.282		0.178	
106		0.004	U	0.005		0.005	U	0.0053	U	0.0049	U	0.0067	U	0.0037	U	0.003	U
107	107 + 124	0.038	C EMPC	0.02	C	0.049	C	0.017	C EMPC	0.03	C	0.016	C EMPC	0.032	C	0.019	C
108	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
109		0.064		0.039		0.075		0.041		0.054		0.032	EMPC	0.062		0.033	
110	110 + 115	0.836	C	0.66	C	1.09	C	0.57	C	0.721	C	0.549	C	0.793	C	0.74	C
111		0.0014	U	0.0013	U	0.002	EMPC	0.0017	U	0.002	U	0.0025	U	0.0012	U	0.0018	U

Table H-12
High-Volume Surface Water PCB Congener Analysis Results
(Page 4 of 6)

		Forebay - P55				Forebay - P56				Reference - P57				Reference - P58			
IUPAC #	COELUTING CONGENERS[1]	08022555XAD 2/25/2008 (Filter)		08022555XAD 2/25/2008 (Column)		08022156XAD 2/26/2008 (Filter)		08022156XAD 2/26/2008 (Column)		08022757XAD 2/27/2008 (Filter)		08022757XAD 2/27/2008 (Column)		08030758XAD 3/7/2008 (Filter)		08030758XAD 3/7/2008 (Column)	
112		0.002	EMPC	0.0013	U	0.0014	U	0.0017	U	0.0019	U	0.0025	U	0.0012	U	0.0018	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90		C90		C90
114		0.021	U	0.015	U	0.02	U	0.01	U	0.014	U	0.011	U	0.02	U	0.011	U
115	110 + 115		C110		C110		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85		C85		C85
118		0.825		0.448		1.07		0.361		0.743		0.378		0.932		0.593	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
120		0.005	EMPC	0.0012	U	0.004	EMPC	0.0016	U	0.004	EMPC	0.0023	U	0.005		0.002	
121		0.0014	U	0.0013	U	0.0014	U	0.0017	U	0.0019	U	0.0025	U	0.0012	U	0.0019	U
122		0.0044	U	0.006	EMPC	0.007	EMPC	0.0057	U	0.006	EMPC	0.0072	U	0.007		0.004	EMPC
123		0.015	U	0.006	U	0.023	U	0.01	EMPC	0.017	U	0.007	U	0.019	U	0.014	U
124	107 + 124		C107		C107		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86		C86		C86
126		0.0046	U	0.006	U	0.0059	U	0.0057	U	0.0055	U	0.0068	U	0.007	U	0.006	U
127		0.004	U	0.0023	U	0.005	U	0.005	U	0.0049	U	0.0063	U	0.0037	U	0.0029	U
128	128 + 166	0.167	C	0.043	C	0.154	C	0.033	C	0.121	C	0.038	C EMPC	0.127	C	0.044	C
129	129 + 138 + 160 + 163	1.07	C	0.319	C	1	C	0.255	C	0.809	C	0.29	C	1.04	C	0.375	C
130		0.067		0.022		0.06		0.018	EMPC	0.043	EMPC	0.017	EMPC	0.049		0.02	
131		0.008	EMPC	0.004	EMPC	0.012		0.004	EMPC	0.007	EMPC	0.0044	U	0.007		0.0034	U
132		0.238		0.102		0.255		0.088	EMPC	0.176		0.078		0.2		0.111	
133		0.015		0.006	U	0.015	EMPC	0.004	U	0.012	EMPC	0.004	U	0.011	EMPC	0.005	U
134	134 + 143	0.04	C	0.016	C EMPC	0.041	C EMPC	0.018	C EMPC	0.026	C	0.019	C	0.025	C EMPC	0.021	C EMPC
135	135 + 151 + 154	0.276	C	0.127	C	0.25	C	0.116	C	0.194	C	0.101	C	0.237	C	0.133	C
136		0.075		0.04	EMPC	0.074		0.033		0.053		0.0021	U	0.061		0.043	
137		0.043	EMPC	0.014		0.041		0.013	EMPC	0.033		0.013		0.037		0.012	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129		C129
139	139 + 140	0.016	C	0.003	C U	0.019	C	0.004	C EMPC	0.013	C EMPC	0.004	C U	0.012	C	0.0031	C U
140	139 + 140		C139		C139		C139		C139		C139		C139		C139		C139
141		0.126		0.041		0.123		0.034	EMPC	0.093		0.033		0.1		0.044	
142		0.0055	U	0.0033	U	0.0033	U	0.0026	U	0.0023	U	0.0044	U	0.0043	U	0.0034	U
143	134 + 143		C134		C134		C134		C134		C134		C134		C134		C134
144		0.03		0.013	EMPC	0.035		0.014	EMPC	0.023		0.012	EMPC	0.025		0.015	
145		0.0008	U	0.0012	U	0.0008	U	0.0012	U	0.0008	U	0.0022	U	0.0009	U	0.0013	U
146		0.159		0.053		0.142		0.044		0.125		0.049		0.161		0.061	
147	147 + 149	0.672	C	0.282	C	0.65	C	0.23	C	0.506	C	0.225	C	0.634	C	0.322	C
148		0.003	EMPC	0.0015	U	0.002	EMPC	0.0015	U	0.002	EMPC	0.0027	U	0.001	EMPC	0.0016	U
149	147 + 149		C147		C147		C147		C147		C147		C147		C147		C147
150		0.001	EMPC	0.0011	U	0.001	EMPC	0.0011	U	0.002	EMPC	0.0021	U	0.001	EMPC	0.0012	U
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135		C135		C135
152		0.0008	U	0.0011	U	0.0008	U	0.0011	U	0.001	EMPC	0.002	U	0.0008	U	0.001	EMPC
153	153 + 168	1.04	C	0.304	C	0.881	C	0.239	C	0.834	C	0.28	C	1.18	C	0.406	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135		C135		C135
155		0.002	U	0.002	U	0.004	U	0.001	U	0.002	U	0.0018	U	0.003	U	0.001	U
156	156 + 157	0.11	C	0.028	C U	0.101	C	0.023	C U	0.085	C	0.026	C U	0.094	C	0.036	C U
157	156 + 157		C156		C156		C156		C156		C156		C156		C156		C156
158		0.082		0.029		0.084		0.022		0.062		0.022		0.074		0.031	
159		0.007		0.0022	U	0.008		0.0018	U	0.005	EMPC	0.003	U	0.005	EMPC	0.002	EMPC
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129		C129
161		0.0039	U	0.0023	U	0.0023	U	0.0018	U	0.0016	U	0.003	U	0.0031	U	0.0024	U
162		0.004	U	0.0024	U	0.004	EMPC	0.0019	U	0.004		0.0032	U	0.0032	U	0.0023	U
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129		C129		C129
164		0.057		0.021		0.06		0.018		0.041	EMPC	0.014		0.048	EMPC	0.022	
165		0.0043	U	0.0026	U	0.0026	U	0.0021	U	0.0018	U	0.0034	U	0.0034	U	0.0027	U
166	128 + 166		C128		C128		C128		C128		C128		C128		C128		C128
167		0.049		0.014	U	0.044		0.011	EMPC	0.041		0.013	U	0.057		0.018	U
168	153 + 168		C153		C153		C153		C153		C153		C153		C153		C153
169		0.004	U	0.0023	U	0.0024	U	0.0018	U	0.0017	U	0.003	U	0.0034	U	0.0024	U
170		0.152		0.026	U	0.142		0.02	U	0.099		0.027	U	0.106		0.025	U
171	171 + 173	0.049	C	0.012	C	0.051	C	0.008	C	0.037	C	0.008	C	0.04	C EMPC	0.009	C
172		0.031		0.007	EMPC	0.032		0.007	EMPC	0.02		0.007	EMPC	0.024		0.006	
173	171 + 173		C171		C171		C171		C171		C171		C171		C171		C171
174		0.152		0.05	EMPC	0.141		0.033	U	0.111		0.043		0.108		0.036	
175		0.009	EMPC	0.002	EMPC	0.009		0.0016	U	0.007	EMPC	0.0023	U	0.009		0.002	EMPC
176		0.022		0.006	EMPC	0.021		0.007	EMPC	0.015		0.006	EMPC	0.017	EMPC	0.005	
177		0.13		0.031		0.124		0.026		0.079		0.025		0.09		0.023	
178		0.045		0.015		0.043		0.013	EMPC	0.036		0.011	EMPC	0.033	EMPC	0.012	EMPC
179		0.074		0.021		0.072		0.016		0.057		0.018		0.068		0.019	
180	180 + 193	0.365	C	0.125	C	0.341	C	0.067	C U	0.265	C	0.109	C	0.321	C	0.105	C
181		0.003	EMPC	0.0012	U	0.002	EMPC	0.0016	U	0.002	EMPC	0.0023	U	0.002		0.0015	U
182		0.003	U	0.0012	U	0.003	U	0.0016	U	0.002	U	0.0023	U	0.0008	U	0.0015	U
183	183 + 185	0.129	C	0.044	C	0.117	C	0.025	C U	0.09	C	0.026	C	0.119	C	0.032	C
184		0.002		0.0009	U	0.004	EMPC	0.0012	U	0.002		0.0017	U	0.002	EMPC	0.0012	U
185	183 + 185		C183		C183		C183		C183		C183		C183		C183		C183
186		0.0008	U	0.001	U	0.0008	U	0.0013	U	0.001	U	0.0018	U	0.0008	U	0.0012	U
187		0.295		0.113		0.284		0.078	U	0.224		0.101		0.276		0.09	
188		0.0008	U	0.0008	U	0.0008	U	0.0011	U	0.0008	U	0.0016	U	0.002	U	0.0011	U
189		0.006	U	0.0022	U	0.008	U	0.0018	U	0.005	U	0.0036	U	0.004	U	0.0021	U
190		0.038		0.01		0.039		0.004	EMPC	0.035		0.007		0.043	EMPC	0.008	
191		0.008		0.001		0.007		0.0013	U	0.005		0.0018	U	0.005	EMPC	0.0012	U
192		0.0008	U	0.001	U	0.0008	U	0.0014	U	0.0011	U	0.002	U	0.0008	U	0.0013	U
193	180 + 193		C180		C180		C180		C180		C180		C180		C180		C180
194		0.063		0.034		0.067		0.014	U	0.043		0.037		0.048		0.029	
195		0.026		0.015	EMPC	0.027		0.008	EMPC	0.019	EMPC	0.013	EMPC	0.018		0.009	
196		0.035		0.045		0.04	EMPC	0.013	U	0.027		0.033	EMPC	0.031		0.03	
197	197 + 200	0.016	C	0.021	C	0.017	C EMPC	0.007	C EMPC	0.01	C EMPC	0.013	C	0.01	C	0.009	C
198	198 + 199	0.096	C	0.135	C	0.096	C	0.054	C U	0.079	C EMPC	0.111	C	0.075	C	0.086	C
199	198 + 199		C198		C198		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197		C197		C197
201		0.013		0.016	EMPC	0.01	EMPC	0.005		0.01		0.012		0.008		0.008	
202		0.029		0.029		0.027		0.012	U	0.024	EMPC	0.02	EMPC	0.021		0.015	U
203		0.071		0.099		0.066		0.035		0.052		0.083		0.064		0.076	
204		0.0008	U	0.0008	U	0.0008	U	0.0012	U	0.0008	U	0.0016	U	0.001	EMPC	0.0013	U
205		0.005	U	0.003	U	0.006	U	0.0016	U	0.002	U	0.0025	U	0.004	U	0.002	U
206		0.049		0.049		0.061		0.019	EMPC	0.04		0.053	EMPC	0.039		0.04	
207		0.01	EMPC	0.02	EMPC	0.012		0.008		0.006	EMPC	0.015		0.007	EMPC	0.013	
208		0.02	U	0.041		0.024		0.012	U	0.016	U	0.041		0.02	U	0.027	
209		0.056		0.015	U	0.105		0.009	U	0.106		0.016	U	0.048		0.016	U
Total PCBs as Congeners (full EMPC/full SDL)		23.9	J	155	J	27.2	J	140	J	25.5	J	154	J	22.1	J	110	J
Total PCBs as Congeners (KM-based)		22.6	J	154	J	26.4	J	138	J	24.3	J	154	J	21.2	J	109	J
Total PCBs as Congeners (KM-based, capped)		22.6	J	154	J	26.4	J	138	J	24.3	J	154	J	21.2	J	109	J

Notes:

All results are in units of pg/L (picograms/Liter)
C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
RDL = Reported detection limit

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-12
High-Volume Surface Water PCB Congener Analysis Results
(Page 5 of 6)

		Reference - P59		Reference - P60		Reference - P61	
IUPAC #	COELUTING CONGENERS[1]	08022959XAD 2/29/2008 (Filter)	08022959XAD 2/29/2008 (Column)	08030460XAD 3/4/2008 (Filter)	08030460XAD 3/4/2008 (Column)	08030661XAD 3/6/2008 (Filter)	08030661XAD 3/6/2008 (Column)
1		0.015 U	0.209	0.019 U	0.213	0.015 U	0.18
2		0.042 U	0.256	0.056	0.292	0.047 U	0.237
3		0.032 U	0.147	0.036 U	0.17	0.034 U	0.155
4		0.026 U	0.634	0.038 U	0.554	0.026 U	0.391
5		0.008 U	0.0051 U	0.0047 U	0.0046 U	0.0056 U	0.009 EMPC
6		0.011 U	0.144	0.019 U	0.129	0.012 U	0.103
7		0.011 U	0.032 U	0.014 U	0.027 U	0.0052 U	0.033 U
8		0.046 U	0.512	0.004 U	0.5	0.064 U	0.462
9		0.0071 U	0.041 EMPC	0.007 U	0.039	0.005 U	0.038
10		0.0067 U	0.026	0.004 U	0.017	0.0047 U	0.016
11		9.81	133	11.3	130	8.97	107
12	12 + 13	0.008 C U	0.0052 C U	0.0047 C U	0.0046 C U	0.0056 C U	0.0055 C U
13	12 + 13	C12	C12	C12	C12	C12	C12
14		0.0075 U	0.0049 U	0.0044 U	0.0044 U	0.0052 U	0.0052 U
15		0.059 U	0.839	0.081 U	0.543 EMPC	0.072 U	0.737
16		0.042 U	0.348	0.052 U	0.322	0.04 U	0.302
17		0.048 U	0.303	0.052 U	0.28	0.042 U	0.243
18	18 + 30	0.093 C U	0.763 C	0.116 C U	0.729 C	0.09 C U	0.657 C
19		0.015 U	0.139	0.017 U	0.115	0.015 U	0.09
20	20 + 28	0.195 C	0.749 C	0.237 C	0.736 C	0.293 C	0.728 C
21	21 + 33	0.063 C U	0.284 C	0.094 C U	0.289 C EMPC	0.129 C	0.286 C
22		0.072 EMPC	0.271	0.089	0.288	0.115	0.282
23		0.0043 U	0.017 U	0.006 U	0.0032 U	0.0019 U	0.002 U
24		0.003 EMPC	0.014 EMPC	0.003	0.013	0.002 EMPC	0.013
25		0.013 U	0.051	0.015	0.05	0.018	0.043 EMPC
26	26 + 29	0.028 C U	0.136 C	0.035 C U	0.131 C	0.042 C	0.121 C
27		0.009 U	0.062	0.01 U	0.056	0.01 U	0.052
28	20 + 28	C20	C20	C20	C20	C20	C20
29	26 + 29	C26	C26	C26	C26	C26	C26
30	18 + 30	C18	C18	C18	C18	C18	C18
31		0.144 U	0.622	0.179	0.612	0.22	0.588
32		0.023 U	0.16	0.029 U	0.149	0.025 U	0.136
33	21 + 33	C21	C21	C21	C21	C21	C21
34		0.0043 U	0.026 U	0.005 U	0.005 U	0.002 U	0.006 U
35		0.03	0.118	0.039	0.125	0.041	0.103
36		0.005 EMPC	0.027 EMPC	0.007 EMPC	0.027	0.006 EMPC	0.022
37		0.067	0.147	0.08	0.145	0.105	0.146
38		0.0045 U	0.003 EMPC	0.003 EMPC	0.01	0.004	0.004
39		0.0044 U	0.006 EMPC	0.002 EMPC	0.01	0.002 EMPC	0.005 EMPC
40	40 + 41 + 71	0.089 C	0.221 C	0.101 C	0.224 C	0.121 C	0.229 C
41	40 + 41 + 71	C40	C40	C40	C40	C40	C40
42		0.067	0.129 EMPC	0.075	0.127	0.075	0.125
43		0.007 EMPC	0.02	0.013	0.023	0.009 EMPC	0.02
44	44 + 47 + 65	0.302 C	0.644 C	0.368 C	0.654 C	0.432 C	0.736 C
45	45 + 51	0.038 C U	0.103 C	0.045 C U	0.091 C	0.044 C U	0.105 C
46		0.01 EMPC	0.034 EMPC	0.01 EMPC	0.033	0.009 EMPC	0.031
47	44 + 47 + 65	C44	C44	C44	C44	C44	C44
48		0.039	0.0017 U	0.046	0.0014 U	0.045	0.0015 U
49	49 + 69	0.134 C	0.318 C	0.146 C	0.281 C	0.164 C	0.294 C
50	50 + 53	0.027 C	0.091 C	0.03 C	0.09 C	0.028 C	0.094 C
51	45 + 51	C45	C45	C45	C45	C45	C45
52		0.335	0.973	0.393	0.898	0.45	0.0014 U
53	50 + 53	C50	C50	C50	C50	C50	C50
54		0.001 U	0.018 U	0.005 U	0.002 U	0.003 U	0.001 U
55		0.0046 U	0.01 EMPC	0.0046 U	0.0061 U	0.0058 U	0.008
56		0.104	0.153	0.118	0.162	0.163	0.165
57		0.0044 U	0.0064 U	0.0044 U	0.0059 U	0.0056 U	0.0062 U
58		0.0045 U	0.0067 U	0.0045 U	0.0062 U	0.0056 U	0.0065 U
59	59 + 62 + 75	0.021 C	0.051 C	0.023 C	0.053 C	0.027 C	0.048 C
60		0.064 EMPC	0.088	0.067	0.087	0.088	0.089
61	61 + 70 + 74 + 76	0.495 C	0.739 C	0.571 C	0.746 C	0.816 C	0.783 C
62	59 + 62 + 75	C59	C59	C59	C59	C59	C59
63		0.01 EMPC	0.016 EMPC	0.011 EMPC	0.015	0.012	0.018
64		0.097	0.0013 U	0.114	0.209	0.136	0.213
65	44 + 47 + 65	C44	C44	C44	C44	C44	C44
66		0.261	0.299	0.279	0.324	0.363	0.318
67		0.008 EMPC	0.015 EMPC	0.008 EMPC	0.012 EMPC	0.008 EMPC	0.014
68		0.0043 U	0.0068 U	0.011 U	0.014 U	0.012 U	0.0066 U
69	49 + 69	C49	C49	C49	C49	C49	C49
70	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
71	40 + 41 + 71	C40	C40	C40	C40	C40	C40
72		0.0045 U	0.0063 U	0.0045 U	0.0058 U	0.0057 U	0.0061 U
73		0.0014 U	0.0013 U	0.0008 U	0.013	0.0008 U	0.012
74	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
75	59 + 62 + 75	C59	C59	C59	C59	C59	C59
76	61 + 70 + 74 + 76	C61	C61	C61	C61	C61	C61
77		0.039 U	0.043 U	0.057	0.041 U	0.071	0.08
78		0.0048 U	0.0071 U	0.0048 U	0.0066 U	0.006 U	0.0068 U
79		0.01 EMPC	0.009 EMPC	0.015	0.01 EMPC	0.015 EMPC	0.011
80		0.0042 U	0.0057 U	0.0042 U	0.0053 U	0.0053 U	0.0055 U
81		0.0047 U	0.007 U	0.0047 U	0.0062 U	0.0057 U	0.0066 U
82		0.058	0.05	0.068	0.055	0.084	0.057
83	83 + 99	0.388 C	0.296 C	0.448 C	0.302 C	0.479 C	0.324 C
84		0.109	0.153	0.124	0.142	0.144	0.165
85	85 + 116 + 117	0.12 C	0.088 C	0.136 C EMPC	0.089 C	0.164 C	0.104 C
86	86 + 87 + 97 + 108 + 119 + 125	0.442 C	0.387 C	0.512 C	0.411 C	0.616 C	0.468 C
87	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
88	88 + 91	0.07 C	0.067 C	0.074 C	0.067 C	0.078 C	0.076 C
89		0.004 EMPC	0.005	0.006 EMPC	0.005	0.006	0.005 EMPC
90	90 + 101 + 113	0.684 C	0.607 C	0.779 C	0.606 C	0.857 C	0.649 C
91	88 + 91	C88	C88	C88	C88	C88	C88
92		0.123	0.115	0.128	0.112	0.14	0.125
93	93 + 95 + 98 + 100 + 102	0.46 C	0.632 C	0.512 C	0.613 C	0.537 C	0.637 C
94		0.0032 U	0.0034 U	0.0019 U	0.003 EMPC	0.004 EMPC	0.003
95	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
96		0.003	0.004 EMPC	0.003	0.004 EMPC	0.003 EMPC	0.004 EMPC
97	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
98	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
99	83 + 99	C83	C83	C83	C83	C83	C83
100	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
101	90 + 101 + 113	C90	C90	C90	C90	C90	C90
102	93 + 95 + 98 + 100 + 102	C93	C93	C93	C93	C93	C93
103		0.004	0.0028 U	0.003 EMPC	0.002 EMPC	0.004	0.005 EMPC
104		0.002 U	0.017 U	0.004 U	0.001 U	0.001 U	0.0009 U
105		0.297	0.149	0.327	0.144	0.403	0.16
106		0.0057 U	0.005	0.0051 U	0.0039 U	0.0041 U	0.0061 U
107	107 + 124	0.036 C EMPC	0.022 C	0.037 C	0.023 C	0.044 C	0.024 C EMPC
108	86 + 87 + 97 + 108 + 119 + 125	C86	C86	C86	C86	C86	C86
109		0.058	0.033 EMPC	0.065	0.036 EMPC	0.075	0.034
110	110 + 115	0.765 C	0.692 C	0.869 C	0.705 C	1.08 C	0.781 C
111		0.0024 U	0.0025 U	0.0014 U	0.0016 U	0.0011 U	0.0018 U

Table H-12
High-Volume Surface Water PCB Congener Analysis Results
(Page 6 of 6)

		Reference - P59				Reference - P60				Reference - P61			
IUPAC #	COELUTING CONGENERS[1]	08022959XA D 2/29/2008 (Filter)		08022959XA D 2/29/2008 (Column)		08030460XA D 3/4/2008 (Filter)		08030460XA D 3/4/2008 (Column)		08030661XA D 3/6/2008 (Filter)		08030661XA D 3/6/2008 (Column)	
112		0.0023	U	0.0025	U	0.0014	U	0.0016	U	0.0011	U	0.0018	U
113	90 + 101 + 113		C90		C90		C90		C90		C90		C90
114		0.017	U	0.017	U	0.02	U	0.01	U	0.022	U	0.009	U
115	110 + 115		C110		C110		C110		C110		C110		C110
116	85 + 116 + 117		C85		C85		C85		C85		C85		C85
117	85 + 116 + 117		C85		C85		C85		C85		C85		C85
118		0.884		0.489		1.08		0.553		1.22		0.552	
119	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
120		0.004		0.0023	U	0.004		0.002	EMPC	0.002		0.002	EMPC
121		0.0023	U	0.0025	U	0.0014	U	0.0016	U	0.0011	U	0.0018	U
122		0.0062	U	0.004	U	0.009		0.005	EMPC	0.008		0.0066	U
123		0.02	U	0.009	U	0.026	U	0.014	U	0.026	U	0.011	U
124	107 + 124		C107		C107		C107		C107		C107		C107
125	86 + 87 + 97 + 108 + 119 + 125		C86		C86		C86		C86		C86		C86
126		0.0063	U	0.0039	U	0.008	U	0.0041	U	0.008	U	0.007	U
127		0.0057	U	0.0039	U	0.0051	U	0.0041	U	0.0041	U	0.0064	U
128	128 + 166	0.137	C	0.044	C	0.146	C	0.045	C	0.156	C	0.049	C
129	129 + 138 + 160 + 163	1.04	C	0.351	C	1.28	C	0.381	C	1.11	C	0.388	C
130		0.053		0.02		0.057		0.02		0.058		0.021	
131		0.01	EMPC	0.004	EMPC	0.012	EMPC	0.003	EMPC	0.01	EMPC	0.005	
132		0.213		0.091		0.226		0.091		0.247		0.106	
133		0.014		0.006	U	0.013		0.004	U	0.017		0.007	U
134	134 + 143	0.033	C	0.018	C EMPC	0.032	C	0.016	C	0.035	C	0.019	C
135	135 + 151 + 154	0.247	C	0.111	C	0.278	C	0.127	C	0.285	C	0.128	C
136		0.063		0.032		0.071		0.035		0.07		0.036	
137		0.035	EMPC	0.016		0.047		0.01		0.048		0.017	
138	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
139	139 + 140	0.014	C EMPC	0.006	C EMPC	0.016	C	0.005	C EMPC	0.016	C	0.007	C EMPC
140	139 + 140		C139		C139		C139		C139		C139		C139
141		0.089		0.037		0.116		0.037		0.122		0.042	EMPC
142		0.0027	U	0.0013	U	0.0042	U	0.0023	U	0.0034	U	0.0019	U
143	134 + 143		C134		C134		C134		C134		C134		C134
144		0.027		0.01	EMPC	0.027		0.015		0.033		0.015	
145		0.0011	U	0.0011	U	0.0008	U	0.0006	U	0.0008	U	0.0009	U
146		0.156		0.059		0.183		0.063		0.167		0.063	
147	147 + 149	0.644	C	0.288	C	0.778	C	0.298	C	0.725	C	0.307	C
148		0.0013	U	0.0014	U	0.0008	U	0.0008	U	0.002		0.0011	U
149	147 + 149		C147		C147		C147		C147		C147		C147
150		0.002	EMPC	0.0011	U	0.0008	U	0.002	EMPC	0.001	EMPC	0.0008	U
151	135 + 151 + 154		C135		C135		C135		C135		C135		C135
152		0.001	U	0.001	U	0.0008	U	0.001	EMPC	0.0008	U	0.0008	U
153	153 + 168	1.19	C	0.327	C	1.52	C	0.356	C	1.26	C	0.402	C
154	135 + 151 + 154		C135		C135		C135		C135		C135		C135
155		0.003	U	0.012	U	0.004	U	0.001	U	0.003	U	0.002	U
156	156 + 157	0.099	C	0.032	C U	0.115	C	0.03	C U	0.104	C	0.034	C U
157	156 + 157		C156		C156		C156		C156		C156		C156
158		0.073		0.027		0.083		0.025		0.084		0.031	
159		0.008		0.002		0.005		0.0017	U	0.007	EMPC	0.002	
160	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
161		0.0019	U	0.0009	U	0.003	U	0.0016	U	0.0024	U	0.0013	U
162		0.003	EMPC	0.002	EMPC	0.0031	U	0.0018	U	0.003	EMPC	0.0014	U
163	129 + 138 + 160 + 163		C129		C129		C129		C129		C129		C129
164		0.044		0.022		0.053		0.02		0.055		0.021	
165		0.0022	U	0.0011	U	0.0033	U	0.0019	U	0.0027	U	0.0015	U
166	128 + 166		C128		C128		C128		C128		C128		C128
167		0.056		0.015	U	0.07		0.016	U	0.06		0.018	U
168	153 + 168		C153		C153		C153		C153		C153		C153
169		0.002	U	0.001	U	0.0032	U	0.0016	U	0.0024	U	0.0014	U
170		0.132		0.022	U	0.123		0.019	U	0.14		0.02	U
171	171 + 173	0.05	C	0.01	C	0.054	C	0.009	C	0.054	C	0.005	C EMPC
172		0.025		0.005	EMPC	0.027		0.006	EMPC	0.031		0.005	
173	171 + 173		C171		C171		C171		C171		C171		C171
174		0.128		0.034		0.131		0.031		0.145		0.033	
175		0.009	EMPC	0.0011	U	0.008	EMPC	0.001	EMPC	0.008		0.002	
176		0.02		0.006	EMPC	0.021		0.0005	U	0.02		0.004	EMPC
177		0.104		0.024		0.112		0.021		0.11		0.024	
178		0.044	EMPC	0.012		0.042		0.011		0.037		0.009	
179		0.068		0.022	EMPC	0.077		0.018		0.07		0.018	
180	180 + 193	0.369	C	0.087	C	0.392	C	0.07	C EMPC	0.389	C	0.078	C
181		0.002	EMPC	0.0011	U	0.002	EMPC	0.0008	U	0.002	EMPC	0.001	U
182		0.001	U	0.003	U	0.003	U	0.001	U	0.0008	U	0.001	U
183	183 + 185	0.131	C	0.03	C	0.142	C	0.026	C	0.122	C	0.031	C
184		0.001		0.001		0.002	EMPC	0.001	EMPC	0.002	EMPC	0.0007	U
185	183 + 185		C183		C183		C183		C183		C183		C183
186		0.001	U	0.0009	U	0.0008	U	0.0006	U	0.0008	U	0.0008	U
187		0.319		0.105		0.349		0.09		0.323		0.098	
188		0.001	U	0.006	U	0.003	U	0.001	U	0.001	U	0.0007	U
189		0.006	U	0.002	U	0.004	U	0.002	U	0.005	U	0.0014	U
190		0.045		0.007	EMPC	0.048		0.008		0.05	EMPC	0.01	
191		0.001	U	0.0009	U	0.007		0.001	EMPC	0.006		0.002	EMPC
192		0.0011	U	0.001	U	0.0008	U	0.0006	U	0.0008	U	0.0009	U
193	180 + 193		C180		C180		C180		C180		C180		C180
194		0.054		0.019	EMPC	0.052		0.01		0.069		0.016	EMPC
195		0.029		0.005		0.024		0.004	EMPC	0.033		0.005	EMPC
196		0.036		0.016		0.036		0.009	EMPC	0.041		0.011	
197	197 + 200	0.014	C EMPC	0.006	C	0.013	C EMPC	0.004	C	0.013	C	0.007	C
198	198 + 199	0.093	C	0.054	C	0.087	C	0.029	C	0.096	C	0.046	C
199	198 + 199		C198		C198		C198		C198		C198		C198
200	197 + 200		C197		C197		C197		C197		C197		C197
201		0.012		0.005		0.01	EMPC	0.004		0.013	EMPC	0.006	EMPC
202		0.024	EMPC	0.016	U	0.028	EMPC	0.008	U	0.029		0.01	U
203		0.084		0.037		0.078		0.021		0.073		0.032	
204		0.0008	U	0.0009	U	0.0008	U	0.0006	U	0.0008	U	0.0008	U
205		0.004	U	0.002	U	0.005	U	0.001	U	0.006	U	0.002	U
206		0.047		0.027	EMPC	0.056		0.01		0.048		0.014	EMPC
207		0.007		0.005	U	0.006		0.0037	U	0.007	EMPC	0.005	EMPC
208		0.022	U	0.015	U	0.021	U	0.007	U	0.02	U	0.011	U
209		0.062		0.012	U	0.064		0.01	U	0.062		0.009	U
Total PCBs as Congeners (full EMPC/full SDL)		23.9	J	150	J	27.6	J	147	J	26.3	J	123	J
Total PCBs as Congeners (KM-based)		22.8	J	149	J	26.7	J	146	J	25.6	J	123	J
Total PCBs as Congeners (KM-based, capped)		22.8	J	149	J	26.7	J	146	J	25.6	J	123	J

Notes:

All results are in units of pg/L (picograms/Liter)
C = Concentration represents coeluting congeners.
U = The analyte was not detected above the RDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The RDL is an estimate.
RDL = Reported detection limit

EMPC = The analyte was not positively identified; the associated numerical value is the Estimated Maximum Potential Concentration.
1= When two or more congeners can not be resolved in the chromatogram they are considered to be 'coeluting' and are reported as a single concentration. This concentration is reported once for all the coeluting congeners.
KM-based = Kaplan–Meier-based with Efron's bias correction
KM-based, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-13
Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results
(Page 1 of 10)

Media	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
Site ID	P04		P05		P06		P07		P08		P09		P10		P11		P13		P14	
Sample ID	08022604SD		08031905SD		08031806SD		08021507SD		08021508SD		08021409SD		08021410SD		08021411SD		08031713SD		08031814SD	
Sample Date	2/26/2008		3/19/2008		3/18/2008		2/15/2008		2/15/2008		2/14/2008		2/14/2008		2/14/2008		3/17/2008		3/18/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	10.0 U	10.0 U	1.70 U	10.0 U	1.70 U	8.50 U	1.70 U	6.90 U
Aroclor 1221	1.70 U	20.0 U	1.70 U	14.0 U	1.70 U	15.0 U	2.20 U	20.0 U	12.0 U	20.0 U	1.70 U	20.0 U	21.0 U	21.0 U	20.0 U	20.0 U	1.70 U	17.0 U	1.70 U	14.0 U
Aroclor 1232	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	7.90 U	10.0 U	7.40 U	9.80 U	1.70 U	9.90 U	8.20 U	10.0 U	6.30 U	10.0 U	1.70 U	8.50 U	1.70 U	6.90 U
Aroclor 1242	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	4.30 U	10.0 U	5.70 U	9.80 U	1.70 U	9.90 U	2.20 U	10.0 U	1.70 U	10.0 U	1.70 U	8.50 U	1.70 U	6.90 U
Aroclor 1248	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	3.50 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	1.90 U	10.0 U	4.00 U	10.0 U	1.70 U	8.50 U	1.70 U	6.90 U
Aroclor 1254	**27.0**	**27.0**	1.70 U	7.00 U	**4.60 J**	**4.60 J**	2.50 U	10.0 U	1.90 U	9.80 U	2.60 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	8.50 U	1.70 U	6.90 U
Aroclor 1260	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	8.50 U	1.70 U	6.90 U
Aroclor 1262	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	8.50 U	1.70 U	6.90 U
Aroclor 1268	1.70 U	10.0 U	1.70 U	7.00 U	1.70 U	7.20 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	8.50 U	1.70 U	6.90 U
Total PCBs as Aroclors [1]	**28.7 J**	**37.0 J**	3.40 U	14.0 U	**6.30 J**	**11.8 J**	6.80 U	20.0 U	7.60 U	19.6 U	4.30 U	19.8 U	3.90 U	20.0 U	3.40 U	20.0 U	3.40 U	17.0 U	3.40 U	13.8 U

Notes:
[1] Only Aroclors 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
- = Not Analyzed
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
Sediment is in micrograms per kilogram (µg/kg), dry weight

Table H-13
Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results
(Page 2 of 10)

Media	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
Site ID	P15		P16		P17		P18		P21		P65		P67		P88		P89	
Sample ID	08022115SD		08022116SD		08022117SD		08021118SD		08021221SD		08022965SD		08030367SD		08031788SD		08031789SD	
Sample Date	2/21/2008		2/21/2008		2/21/2008		2/11/2008		2/12/2008		2/29/2008		3/3/2008		3/17/2008		3/17/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.70 U	9.90 U	1.70 U	10.0 U	9.90 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	7.30 U	1.70 U	6.70 U	1.70 U	6.40 U	1.70 U	7.00 U
Aroclor 1221	1.70 U	20.0 U	1.70 U	20.0 U	29.0 U	29.0 U	13.0 U	20.0 U	16.0 U	20.0 U	1.70 U	15.0 U	1.70 U	14.0 U	1.70 U	13.0 U	1.70 U	14.0 U
Aroclor 1232	1.70 U	9.90 U	1.70 U	10.0 U	18.0 U	18.0 U	7.50 U	10.0 U	14.0 U	14.0 U	1.70 U	7.30 U	1.70 U	6.70 U	1.70 U	6.40 U	1.70 U	7.00 U
Aroclor 1242	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	9.90 U	2.90 U	10.0 U	5.70 U	10.0 U	1.70 U	7.30 U	1.70 U	6.70 U	1.70 U	6.40 U	1.70 U	7.00 U
Aroclor 1248	1.70 U	9.90 U	1.70 U	10.0 U	1.90 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	7.30 U	1.70 U	6.70 U	1.70 U	6.40 U	1.70 U	7.00 U
Aroclor 1254	1.70 U	9.90 U	1.70 U	10.0 U	2.20 U	9.90 U	1.70 U	10.0 U	2.40 U	10.0 U	1.70 U	7.30 U	1.70 U	6.70 U	1.70 U	6.40 U	1.70 U	7.00 U
Aroclor 1260	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	4.70 U	10.0 U	1.70 U	7.30 U	1.70 U	6.70 U	1.70 U	6.40 U	1.70 U	7.00 U
Aroclor 1262	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	7.30 U	1.70 U	6.70 U	1.70 U	6.40 U	1.70 U	7.00 U
Aroclor 1268	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	7.30 U	1.70 U	6.70 U	1.70 U	6.40 U	1.70 U	7.00 U
Total PCBs as Aroclors [1]	3.40 U	19.8 U	3.40 U	20.0 U	3.90 U	19.80 U	4.60 U	20.0 U	8.10 U	20.0 U	3.40 U	14.6 U	3.40 U	13.40 U	3.40 U	12.80 U	3.40 U	14.00 U

Notes:

[1] Only Aroclors 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

Sediment is in micrograms per kilogram (µg/kg), dry weight

Table H-13
Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results
(Page 3 of 10)

Media	Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam	
Site ID	P04		P05		P06		P07		P08		P09		P10		P11		P13		P14	
Sample ID	08022604TC		08031905TC		08031806TC		08021507TC		08021508TC		08021409TC		08021410TC		08021411TC		08031713TC		08031814TC	
Sample Date	2/26/2008		3/19/2008		3/18/2008		2/15/2008		2/15/2008		2/14/2008		2/14/2008		2/14/2008		3/17/2008		3/18/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	18.0 U	18.0 U	2.40 U	9.90 U	2.40 U	10.0 U	19.0 U	19.0 U	23.0 U	23.0 U	23.0 U	23.0 U	23.0 U	23.0 U	21.0 U	21.0 U	2.40 U	9.90 U	2.40 U	9.90 U
Aroclor 1221	20.0 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U
Aroclor 1232	40.0 U	40.0 U	2.30 U	9.90 U	2.30 U	10.0 U	27.0 U	27.0 U	25.0 U	25.0 U	30.0 U	30.0 U	34.0 U	34.0 U	36.0 U	36.0 U	2.30 U	9.90 U	2.30 U	9.90 U
Aroclor 1242	48.0 U	48.0 U	2.20 U	9.90 U	2.20 U	10.0 U	35.0 U	35.0 U	29.0 U	29.0 U	30.0 U	30.0 U	19.0 U	19.0 U	19.0 U	19.0 U	2.20 U	9.90 U	2.20 U	9.90 U
Aroclor 1248	0.510 U	9.80 U	0.510 U	9.90 U	0.510 U	10.0 U	26.0 U	26.0 U	13.0 U	13.0 U	6.00 U	9.60 U	12.0 U	12.0 U	9.90 U	10.0 U	0.510 U	9.90 U	0.510 U	9.90 U
Aroclor 1254	**120 J**	**120 J**	**23.0 J**	**23.0 J**	**32.0 J**	**32.0 J**	74.0 U	74.0 U	55.0 U	55.0 U	49.0 U	49.0 U	36.0 U	36.0 U	32.0 U	32.0 U	**22.0**	**22.0**	**22.0**	**22.0**
Aroclor 1260	1.90 U	9.80 U	1.90 U	9.90 U	1.90 U	10.0 U	11.0 U	11.0 U	9.40 U	9.80 U	8.50 U	9.60 U	6.90 U	9.90 U	6.40 U	10.0 U	1.90 U	9.90 U	1.90 U	9.90 U
Aroclor 1262	2.50 U	9.80 U	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.60 U	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.90 U
Aroclor 1268	2.00 U	9.80 U	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	9.60 U	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.90 U
Total PCBs as Aroclors [1]	**120 J**	**120 J**	**23.0 J**	**23.0 J**	**32.0 J**	**32.0 J**	74.0 U	74.0 U	55.0 U	55.0 U	49.0 U	49.0 U	36.0 U	36.0 U	32.0 U	32.0 U	**22.0**	**22.0**	**22.0**	**22.0**

Notes:

[1] Only Aroclor 1254 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-13
Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results
(Page 4 of 10)

Media	Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam	
Site ID	P15		P16		P17		P18		P21		P65		P67		P88		P89	
Sample ID	08022115TC		08022116TC		08022117TC		08021118TC		08021221TC		08022965TC		08030367TC		08031788TC		08031789TC	
Sample Date	2/21/2008		2/21/2008		2/21/2008		2/12/2008		2/12/2008		2/29/2008		3/3/2008		3/17/2008		3/17/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	19.0 U	19.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	17.0 U	15.0 U	15.0 U	2.40 U	9.80 U	2.40 U	10.0 U	2.40 U	10.0 U	2.40 U	9.90 U
Aroclor 1221	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U
Aroclor 1232	35.0 U	35.0 U	30.0 U	30.0 U	31.0 U	31.0 U	23.0 U	23.0 U	19.0 U	19.0 U	2.30 U	9.80 U	2.30 U	10.0 U	2.30 U	10.0 U	2.30 U	9.90 U
Aroclor 1242	17.0 U	17.0 U	15.0 U	15.0 U	15.0 U	15.0 U	22.0 U	22.0 U	10.0 U	10.0 U	2.20 U	9.80 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.90 U
Aroclor 1248	4.60 U	9.90 U	4.50 U	9.80 U	9.20 U	10.0 U	9.90 U	9.90 U	4.60 U	9.80 U	0.510 U	9.80 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.90 U
Aroclor 1254	32.0 U	32.0 U	30.0 U	30.0 U	28.0 U	28.0 U	28.0 U	28.0 U	30.0 U	30.0 U	**21.0**	**21.0**	**21.0**	**21.0**	**23.0**	**23.0**	**21.0**	**21.0**
Aroclor 1260	6.70 U	9.90 U	6.80 U	9.80 U	5.90 U	10.0 U	5.90 U	9.90 U	6.20 U	9.80 U	1.90 U	9.80 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.90 U
Aroclor 1262	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.80 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.90 U
Aroclor 1268	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.90 U
Total PCBs as Aroclors [1]	32.0 U	32.0 U	30.0 U	30.0 U	28.0 U	28.0 U	28.0 U	28.0 U	30.0 U	30.0 U	**21.0**	**21.0**	**21.0**	**21.0**	**23.0**	**23.0**	**21.0**	**21.0**

Notes:

[1] Only Aroclor 1254 was included in summing Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-13
Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results
(Page 1 of 10)

Media	Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish	
Site ID	P01-CF		P02-CF		P03-CF		P04-CF		P05-CF		P06-CF		P07-CF		P08-CF		P13-CF		P14-CF	
Sample ID	08021901CF		08021902CF		08022003CF		08021904CF		08021505CF		08021406CF		08021407CF		08021408CF		08021413CF		08022014CF	
Sample Date	2/19/2008		2/19/2008		2/20/2008		2/19/2008		2/15/2008		2/14/2008		2/14/2008		2/14/2008		2/14/2008		2/20/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.90 U	2.40 U	10.0 U	2.40 U	9.90 U	2.40 U	9.90 U	2.40 U	9.80 U	2.40 U	10.0 U	2.40 U	9.90 U	2.40 U	9.90 U	2.40 U	9.80 U	2.40 U	9.60 U
Aroclor 1221	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U
Aroclor 1232	2.30 U	9.90 U	2.30 U	10.0 U	2.30 U	9.90 U	2.30 U	9.90 U	2.30 U	9.80 U	2.30 U	10.0 U	2.30 U	9.90 U	2.30 U	9.90 U	2.30 U	9.80 U	2.30 U	9.60 U
Aroclor 1242	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.90 U	2.20 U	9.80 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.90 U	2.20 U	9.80 U	2.20 U	9.60 U
Aroclor 1248	0.510 U	9.90 U	0.510 U	10.0 U	0.510 U	9.90 U	0.510 U	9.90 U	0.510 U	9.80 U	0.510 U	10.0 U	0.510 U	9.90 U	0.510 U	9.90 U	0.510 U	9.80 U	0.510 U	9.60 U
Aroclor 1254	1.80 U	9.90 U	1.80 U	10.0 U	1.80 U	9.90 U	1.80 U	9.90 U	1.80 U	9.80 U	19.0 U	19.0 U	1.90 U	9.90 U	1.80 U	9.90 U	1.80 U	9.80 U	1.80 U	9.60 U
Aroclor 1260	1.90 U	9.90 U	1.90 U	10.0 U	1.90 U	9.90 U	8.60 U	9.90 U	7.10 U	9.80 U	17.0 U	17.0 U	4.00 U	9.90 U	1.90 U	9.90 U	1.90 U	9.80 U	1.90 U	9.60 U
Aroclor 1262	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.90 U	9.80 U	9.80 U	10.0 U	10.0 U	2.60 U	9.90 U	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.60 U
Aroclor 1268	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	9.60 U
Total PCBs as Aroclors [1]	2.60 U	20.00 U	2.60 U	20.0 U	2.60 U	20.0 U	8.60 U	20.0 U	9.80 U	20.0 U	19.0 U	20.0 U	4.00 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U

Notes:

[1] The crayfish Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Forebay crayfish samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-13
Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results
(Page 2 of 10)

Media	Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Sculpin		Sculpin		Sculpin	
Site ID	P15-CF		P16-CF		P17-CF		P18-CF		P19-CF		P20-CF		P21-CF		SF-01		SF-02		SF-03	
Sample ID	08021915CF		08022216CF		08021917CF		08021918CF		08021919CF		08021920CF		08021921CF		F-1		F-2		F-3	
Sample Date	2/19/2008		2/22/2008		2/19/2008		2/19/2008		2/19/2008		2/19/2008		2/19/2008		9/17/2008		9/17/2008		9/17/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.60 U	2.40 U	9.90 U	2.40 U	10.0 U	2.40 U	9.60 U	2.40 U	9.80 U	2.40 U	9.80 U	2.40 U	9.80 U	2.40 U	9.20 U	2.40 U	9.20 U	12.0 U	50.0 U
Aroclor 1221	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U	2.60 U	19.0 U	13.0 U	99.0 U
Aroclor 1232	2.30 U	9.60 U	2.30 U	9.90 U	2.30 U	10.0 U	2.30 U	9.60 U	2.30 U	9.80 U	2.30 U	9.80 U	2.30 U	9.80 U	2.30 U	9.20 U	2.30 U	9.20 U	12.0 U	50.0 U
Aroclor 1242	2.20 U	9.60 U	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	9.60 U	2.20 U	9.80 U	2.20 U	9.80 U	2.20 U	9.80 U	2.20 U	9.20 U	2.20 U	9.20 U	11.0 U	50.0 U
Aroclor 1248	0.510 U	9.60 U	0.510 U	9.90 U	0.510 U	10.0 U	0.510 U	9.60 U	0.510 U	9.80 U	0.510 U	9.80 U	0.510 U	9.80 U	0.510 U	9.20 U	0.510 U	9.20 U	2.60 U	50.0 U
Aroclor 1254	1.80 U	9.60 U	1.80 U	9.90 U	1.80 U	10.0 U	1.80 U	9.60 U	1.80 U	9.80 U	1.80 U	9.80 U	1.80 U	9.80 U	13.0 U	13.0 U	43.0 U	43.0 U	**1700**	**1700**
Aroclor 1260	1.90 U	9.60 U	1.90 U	9.90 U	1.90 U	10.0 U	1.90 U	9.60 U	1.90 U	9.80 U	1.90 U	9.80 U	1.90 U	9.80 U	1.90 U	9.20 U	36.0 U	36.0 U	9.50 U	50.0 U
Aroclor 1262	2.50 U	9.60 U	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.60 U	2.50 U	9.80 U	2.50 U	9.80 U	2.50 U	9.80 U	2.50 U	9.20 U	2.50 U	9.20 U	13.0 U	50.0 U
Aroclor 1268	2.00 U	9.60 U	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	9.60 U	2.00 U	9.80 U	2.00 U	9.80 U	2.00 U	9.80 U	2.00 U	9.20 U	2.00 U	9.20 U	10.0 U	50.0 U
Total PCBs as Aroclors [1]	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	13.0 U	13.0 U	43.0 U	43.0 U	**1700**	**1700**

Notes:

[1] The crayfish Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Forebay crayfish samples.
Only Aroclor 1254 was included in summing sculpin Total PCBs as Aroclors because all other aroclors were undected in Forebay sculpin samples.

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
- = Not Analyzed
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-13
Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results
(Page 3 of 10)

Media	Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin	
Site ID	SF-04		SF-05		SF-06		SF-07		SF-08		SF-09		SF-10		SF-11		SF-12		SF-13	
Sample ID	F-4		F-5		F-6		F-7		F-8		F-9		F-10		F-11		F-12		F-13	
Sample Date	9/17/2008		10/22/2008		9/19/2008		10/21/2008		9/17/2008		9/19/2008		10/21/2008		9/17/2008		2/22/2008		2/22/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.90 U	2.40 U	9.20 U	2.40 U	9.50 U	2.40 U	9.40 U	2.40 U	9.20 U	2.40 U	9.40 U	2.40 U	9.80 U	2.40 U	9.60 U	14.0 UJ	38.0 UJ	8.20 UJ	35.0 UJ
Aroclor 1221	2.60 U	20.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	20.0 U	2.60 U	20.0 U	27.0 UJ	75.0 UJ	69.0 UJ	69.0 UJ
Aroclor 1232	2.30 U	9.90 U	2.30 U	9.20 U	2.30 U	9.50 U	2.30 U	9.40 U	2.30 U	9.20 U	2.30 U	9.40 U	2.30 U	9.80 U	2.30 U	9.60 U	38.0 UJ	38.0 UJ	62.0 UJ	62.0 UJ
Aroclor 1242	2.20 U	9.90 U	2.20 U	9.20 U	2.20 U	9.50 U	2.20 U	9.40 U	2.20 U	9.20 U	2.20 U	9.40 U	2.20 U	9.80 U	2.20 U	9.60 U	23.0 UJ	38.0 UJ	35.0 UJ	35.0 UJ
Aroclor 1248	0.510 U	9.90 U	0.510 U	9.20 U	0.510 U	9.50 U	0.510 U	9.40 U	0.510 U	9.20 U	0.510 U	9.40 U	0.510 U	9.80 U	0.510 U	9.60 U	13.0 UJ	38.0 UJ	6.70 UJ	35.0 UJ
Aroclor 1254	**470**	**470**	**130**	**130**	130 U	130 U	28.0 U	28.0 U	20.0 U	20.0 U	27.0 U	27.0 U	19.0 U	19.0 U	28.0 U	28.0 U	23.0 UJ	38.0 UJ	35.0 UJ	35.0 UJ
Aroclor 1260	1.90 U	9.90 U	1.90 U	9.20 U	82.0 U	82.0 U	1.90 U	9.40 U	1.90 U	9.20 U	13.0 U	13.0 U	1.90 U	9.80 U	1.90 U	9.60 U	38.0 UJ	38.0 UJ	6.50 UJ	35.0 UJ
Aroclor 1262	2.50 U	9.90 U	2.50 U	9.20 U	2.50 U	9.50 U	2.50 U	9.40 U	2.50 U	9.20 U	2.50 U	9.40 U	2.50 U	9.80 U	2.50 U	9.60 U	9.30 UJ	38.0 UJ	8.60 UJ	35.0 UJ
Aroclor 1268	2.00 U	9.90 U	2.00 U	9.20 U	2.00 U	9.50 U	2.00 U	9.40 U	2.00 U	9.20 U	2.00 U	9.40 U	2.00 U	9.80 U	2.00 U	9.60 U	7.50 UJ	38.0 UJ	6.90 UJ	35.0 UJ
Total PCBs as Aroclors [1]	**470**	**470**	**130**	**130**	130 U	130 U	28.0 U	28.0 U	20.0 U	20.0 U	27.0 U	27.0 U	19.0 U	19.0 U	28.0 U	28.0 U	23.0 UJ	38.0 UJ	35.0 UJ	35.0 UJ

Notes:

[1] Only Aroclor 1254 was included in summing sculpin Total PCBs as Aroclors because all other aroclors were undected in Forebay sculpin samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-13
Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results
(Page 4 of 10)

Media	Sculpin		Sculpin		Sculpin		Sculpin		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass	
Site ID	SF-14		SF-15		SF-16		SF-17		01		02		03		04		05	
Sample ID	F-14		F-15		F-16		F-17		060605100SB		060605101SB		060605200SB		060605201SB		060605202SB	
Sample Date	10/22/2008		10/21/2008		10/21/2008		10/21/2008		6/5/2006		6/5/2006		6/5/2006		6/5/2006		6/5/2006	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	10.0 U	2.40 U	9.90 U	2.40 U	9.80 U	2.40 U	9.30 U	2.40 UJ	10.0 UJ	24.0 UJ	100 UJ	2.40 UJ	10.0 UJ	2.40 UJ	10.0 UJ	2.40 UJ	10.0 UJ
Aroclor 1221	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U	2.60 UJ	20.0 UJ	26.0 UJ	200 UJ	2.60 UJ	20.0 UJ	2.60 UJ	20.0 UJ	2.60 UJ	20.0 UJ
Aroclor 1232	2.30 U	10.0 U	2.30 U	9.90 U	2.30 U	9.80 U	2.30 U	9.30 U	2.30 UJ	10.0 UJ	23.0 UJ	100 UJ	2.30 UJ	10.0 UJ	2.30 UJ	10.0 UJ	2.30 UJ	10.0 UJ
Aroclor 1242	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.80 U	2.20 U	9.30 U	2.20 UJ	10.0 UJ	22.0 UJ	100 UJ	2.20 UJ	10.0 UJ	2.20 UJ	10.0 UJ	2.20 UJ	10.0 UJ
Aroclor 1248	0.510 U	10.0 U	0.510 U	9.90 U	0.510 U	9.80 U	0.510 U	9.30 U	0.510 UJ	10.0 UJ	5.10 UJ	100 UJ	68.0 UJ	68.0 UJ	0.510 UJ	10.0 UJ	5.00 UJ	10.0 UJ
Aroclor 1254	29.0 U	29.0 U	27.0 U	27.0 U	37.0 U	37.0 U	32.0 U	32.0 U	28.0 UJ	28.0 UJ	**1300 J**	**1300 J**	240 UJ	240 UJ	67.0 UJ	67.0 UJ	**51.0 J**	**51.0 J**
Aroclor 1260	1.90 U	10.0 U	1.90 U	9.90 U	1.90 U	9.80 U	1.90 U	9.30 U	24.0 UJ	24.0 UJ	19.0 UJ	100 UJ	150 UJ	150 UJ	48.0 UJ	48.0 UJ	25.0 UJ	25.0 UJ
Aroclor 1262	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.30 U	2.50 UJ	10.0 UJ	25.0 UJ	100 UJ	98.0 UJ	98.0 UJ	21.0 UJ	21.0 UJ	8.40 UJ	10.0 UJ
Aroclor 1268	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	9.30 U	2.00 UJ	10.0 UJ	20.0 UJ	100 UJ	2.00 UJ	10.0 UJ	2.00 UJ	10.0 UJ	2.00 UJ	10.0 UJ
Total PCBs as Aroclors [1]	29.0 U	29.0 U	27.0 U	27.0 U	37.0 U	37.0 U	32.0 U	32.0 U	30.2 UJ	38.0 UJ	**1322 J**	**1400 J**	242 UJ	250 UJ	69.2 UJ	77.0 UJ	**53.2 J**	**61.0 J**

Notes:

[1] Only Aroclor 1254 was included in summing sculpin Total PCBs as Aroclors because all other aroclors were undected in Forebay sculpin samples.
Only Aroclors 1242 and 1254 were included in summing smallmouth bass Total PCBs as Aroclors because all other aroclors were undected in Forebay smallmouth bass samples.

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
- = Not Analyzed
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-13
Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results
(Page 5 of 10)

Media	Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass	
Site ID	06		07		08		09		10		11		12		13		14	
Sample ID	060605203SB		060605204SB		060605205SB		060605207SB		060605208SB		060605209SB		060606102SB		060606103SB		060606104SB	
Sample Date	6/5/2006		6/5/2006		6/5/2006		6/5/2006		6/5/2006		6/5/2006		6/6/2006		6/6/2006		6/6/2006	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.50 UJ	11.0 UJ	2.40 UJ	10.0 UJ	24.0 UJ	100 UJ	4.70 UJ	9.90 UJ	2.40 UJ	10.0 UJ	240 UJ	1000 UJ	2.40 UJ	10.0 UJ	120 UJ	120 UJ	6.00 UJ	10.0 UJ
Aroclor 1221	2.70 UJ	21.0 UJ	2.60 UJ	20.0 UJ	26.0 UJ	200 UJ	25.0 UJ	25.0 UJ	2.60 UJ	20.0 UJ	260 UJ	2000 UJ	2.60 UJ	20.0 UJ	20.0 UJ	20.0 UJ	32.0 UJ	32.0 UJ
Aroclor 1232	2.40 UJ	11.0 UJ	2.30 UJ	10.0 UJ	23.0 UJ	100 UJ	14.0 UJ	14.0 UJ	2.30 UJ	10.0 UJ	230 UJ	1000 UJ	2.30 UJ	10.0 UJ	8.90 UJ	9.90 UJ	12.0 UJ	12.0 UJ
Aroclor 1242	2.30 UJ	11.0 UJ	2.20 UJ	10.0 UJ	22.0 UJ	100 UJ	4.40 UJ	9.90 UJ	2.20 UJ	10.0 UJ	220 UJ	1000 UJ	2.20 UJ	10.0 UJ	3.80 UJ	9.90 UJ	10.0 UJ	10.0 UJ
Aroclor 1248	12.0 UJ	12.0 UJ	11.0 UJ	11.0 UJ	5.10 UJ	100 UJ	9.10 UJ	9.90 UJ	12.0 UJ	12.0 UJ	51.0 UJ	1000 UJ	33.0 UJ	33.0 UJ	61.0 UJ	61.0 UJ	4.20 UJ	10.0 UJ
Aroclor 1254	95.0 UJ	95.0 UJ	38.0 UJ	38.0 UJ	**1300 J**	**1300 J**	25.0 UJ	25.0 UJ	96.0 UJ	96.0 UJ	**14000 J**	**14000 J**	85.0 UJ	85.0 UJ	420 UJ	420 UJ	11.0 UJ	11.0 UJ
Aroclor 1260	73.0 UJ	73.0 UJ	37.0 UJ	37.0 UJ	19.0 UJ	100 UJ	67.0 UJ	67.0 UJ	78.0 UJ	78.0 UJ	190 UJ	1000 UJ	300 UJ	300 UJ	200 UJ	200 UJ	26.0 UJ	26.0 UJ
Aroclor 1262	21.0 UJ	21.0 UJ	12.0 UJ	12.0 UJ	25.0 UJ	100 UJ	24.0 UJ	24.0 UJ	50.0 UJ	50.0 UJ	250 UJ	1000 UJ	110 UJ	110 UJ	160 UJ	160 UJ	16.0 UJ	16.0 UJ
Aroclor 1268	2.10 UJ	11.0 UJ	2.00 UJ	10.0 UJ	20.0 UJ	100 UJ	6.40 UJ	9.90 UJ	16.0 UJ	16.0 UJ	200 UJ	1000 UJ	5.90 UJ	10.0 UJ	9.90 UJ	9.90 UJ	5.00 UJ	10.0 UJ
Total PCBs as Aroclors [1]	97.3 UJ	106 UJ	40.2 UJ	48.0 UJ	**1322 J**	**1400 J**	29.4 UJ	34.9 UJ	98.2 UJ	106 UJ	**14220 J**	**15000 J**	87.2 UJ	95.0 UJ	424 UJ	429.9 UJ	21.0 UJ	21.0 UJ

Notes:

[1] Only Aroclors 1242 and 1254 were included in summing smallmouth bass Total PCBs as Aroclors because all other aroclors were undected in Forebay smallmouth bass samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

- = Not Analyzed

J = The reported value is an estimate.

U = The analyte was not detected at or above the MDL.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-13
Forebay - Random Sediment and Tissue PCB Aroclor Analysis Results
(Page 6 of 10)

Media	Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Large Scale Sucker	
Site ID	15		16		17		18		19		SUCKER	
Sample ID	060606210SB		060815402SB		060815403SB		060815405SB		060815406SB		070505LS	
Sample Date	6/6/2006		8/15/2006		8/15/2006		8/15/2006		8/15/2006		5/5/2007	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	10.0 UJ	10.0 UJ	2.40 UJ	10.0 UJ	120 UJ	500 UJ	24.0 UJ	99.0 UJ	9.90 UJ	9.90 UJ	2.40 U	10.0 U
Aroclor 1221	20.0 UJ	20.0 UJ	2.60 UJ	20.0 UJ	130 UJ	990 UJ	26.0 UJ	200 UJ	2.60 UJ	20.0 UJ	2.60 U	20.0 U
Aroclor 1232	10.0 UJ	10.0 UJ	2.30 UJ	10.0 UJ	120 UJ	500 UJ	23.0 UJ	99.0 UJ	9.90 UJ	9.90 UJ	2.30 U	10.0 U
Aroclor 1242	8.50 UJ	10.0 UJ	**260 J**	**260 J**	110 UJ	500 UJ	22.0 UJ	99.0 UJ	4.70 UJ	9.90 UJ	2.20 U	10.0 U
Aroclor 1248	10.0 UJ	10.0 UJ	0.510 UJ	10.0 UJ	26.0 UJ	500 UJ	5.10 UJ	99.0 UJ	5.70 UJ	9.90 UJ	0.510 U	10.0 U
Aroclor 1254	16.0 UJ	16.0 UJ	**330 J**	**330 J**	**18000 J**	**18000 J**	**1400 J**	**1400 J**	13.0 UJ	13.0 UJ	**160**	**160**
Aroclor 1260	31.0 UJ	31.0 UJ	1.90 UJ	10.0 UJ	95.0 UJ	500 UJ	19.0 UJ	99.0 UJ	37.0 UJ	37.0 UJ	1.90 U	10.0 U
Aroclor 1262	10.0 UJ	10.0 UJ	2.50 UJ	10.0 UJ	130 UJ	500 UJ	25.0 UJ	99.0 UJ	12.0 UJ	12.0 UJ	-	-
Aroclor 1268	2.50 UJ	10.0 UJ	2.00 UJ	10.0 UJ	100 UJ	500 UJ	20.0 UJ	99.0 UJ	3.50 UJ	9.90 UJ	2.00 U	10.0 U
Total PCBs as Aroclors [1]	24.5 UJ	26.0 UJ	**590 J**	**590 J**	**18110 J**	**18500 J**	**1422 J**	**1499 J**	17.7 UJ	22.9 UJ	**160**	**160**

Notes:

[1] Only Aroclors 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Forebay smallmouth bass samples.
Only Aroclor 1254 was included in summing sucker Total PCBs as Aroclors because all other aroclors were undected in Forebay large scale sucker samples.

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
- = Not Analyzed
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-14
Forebay - Targeted Sediment and Tissue PCB Aroclor Analysis Results
(Page 1 of 1)

Area	Forebay - Eagle Creek		Forebay - Eagle Creek		Forebay - Goose Island		Forebay - Goose Island		Forebay - Goose Island		Forebay - Goose Island	
Media	Sediment		Sediment		Sediment		Sediment		Clam		Crayfish	
Site ID	P43		P44		P110		P111		P110		P110	
Sample ID	08032043SD		08032044SD		090427110SD		090429111SD		090429110TC		090429110CF	
Sample Date	3/20/2008		3/20/2008		4/27/2009		4/29/2009		4/29/2009		4/29/2009	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.70 U	7.40 U	1.70 U	7.30 U	2.50 U	12.0 U	2.70 U	13.0 U	6.10 UJ	9.70 UJ	2.40 U	9.50 U
Aroclor 1221	1.70 U	15.0 U	1.70 U	15.0 U	2.50 U	24.0 U	2.70 U	26.0 U	5.90 UJ	9.70 UJ	2.60 U	9.50 U
Aroclor 1232	1.70 U	7.40 U	1.70 U	7.30 U	2.50 U	12.0 U	2.70 U	13.0 U	9.70 UJ	9.70 UJ	2.30 U	9.50 U
Aroclor 1242	1.70 U	7.40 U	1.70 U	7.30 U	2.50 U	12.0 U	2.70 U	13.0 U	6.60 UJ	9.70 UJ	2.20 U	9.50 U
Aroclor 1248	**76.0**	**76.0**	1.70 U	7.30 U	2.50 U	12.0 U	2.70 U	13.0 U	5.20 UJ	9.70 UJ	0.510 U	9.50 U
Aroclor 1254	1.70 U	7.40 U	1.70 U	7.30 U	2.50 U	12.0 U	**9.90 J**	**9.90 J**	14.0 UJ	14.0 UJ	1.80 U	9.50 U
Aroclor 1260	1.70 U	7.40 U	1.70 U	7.30 U	2.50 UJ	12.0 UJ	2.70 UJ	13.0 UJ	6.30 UJ	9.70 UJ	1.90 U	9.50 U
Aroclor 1262	1.70 U	7.40 U	1.70 U	7.30 U	-	-	-	-	3.20 UJ	9.70 UJ	2.50 U	9.50 U
Aroclor 1268	1.70 U	7.40 U	1.70 U	7.30 U	-	-	-	-	2.00 UJ	9.70 UJ	2.00 U	9.50 U
Total PCBs as Aroclors [1]	**77.7 J**	**83.4 J**	3.40 U	14.6 U	5.00 U	24.0 U	**12.6 J**	**22.9 J**	14.0 UJ	14.0 UJ	2.60 U	9.50 U

Notes:

[1] Only Aroclors 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.
Only Aroclor 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.
The crayfish Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Forebay crayfish samples.

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
- = Not Analyzed
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
Sediment is in micrograms per kilogram (µg/kg), dry weight
Tissue is in micrograms per kilogram (µg/kg), wet weight

Table H-15
Reference Area Sediment and Tissue PCB Aroclor Analysis Results
(Page 1 of 10)

Media	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
Site ID	P22		P24		P26		P27		P28		P29		P34		P35		P36	
Sample ID	08030522SD		08030524SD		08030426SD		08030427SD		08030428SD		08022229SD		08022534SD		08022535SD		08022536SD	
Sample Date	3/5/2008		3/5/2008		3/4/2008		3/4/2008		3/4/2008		2/22/2008		2/25/2008		2/25/2008		2/25/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	10.0 U	10.0 U	1.70 U	10.0 U
Aroclor 1221	1.70 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U	1.80 U	21.0 U	1.70 U	20.0 U	1.70 U	20.0 U	6.00 U	20.0 U	1.70 U	20.0 U
Aroclor 1232	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	10.0 U	10.0 U	1.70 U	10.0 U
Aroclor 1242	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	16.0 U	16.0 U	1.70 U	10.0 U
Aroclor 1248	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1254	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1260	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1262	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1268	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.60 U	1.80 U	11.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Total PCBs as Aroclors [1]	1.70 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U	1.80 U	21.0 U	1.70 U	20.0 U	1.70 U	20.0 U	16.0 U	20.0 U	1.70 U	20.0 U

Notes:

[1] The sediment Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Reference Area sediment samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

U = The analyte was not detected at or above the MDL.

Sediment is in micrograms per kilogram (µg/kg), dry weight

Table H-15
Reference Area Sediment and Tissue PCB Aroclor Analysis Results
(Page 2 of 10)

Media	Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment		Sediment	
Site ID	P37		P38		P39		P40		P41		P42		P85		P86		P87	
Sample ID	08022637SD		08022738SD		08022739SD		08022740SD		08022741SD		08022742SD		08030685SD		08030686SD		08030687SD	
Sample Date	2/26/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		3/6/2008		3/6/2008		3/6/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.70 U	10.0 U	13.0 U	13.0 U	1.70 U	9.90 U	3.40 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1221	9.80 U	20.0 U	11.0 U	20.0 U	1.70 U	20.0 U	6.20 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U
Aroclor 1232	11.0 U	11.0 U	12.0 U	12.0 U	1.70 U	9.90 U	10.0 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1242	14.0 U	14.0 U	1.70 U	10.0 U	1.70 U	9.90 U	13.0 U	13.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1248	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1254	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1260	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1262	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Aroclor 1268	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U
Total PCBs as Aroclors [1]	14.0 U	20.0 U	13.0 U	20.0 U	1.70 U	20.0 U	13.0 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U	1.70 U	20.0 U

Notes:

[1] The sediment Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Reference Area sediment samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

U = The analyte was not detected at or above the MDL.

Sediment is in micrograms per kilogram (µg/kg), dry weight

Table H-15
Reference Area Sediment and Tissue PCB Aroclor Analysis Results
(Page 3 of 10)

Media	Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam	
Site ID	P22		P24		P26		P27		P28		P29		P34		P35		P36	
Sample ID	08030522TC		08030524TC		08030426TC		08030427TC		08030428TC		08022229TC		08022534TC		08022535TC		08022536TC	
Sample Date	3/5/2008		3/5/2008		3/4/2008		3/4/2008		3/4/2008		2/22/2008		2/25/2008		2/25/2008		2/25/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	13.0 U	13.0 U	11.0 U	11.0 U	11.0 U	11.0 U	12.0 U	12.0 U	8.90 U	9.80 U	13.0 U	13.0 U	12.0 U	12.0 U	9.50 U	9.90 U	8.40 U	9.90 U
Aroclor 1221	14.0 U	20.0 U	14.0 U	20.0 U	14.0 U	20.0 U	8.20 U	20.0 U	9.60 U	20.0 U	16.0 U	20.0 U	15.0 U	20.0 U	8.80 U	20.0 U	12.0 U	20.0 U
Aroclor 1232	19.0 U	19.0 U	18.0 U	18.0 U	22.0 U	22.0 U	27.0 U	27.0 U	18.0 U	18.0 U	26.0 U	26.0 U	23.0 U	23.0 U	28.0 U	28.0 U	19.0 U	19.0 U
Aroclor 1242	13.0 U	13.0 U	7.90 U	9.70 U	11.0 U	11.0 U	12.0 U	12.0 U	12.0 U	12.0 U	13.0 U	13.0 U	13.0 U	13.0 U	14.0 U	14.0 U	13.0 U	13.0 U
Aroclor 1248	5.70 U	10.0 U	5.70 U	9.70 U	7.60 U	9.90 U	8.30 U	9.90 U	5.70 U	9.80 U	7.70 U	9.80 U	6.40 U	9.90 U	9.10 U	9.90 U	9.90 U	9.90 U
Aroclor 1254	**36.0**	**36.0**	**30.0**	**30.0**	**35.0**	**35.0**	**37.0**	**37.0**	**33.0**	**33.0**	**32.0**	**32.0**	**32.0**	**32.0**	**37.0**	**37.0**	**38.0**	**38.0**
Aroclor 1260	6.40 U	10.0 U	6.20 U	9.70 U	6.50 U	9.90 U	6.80 U	9.90 U	6.60 U	9.80 U	5.70 U	9.80 U	5.90 U	9.90 U	7.70 U	9.90 U	7.60 U	9.90 U
Aroclor 1262	9.30 U	10.0 U	7.20 U	9.70 U	7.70 U	9.90 U	7.80 U	9.90 U	7.50 U	9.80 U	8.00 U	9.80 U	8.10 U	9.90 U	8.10 U	9.90 U	7.70 U	9.90 U
Aroclor 1268	2.00 U	10.0 U	2.00 U	9.70 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	9.80 U	2.00 U	9.80 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	9.90 U
Total PCBs as Aroclors [1]	**36.0**	**36.0**	**30.0**	**30.0**	**35.0**	**35.0**	**37.0**	**37.0**	**33.0**	**33.0**	**32.0**	**32.0**	**32.0**	**32.0**	**37.0**	**37.0**	**38.0**	**38.0**

Notes:
[1] Only Aroclors 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Reference Area clam samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
U = The analyte was not detected at or above the MDL.
Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-15
Reference Area Sediment and Tissue PCB Aroclor Analysis Results
(Page 4 of 10)

Media	Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam		Clam	
Site ID	P37		P38		P39		P40		P41		P42		P85		P86		P87	
Sample ID	08022637TC		08022738TC		08022739TC		08022740TC		08022741TC		08022742TC		08030685TC		08030686TC		08030687TC	
Sample Date	2/26/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		3/6/2008		3/6/2008		3/6/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	9.70 U	9.90 U	15.0 U	15.0 U	15.0 U	15.0 U	12.0 U	12.0 U	14.0 U	14.0 U	12.0 U	12.0 U	14.0 U	14.0 U	12.0 U	12.0 U	9.50 U	10.0 U
Aroclor 1221	16.0 U	20.0 U	6.30 U	20.0 U	7.40 U	20.0 U	12.0 U	20.0 U	7.50 U	20.0 U	16.0 U	20.0 U	12.0 U	20.0 U	9.10 U	20.0 U	9.20 U	20.0 U
Aroclor 1232	29.0 U	29.0 U	35.0 U	35.0 U	33.0 U	33.0 U	22.0 U	22.0 U	31.0 U	31.0 U	20.0 U	20.0 U	28.0 U	28.0 U	24.0 U	24.0 U	26.0 U	26.0 U
Aroclor 1242	9.30 U	9.90 U	12.0 U	12.0 U	11.0 U	11.0 U	9.70 U	10.0 U	14.0 U	14.0 U	9.40 U	10.0 U	9.90 U	9.90 U	9.20 U	9.90 U	9.50 U	10.0 U
Aroclor 1248	9.90 U	9.90 U	9.40 U	9.90 U	9.60 U	9.60 U	8.70 U	10.0 U	8.90 U	9.80 U	8.20 U	10.0 U	9.90 U	9.90 U	7.10 U	9.90 U	5.50 U	10.0 U
Aroclor 1254	**35.0**	**35.0**	**37.0**	**37.0**	**38.0**	**38.0**	**37.0**	**37.0**	**39.0**	**39.0**	**35.0**	**35.0**	**34.0**	**34.0**	**31.0**	**31.0**	**33.0**	**33.0**
Aroclor 1260	7.30 U	9.90 U	8.10 U	9.90 U	7.50 U	9.60 U	6.90 U	10.0 U	7.70 U	9.80 U	7.50 U	10.0 U	6.70 U	9.90 U	6.20 U	9.90 U	6.60 U	10.0 U
Aroclor 1262	3.70 U	9.90 U	7.60 U	9.90 U	9.10 U	9.60 U	9.90 U	10.0 U	7.80 U	9.80 U	9.10 U	10.0 U	8.20 U	9.90 U	7.90 U	9.90 U	8.40 U	10.0 U
Aroclor 1268	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	9.60 U	2.00 U	10.0 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	10.0 U
Total PCBs as Aroclors [1]	**35.0**	**35.0**	**37.0**	**37.0**	**38.0**	**38.0**	**37.0**	**37.0**	**39.0**	**39.0**	**35.0**	**35.0**	**34.0**	**34.0**	**31.0**	**31.0**	**33.0**	**33.0**

Notes:
[1] Only Aroclors 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Reference Area clam samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
U = The analyte was not detected at or above the MDL.
Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-15
Reference Area Sediment and Tissue PCB Aroclor Analysis Results
(Page 1 of 10)

Media	Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish	
Site ID	P100-CF		P105-CF		P22-CF		P33-CF		P38-CF		P42-CF		P72-CF		P73-CF		P74-CF		P75-CF	
Sample ID	080312100CF		080314105CF		08022622CF		08022233CF		08021838CF		08022842CF		08030372CF		08030373CF		08030374CF		08030375CF	
Sample Date	3/12/2008		3/14/2008		2/26/2008		2/26/2008		2/18/2008		2/28/2008		3/3/2008		3/3/2008		3/3/2008		3/3/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.90 U	3.00 U	13.0 U	2.40 U	9.40 U	2.40 U	9.90 U	4.60 U	20.0 U	2.40 U	10.0 U	2.40 U	10.0 U	2.40 U	9.50 U	2.40 U	9.90 U	2.40 U	9.80 U
Aroclor 1221	2.60 U	20.0 U	3.30 U	25.0 U	2.60 U	19.0 U	2.60 U	20.0 U	5.00 U	39.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U	2.60 U	20.0 U	2.60 U	20.0 U
Aroclor 1232	2.30 U	9.90 U	2.90 U	13.0 U	2.30 U	9.40 U	2.30 U	9.90 U	4.40 U	20.0 U	2.30 U	10.0 U	2.30 U	10.0 U	2.30 U	9.50 U	2.30 U	9.90 U	2.30 U	9.80 U
Aroclor 1242	2.20 U	9.90 U	2.80 U	13.0 U	2.20 U	9.40 U	2.20 U	9.90 U	4.30 U	20.0 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.50 U	2.20 U	9.90 U	2.20 U	9.80 U
Aroclor 1248	0.510 U	9.90 U	0.64 U	13.0 U	0.510 U	9.40 U	0.510 U	9.90 U	0.98 U	20.0 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.50 U	0.510 U	9.90 U	0.510 U	9.80 U
Aroclor 1254	1.80 U	9.90 U	2.30 U	13.0 U	1.80 U	9.40 U	1.80 U	9.90 U	3.50 U	20.0 U	1.80 U	10.0 U	1.80 U	10.0 U	1.80 U	9.50 U	1.80 U	9.90 U	1.80 U	9.80 U
Aroclor 1260	1.90 U	9.90 U	2.40 U	13.0 U	1.90 U	9.40 U	1.90 U	9.90 U	3.70 U	20.0 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.50 U	1.90 U	9.90 U	1.90 U	9.80 U
Aroclor 1262	2.50 U	9.90 U	3.20 U	13.0 U	2.50 U	9.40 U	2.50 U	9.90 U	4.80 U	20.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.50 U	2.50 U	9.90 U	2.50 U	9.80 U
Aroclor 1268	2.00 U	9.90 U	2.50 U	13.0 U	2.00 U	9.40 U	2.00 U	9.90 U	3.90 U	20.0 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.50 U	2.00 U	9.90 U	2.00 U	9.80 U
Total PCBs as Aroclors [1]	2.60 U	20.00 U	3.30 U	25.0 U	2.60 U	19.00 U	2.60 U	20.00 U	5.00 U	39.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.00 U	2.60 U	20.00 U	2.60 U	20.00 U

Notes:

[1] The crayfish Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Reference Area crayfish samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-15
Reference Area Sediment and Tissue PCB Aroclor Analysis Results
(Page 2 of 10)

Media	Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Crayfish		Sculpin	
Site ID	P76-CF		P78-CF		P79-CF		P82-CF		P90-CF		P91-CF		P92-CF		P94-CF		P98-CF		SR-01	
Sample ID	08030376CF		08030378CF		08030379CF		08030382CF		08031290CF		08031291CF		08031292CF		08031294CF		08031298CF		R-1	
Sample Date	3/3/2008		3/3/2008		3/3/2008		3/3/2008		3/12/2008		3/12/2008		3/12/2008		3/12/2008		3/12/2008		7/23/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	10.0 U	2.40 U	10.0 U	2.40 U	9.80 U	2.40 U	10.0 U	2.40 U	9.40 U	4.80 U	20.0 U	2.40 U	9.90 U	2.40 U	9.90 U	2.40 U	10.0 U	2.40 U	9.70 U
Aroclor 1221	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U	5.20 U	40.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U
Aroclor 1232	2.30 U	10.0 U	2.30 U	10.0 U	2.30 U	9.80 U	2.30 U	10.0 U	2.30 U	9.40 U	4.60 U	20.0 U	2.30 U	9.90 U	2.30 U	9.90 U	2.30 U	10.0 U	2.30 U	9.70 U
Aroclor 1242	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.80 U	2.20 U	10.0 U	2.20 U	9.40 U	4.40 U	20.0 U	2.20 U	9.90 U	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	9.70 U
Aroclor 1248	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.80 U	0.510 U	10.0 U	0.510 U	9.40 U	1.10 U	20.0 U	0.510 U	9.90 U	0.510 U	9.90 U	0.510 U	10.0 U	45.0 U	45.0 U
Aroclor 1254	1.80 U	10.0 U	1.80 U	10.0 U	1.80 U	9.80 U	1.80 U	10.0 U	1.80 U	9.40 U	3.60 U	20.0 U	1.80 U	9.90 U	1.80 U	9.90 U	1.80 U	10.0 U	1.80 U	9.70 U
Aroclor 1260	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.80 U	1.90 U	10.0 U	1.90 U	9.40 U	3.80 U	20.0 U	1.90 U	9.90 U	1.90 U	9.90 U	1.90 U	10.0 U	1.90 U	9.70 U
Aroclor 1262	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.80 U	2.50 U	10.0 U	2.50 U	9.40 U	5.00 U	20.0 U	2.50 U	9.90 U	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.70 U
Aroclor 1268	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	9.40 U	4.00 U	20.0 U	2.00 U	9.90 U	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	9.70 U
Total PCBs as Aroclors [1]	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.00 U	2.60 U	20.0 U	2.60 U	19.00 U	5.20 U	40.0 U	2.60 U	20.00 U	2.60 U	20.00 U	2.60 U	20.0 U	45.0 U	45.00 U

Notes:

[1] The crayfish and sculpin Total PCBs as Aroclors are shown as the maximum MDL/MRL because all aroclors were undected in Reference Area crayfish and sculpin samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-15
Reference Area Sediment and Tissue PCB Aroclor Analysis Results
(Page 3 of 10)

Media	Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin	
Site ID	SR-02		SR-03		SR-04		SR-05		SR-06		SR-07		SR-08		SR-09		SR-10		SR-11	
Sample ID	R-2		R-3		R-4		R-5		R-6		R-7		R-8		R-9		R-10		R-11	
Sample Date	7/24/2008		3/14/2008		10/9/2008		7/24/2008		2/26/2008		3/10/2008		10/9/2008		7/24/2008		7/23/2008		3/3/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.80 U	2.40 U	10.0 U	2.40 U	10.0 U	2.40 U	9.50 U	2.40 U	9.40 U	2.40 U	9.60 U	2.40 U	9.90 U	2.40 U	9.60 U	2.40 U	9.80 U	2.40 U	9.50 U
Aroclor 1221	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	19.0 U
Aroclor 1232	2.30 U	9.80 U	2.30 U	10.0 U	2.30 U	10.0 U	2.30 U	9.50 U	2.30 U	9.40 U	2.30 U	9.60 U	2.30 U	9.90 U	2.30 U	9.60 U	2.30 U	9.80 U	2.30 U	9.50 U
Aroclor 1242	2.20 U	9.80 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.50 U	2.20 U	9.40 U	2.20 U	9.60 U	2.20 U	9.90 U	2.20 U	9.60 U	2.20 U	9.80 U	2.20 U	9.50 U
Aroclor 1248	0.510 U	9.80 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.50 U	0.510 U	9.40 U	0.510 U	9.60 U	0.510 U	9.90 U	0.510 U	9.60 U	0.510 U	9.80 U	0.510 U	9.50 U
Aroclor 1254	17.0 U	17.0 U	19.0 U	19.0 U	21.0 U	21.0 U	23.0 U	23.0 U	22.0 U	22.0 U	17.0 U	17.0 U	39.0 U	39.0 U	19.0 U	19.0 U	28.0 U	28.0 U	24.0 U	24.0 U
Aroclor 1260	1.90 U	9.80 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.50 U	1.90 U	9.40 U	1.90 U	9.60 U	1.90 U	9.90 U	1.90 U	9.60 U	1.90 U	9.80 U	1.90 U	9.50 U
Aroclor 1262	2.50 U	9.80 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.50 U	2.50 U	9.40 U	2.50 U	9.60 U	2.50 U	9.90 U	2.50 U	9.60 U	2.50 U	9.80 U	2.50 U	9.50 U
Aroclor 1268	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.50 U	2.00 U	9.40 U	2.00 U	9.60 U	2.00 U	9.90 U	2.00 U	9.60 U	2.00 U	9.80 U	2.00 U	9.50 U
Total PCBs as Aroclors [1]	17.0 U	20.0 U	19.0 U	20.0 U	21.0 U	21.0 U	23.0 U	23.0 U	22.0 U	22.0 U	17.0 U	20.0 U	39.0 U	39.0 U	19.0 U	20.0 U	28.0 U	28.0 U	24.0 U	24.0 U

Notes:

[1] The sculpin Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Reference Area sculpin samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-15
Reference Area Sediment and Tissue PCB Aroclor Analysis Results
(Page 4 of 10)

Media	Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Sculpin		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass	
Site ID	SR-12		SR-13		SR-14		SR-15		SR-16		SR-17		SR-18		20		21		22	
Sample ID	R-12		R-13		R-14		R-15		R-16		R-17		R-18		071027R01SB		071027R02SB		071027R03SB	
Sample Date	10/9/2008		7/23/2008		10/10/2008		10/9/2008		10/10/2008		10/9/2008		7/24/2008		10/27/2007		10/27/2007		10/27/2007	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	9.20 U	2.40 U	9.20 U	2.40 U	9.40 U	2.40 U	9.60 U	2.40 U	9.50 U	2.40 U	9.70 U	2.40 U	9.80 U	3.50 U	10.0 U	4.70 U	10.0 U	3.40 U	9.90 U
Aroclor 1221	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	19.0 U	2.60 U	20.0 U	2.60 U	19.0 U	2.60 U	20.0 U	2.60 U	20.0 U	4.70 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U
Aroclor 1232	2.30 U	9.20 U	2.30 U	9.20 U	2.30 U	9.40 U	2.30 U	9.60 U	2.30 U	9.50 U	2.30 U	9.70 U	2.30 U	9.80 U	6.10 U	10.0 U	5.90 U	10.0 U	3.90 U	9.90 U
Aroclor 1242	2.20 U	9.20 U	2.20 U	9.20 U	2.20 U	9.40 U	2.20 U	9.60 U	2.20 U	9.50 U	2.20 U	9.70 U	2.20 U	9.80 U	4.50 UJ	10.0 UJ	6.30 UJ	10.0 UJ	2.20 UJ	9.90 UJ
Aroclor 1248	0.510 U	9.20 U	0.510 U	9.20 U	0.510 U	9.40 U	0.510 U	9.60 U	0.510 U	9.50 U	0.510 U	9.70 U	0.510 U	9.80 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.90 U
Aroclor 1254	13.0 U	13.0 U	36.0 U	36.0 U	20.0 U	20.0 U	35.0 U	35.0 U	38.0 U	38.0 U	30.0 U	30.0 U	44.0 U	44.0 U	**59.0 J**	**59.0 J**	**32.0 J**	**32.0 J**	**51.0 J**	**51.0 J**
Aroclor 1260	1.90 U	9.20 U	1.90 U	9.20 U	1.90 U	9.40 U	1.90 U	9.60 U	1.90 U	9.50 U	1.90 U	9.70 U	1.90 U	9.80 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.90 U
Aroclor 1262	2.50 U	9.20 U	2.50 U	9.20 U	2.50 U	9.40 U	2.50 U	9.60 U	2.50 U	9.50 U	2.50 U	9.70 U	2.50 U	9.80 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.90 U
Aroclor 1268	2.00 U	9.20 U	2.00 U	9.20 U	2.00 U	9.40 U	2.00 U	9.60 U	2.00 U	9.50 U	2.00 U	9.70 U	2.00 U	9.80 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.90 U
Total PCBs as Aroclors [1]	13.0 U	19.0 U	36.0 U	36.0 U	20.0 U	20.0 U	35.0 U	35.0 U	38.0 U	38.0 U	30.0 U	30.0 U	44.0 U	44.0 U	**63.5 J**	**69.0 J**	**38.3 J**	**42.0 J**	**53.2 J**	**60.9 J**

Notes:

[1] The sculpin Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Reference Area sculpin samples.
Only Aroclor 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Reference Area smallmouth bass samples.

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-15
Reference Area Sediment and Tissue PCB Aroclor Analysis Results
(Page 5 of 10)

Media	Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass	
Site ID	23		24		25		26		27		28		29		30		31	
Sample ID	071027R04SB		071027R05SB		071027R06SB		071115R07SB		080517R10SB		080517R11SB		080517R12SB		080517R13SB		080517R14SB	
Sample Date	10/27/2007		10/27/2007		10/27/2007		11/15/2007		5/17/2008		5/17/2008		5/17/2008		5/17/2008		5/17/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.40 U	10.0 U	9.90 U	9.90 U	2.40 U	10.0 U	3.80 U	10.0 U	2.40 U	10.0 U	7.90 U	10.0 U	4.80 U	10.0 U	2.40 U	10.0 U	6.00 U	9.90 U
Aroclor 1221	2.60 U	20.0 U	20.0 U	20.0 U	2.60 U	20.0 U	3.80 U	20.0 U	2.60 U	20.0 U	18.0 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	20.0 U	20.0 U
Aroclor 1232	2.30 U	10.0 U	9.90 U	9.90 U	2.30 U	10.0 U	3.10 U	10.0 U	2.30 U	10.0 U	10.0 U	10.0 U	5.10 U	10.0 U	2.30 U	10.0 U	9.90 U	9.90 U
Aroclor 1242	2.20 UJ	10.0 UJ	**14.0 J**	**14.0 J**	**9.50 J**	**9.50 J**	2.20 UJ	10.0 UJ	**5.60 J**	**5.60 J**	10.0 UJ	10.0 UJ	2.20 UJ	10.0 UJ	**2.40 J**	**2.40 J**	2.20 UJ	9.90 UJ
Aroclor 1248	0.510 U	10.0 U	0.510 U	9.90 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	10.0 U	6.90 U	9.90 U
Aroclor 1254	9.60 UJ	10.0 UJ	**110 J**	**110 J**	**58.0 J**	**58.0 J**	**27.0 J**	**27.0 J**	**34.0 J**	**34.0 J**	**37.0 J**	**37.0 J**	**29.0 J**	**29.0 J**	**80.0 J**	**80.0 J**	17.0 UJ	17.0 UJ
Aroclor 1260	14.0 U	14.0 U	1.90 U	9.90 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	10.0 U	46.0 U	46.0 U
Aroclor 1262	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	21.0 U	21.0 U
Aroclor 1268	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	10.0 U	3.40 U	9.90 U
Total PCBs as Aroclors [1]	11.8 UJ	20.0 UJ	**124 J**	**124 J**	**67.5 J**	**67.5 J**	**29.2 J**	**37.0 J**	**39.6 J**	**39.6 J**	**47.0 J**	**47.0 J**	**31.2 J**	**39.0 J**	**82.4 J**	**82.4 J**	19.2 UJ	26.9 UJ

Notes:

[1] Only Aroclor 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Reference Area smallmouth bass samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

J = The reported value is an estimate.

UJ = The analyte was not detected. The reported MDL/MRL is an estimate.

U = The analyte was not detected at or above the MDL.

Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-15
Reference Area Sediment and Tissue PCB Aroclor Analysis Results
(Page 6 of 10)

Media	Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass		Smallmouth Bass	
Site ID	32		33		34		35		36		37		38	
Sample ID	080521R15SB		080521R16SB		080521R17SB		080521R18SB		080521R19SB		080521R20SB		080521R21SB	
Sample Date	5/21/2008		5/21/2008		5/21/2008		5/21/2008		5/21/2008		5/21/2008		5/21/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	3.10 U	10.0 U	5.90 U	10.0 U	5.20 U	10.0 U	4.50 U	10.0 U	5.40 U	10.0 U	7.30 U	10.0 U	4.50 U	9.90 U
Aroclor 1221	2.60 U	20.0 U	6.90 U	20.0 U	5.90 U	20.0 U	7.40 U	20.0 U	20.0 U	20.0 U	12.0 U	20.0 U	3.70 U	20.0 U
Aroclor 1232	10.0 U	10.0 U	5.70 U	10.0 U	3.90 U	10.0 U	4.40 U	10.0 U	5.40 U	10.0 U	10.0 U	10.0 U	11.0 U	11.0 U
Aroclor 1242	2.20 UJ	10.0 UJ	2.20 UJ	10.0 UJ	2.90 UJ	10.0 UJ	10.0 UJ	10.0 UJ	2.20 UJ	10.0 UJ	10.0 UJ	10.0 UJ	3.80 UJ	9.90 UJ
Aroclor 1248	0.510 U	10.0 U	33.0 U	33.0 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	10.0 U	0.510 U	9.90 U
Aroclor 1254	**47.0 J**	**47.0 J**	130 UJ	130 UJ	**47.0 J**	**47.0 J**	**46.0 J**	**46.0 J**	**85.0 J**	**85.0 J**	**37.0 J**	**37.0 J**	**58.0 J**	**58.0 J**
Aroclor 1260	1.90 U	10.0 U	140 U	140 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	10.0 U	1.90 U	9.90 U
Aroclor 1262	2.50 U	10.0 U	110 U	110 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.90 U
Aroclor 1268	2.00 U	10.0 U	10.0 U	10.0 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	10.0 U	2.00 U	9.90 U
Total PCBs as Aroclors [1]	**49.2 J**	**57.0 J**	132 UJ	140 UJ	**49.9 J**	**57.0 J**	**56.0 J**	**56.0 J**	**87.2 J**	**95.0 J**	**47.0 J**	**47.0 J**	**58.0 J**	**58.0 J**

Notes:

[1] Only Aroclor 1242 and 1254 were included in summing bass Total PCBs as Aroclors because all other aroclors were undected in Reference Area smallmouth bass samples.
Only Aroclor 1254 was included in summing sucker Total PCBs as Aroclors because all other aroclors were undected in Reference Area large scale sucker samples.

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
Tissues are in micrograms per kilogram (µg/kg), wet weight

Table H-16
Forebay - Pre-Removal Sediment and Tissue PCB Aroclor Analysis Results
(Page 1 of 1)

Media	Sediment		Sediment		Sediment		Sediment		Sediment		Clam		Clam		Clam		Clam	
Site ID	A1		A2*		A3		A4		A5		A1*		A2		A3		A5	
Sample ID	070926A1 SD		070926A2 SD		070927A3 SD		070925A4 SD		070925A5 SD		070926A1TC		070926A2TC		070927A3TC		070925A5TC	
Sample Date	9/26/2007		9/26/2007		9/27/2007		9/25/2007		9/25/2007		9/26/2007		9/26/2007		9/27/2007		9/25/2007	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	2.40 U	10.0 U	2.40 U	9.90 U	2.40 U	9.80 U	4.70 U	20.0 U
Aroclor 1221	2.60 U	16.0 U	2.80 U	16.0 U	5.80 U	34.0 U	3.00 U	17.0 U	2.80 U	17.0 U	2.60 U	20.0 U	2.60 U	20.0 U	2.60 U	20.0 U	5.10 U	40.0 U
Aroclor 1232	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	2.30 U	10.0 U	2.30 U	9.90 U	2.30 U	9.80 U	4.50 U	20.0 U
Aroclor 1242	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.80 U	4.40 U	20.0 U
Aroclor 1248	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	0.510 U	10.0 U	0.510 U	9.90 U	0.510 U	9.80 U	1.00 U	20.0 U
Aroclor 1254	**130**	**130**	**44.0**	**44.0**	5.80 U	17.0 U	**100**	**100**	**13.0**	**13.0**	**355**	**355**	**250**	**250**	**180**	**180**	**120**	**120**
Aroclor 1260	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	1.90 U	10.0 U	1.90 U	9.90 U	1.90 U	9.80 U	3.80 U	20.0 U
Aroclor 1262	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	-	-	-	-	-	-	-	-
Aroclor 1268	2.60 U	7.60 U	2.80 U	8.00 U	5.80 U	17.0 U	3.00 U	8.50 U	2.80 U	8.10 U	2.00 U	10.0 U	2.00 U	9.90 U	2.00 U	9.80 U	4.00 U	20.0 U
Total PCBs as Aroclors [1]	**133 J**	**138 J**	**46.8 J**	**52.0 J**	11.6 U	34.0 U	**103 J**	**109 J**	**15.8 J**	**21.1 J**	**355**	**355**	**250**	**250**	**180**	**180**	**120**	**120**

Notes:

[1] Only Aroclor 1248 and 1254 were included in summing sediment Total PCBs as Aroclors because all other aroclors were undected in Forebay sediment samples.
Only Aroclor 1254 was included in summing clam Total PCBs as Aroclors because all other aroclors were undected in Forebay clam samples.

MDL = method detection limit

MRL = method reporting limit

bold = analyte detected above MDL.

- = Not Analyzed

U = The analyte was not detected at or above the MDL.

* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

Sediment is in micrograms per kilogram (µg/kg), dry weight

Tissue is in micrograms per kilogram (µg/kg), wet weight

Table H-17
Downstream Sediment PCB Aroclor Analysis Results
(Page 1 of 1)

Site ID	P46		P47		P48		P49		P50		P51	
Sample ID	08031046SD		08031047SD		08031048SD		08031049SD		08031150SD		08031151SD	
Sample Date	3/10/2008		3/10/2008		3/10/2008		3/10/2008		3/11/2008		3/11/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
Aroclor 1016	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1221	1.70 U	14.0 U	1.70 U	14.0 U	1.70 U	15.0 U	1.70 U	15.0 U	1.70 U	18.0 U	1.70 U	15.0 U
Aroclor 1232	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1242	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1248	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1254	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1260	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1262	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Aroclor 1268	1.70 U	7.00 U	1.70 U	7.00 U	1.70 U	7.10 U	1.70 U	7.30 U	1.70 U	8.80 U	1.70 U	7.30 U
Total PCBs as Aroclors [1]	1.70 U	14.0 U	1.70 U	14.0 U	1.70 U	15.0 U	1.70 U	15.0 U	1.70 U	18.0 U	1.70 U	15.0 U

Notes:

[1] Total PCBs as Aroclors is shown as the maximum MDL/MRL because all aroclors were undected in Downstream sediment samples.
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
- = Not Analyzed
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1
All units are in micrograms per kilogram (µg/kg), dry weight

Table H-18
Forebay - Random Sediment PAH Analysis Results
(Page 1 of 2)

Site ID	P04		P05		P06		P07		P08		P09		P10		P11		P13		P14	
Sample ID	08022604SD		08031905SD		08031806SD		08021507SD		08021508SD		08021409SD		08021410SD		08021411SD		08031713SD		08031814SD	
Sample Date	2/26/2008		3/19/2008		3/18/2008		2/15/2008		2/15/2008		2/14/2008		2/14/2008		2/14/2008		3/17/2008		3/18/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																				
Acenaphthene	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	9.80 U	1.00 U	9.90 U	1.00 U	9.80 U	1.00 U	9.90 U	1.00 U	9.90 U	1.00 U	10.0 U	1.00 U	9.80 U	1.00 U	9.90 U
Anthracene	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	9.80 U	1.40 U	9.90 U	1.40 U	9.80 U	1.40 U	9.90 U	1.40 U	9.90 U	**2.00 J**	**2.00 J**	**2.70 J**	**2.70 J**	1.40 U	9.90 U
Fluorene	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U	1.70 U	9.80 U	1.70 U	9.90 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	9.80 U	1.70 U	9.90 U
Phenanthrene	**3.30 J**	**3.30 J**	**1.40 J**	**1.40 J**	1.30 U	9.80 U	**3.40 J**	**3.40 J**	1.30 U	9.80 U	**1.80 J**	**1.80 J**	**1.90 J**	**1.90 J**	**7.10 J**	**7.10 J**	**5.40 J**	**5.40 J**	**2.10 J**	**2.10 J**
Total LPAHs (full MDL/MRL)	**7.40 J**	**33.3 J**	**5.50 J**	**31.4 J**	5.40 U	39.2 U	**7.50 J**	**33.1 J**	5.40 U	39.2 U	**5.90 J**	**31.5 J**	**6.00 J**	**31.6 J**	**11.8 J**	**29.1 J**	**10.8 J**	**27.7 J**	**6.20 J**	**31.8 J**
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Total LPAHs (KM, capped)	**7.40 J**	**33.3 J**	**5.50 J**	**31.4 J**	5.40 U	39.2 U	**7.50 J**	**33.1 J**	5.40 U	39.2 U	**5.90 J**	**31.5 J**	**6.00 J**	**31.6 J**	**11.8 J**	**29.1 J**	**10.8 J**	**27.7 J**	**6.20 J**	**31.8 J**
HPAHs																				
Benzo(a)anthracene	**3.90 J**	**3.90 J**	**1.60 J**	**1.60 J**	1.40 U	9.80 U	1.40 U	9.90 U	1.40 U	9.80 U	**2.70 J**	**2.70 J**	**2.30 J**	**2.30 J**	**7.40 J**	**7.40 J**	**12.0**	**12.0**	**2.20 J**	**2.20 J**
Benzo(a)pyrene	**4.40 J**	**4.40 J**	**1.70 J**	**1.70 J**	1.60 U	9.80 U	1.60 U	9.90 U	1.60 U	9.80 U	**4.50 J**	**4.50 J**	**3.00 J**	**3.00 J**	**7.50 J**	**7.50 J**	**6.10 J**	**6.10 J**	**2.00 J**	**2.00 J**
Benzo(b)fluoranthene	**6.10 J**	**6.10 J**	2.50 U	10.0 U	2.50 U	9.80 U	2.50 U	9.90 U	2.50 U	9.80 U	**5.80 J**	**5.80 J**	**4.10 J**	**4.10 J**	**9.10 J**	**9.10 J**	**6.00 J**	**6.00 J**	2.50 U	9.90 U
Benzo(g,h,i)perylene	**3.90 J**	**3.90 J**	2.30 U	10.0 U	2.30 U	9.80 U	2.30 U	9.90 U	2.30 U	9.80 U	**3.30 J**	**3.30 J**	**2.90 J**	**2.90 J**	**4.40 J**	**4.40 J**	**3.50 J**	**3.50 J**	2.30 U	9.90 U
Benzo(k)fluoranthene	**2.50 J**	**2.50 J**	2.50 U	10.0 U	2.50 U	9.80 U	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.90 U	2.50 U	9.90 U	**3.30 J**	**3.30 J**	**4.90 J**	**4.90 J**	2.50 U	9.90 U
Chrysene	**7.80 J**	**7.80 J**	**1.80 J**	**1.80 J**	**1.50 J**	**1.50 J**	**1.40 J**	**1.40 J**	1.40 U	9.80 U	**4.20 J**	**4.20 J**	**4.10 J**	**4.10 J**	**9.30 J**	**9.30 J**	**20.0**	**20.0**	**2.40 J**	**2.40 J**
Dibenz(a,h)anthracene	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.80 U	2.20 U	9.90 U	2.20 U	9.80 U	2.20 U	9.90 U	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	9.80 U	2.20 U	9.90 U
Fluoranthene	**5.50 J**	**5.50 J**	**3.00 J**	**3.00 J**	2.20 U	9.80 U	**2.50 J**	**2.50 J**	2.20 U	9.80 U	**3.70 J**	**3.70 J**	**3.80 J**	**3.80 J**	**10.0**	**10.0**	**5.30 J**	**5.30 J**	**3.20 J**	**3.20 J**
Indeno(1,2,3-cd)pyrene	**3.30 J**	**3.30 J**	1.90 U	10.0 U	1.90 U	9.80 U	1.90 U	9.90 U	1.90 U	9.80 U	**3.20 J**	**3.20 J**	**2.20 J**	**2.20 J**	**4.70 J**	**4.70 J**	**3.60 J**	**3.60 J**	1.90 U	9.90 U
Pyrene	**5.60 J**	**5.60 J**	**2.40 J**	**2.40 J**	**1.80 J**	**1.80 J**	**2.00 J**	**2.00 J**	1.30 U	9.80 U	**3.50 J**	**3.50 J**	**3.70 J**	**3.70 J**	**12.0**	**12.0**	**8.90 J**	**8.90 J**	**3.20 J**	**3.20 J**
Total HPAHs (full MDL/MRL)	**45.2 J**	**53.0 J**	**21.9 J**	**60.5 J**	**19.9 J**	**81.7 J**	**20.3 J**	**75.2 J**	19.3 U	98.0 U	**35.6 J**	**50.7 J**	**30.8 J**	**45.9 J**	**69.9 J**	**77.7 J**	**72.5 J**	**80.1 J**	**24.4 J**	**62.5 J**
Total HPAHs (KM)	**45.2 J**	**47.8 J**	**19.2 J**	**21.0 J**	**15.4 J**	**16.5 J**	**16.2 J**	**19.7 J**	NC	NC	**35.3 J**	**38.6 J**	**30.5 J**	**32.6 J**	**69.9 J**	**74.2 J**	**72.5 J**	**75.8 J**	**23.0 J**	**26.0 J**
Total HPAHs (KM, capped)	**45.2 J**	**47.8 J**	**19.2 J**	**21.0 J**	**15.4 J**	**16.5 J**	**16.2 J**	**19.7 J**	19.3 U	98.0 U	**35.3 J**	**38.6 J**	**30.5 J**	**32.6 J**	**69.9 J**	**74.2 J**	**72.5 J**	**75.8 J**	**23.0 J**	**26.0 J**
Total PAHs (full MDL/MRL)	**52.6 J**	**86.3 J**	**27.4 J**	**91.9 J**	**25.3 J**	**121 J**	**27.8 J**	**108 J**	24.7 U	137 U	**41.5 J**	**82.2 J**	**36.8 J**	**77.5 J**	**81.7 J**	**107 J**	**83.3 J**	**108 J**	**30.6 J**	**94.3 J**
Total PAHs (KM)	**50.3 J**	**64.8 J**	**22.3 J**	**27.8 J**	**16.6 J**	**23.1 J**	**20.5 J**	**32.6 J**	NC	NC	**38.1 J**	**50.9 J**	**33.7 J**	**43.6 J**	**80.1 J**	**95.1 J**	**81.4 J**	**93.9 J**	**25.0 J**	**35.2 J**
Total PAHs (KM, capped)	**50.3 J**	**64.8 J**	**22.3 J**	**27.8 J**	**16.6 J**	**23.1 J**	**20.5 J**	**32.6 J**	24.7 U	137 U	**38.1 J**	**50.9 J**	**33.7 J**	**43.6 J**	**80.1 J**	**95.1 J**	**81.4 J**	**93.9 J**	**25.0 J**	**35.2 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
All units are in micrograms per kilogram (µg/kg), dry weight
NC = Not calculated
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-18
Forebay - Random Sediment PAH Analysis Results
(Page 2 of 2)

Site ID	P15		P16		P17		P18		P21		P65		P67		P88		P89	
Sample ID	08022115SD		08022116SD		08022117SD		08021118SD		08021221SD		08022965SD		08030367SD		08031788SD		08031789SD	
Sample Date	2/21/2008		2/21/2008		2/21/2008		2/11/2008		2/12/2008		2/29/2008		3/3/2008		3/17/2008		3/17/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																		
Acenaphthene	1.00 U	10.0 U	1.00 U	9.90 U	1.00 U	10.0 U	1.00 U	10.00 U	1.00 U	10.0 U	1.00 U	9.90 U	1.00 U	9.90 U	1.00 U	9.80 U	1.00 U	9.80 U
Anthracene	1.40 U	10.0 U	**1.90 J**	**1.90 J**	**1.90 J**	**1.90 J**	1.40 U	10.0 U	1.40 U	10.0 U	**1.50 J**	**1.50 J**	1.40 U	9.90 U	1.40 U	9.80 U	1.40 U	9.80 U
Fluorene	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	10.0 U	1.70 U	9.90 U	1.70 U	9.90 U	1.70 U	9.80 U	1.70 U	9.80 U
Phenanthrene	**4.60 J**	**4.60 J**	**5.00 J**	**5.00 J**	**7.40 J**	**7.40 J**	**2.90 J**	**2.90 J**	1.30 U	10.0 U	**2.20 J**	**2.20 J**	1.30 U	9.90 U	**1.70 J**	**1.70 J**	1.30 U	9.80 U
Total LPAHs (full MDL/MRL)	**8.70 J**	**34.6 J**	**9.60 J**	**26.7 J**	**12.0 J**	**29.3 J**	**7.00 J**	**32.9 J**	5.40 U	40.0 U	**6.40 J**	**23.5 J**	5.40 U	39.6 U	**5.80 J**	**31.1 J**	5.40 U	39.2 U
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Total LPAHs (KM, capped)	**8.70 J**	**34.6 J**	**9.60 J**	**26.7 J**	**12.0 J**	**29.3 J**	**7.00 J**	**32.9 J**	5.40 U	40.0 U	**6.40 J**	**23.5 J**	5.40 U	39.6 U	**5.80 J**	**31.1 J**	5.40 U	39.2 U
HPAHs																		
Benzo(a)anthracene	**2.10 J**	**2.10 J**	**5.90 J**	**5.90 J**	**6.00 J**	**6.00 J**	**2.00 J**	**2.00 J**	1.40 U	10.0 U	**7.00 J**	**7.00 J**	1.40 U	9.90 U	1.40 U	9.80 U	1.40 U	9.80 U
Benzo(a)pyrene	1.60 U	10.0 U	**6.50 J**	**6.50 J**	**7.20 J**	**7.20 J**	**2.60 J**	**2.60 J**	1.60 U	10.0 U	**6.10 J**	**6.10 J**	1.60 U	9.90 U	1.60 U	9.80 U	1.60 U	9.80 U
Benzo(b)fluoranthene	2.50 U	10.0 U	**8.00 J**	**8.00 J**	**7.50 J**	**7.50 J**	**4.00 J**	**4.00 J**	2.50 U	10.0 U	**5.60 J**	**5.60 J**	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.80 U
Benzo(g,h,i)perylene	2.30 U	10.0 U	**5.00 J**	**5.00 J**	**6.20 J**	**6.20 J**	**2.60 J**	**2.60 J**	2.30 U	10.0 U	**4.20 J**	**4.20 J**	2.30 U	9.90 U	2.30 U	9.80 U	2.30 U	9.80 U
Benzo(k)fluoranthene	2.50 U	10.0 U	**3.10 J**	**3.10 J**	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	**3.20 J**	**3.20 J**	2.50 U	9.90 U	2.50 U	9.80 U	2.50 U	9.80 U
Chrysene	**3.40 J**	**3.40 J**	**7.60 J**	**7.60 J**	**7.90 J**	**7.90 J**	**3.20 J**	**3.20 J**	**1.80 J**	**1.80 J**	**12.0**	**12.0**	1.40 U	9.90 U	**1.70 J**	**1.70 J**	1.40 U	9.80 U
Dibenz(a,h)anthracene	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.90 U	2.20 U	9.80 U	2.20 U	9.80 U
Fluoranthene	**4.00 J**	**4.00 J**	**9.70 J**	**9.70 J**	**12.0**	**12.0**	**4.80 J**	**4.80 J**	**2.70 J**	**2.70 J**	**4.60 J**	**4.60 J**	2.20 U	9.90 U	**2.60 J**	**2.60 J**	2.20 U	9.80 U
Indeno(1,2,3-cd)pyrene	1.90 U	10.0 U	**5.40 J**	**5.40 J**	**5.70 J**	**5.70 J**	**2.50 J**	**2.50 J**	1.90 U	10.0 U	**4.10 J**	**4.10 J**	1.90 U	9.90 U	1.90 U	9.80 U	1.90 U	9.80 U
Pyrene	**5.30 J**	**5.30 J**	**11.0**	**11.0**	**17.0**	**17.0**	**4.80 J**	**4.80 J**	**2.20 J**	**2.20 J**	**4.40 J**	**4.40 J**	1.30 U	9.90 U	**2.20 J**	**2.20 J**	1.30 U	9.80 U
Total HPAHs (full MDL/MRL)	**27.8 J**	**74.8 J**	**64.4 J**	**72.1 J**	**74.2 J**	**89.5 J**	**31.2 J**	**46.5 J**	**21.1 J**	**76.7 J**	**53.4 J**	**61.1 J**	19.3 U	99.0 U	**20.9 J**	**75.1 J**	19.3 U	98.0 U
Total HPAHs (KM)	**25.1 J**	**37.0 J**	**64.4 J**	**68.6 J**	**73.9 J**	**83.0 J**	**30.5 J**	**33.1 J**	**17.5 J**	**22.3 J**	**53.4 J**	**56.1 J**	NC	NC	**17.2 J**	**21.7 J**	NC	NC
Total HPAHs (KM, capped)	**25.1 J**	**37.0 J**	**64.4 J**	**68.6 J**	**73.9 J**	**83.0 J**	**30.5 J**	**33.1 J**	**17.5 J**	**22.3 J**	**53.4 J**	**56.1 J**	19.3 U	99.0 U	**17.2 J**	**21.7 J**	19.3 U	98.0 U
Total PAHs (full MDL/MRL)	**36.5 J**	**109 J**	**74.0 J**	**98.8 J**	**86.2 J**	**119 J**	**38.2 J**	**79.4 J**	**26.5 J**	**117 J**	**59.8 J**	**84.6 J**	24.7 U	139 U	**26.7 J**	**106 J**	24.7 U	137 U
Total PAHs (KM)	**29.1 J**	**54.3 J**	**72.4 J**	**86.5 J**	**83.4 J**	**104 J**	**34.9 J**	**45.7 J**	**18.6 J**	**31.3 J**	**58.4 J**	**67.8 J**	NC	NC	**19.5 J**	**28.7 J**	NC	NC
Total PAHs (KM, capped)	**29.1 J**	**54.3 J**	**72.4 J**	**86.5 J**	**83.4 J**	**104 J**	**34.9 J**	**45.7 J**	**18.6 J**	**31.3 J**	**58.4 J**	**67.8 J**	24.7 U	139 U	**19.5 J**	**28.7 J**	24.7 U	137 U

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH

J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
All units are in micrograms per kilogram (µg/kg), dry weight
NC = Not calculated
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-19
Forebay - Targeted Sediment PAH Analysis Results
(Page 1 of 1)

Site	Forebay - Eagle Creek		Forebay - Eagle Creek		Forebay - Goose Island		Forebay - Goose Island	
Site ID	P43		P44		P110		P111	
Sample ID	08032043SD		08032044SD		090427110SD		090429111SD	
Sample Date	3/20/2008		3/20/2008		4/27/2009		4/29/2009	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs								
Acenaphthene	1.00 U	9.90 U	1.00 U	9.90 U	1.20 U	12.0 U	1.30 U	13.0 U
Anthracene	1.40 U	9.90 U	**2.60 J**	**2.60 J**	1.70 U	12.0 U	1.80 U	13.0 U
Fluorene	1.70 U	9.90 U	1.70 U	9.90 U	2.10 U	12.0 U	2.20 U	13.0 U
Phenanthrene	**2.30 J**	**2.30 J**	**6.50 J**	**6.50 J**	**3.80 J**	**3.80 J**	**4.60 J**	**4.60 J**
Total LPAHs (full MDL/MRL)	**6.40 J**	**32.0 J**	**11.8 J**	**28.9 J**	**8.80 J**	**39.8 J**	**9.90 J**	**43.6 J**
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC
Total LPAHs (KM, capped)	**6.40 J**	**32.0 J**	**11.8 J**	**28.9 J**	**8.80 J**	**39.8 J**	**9.90 J**	**43.6 J**
HPAHs								
Benzo(a)anthracene	1.40 U	9.90 U	**6.60 J**	**6.60 J**	**4.20 J**	**4.20 J**	**7.80 J**	**7.80 J**
Benzo(a)pyrene	1.60 U	9.90 U	**7.10 J**	**7.10 J**	**8.70 J**	**8.70 J**	**13.0 J**	**13.0 J**
Benzo(b)fluoranthene	2.50 U	9.90 U	**11.0**	**11.0**	**6.50 J**	**6.50 J**	**15.0**	**15.0**
Benzo(g,h,i)perylene	2.30 U	9.90 U	**5.00 J**	**5.00 J**	**5.60 J**	**5.60 J**	**9.90 J**	**9.90 J**
Benzo(k)fluoranthene	2.50 U	9.90 U	**3.40 J**	**3.40 J**	3.00 U	12.0 U	**4.10 J**	**4.10 J**
Chrysene	**1.80 J**	**1.80 J**	**13.0**	**13.0**	**5.80 J**	**5.80 J**	**11.0 J**	**11.0 J**
Dibenz(a,h)anthracene	2.20 U	9.90 U	2.20 U	9.90 U	2.70 U	12.0 U	2.80 U	13.0 U
Fluoranthene	2.20 U	9.90 U	**11.0**	**11.0**	**7.30 J**	**7.30 J**	**9.60 J**	**9.60 J**
Indeno(1,2,3-cd)pyrene	1.90 U	9.90 U	**4.60 J**	**4.60 J**	**5.00 J**	**5.00 J**	**7.10 J**	**7.10 J**
Pyrene	**3.40 J**	**3.40 J**	**17.0**	**17.0**	**7.20 J**	**7.20 J**	**8.80 J**	**8.80 J**
Total HPAHs (full MDL/MRL)	**21.8 J**	**84.4 J**	**80.9 J**	**88.6 J**	**56.0 J**	**74.3 J**	**89.1 J**	**99.3 J**
Total HPAHs (KM)	**17.2 J**	**26.0 J**	**80.9 J**	**84.0 J**	**55.7 J**	**62.9 J**	**89.1 J**	**94.6 J**
Total HPAHs (KM, capped)	**17.2 J**	**26.0 J**	**80.9 J**	**84.0 J**	**55.7 J**	**62.9 J**	**89.1 J**	**94.6 J**
Total PAHs (full MDL/MRL)	**28.2 J**	**116 J**	**92.7 J**	**118 J**	**64.8 J**	**114 J**	**99.0 J**	**143 J**
Total PAHs (KM)	**19.5 J**	**35.0 J**	**90.8 J**	**103 J**	**60.1 J**	**84.2 J**	**96.1 J**	**122 J**
Total PAHs (KM, capped)	**19.5 J**	**35.0 J**	**90.8 J**	**103 J**	**60.1 J**	**84.2 J**	**96.1 J**	**122 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
PAH = Polycyclic Aromatic Hydrodarbons

LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
All units are in micrograms per kilogram (µg/kg), dry weight
NC = Not calculated
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-20
Reference Area Sediment PAH Analysis Results
(Page 1 of 2)

Site ID	P22		P24		P26		P27		P28		P29		P34		P35		P36	
Sample ID	08030522SD		08030524SD		08030426SD		08030427SD		08030428SD		08022229SD		08022534SD		08022535SD		08022536SD	
Sample Date	3/5/2008		3/5/2008		3/4/2008		3/4/2008		3/4/2008		2/22/2008		2/25/2008		2/25/2008		2/25/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																		
Acenaphthene	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	9.90 U	1.00 U	9.50 U	1.10 U	11.0 U	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	9.90 U
Anthracene	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	9.90 U	1.40 U	9.50 U	1.50 U	11.0 U	1.40 U	10.0 U	1.40 U	10.0 U	**2.30 J**	**2.30 J**	1.40 U	9.90 U
Fluorene	1.70 UJ	10.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	9.90 UJ	1.70 UJ	9.50 UJ	1.80 UJ	11.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	9.90 UJ
Phenanthrene	**2.30 J**	**2.30 J**	**2.20 J**	**2.20 J**	**3.60 J**	**3.60 J**	**3.30 J**	**3.30 J**	**2.10 J**	**2.10 J**	**3.70 J**	**3.70 J**	**3.00 J**	**3.00 J**	**2.30 J**	**2.30 J**	**3.20 J**	**3.20 J**
Total LPAHs (full MDL/MRL)	**6.40 J**	**32.3 J**	**6.30 J**	**32.2 J**	**7.70 J**	**33.3 J**	**7.40 J**	**31.8 J**	**6.50 J**	**35.1 J**	**7.80 J**	**33.7 J**	**7.10 J**	**33.0 J**	**7.30 J**	**24.6 J**	**7.30 J**	**32.9 J**
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Total LPAHs (KM, capped)	**6.40 J**	**32.3 J**	**6.30 J**	**32.2 J**	**7.70 J**	**33.3 J**	**7.40 J**	**31.8 J**	**6.50 J**	**35.1 J**	**7.80 J**	**33.7 J**	**7.10 J**	**33.0 J**	**7.30 J**	**24.6 J**	**7.30 J**	**32.9 J**
HPAHs																		
Benzo(a)anthracene	**1.80 J**	**1.80 J**	**1.60 J**	**1.60 J**	**2.30 J**	**2.30 J**	**3.60 J**	**3.60 J**	**3.60 J**	**3.60 J**	**3.30 J**	**3.30 J**	**2.90 J**	**2.90 J**	**2.20 J**	**2.20 J**	**3.30 J**	**3.30 J**
Benzo(a)pyrene	**1.60 J**	**1.60 J**	1.60 U	10.0 U	**3.20 J**	**3.20 J**	1.60 U	9.50 U	**4.80 J**	**4.80 J**	**3.80 J**	**3.80 J**	1.60 U	10.0 U	1.60 U	10.0 U	**6.20 J**	**6.20 J**
Benzo(b)fluoranthene	2.50 U	10.0 U	2.50 U	10.0 U	**4.40 J**	**4.40 J**	**4.80 J**	**4.80 J**	**5.80 J**	**5.80 J**	**5.00 J**	**5.00 J**	**5.50 J**	**5.50 J**	**3.70 J**	**3.70 J**	**8.30 J**	**8.30 J**
Benzo(g,h,i)perylene	2.30 U	10.0 U	2.30 U	10.0 U	**4.70 J**	**4.70 J**	**3.20 J**	**3.20 J**	**3.60 J**	**3.60 J**	**3.50 J**	**3.50 J**	**3.60 J**	**3.60 J**	**2.70 J**	**2.70 J**	**7.90 J**	**7.90 J**
Benzo(k)fluoranthene	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 U	9.50 U	2.60 U	11.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.90 U
Chrysene	**9.70 J**	**9.70 J**	**2.10 J**	**2.10 J**	**3.70 J**	**3.70 J**	**3.50 J**	**3.50 J**	**4.90 J**	**4.90 J**	**4.00 J**	**4.00 J**	**4.40 J**	**4.40 J**	**3.10 J**	**3.10 J**	**4.80 J**	**4.80 J**
Dibenz(a,h)anthracene	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 U	9.50 U	2.30 U	11.0 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.90 U
Fluoranthene	**3.60 J**	**3.60 J**	**2.60 J**	**2.60 J**	**6.40 J**	**6.40 J**	**6.20 J**	**6.20 J**	**6.10 J**	**6.10 J**	2.20 UJ	10.0 UJ	**5.10 J**	**5.10 J**	**5.60 J**	**5.60 J**	**5.50 J**	**5.50 J**
Indeno(1,2,3-cd)pyrene	1.90 UJ	10.0 UJ	1.90 UJ	10.0 UJ	**3.30 J**	**3.30 J**	**2.70 J**	**2.70 J**	**3.20 J**	**3.20 J**	1.90 UJ	10.0 UJ	1.90 UJ	10.0 UJ	**2.20 J**	**2.20 J**	**8.80 J**	**8.80 J**
Pyrene	**2.60 J**	**2.60 J**	**1.70 J**	**1.70 J**	**7.00 J**	**7.00 J**	**4.50 J**	**4.50 J**	**4.90 J**	**4.90 J**	**4.90 J**	**4.90 J**	**4.80 J**	**4.80 J**	**3.30 J**	**3.30 J**	**7.10 J**	**7.10 J**
Total HPAHs (full MDL/MRL)	**30.7 J**	**69.3 J**	**21.0 J**	**68.0 J**	**39.7 J**	**54.8 J**	**34.8 J**	**57.0 J**	**41.8 J**	**58.9 J**	**33.3 J**	**64.5 J**	**34.5 J**	**66.3 J**	**29.1 J**	**52.8 J**	**56.6 J**	**71.7 J**
Total HPAHs (KM)	**27.8 J**	**38.6 J**	**18.1 J**	**20.0 J**	**39.5 J**	**43.8 J**	**33.3 J**	**40.7 J**	**41.5 J**	**46.1 J**	**32.1 J**	**40.8 J**	**32.7 J**	**43.8 J**	**27.9 J**	**32.6 J**	**56.3 J**	**64.9 J**
Total HPAHs (KM, capped)	**27.8 J**	**38.6 J**	**18.1 J**	**20.0 J**	**39.5 J**	**43.8 J**	**33.3 J**	**40.7 J**	**41.5 J**	**46.1 J**	**32.1 J**	**40.8 J**	**32.7 J**	**43.8 J**	**27.9 J**	**32.6 J**	**56.3 J**	**64.9 J**
Total PAHs (full MDL/MRL)	**37.1 J**	**102 J**	**27.3 J**	**100 J**	**47.4 J**	**88.1 J**	**42.2 J**	**88.8 J**	**48.3 J**	**94.0 J**	**41.1 J**	**98.2 J**	**41.6 J**	**99.3 J**	**36.4 J**	**77.4 J**	**63.9 J**	**105 J**
Total PAHs (KM)	**31.6 J**	**50.4 J**	**21.2 J**	**28.6 J**	**43.9 J**	**60.0 J**	**37.8 J**	**55.7 J**	**45.0 J**	**60.7 J**	**35.2 J**	**56.4 J**	**36.3 J**	**58.6 J**	**33.0 J**	**42.6 J**	**60.1 J**	**85.7 J**
Total PAHs (KM, capped)	**31.6 J**	**50.4 J**	**21.2 J**	**28.6 J**	**43.9 J**	**60.0 J**	**37.8 J**	**55.7 J**	**45.0 J**	**60.7 J**	**35.2 J**	**56.4 J**	**36.3 J**	**58.6 J**	**33.0 J**	**42.6 J**	**60.1 J**	**85.7 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
All units are in micrograms per kilogram (µg/kg), dry weight
NC = Not calculated
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-20
Reference Area Sediment PAH Analysis Results
(Page 2 of 2)

Site ID	P37		P38		P39		P40		P41		P42		P85		P86		P87	
Sample ID	08022637SD		08022738SD		08022739SD		08022740SD		08022741SD		08022742SD		08030685SD		08030686SD		08030687SD	
Sample Date	2/26/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		2/27/2008		3/6/2008		3/6/2008		3/6/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs																		
Acenaphthene	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	10.0 U	1.00 U	9.80 U	1.00 U	9.80 U	1.00 U	9.90 U	1.00 U	10.0 U	1.00 U	9.90 U	1.00 UJ	10.0 UJ
Anthracene	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	10.0 U	1.40 U	9.80 U	**1.40 J**	**1.40 J**	1.40 U	9.90 U	1.40 U	10.0 U	1.40 U	9.90 U	1.40 UJ	10.0 UJ
Fluorene	1.70 UJ	10.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	10.0 UJ	1.70 UJ	9.80 UJ	1.70 UJ	9.80 UJ	1.70 UJ	9.90 UJ	1.70 UJ	10.0 UJ	1.70 UJ	9.90 UJ	1.70 UJ	10.0 UJ
Phenanthrene	**4.40 J**	**4.40 J**	**2.60 J**	**2.60 J**	1.30 U	10.0 U	**1.30 J**	**1.30 J**	**5.90 J**	**5.90 J**	1.30 U	9.90 U	**1.90 J**	**1.90 J**	**2.00 J**	**2.00 J**	**3.60 J**	**3.60 J**
Total LPAHs (full MDL/MRL)	**8.50 J**	**34.4 J**	**6.70 J**	**32.6 J**	5.40 U	40.0 U	**5.40 J**	**30.7 J**	**10.0 J**	**26.9 J**	5.40 U	39.6 U	**6.00 J**	**31.9 J**	**6.10 J**	**31.7 J**	**7.70 J**	**33.6 J**
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Total LPAHs (KM, capped)	**8.50 J**	**34.4 J**	**6.70 J**	**32.6 J**	5.40 UJ	40.0 UJ	**5.40 J**	**30.7 J**	**10.0 J**	**26.9 J**	5.40 UJ	39.6 UJ	**6.00 J**	**31.9 J**	**6.10 J**	**31.7 J**	**7.70 J**	**33.6 J**
HPAHs																		
Benzo(a)anthracene	**3.90 J**	**3.90 J**	**2.50 J**	**2.50 J**	1.40 U	10.0 U	1.40 U	9.80 U	**10.0**	**10.0**	1.40 U	9.90 U	1.40 U	10.0 U	**1.80 J**	**1.80 J**	**3.00 J**	**3.00 J**
Benzo(a)pyrene	**4.60 J**	**4.60 J**	1.60 U	10.0 U	1.60 U	10.0 U	1.60 U	9.80 U	**11.0**	**11.0**	1.60 U	9.90 U	**2.80 J**	**2.80 J**	1.60 U	9.90 U	**2.60 J**	**2.60 J**
Benzo(b)fluoranthene	**6.90 J**	**6.90 J**	**4.20 J**	**4.20 J**	2.50 U	10.0 U	2.50 U	9.80 U	**17.0**	**17.0**	2.50 U	9.90 U	**3.60 J**	**3.60 J**	**2.70 J**	**2.70 J**	**3.50 J**	**3.50 J**
Benzo(g,h,i)perylene	**4.60 J**	**4.60 J**	2.30 U	10.0 U	2.30 U	10.0 U	2.30 U	9.80 U	**7.30 J**	**7.30 J**	2.30 U	9.90 U	2.30 U	10.0 U	2.30 U	9.90 U	**2.30 J**	**2.30 J**
Benzo(k)fluoranthene	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	10.0 U	2.50 U	9.80 U	**5.00 J**	**5.00 J**	2.50 U	9.90 U	2.50 U	10.0 U	2.50 U	9.90 U	2.50 UJ	10.0 UJ
Chrysene	**4.80 J**	**4.80 J**	**3.20 J**	**3.20 J**	1.40 U	10.0 U	**1.90 J**	**1.90 J**	**9.80**	**9.80**	1.40 U	9.90 U	1.40 U	10.0 U	**2.40 J**	**2.40 J**	**3.10 J**	**3.10 J**
Dibenz(a,h)anthracene	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	10.0 U	2.20 U	9.80 U	2.20 U	9.80 U	2.20 U	9.90 U	2.20 U	10.0 U	2.20 U	9.90 U	2.20 UJ	10.0 UJ
Fluoranthene	**9.70 J**	**9.70 J**	**4.10 J**	**4.10 J**	**2.30 J**	**2.30 J**	**2.30 J**	**2.30 J**	**31.0 J**	**31.0 J**	2.20 UJ	9.90 UJ	2.20 UJ	10.0 UJ	**3.60 J**	**3.60 J**	**5.00 J**	**5.00 J**
Indeno(1,2,3-cd)pyrene	**4.90 J**	**4.90 J**	**2.30 J**	**2.30 J**	1.90 UJ	10.0 UJ	1.90 UJ	9.80 UJ	**8.40 J**	**8.40 J**	1.90 UJ	9.90 UJ	1.90 UJ	10.0 UJ	1.90 UJ	9.90 UJ	**2.00 J**	**2.00 J**
Pyrene	**7.80 J**	**7.80 J**	**3.60 J**	**3.60 J**	**2.10 J**	**2.10 J**	**1.80 J**	**1.80 J**	**23.0 J**	**23.0 J**	**1.50 J**	**1.50 J**	**2.70 J**	**2.70 J**	**2.10 J**	**2.10 J**	**4.90 J**	**4.90 J**
Total HPAHs (full MDL/MRL)	**51.9 J**	**67.2 J**	**28.5 J**	**59.9 J**	**20.2 J**	**84.4 J**	**20.4 J**	**74.6 J**	**125 J**	**132 J**	**19.5 J**	**90.6 J**	**23.0 J**	**79.1 J**	**23.1 J**	**62.1 J**	**31.1 J**	**46.4 J**
Total HPAHs (KM)	**51.6 J**	**59.0 J**	**26.5 J**	**33.2 J**	**16.4 J**	**22.0 J**	**16.9 J**	**20.0 J**	**125 J**	**129 J**	NC	NC	**18.9 J**	**30.3 J**	**21.4 J**	**25.2 J**	**30.5 J**	**33.0 J**
Total HPAHs (KM, capped)	**51.6 J**	**59.0 J**	**26.5 J**	**33.2 J**	**16.4 J**	**22.0 J**	**16.9 J**	**20.0 J**	**125 J**	**129 J**	**19.5 J**	**90.6 J**	**18.9 J**	**30.3 J**	**21.4 J**	**25.2 J**	**30.5 J**	**33.0 J**
Total PAHs (full MDL/MRL)	**60.4 J**	**102 J**	**35.2 J**	**92.5 J**	**25.6 J**	**124 J**	**25.8 J**	**105 J**	**135 J**	**159 J**	**24.9 J**	**130 J**	**29.0 J**	**111 J**	**29.2 J**	**93.8 J**	**38.8 J**	**80.0 J**
Total PAHs (KM)	**56.6 J**	**80.3 J**	**29.7 J**	**45.0 J**	**17.1 J**	**30.8 J**	**19.6 J**	**25.6 J**	**133 J**	**147 J**	NC	NC	**21.5 J**	**38.5 J**	**24.0 J**	**34.1 J**	**35.7 J**	**46.7 J**
Total PAHs (KM, capped)	**56.6 J**	**80.3 J**	**29.7 J**	**45.0 J**	**17.1 J**	**30.8 J**	**19.6 J**	**25.6 J**	**133 J**	**147 J**	**24.9 J**	**130 J**	**21.5 J**	**38.5 J**	**24.0 J**	**34.1 J**	**35.7 J**	**46.7 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH

J = The reported value is an estimate.
UJ = The analyte was not detected. The reported MDL/MRL is an estimate.
U = The analyte was not detected at or above the MDL.
All units are in micrograms per kilogram (µg/kg), dry weight
NC = Not calculated
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-21
Forebay - Pre-Removal Sediment PAH Analysis Results
(Page 1 of 1)

Site ID	A1		A2*		A3		A4		A5	
Sample ID	070926A1 SD		070926A2 SD		070927A3 SD		070925A4 SD		070925A5 SD	
Sample Date	9/26/2007		9/26/2007		9/27/2007		9/25/2007		9/25/2007	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs										
Acenaphthene	1.40 U	7.70 U	1.40 U	7.80 U	2.40 U	17.0 U	1.40 U	8.60 U	1.40 U	8.10 U
Anthracene	**4.30 J**	**4.30 J**	14.0 U	78.0 U	2.30 U	17.0 U	1.40 U	8.40 U	1.40 U	10.00 U
Fluorene	1.10 U	7.70 U	1.10 U	7.80 U	1.90 U	17.0 U	1.10 U	8.60 U	1.10 U	8.10 U
Phenanthrene	**9.10**	**9.10**	**3.25 J**	**3.25 J**	**2.90 J**	**2.90 J**	**4.50 J**	**4.50 J**	**5.00 J**	**5.00 J**
Total LPAHs (full MDL/MRL)	**15.9 J**	**28.8 J**	**19.8 J**	**96.9 J**	**9.50 J**	**53.9 J**	**8.40 J**	**30.1 J**	**8.90 J**	**31.2 J**
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Total LPAHs (KM, capped)	**15.9 J**	**28.8 J**	**19.8 J**	**96.9 J**	**9.50 J**	**53.9 J**	**8.40 J**	**30.1 J**	**8.90 J**	**31.2 J**
HPAHs										
Benzo(a)anthracene	**5.70 J**	**5.70 J**	**3.05 J**	**3.05 J**	**3.70 J**	**3.70 J**	**3.30 J**	**3.30 J**	**3.50 J**	**3.50 J**
Benzo(a)pyrene	**32.0**	**32.0**	16.0 U	78.0 U	2.60 U	17.0 U	**6.10 J**	**6.10 J**	**7.40 J**	**7.40 J**
Benzo(b)fluoranthene	**11.0**	**11.0**	**7.05 J**	**7.05 J**	**4.20 J**	**4.20 J**	**6.40 J**	**6.40 J**	**7.40 J**	**7.40 J**
Benzo(g,h,i)perylene	**5.40 J**	**5.40 J**	**3.70 J**	**3.70 J**	**5.20 J**	**5.20 J**	**4.40 J**	**4.40 J**	**4.70 J**	**4.70 J**
Benzo(k)fluoranthene	**3.20 J**	**3.20 J**	**3.40 J**	**3.40 J**	**3.30 J**	**3.30 J**	**2.30 J**	**2.30 J**	**2.50 J**	**2.50 J**
Chrysene	**7.90**	**7.90**	**5.35 J**	**5.35 J**	**4.10 J**	**4.10 J**	**4.70 J**	**4.70 J**	**5.20 J**	**5.20 J**
Dibenz(a,h)anthracene	1.50 U	7.70 U	**2.50 J**	**2.50 J**	**3.10 J**	**3.10 J**	1.50 U	8.60 U	1.50 U	8.10 U
Fluoranthene	**13.0**	**13.0**	**7.10 J**	**7.10 J**	**4.40 J**	**4.40 J**	**7.10 J**	**7.10 J**	**8.30**	**8.30**
Indeno(1,2,3-cd)pyrene	**6.30 J**	**6.30 J**	**4.60 J**	**4.60 J**	**13.0 J**	**13.0 J**	**4.00 J**	**4.00 J**	**3.90 J**	**3.90 J**
Pyrene	**13.0**	**13.0**	**6.85 J**	**6.85 J**	**4.50 J**	**4.50 J**	**6.60 J**	**6.60 J**	**7.80 J**	**7.80 J**
Total HPAHs (full MDL/MRL)	**99.0 J**	**105 J**	**59.6 J**	**121.6 J**	**48.1 J**	**62.5 J**	**46.4 J**	**53.5 J**	**52.2 J**	**58.8 J**
Total HPAHs (KM)	**99.0 J**	**103 J**	**48.4 J**	**48.4 J**	**48.1 J**	**50.6 J**	**46.4 J**	**49.9 J**	**52.2 J**	**56.0 J**
Total HPAHs (KM, capped)	**99.0 J**	**103 J**	**48.4 J**	**48.4 J**	**48.1 J**	**50.6 J**	**46.4 J**	**49.9 J**	**52.2 J**	**56.0 J**
Total PAHs (full MDL/MRL)	**115 J**	**134 J**	**79.4 J**	**218.5 J**	**57.6 J**	**116.4 J**	**54.8 J**	**83.6 J**	**61.1 J**	**90.0 J**
Total PAHs (KM)	**114 J**	**126 J**	**57.2 J**	**65.6 J**	**56.0 J**	**67.8 J**	**53.8 J**	**69.2 J**	**60.1 J**	**77.0 J**
Total PAHs (KM, capped)	**114 J**	**126 J**	**57.2 J**	**65.6 J**	**56.0 J**	**67.8 J**	**53.8 J**	**69.2 J**	**60.1 J**	**77.0 J**

Notes:
MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
All units are in micrograms per kilogram (µg/kg), dry weight
* = The data displayed are the result of averaging primary and field duplicate results at this sampling location as described in Section 5.1

PAH = Polycyclic Aromatic Hydrodarbons
LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
NC = Not calculated
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped

Table H-22
Downstream Sediment PAH Analysis Results
(Page 1 of 1)

Site ID	P46		P47		P48		P49		P50		P51	
Sample ID	08031046SD		08031047SD		08031048SD		08031049SD		08031150SD		08031151SD	
Sample Date	3/10/2008		3/10/2008		3/10/2008		3/10/2008		3/11/2008		3/11/2008	
Censoring Level for Undetected Results	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL	MDL	MRL
LPAHs												
Acenaphthene	1.00 U	10.0 U	1.00 U	9.70 U	1.00 U	9.70 U	1.00 U	9.90 U	1.00 U	9.90 U	1.00 U	9.80 U
Anthracene	**2.70 J**	**2.70 J**	1.40 U	9.70 U	1.40 U	9.70 U	1.40 U	9.90 U	**3.10 J**	**3.10 J**	**1.60 J**	**1.60 J**
Fluorene	1.70 U	10.0 U	1.70 U	9.70 U	1.70 U	9.70 U	1.70 U	9.90 U	1.70 U	9.90 U	1.70 U	9.80 U
Phenanthrene	**4.80 J**	**4.80 J**	1.30 U	9.70 U	1.30 U	9.70 U	**2.20 J**	**2.20 J**	**4.90 J**	**4.90 J**	**4.00 J**	**4.00 J**
Total LPAHs (full MDL/MRL)	**10.2 J**	**27.5 J**	5.40 U	38.8 U	5.40 U	38.8 U	**6.30 J**	**31.9 J**	**10.7 J**	**27.8 J**	**8.30 J**	**25.2 J**
Total LPAHs (KM)	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Total LPAHs (KM, capped)	**10.2 J**	**27.5 J**	5.40 U	38.8 U	5.40 U	38.8 U	**6.30 J**	**31.9 J**	**10.7 J**	**27.8 J**	**8.30 J**	**25.2 J**
HPAHs												
Benzo(a)anthracene	**9.60 J**	**9.60 J**	**1.70 J**	**1.70 J**	**1.80 J**	**1.80 J**	**3.30 J**	**3.30 J**	**12.0**	**12.0**	**3.70 J**	**3.70 J**
Benzo(a)pyrene	**11.0**	**11.0**	**1.90 J**	**1.90 J**	1.60 U	9.70 U	**4.30 J**	**4.30 J**	**14.0**	**14.0**	**4.50 J**	**4.50 J**
Benzo(b)fluoranthene	**9.70 J**	**9.70 J**	2.50 U	9.70 U	2.50 U	9.70 U	**4.50 J**	**4.50 J**	**16.0**	**16.0**	**3.30 J**	**3.30 J**
Benzo(g,h,i)perylene	**5.80 J**	**5.80 J**	2.30 U	9.70 U	2.30 U	9.70 U	**2.80 J**	**2.80 J**	**6.80 J**	**6.80 J**	2.30 U	9.80 U
Benzo(k)fluoranthene	**4.20 J**	**4.20 J**	2.50 U	9.70 U	2.50 U	9.70 U	2.50 U	9.90 U	**6.50 J**	**6.50 J**	2.50 U	9.80 U
Chrysene	**9.60 J**	**9.60 J**	**1.60 J**	**1.60 J**	1.40 U	9.70 U	**3.50 J**	**3.50 J**	**18.0**	**18.0**	**3.40 J**	**3.40 J**
Dibenz(a,h)anthracene	2.20 U	10.0 U	2.20 U	9.70 U	2.20 U	9.70 U	2.20 U	9.90 U	**2.30 J**	**2.30 J**	2.20 U	9.80 U
Fluoranthene	**20.0**	**20.0**	**2.90 J**	**2.90 J**	2.20 U	9.70 U	**4.30 J**	**4.30 J**	**22.0**	**22.0**	**6.20 J**	**6.20 J**
Indeno(1,2,3-cd)pyrene	**6.30 J**	**6.30 J**	1.90 U	9.70 U	1.90 U	9.70 U	**2.80 J**	**2.80 J**	**8.20 J**	**8.20 J**	1.90 U	9.80 U
Pyrene	**20.0**	**20.0**	**2.60 J**	**2.60 J**	**1.80 J**	**1.80 J**	**4.60 J**	**4.60 J**	**21.0**	**21.0**	**6.40 J**	**6.40 J**
Total HPAHs (full MDL/MRL)	**98.4 J**	**106 J**	**22.1 J**	**59.2 J**	**20.2 J**	**81.2 J**	**34.8 J**	**49.9 J**	**127 J**	**127 J**	**36.4 J**	**66.7 J**
Total HPAHs (KM)	**98.4 J**	**104 J**	**19.2 J**	**21.4 J**	**16.0 J**	NC **J**	**34.5 J**	**37.6 J**	**127 J**	**127 J**	**35.1 J**	**45.8 J**
Total HPAHs (KM-capped)	**98.4 J**	**104 J**	**19.2 J**	**21.4 J**	**16.0 J**	**81.2 J**	**34.5 J**	**37.6 J**	**127 J**	**127 J**	**35.1 J**	**45.8 J**
Total PAHs (full MDL/MRL)	**109 J**	**134 J**	**27.5 J**	**98.0 J**	**25.6 J**	**120 J**	**41.1 J**	**81.8 J**	**138 J**	**155 J**	**44.7 J**	**91.9 J**
Total PAHs (KM)	**107 J**	**123 J**	**21.4 J**	**30.0 J**	**16.8 J**	NC	**37.5 J**	**50.2 J**	**137 J**	**145 J**	**40.6 J**	**57.9 J**
Total PAHs (KM, capped)	**107 J**	**123 J**	**21.4 J**	**30.0 J**	**16.8 J**	**120 J**	**37.5 J**	**50.2 J**	**137 J**	**145 J**	**40.6 J**	**57.9 J**

Notes:

MDL = method detection limit
MRL = method reporting limit
bold = analyte detected above MDL.
J = The reported value is an estimate.
U = The analyte was not detected at or above the MDL.
PAH = Polycyclic Aromatic Hydrodarbons

LPAH = Low Molecular Weight PAH
HPAH = High Molecular Weight PAH
All units are in micrograms per kilogram (µg/kg), dry weight
NC = Not calculated
KM = Kaplan–Meier-based with Efron's bias correction
KM, capped = Kaplan–Meier-based with Efron's bias correction, capped