October 2011 1668 Sampling

Reference Figure 5.1 to locate the sample locations discussed in this section. Results from this round of sampling were consistent with the historic 1668 data set. Three out of the four KCP outfalls detected PCBs at levels within the historic range of results. Historically, Outfall 004 has not detected PCBs. Table 5.5 provides total PCB concentrations derived from Method 1668 analysis from the four outfalls and six surface water sample stations near the KCP. Outfall 001 detected 4.71 ng/L total PCBs, Outfall 002 detected 195.5 ng/L total PCBs, and Outfall 003 did not detect PCBs. With the exception of no PCBs detected at Outfall 003, these results are within the historic range of results.

Two of the three surface water sample stations on the Blue River detected PCBs. Both sample stations on Boone Creek detected PCBs at concentrations at relatively significant levels when compared to results from other surface water sample stations.
Although none of the three Indian Creek sample stations detected PCBs fish tissue samples collected during numerous previous rounds of bioaccumulation sampling demonstrate the presence of PCBs within the Indian Creek watershed both upstream and downstream of KCP stormwater discharges.

The upstream Blue River sample station (BRU) and the downstream Blue River sample station (BRD) detected PCBs. Sample station BRU, which serves as the upstream background sample station on the Blue River detected 0.287 ng/L total PCBs which is within the range of historic results. The BRU sample station detects PCBs approximately 50% of the time when sampled by Method 1668. Biota samples (fish tissue and clams) collected at the BRU sample station consistently detect PCBs. These data (water and biota samples) demonstrate the Blue River upstream of the KCP is impacted by sources of PCBs not related to the KCP.

The BRD sample station downstream of all KCP discharges detected 4.23 ng/L of PCBs.
The BRD sample station is impacted by PCBs contributed by a source located within the watershed of Boone Creek. Boone Creek runs along the northeast edge of the Bannister Federal Complex before discharging into the Blue River immediately south of the Prospect bridge. KCP Outfall 001 discharges into Boone Creek. Sample station BCU is located upstream of Outfall 001. The BCU sample station detected 62.1 ng/L of total PCBs. The Boone Creek sample station located downstream of the Outfall 001 discharge detected 56.3 ng/L of total PCBs. Based on the historic data set for Boone Creek, it is apparent that a PCB source upstream of the KCP on Boone Creek adds to the PCB levels detected at the BRD sample station.

Table 5.8 provides Method 1668 sample results for the four regulated outfalls and six surface water sample stations by concentration and Table 5.9 provides the weight percent congener composition present in the sample. In order to compare the makeup of congeners present in the sample to the distribution of congeners in pure Aroclor 1242 the weight percent congener composition for Aroclor 1242 is also provided in Table 5.9. Samples from Outfall 001 and 002 typically note a higher relative weight percent of the di, tri and tetrachlorobiphenyl homolog groups which is consistent with the homolog

Table 5.8
October 2011 Method 1668 Surface Water Sampling Results
(results in ng/L)

Parameter	Unit	Date	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705
PCB-001	ng/L	10/5/11	0.521	0.428	< 0.208	< 0.23	1.83	2.11	0.525	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-002	ng/L	10/5/11	< 0.027	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-003	ng/L	10/5/11	0.0788	0.291	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
Totals for Monochlorobiphenyl			**0.600**	**0.719**	**0.000**	**0.000**	**1.830**	**2.110**	**0.525**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
PCB-004	ng/L	10/5/11	2.14	5.84	< 0.208	< 0.23	15.800	19.3	2.08	0.287	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-005	ng/L	10/5/11	< 0.106	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-006	ng/L	10/5/11	< 0.106	0.771	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-007	ng/L	10/5/11	< 0.0244	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-008	ng/L	10/5/11	0.264	1.67	< 0.208	< 0.23	0.521	0.699	0.259	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-009	ng/L	10/5/11	< 0.0224	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-010	ng/L	10/5/11	0.0926	< 0.218	< 0.208	< 0.23	< 0.205	0.574	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-011	ng/L	10/5/11	< 1.8	< 1.31	< 1.25	< 1.38	< 1.23	< 1.27	< 1.24	< 1.31	< 1.22	< 1.22	< 1.27	< 1.26	< 1.46
PCB-012	ng/L	10/5/11	< 0.212	0.452	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-013	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.486
PCB-014	ng/L	10/5/11	< 0.0235	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-015	ng/L	10/5/11	0.628	3.98	< 0.208	< 0.23	3.11	2.94	0.527	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
Totals for Dichlorobiphenyl			**3.125**	**12.713**	**0.000**	**0.000**	**19.431**	**23.513**	**2.866**	**0.287**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
PCB-016	ng/L	10/5/11	0.0871	1.01	< 0.208	< 0.23	0.233	0.299	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-017	ng/L	10/5/11	0.198	1.63	< 0.208	< 0.23	0.791	0.985	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-018	ng/L	10/5/11	0.226	3.22	< 0.416	< 0.46	0.694	0.924	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-019	ng/L	10/5/11	0.571	3.36	< 0.208	< 0.23	2.52	2.81	0.319	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-020	ng/L	10/5/11	0.328	7.99	< 0.416	< 0.46	3.7	3.72	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-021	ng/L	10/5/11	< 0.212	1.11	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-022	ng/L	10/5/11	0.118	2.97	< 0.208	< 0.23	0.938	0.971	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-023	ng/L	10/5/11	< 0.106	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-024	ng/L	10/5/11	< 0.0278	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-025	ng/L	10/5/11	0.0496	0.553	< 0.208	< 0.23	0.34	0.35	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-026	ng/L	10/5/11	< 0.212	1.04	< 0.416	< 0.46	0.693	0.718	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-027	ng/L	10/5/11	0.114	0.75	< 0.208	< 0.23	0.476	0.592	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-028	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.486
PCB-029	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.486
PCB-030	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.486
PCB-031	ng/L	10/5/11	0.243	3.24	< 0.208	< 0.23	2.14	2.25	0.301	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243

OF002 sample was collected on 10/26/2011

Table 5.8
October 2011 Method 1668 Surface Water Sampling Results
(results in ng/L)

Parameter	Unit	Date	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705
PCB-032	ng/L	10/5/11	0.346	3.16	< 0.208	< 0.23	1.45	1.73	0.218	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-033	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.486
PCB-034	ng/L	10/5/11	< 0.106	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-035	ng/L	10/5/11	< 0.0245	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-036	ng/L	10/5/11	< 0.0226	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-037	ng/L	10/5/11	< 0.106	1.93	< 0.208	< 0.23	0.971	0.956	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-038	ng/L	10/5/11	< 0.106	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
PCB-039	ng/L	10/5/11	< 0.0229	< 0.218	< 0.208	< 0.23	< 0.205	< 0.212	< 0.206	< 0.218	< 0.203	< 0.203	< 0.212	< 0.21	< 0.243
Totals for Trichlorobiphenyl			**2.281**	**31.963**	**0.000**	**0.000**	**14.946**	**16.305**	**0.838**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
PCB-040	ng/L	10/5/11	< 0.637	3.42	< 1.25	< 1.38	1.56	1.58	< 1.24	< 1.31	< 1.22	< 1.22	< 1.27	< 1.26	< 1.46
PCB-041	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-042	ng/L	10/5/11	0.0972	1.5	< 0.416	< 0.46	0.816	0.816	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-043	ng/L	10/5/11	< 0.424	< 0.873	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-044	ng/L	10/5/11	< 0.637	4.98	< 1.25	< 1.38	2.8	2.86	< 1.24	< 1.31	< 1.22	< 1.22	< 1.27	< 1.26	< 1.46
PCB-045	ng/L	10/5/11	< 0.212	1.37	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-046	ng/L	10/5/11	< 0.0603	0.484	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-047	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-048	ng/L	10/5/11	< 0.0438	0.869	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-049	ng/L	10/5/11	< 0.424	2.92	< 0.833	< 0.92	1.97	2.04	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-050	ng/L	10/5/11	< 0.145	0.965	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-051	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-052	ng/L	10/5/11	0.34	4.46	< 0.416	< 0.46	2.79	3.05	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-053	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-054	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-055	ng/L	10/5/11	< 0.052	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-056	ng/L	10/5/11	0.0926	2.72	< 0.416	< 0.46	1.19	1.11	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-057	ng/L	10/5/11	< 0.044	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-058	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-059	ng/L	10/5/11	< 0.637	< 1.31	< 1.25	< 1.38	< 1.23	< 1.27	< 1.24	< 1.31	< 1.22	< 1.22	< 1.27	< 1.26	< 1.46
PCB-060	ng/L	10/5/11	< 0.048	1.54	< 0.416	< 0.46	0.677	0.625	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-061	ng/L	10/5/11	< 0.849	5.94	< 1.67	< 1.84	3.1	2.96	< 1.65	< 1.74	< 1.63	< 1.63	< 1.7	< 1.68	< 1.94
PCB-062	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-063	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-064	ng/L	10/5/11	0.146	2.5	< 0.416	< 0.46	1.47	1.49	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486

OF002 sample was collected on 10/26/2011

Table 5.8
October 2011 Method 1668 Surface Water Sampling Results
(results in ng/L)

Parameter	Unit	Date	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705
PCB-065	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-066	ng/L	10/5/11	0.187	4.88	< 0.416	< 0.46	2.64	2.47	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-067	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-068	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-069	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-070	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.94
PCB-071	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-072	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-073	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-074	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.94
PCB-075	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-076	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.94
PCB-077	ng/L	10/5/11	< 0.51	0.564	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-078	ng/L	10/5/11	< 0.0508	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-079	ng/L	10/5/11	< 0.0426	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-080	ng/L	10/5/11	< 0.0552	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-081	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
Totals for Tetrachlorobiphenyl (4Cl)			**0.863**	**39.112**	**0.000**	**0.000**	**19.013**	**19.001**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
PCB-082	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-083	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-084	ng/L	10/5/11	< 0.106	0.596	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-085	ng/L	10/5/11	< 0.637	< 1.31	< 1.25	< 1.38	< 1.23	< 1.27	< 1.24	< 1.31	< 1.22	< 1.22	< 1.27	< 1.26	< 1.46
PCB-086	ng/L	10/5/11	< 1.27	< 2.62	< 2.5	< 2.76	< 2.46	< 2.55	< 2.47	< 2.61	< 2.44	< 2.44	< 2.54	< 2.52	< 2.92
PCB-087	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 2.92
PCB-088	ng/L	10/5/11	< 0.106	< 0.873	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-089	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-090	ng/L	10/5/11	< 0.637	3.74	< 1.25	< 1.38	< 1.23	< 1.27	< 1.24	< 1.31	< 1.22	< 1.22	< 1.27	< 1.26	< 1.46
PCB-091	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-092	ng/L	10/5/11	< 0.106	0.458	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-093	ng/L	10/5/11	< 0.849	< 1.75	< 1.67	< 1.84	< 1.64	< 1.7	< 1.65	< 1.74	< 1.63	< 1.63	< 1.7	< 1.68	< 1.94
PCB-094	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-095	ng/L	10/5/11	< 0.106	2.5	< 0.416	< 0.46	0.541	0.585	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-096	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-097	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 2.92

OF002 sample was collected on 10/26/2011

Table 5.8
October 2011 Method 1668 Surface Water Sampling Results
(results in ng/L)

Parameter	Unit	Date	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705
PCB-098	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.94
PCB-099	ng/L	10/5/11	< 0.0783	0.582	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-100	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.94
PCB-101	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-102	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.94
PCB-103	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-104	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-105	ng/L	10/5/11	< 0.106	0.972	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-106	ng/L	10/5/11	< 0.0789	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-107	ng/L	10/5/11	< 0.212	< 0.873	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-108	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 2.92
PCB-109	ng/L	10/5/11	< 0.0598	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-110	ng/L	10/5/11	< 0.212	2.92	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-111	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.486
PCB-112	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-113	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-114	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-115	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-116	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-117	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-118	ng/L	10/5/11	< 0.106	2.33	< 0.416	< 0.46	0.588	0.578	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-119	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 2.92
PCB-120	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-121	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-122	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-123	ng/L	10/5/11	< 0.637	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-124	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-125	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 2.92
PCB-126	ng/L	10/5/11	< 0.0441	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-127	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
Totals for Pentachlorobiphenyl			**0.000**	**14.098**	**0.000**	**0.000**	**1.129**	**1.163**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
PCB-128	ng/L	10/5/11	< 0.212	< 0.873	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-129	ng/L	10/5/11	< 0.637	12.5	< 1.25	< 1.38	< 1.23	< 1.27	< 1.24	< 1.31	< 1.22	< 1.22	< 1.27	< 1.26	< 1.46
PCB-130	ng/L	10/5/11	< 0.452	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486

OF002 sample was collected on 10/26/2011

Table 5.8
October 2011 Method 1668 Surface Water Sampling Results
(results in ng/L)

Parameter	Unit	Date	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705
PCB-131	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-132	ng/L	10/5/11	< 0.0435	3.09	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-133	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-134	ng/L	10/5/11	< 0.212	< 0.873	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-135	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-136	ng/L	10/5/11	< 0.106	1.32	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-137	ng/L	10/5/11	< 0.083	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-138	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-139	ng/L	10/5/11	< 0.0918	< 0.873	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-140	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-141	ng/L	10/5/11	< 0.106	3.05	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-142	ng/L	10/5/11	< 0.0541	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-143	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-144	ng/L	10/5/11	< 0.106	0.642	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-145	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-146	ng/L	10/5/11	< 0.106	1.37	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-147	ng/L	10/5/11	< 0.212	8.72	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-148	ng/L	10/5/11	< 0.0441	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-149	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-150	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-151	ng/L	10/5/11	< 0.212	4.22	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-152	ng/L	10/5/11	< 0.0479	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-153	ng/L	10/5/11	< 0.104	11.8	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-154	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-155	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-156	ng/L	10/5/11	< 0.212	0.956	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-157	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-158	ng/L	10/5/11	< 0.0462	1.06	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-159	ng/L	10/5/11	< 0.0446	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-160	ng/L	10/5/11	< 0.0563	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-161	ng/L	10/5/11	< 0.0446	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-162	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-163	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-164	ng/L	10/5/11	< 0.0515	0.882	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-165	ng/L	10/5/11	< 0.0512	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486

OF002 sample was collected on 10/26/2011

Table 5.8
October 2011 Method 1668 Surface Water Sampling Results
(results in ng/L)

Parameter	Unit	Date	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705
PCB-166	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-167	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-168	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-169	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
Totals for Hexachlorobiphenyl			**0.000**	**49.610**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
PCB-170	ng/L	10/5/11	< 0.106	5.49	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-171	ng/L	10/5/11	< 0.212	1.55	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-172	ng/L	10/5/11	< 0.106	0.852	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-173	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-174	ng/L	10/5/11	< 0.053	4.9	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-175	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-176	ng/L	10/5/11	< 0.0502	0.585	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-177	ng/L	10/5/11	< 0.106	2.88	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-178	ng/L	10/5/11	< 0.106	0.95	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-179	ng/L	10/5/11	< 0.106	1.8	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-180	ng/L	10/5/11	< 0.212	11.3	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-181	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-182	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-183	ng/L	10/5/11	< 0.212	3.31	< 0.833	< 0.92	< 0.82	< 0.85	< 0.823	< 0.87	< 0.813	< 0.813	< 0.848	< 0.84	< 0.972
PCB-184	ng/L	10/5/11	< 0.0492	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-185	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
PCB-186	ng/L	10/5/11	< 0.0491	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-187	ng/L	10/5/11	< 0.106	5.38	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-188	ng/L	10/5/11	< 0.0445	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-189	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-190	ng/L	10/5/11	< 0.0469	1.16	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-191	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-192	ng/L	10/5/11	< 0.106	< 0.437	< 0.416	< 0.46	< 0.41	< 0.425	< 0.412	< 0.435	< 0.406	< 0.406	< 0.424	< 0.42	< 0.486
PCB-193	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 0.972
Totals for Heptachlorobiphenyl			**0.000**	**40.157**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
PCB-194	ng/L	10/5/11	< 0.106	2	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
PCB-195	ng/L	10/5/11	< 0.106	0.866	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
PCB-196	ng/L	10/5/11	< 0.106	1.05	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729

OF002 sample was collected on 10/26/2011

Table 5.8
October 2011 Method 1668 Surface Water Sampling Results
(results in ng/L)

Parameter	Unit	Date	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705
PCB-197	ng/L	10/5/11	< 0.212	< 1.31	< 1.25	< 1.38	< 1.23	< 1.27	< 1.24	< 1.31	< 1.22	< 1.22	< 1.27	< 1.26	< 1.46
PCB-198	ng/L	10/5/11	< 0.212	2.05	< 1.25	< 1.38	< 1.23	< 1.27	< 1.24	< 1.31	< 1.22	< 1.22	< 1.27	< 1.26	< 1.46
PCB-199	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-200	ng/L	10/5/11	0	0	0	0	0	0	0	0	0	0	0	0	< 1.46
PCB-201	ng/L	10/5/11	< 0.106	< 0.655	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
PCB-202	ng/L	10/5/11	< 0.106	< 0.655	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
PCB-203	ng/L	10/5/11	< 0.106	1.17	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
PCB-204	ng/L	10/5/11	< 0.106	< 0.655	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
PCB-205	ng/L	10/5/11	< 0.106	< 0.655	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
Totals for Octachlorobiphenyl			**0.000**	**7.136**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
PCB-206	ng/L	10/5/11	< 0.106	< 0.655	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
PCB-207	ng/L	10/5/11	< 0.106	< 0.655	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
PCB-208	ng/L	10/5/11	< 0.0747	< 0.655	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
Totals for Nonachlorobiphenyl			**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
PCB-209	ng/L	10/5/11	< 0.106	< 0.655	< 0.625	< 0.69	< 0.615	< 0.637	< 0.618	< 0.653	< 0.609	< 0.61	< 0.636	< 0.63	< 0.729
Totals for Decachlorobiphenyl			**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**	**0.000**
TOTAL PCBs ng/L			6.868	195.508	0.000	0.000	56.349	62.092	4.229	0.287	0.000	0.000	0.000	0.000	0.000

OF002 sample was collected on 10/26/2011

Table 5.9
October 2011 Method 1668 Surface Water Sampling Results
Weight Percent Congener Composition

Parameter	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705	Aroclor 1242*
PCB-001	7.586	0.219	0.000	0.000	3.248	3.398	12.414	0.000	0.000	0.000	0.000	0.000	0.000	0.540
PCB-002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030
PCB-003	1.147	0.149	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.180
total monochlorobiphenyl	8.733	0.368	0.000	0.000	3.248	3.398	12.414	0.000	0.000	0.000	0.000	0.000	0.000	0.750
PCB-004	31.159	2.987	0.000	0.000	28.040	31.083	49.184	100.000	0.000	0.000	0.000	0.000	0.000	3.080
PCB-005	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.140
PCB-006	0.000	0.394	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.430
PCB-007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.260
PCB-008	3.844	0.854	0.000	0.000	0.925	1.126	6.124	0.000	0.000	0.000	0.000	0.000	0.000	7.050
PCB-009	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
PCB-010	1.348	0.000	0.000	0.000	0.000	0.924	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.200
PCB-011	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-012	0.000	0.231	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060
PCB-013	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.220
PCB-014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-015	9.144	2.036	0.000	0.000	5.519	4.735	12.462	0.000	0.000	0.000	0.000	0.000	0.000	2.100
total dichlorobiphenyl	45.496	6.503	0.000	0.000	34.483	37.868	67.770	100.000	0.000	0.000	0.000	0.000	0.000	15.040
PCB-016	1.268	0.517	0.000	0.000	0.413	0.482	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.140
PCB-017	2.883	0.834	0.000	0.000	1.404	1.586	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.130
PCB-018	3.291	1.647	0.000	0.000	1.232	1.488	0.000	0.000	0.000	0.000	0.000	0.000	0.000	8.530
PCB-019	8.314	1.719	0.000	0.000	4.472	4.526	7.543	0.000	0.000	0.000	0.000	0.000	0.000	0.800
PCB-020	4.776	4.087	0.000	0.000	6.566	5.991	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.720
PCB-021	0.000	0.568	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-022	1.718	1.519	0.000	0.000	1.665	1.564	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.840
PCB-023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
PCB-024	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.130
PCB-025	0.722	0.283	0.000	0.000	0.603	0.564	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.590
PCB-026	0.000	0.532	0.000	0.000	1.230	1.156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.280
PCB-027	1.660	0.384	0.000	0.000	0.845	0.953	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.410
PCB-028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.860
PCB-029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080
PCB-030	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Legend: **PCB Congener Weight Percent**

0	PCBs 0.001 - <1	PCBs 1 - <5	PCBs 5 - <20	PCBs >20

OF002 sample was collected on 10/26/2011

Table 5.9
October 2011 Method 1668 Surface Water Sampling Results
Weight Percent Congener Composition

Parameter	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705	Aroclor 1242*
PCB-031	3.538	1.657	0.000	0.000	3.798	3.624	7.118	0.000	0.000	0.000	0.000	0.000	0.000	7.340
PCB-032	5.038	1.616	0.000	0.000	2.573	2.786	5.155	0.000	0.000	0.000	0.000	0.000	0.000	1.900
PCB-033	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	5.010
PCB-034	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020
PCB-035	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080
PCB-036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-037	0.000	0.987	0.000	0.000	1.723	1.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.030
PCB-038	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-039	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
total trichlorobiphenyls	33.208	16.349	0.000	0.000	26.524	26.259	19.816	0.000	0.000	0.000	0.000	0.000	0.000	44.900
PCB-040	0.000	1.749	0.000	0.000	2.768	2.545	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.760
PCB-041	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.680
PCB-042	1.415	0.767	0.000	0.000	1.448	1.314	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.190
PCB-043	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.180
PCB-044	0.000	2.547	0.000	0.000	4.969	4.606	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.550
PCB-045	0.000	0.701	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.890
PCB-046	0.000	0.248	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.360
PCB-047	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.930
PCB-048	0.000	0.444	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.180
PCB-049	0.000	1.494	0.000	0.000	3.496	3.285	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.530
PCB-050	0.000	0.494	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-051	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.230
PCB-052	4.951	2.281	0.000	0.000	4.951	4.912	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.530
PCB-053	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.710
PCB-054	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
PCB-055	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.100
PCB-056	1.348	1.391	0.000	0.000	2.112	1.788	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.810
PCB-057	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020
PCB-058	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-059	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.320
PCB-060	0.000	0.788	0.000	0.000	1.201	1.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.180
PCB-061	0.000	3.038	0.000	0.000	5.501	4.767	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-062	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Legend: **PCB Congener Weight Percent**

0	PCBs 0.001 - <1	PCBs 1 - <5	PCBs 5 - <20	PCBs >20

OF002 sample was collected on 10/26/2011

Table 5.9
October 2011 Method 1668 Surface Water Sampling Results
Weight Percent Congener Composition

Parameter	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705	Aroclor 1242*
PCB-063	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.120
PCB-064	2.126	1.279	0.000	0.000	2.609	2.400	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.700
PCB-065	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-066	2.723	2.496	0.000	0.000	4.685	3.978	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.390
PCB-067	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.160
PCB-068	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-069	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-070	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	3.730
PCB-071	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.030
PCB-072	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
PCB-073	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
PCB-074	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.810
PCB-075	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040
PCB-076	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.080
PCB-077	0.000	0.288	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-078	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.310
PCB-079	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-080	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-081	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
total tetrachlorobiphenyls	12.563	20.005	0.000	0.000	33.742	30.601	0.000	0.000	0.000	0.000	0.000	0.000	0.000	32.540
PCB-082	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
PCB-083	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.260
PCB-084	0.000	0.305	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.110
PCB-085	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.410
PCB-086	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.310
PCB-087	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.460
PCB-088	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030
PCB-089	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-090	0.000	1.913	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090
PCB-091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.210
PCB-092	0.000	0.234	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-093	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.090
PCB-094	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-095	0.000	1.279	0.000	0.000	0.960	0.942	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010

Legend: **PCB Congener Weight Percent**

0	PCBs 0.001 - <1	PCBs 1 - <5	PCBs 5 - <20	PCBs >20

OF002 sample was collected on 10/26/2011

Table 5.9
October 2011 Method 1668 Surface Water Sampling Results
Weight Percent Congener Composition

Parameter	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705	Aroclor 1242*
PCB-096	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.610
PCB-097	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.380
PCB-098	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-099	0.000	0.298	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030
PCB-100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-101	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.690
PCB-102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.070
PCB-103	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.460
PCB-104	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-105	0.000	0.497	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-106	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.470
PCB-107	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-109	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060
PCB-110	0.000	1.494	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-112	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.830
PCB-113	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040
PCB-116	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030
PCB-118	0.000	1.192	0.000	0.000	1.043	0.931	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040
PCB-119	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.660
PCB-121	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-122	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-123	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
PCB-124	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030
PCB-125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020
PCB-126	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.030
PCB-127	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
total pentachlorobiphenyls	0.000	7.211	0.000	0.000	2.004	1.873	0.000	0.000	0.000	0.000	0.000	0.000	0.000	6.450

Legend: **PCB Congener Weight Percent**

0	PCBs 0.001 - <1	PCBs 1 - <5	PCBs 5 - <20	PCBs >20

OF002 sample was collected on 10/26/2011

Table 5.9
October 2011 Method 1668 Surface Water Sampling Results
Weight Percent Congener Composition

Parameter	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705	Aroclor 1242*
PCB-128	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-129	0.000	6.394	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020
PCB-130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-131	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-132	0.000	1.580	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-133	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.040
PCB-134	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000
PCB-136	0.000	0.675	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-137	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-139	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
PCB-141	0.000	1.560	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.100
PCB-142	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-143	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-144	0.000	0.328	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-146	0.000	0.701	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-147	0.000	4.460	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-148	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-149	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-151	0.000	2.158	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060
PCB-152	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-153	0.000	6.036	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-154	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.060
PCB-155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-156	0.000	0.489	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-157	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-158	0.000	0.542	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
PCB-159	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
PCB-160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-161	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010
PCB-163	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010

Legend: **PCB Congener Weight Percent**

0	PCBs 0.001 - <1	PCBs 1 - <5	PCBs 5 - <20	PCBs >20

OF002 sample was collected on 10/26/2011

Table 5.9
October 2011 Method 1668 Surface Water Sampling Results
Weight Percent Congener Composition

Parameter	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705	Aroclor 1242*
PCB-164	0.000	0.451	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-166	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-167	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-169	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
total hexachlorobiphenyls	0.000	25.375	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.330
PCB-170	0.000	2.808	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-171	0.000	0.793	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-172	0.000	0.436	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-173	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-174	0.000	2.506	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-176	0.000	0.299	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-177	0.000	1.473	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-178	0.000	0.486	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-179	0.000	0.921	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-180	0.000	5.780	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-181	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-182	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-183	0.000	1.693	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-184	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-185	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-186	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-187	0.000	2.752	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-188	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-189	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-190	0.000	0.593	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-191	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-192	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-193	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
total heptachlorobiphenyls	0.000	20.540	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Legend: **PCB Congener Weight Percent**

0	PCBs 0.001 - <1	PCBs 1 - <5	PCBs 5 - <20	PCBs >20

OF002 sample was collected on 10/26/2011

Table 5.9
October 2011 Method 1668 Surface Water Sampling Results
Weight Percent Congener Composition

Parameter	OF001	OF002	OF003	OF004	SWBCD	SWBCU	SWBRDD	SWBRU	SWICBR	SWICDA	SWICDB	SWICU	Blank 30705	Aroclor 1242*
PCB-194	0.000	1.023	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-195	0.000	0.443	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-196	0.000	0.537	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-197	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-198	0.000	1.049	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-199	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-200	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-201	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-202	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-203	0.000	0.598	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-204	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-205	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
total octachlorobiphenyls	0.000	3.650	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-206	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-207	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-208	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
total nonachlorobiphenyls	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PCB-209	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
total decachlorobiphenyls	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Legend: **PCB Congener Weight Percent**

0	PCBs 0.001 - <1	PCBs 1 - <5	PCBs 5 - <20	PCBs >20

*2000 ATSDR Toxological Profile for Polychlorinated Biphenyls, Table 4-4.

OF002 sample was collected on 10/26/2011

distribution of an Aroclor 1242 pattern. Outfall 003 notes a higher relative weight percent distribution of the penta and hexachlorobiphenyl homolog groups which is likely associated with the historic Aroclor 1260 PCB source. However, during the November sample event Outfall 002 noted a higher relative weight percent distribution of the hexa and heptachlorobiphenyl homolog groups, which is indicative of an Aroclor 1260 source. Approximately 90 ng/L of the 195.5 ng/L total PCBs detected at Outfall 002 were composed of the hexa and hepta homolog groups. Outfalls 001, 002 and 003 detected PCBs within or below the historic range (Table 5.5).

Method 1668a Conclusions

(reference Table 5.5) All results were within the historic 10 year range. PCBs are present in KCP Outfalls 001, 002, and 003, however, concentrations are below the NPDES permit limit of 0.5 µg/L. The surface water sample station downstream of Outfall 002 (ICDB) occasionally detects PCBs. The surface water sample station downstream of all KCP discharges on the Blue River (BRD) routinely detects PCBs. PCB concentrations seen at the BRD sample station are influenced by discharges from the KCP and the source of PCBs noted on Boone Creek upstream of KCP stormwater discharges. Based on 1668 analysis PCBs are present upstream of the KCP on Boone Creek and the Blue River. While PCBs are typically not detected at the upstream Indian Creek sample station (ICU) other available data (i.e., bioaccumulation studies and analysis utilizing semi-permeable membrane devices (SPMDs)) notes the presence of PCBs at the ICU sample station.

Method 1668 analysis is one of several tools used to characterize the occurrence of PCBs in KCP stormwater discharges and associated impact to the receiving streams. The KCP has also utilized semi-permeable membrane devices (SPMDs) and fish tissue sampling to characterize spatial / temporal patterns of PCBs in receiving streams and biota from streams near the KCP (DOE 2008a). Through a comprehensive review of all data sources the following conclusions can be reached:

- ✓ PCB concentrations in Indian Creek and Blue River fish are relatively low, and similar to many national urban sites.
- ✓ The spatial pattern of PCB contamination in fish, coupled with statistical analyses of the congener pattern in fish, continues to indicate that the KCP vicinity contributes to the PCB body burdens of fish in the receiving streams.
- ✓ The presence of PCBs in fish near the KCP is at least partially due to other sources of PCBs to the watershed, as evidenced by detectable levels of PCBs in biota upstream of the plant (DOE 2008a).

Indian Creek Sediment Sampling

As a result of MDNR comments associated with the 95th Terrace RCRA Facility Investigation (RFI) Report, sediment samples for PCB analyses are collected from Indian Creek adjacent to the KCP's stormwater Outfall 002 on a quarterly basis. Appendix F of the Sampling and Analysis Plan was modified to incorporate the above sampling which composites three samples of Indian Creek bed sediments near Outfall 002. Sediment samples are collected from three locations in Indian Creek near Outfall 002 and composited into one sample. Sample location #1 is 10 - 12 feet upstream of the outfall to account for the influence of an eddy, sample location #2 is approximately 10 feet across from the discharge, and sample location #3 is approximately 30 feet downstream of the discharge. The reference site is located a significant distance upstream of

the KCP and is used to characterize any upstream PCB influences. Samples results are provided in Table 5.10.

Table 5.10
Indian Creek Sediment Sample Results Near outfall 002
(total PCB results in mg/kg)

Date / location	Indian Creek #1	Indian Creek #2	Indian Creek #3	Average Indian Creek PCB sediment concentration	Upstream reference (Holmes Bridge)
2/18/2011	0.0737	2.31	0.0373	0.807	<0.0328
3/15/2011	<0.0326	1.18	<0.0326	0.393	<0.0321
4/18/11	<0.0329	0.583	<0.0323	0.194	<0.0324
7/19/11	<0.0161	<0.0326	0.269	0.0897	<0.0163
10/21/11	0.143	1.299	<0.0939	0.480	<0.0974

The 95th Terrace Corrective Measures Study (CMS) evaluated remediation alternatives for the 95th Terrace site, which included alternatives to address PCB contaminated sediments in Indian Creek. MDNR approved the CMS October 5, 2005. The 95th Terrace CMS requires calculation of a Hazard Index (HI) for the recreational receptor pathway for sediments near Outfall 002. If the HI were to exceed a value of one for four consecutive sampling events (performed quarterly) this would trigger an investigation and evaluation of potential causes for upward trends of PCBs in Indian Creek sediments and the possible need to implement other corrective measure alternatives for contaminated sediment in Indian Creek. The HI calculation is based on the average concentration of PCBs collected from the three sample locations near Outfall 002. A HI equal to or less than one indicates that no adverse noncarcinogenic health effects are expected to occur even to sensitive individuals over a lifetime of exposure. The HI (Hazard Quotient) determinations for both the child and adult recreational receptors are provided in Table 5.11. The HI calculations associated with each of the five sediment sampling events (Table 5.10) are provided as attachments at the end of this section. The cumulative HI did not approach 1.0 for either receptor.

Table 5.11.
Child and Adult Recreational Receptor Dermal / Ingestion
Exposure Pathway HI Summaries for PCBs in Streambed Sediments

	Intake Pathway	Child Hazard Quotient (HI)		Adult Hazard Quotient (HI)	
		Average	**RME**	**Average**	**RME**
February 2011 Sediment Data	dermal	0.004	0.138	0.000	0.09
	ingestion	0.003	0.025	0.001	0.010
	Cumulative HI	**0.007**	**0.163**	**0.001**	**0.100**
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March 2011 Sediment Data	dermal	0.002	0.067	0.00	0.04
	ingestion	0.002	0.012	0.00	0.000
	Cumulative HI	**0.004**	**0.079**	**0.00**	**0.04**
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April 2011 Sediment Data	dermal	0.001	0.033	0.00	0.02
	ingestion	0.001	0.006	0.00	0.000
	Cumulative HI	**0.002**	**0.039**	**0.00**	**0.02**
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July 2011 Sediment Data	dermal	0.000	0.015	0.00	0.01
	ingestion	0.000	0.003	0.00	0.02
	Cumulative HI	**0.000**	**0.018**	**0.00**	**0.03**
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October 2011 Sediment Data	dermal	0.002	0.082	0.00	0.05
	ingestion	0.002	0.015	0.00	0.00
	Cumulative HI	**0.004**	**0.097**	**0.00**	**0.05**

RME – Reasonable Maximum Exposure level