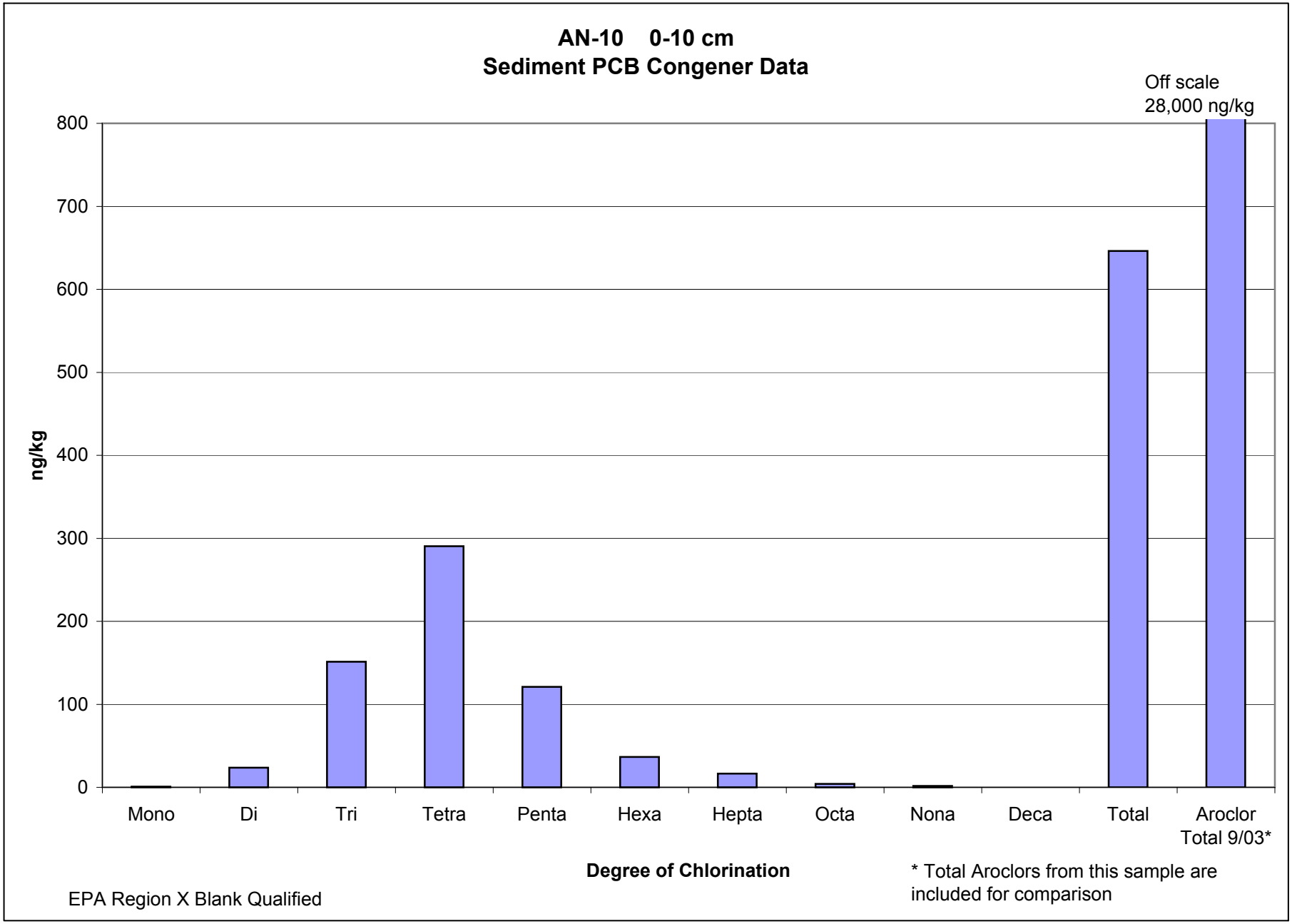
APPENDIX F

SEDIMENT PCB CONGENER RESULTS

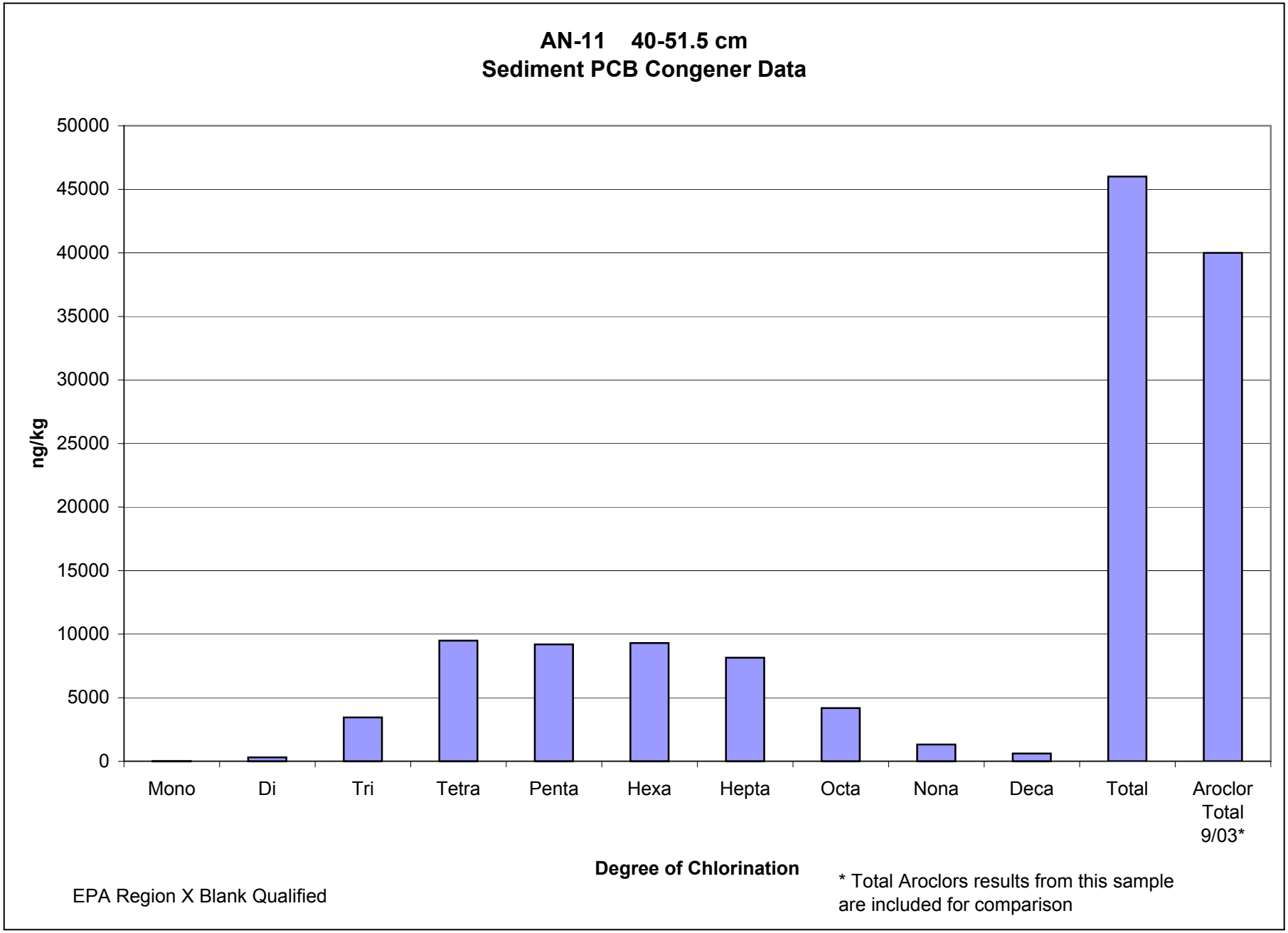
SEDIMENT PCB CONGENER RESULTS

The supplemental sediment PCB congener data collected during the RI corroborates earlier site characterization efforts (e.g., as described in Exponent and Anchor 2001) suggesting that elevated sediment PCB concentrations are primarily confined to the known existing deposit of finer-grained sediment previously delineated immediately above Upriver Dam.



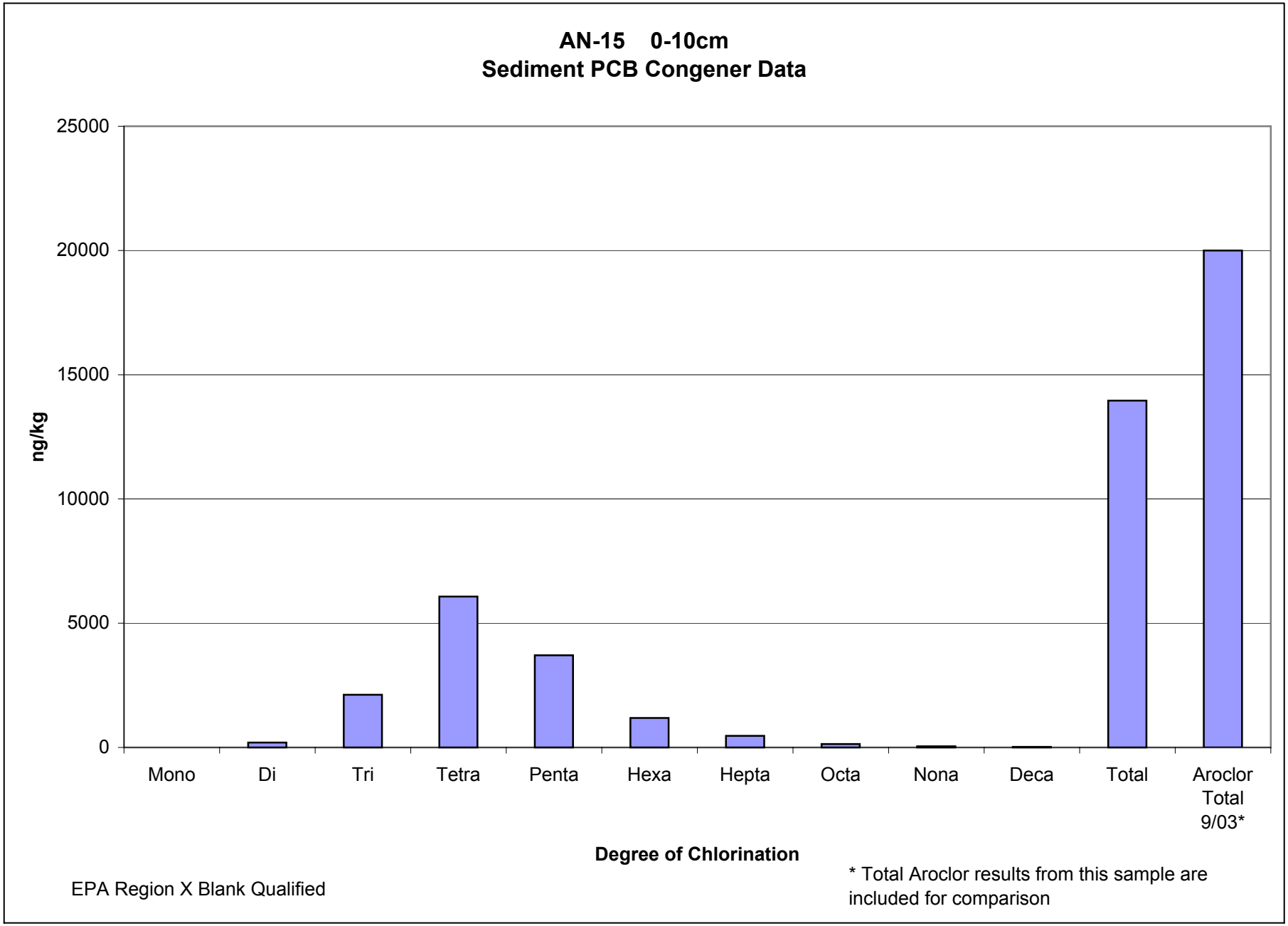
ANCHOR ENVIRONMENTAL, L.L.C.

Figure F-1
Sediment PCB Congener Data
AN-10 0-10 cm



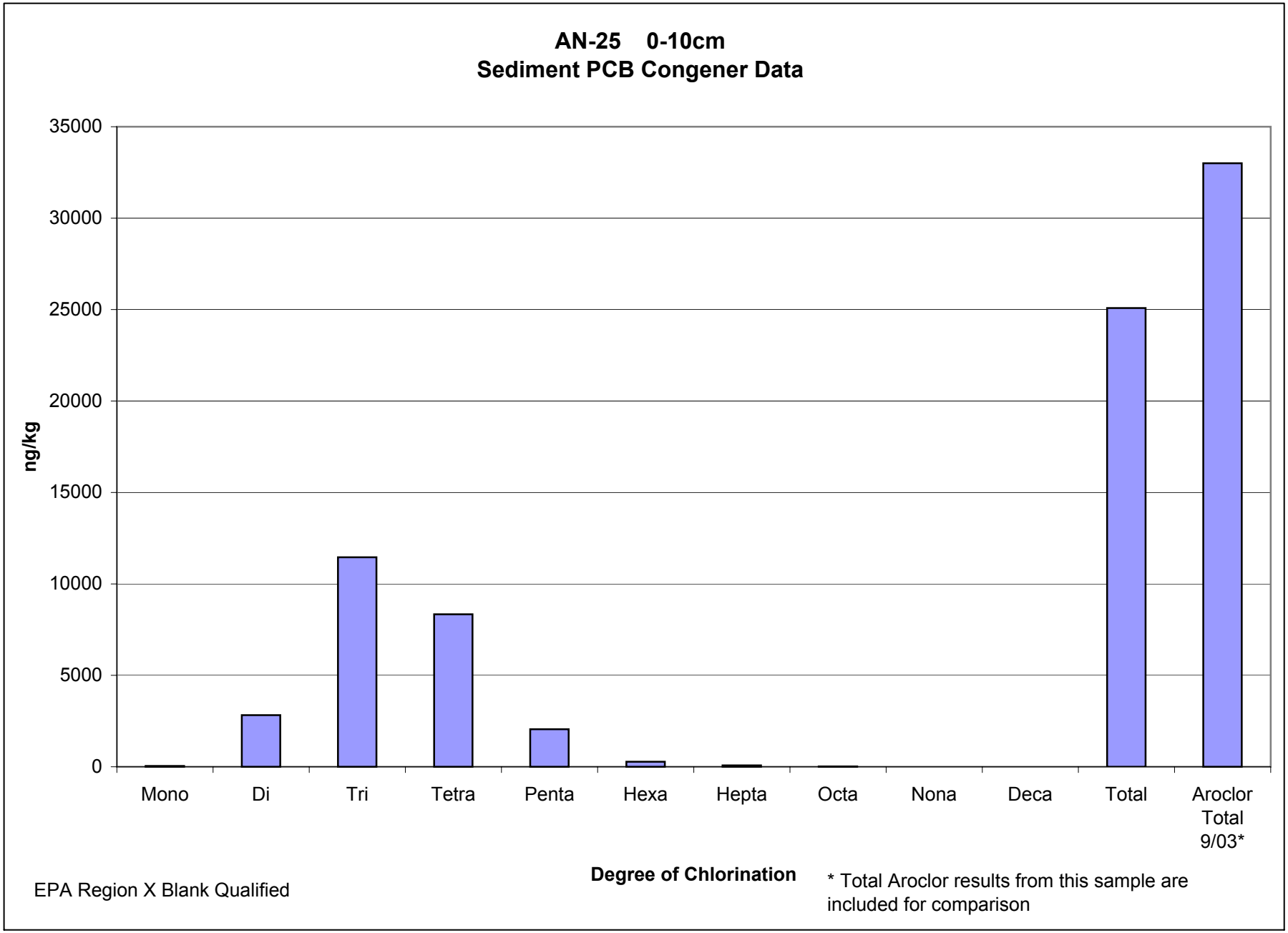
ANCHOR ENVIRONMENTAL, L.L.C.

Figure F-2
Sediment PCB Congener Data
AN-11 40-51.5 cm



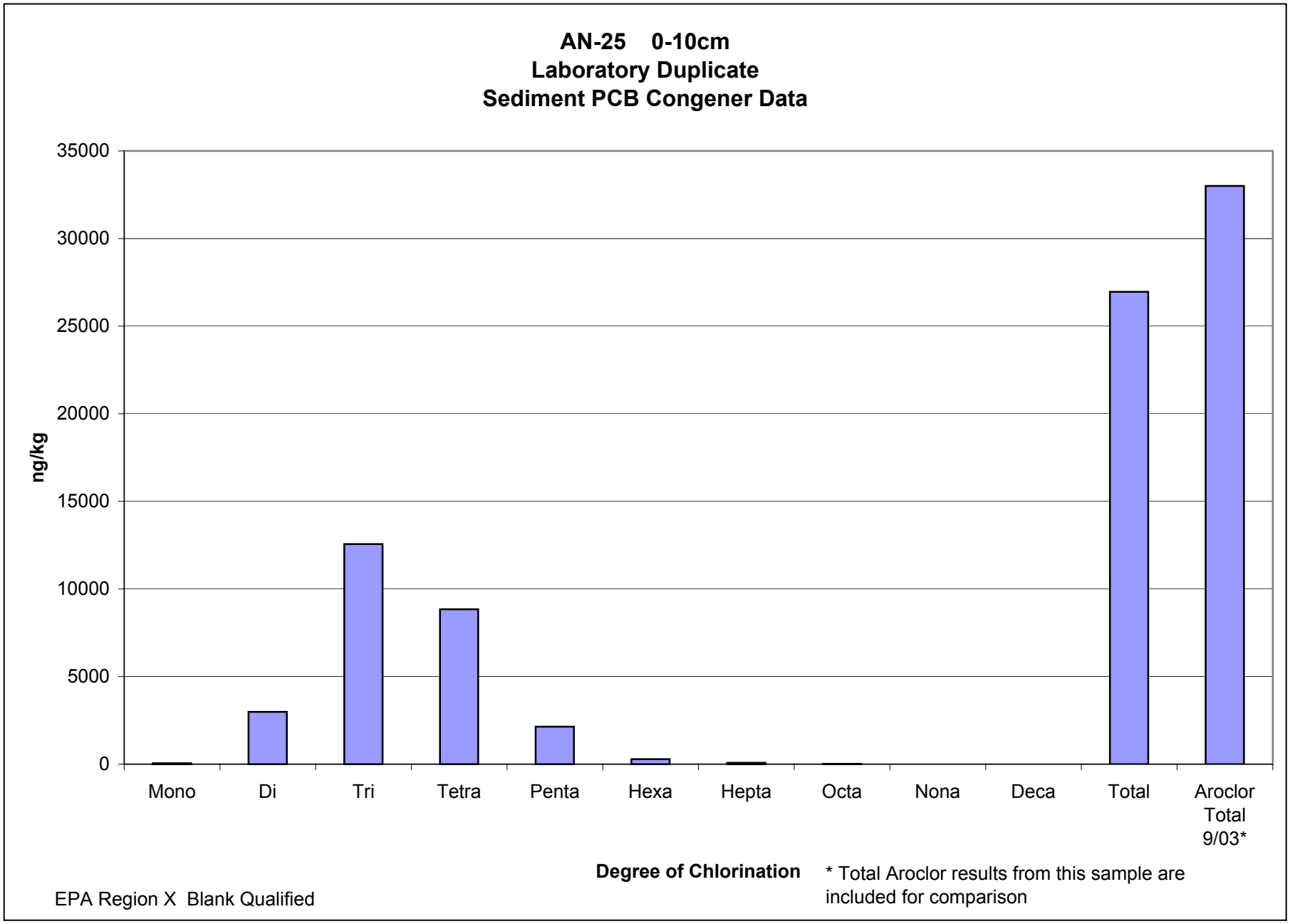
ANCHOR ENVIRONMENTAL, L.L.C.

Figure F-3
Sediment PCB Congener Data
AN-15 0-10cm



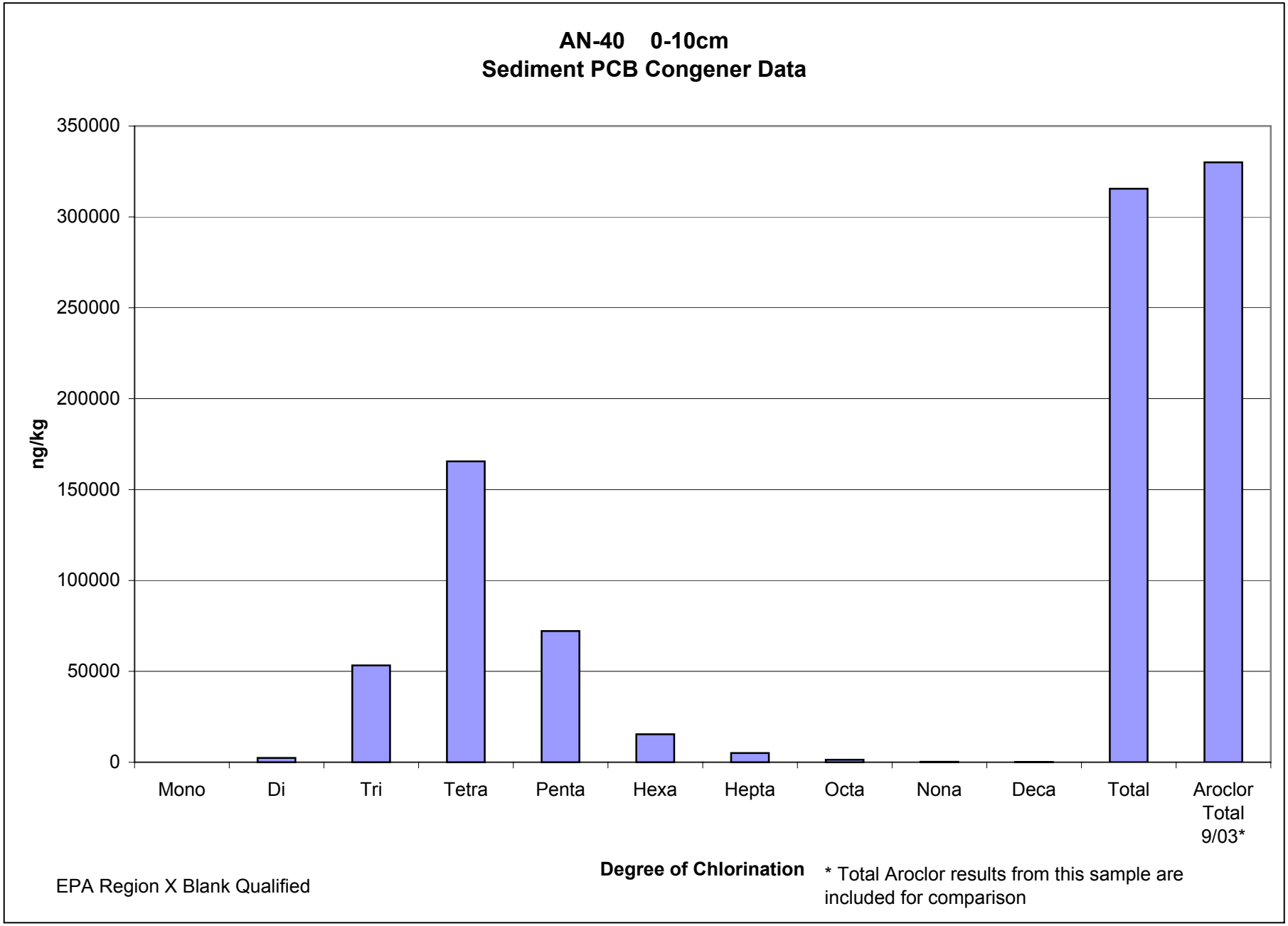
ANCHOR ENVIRONMENTAL, L.L.C.

Figure F-4
Sediment PCB Congener Data
AN-25 0-10cm



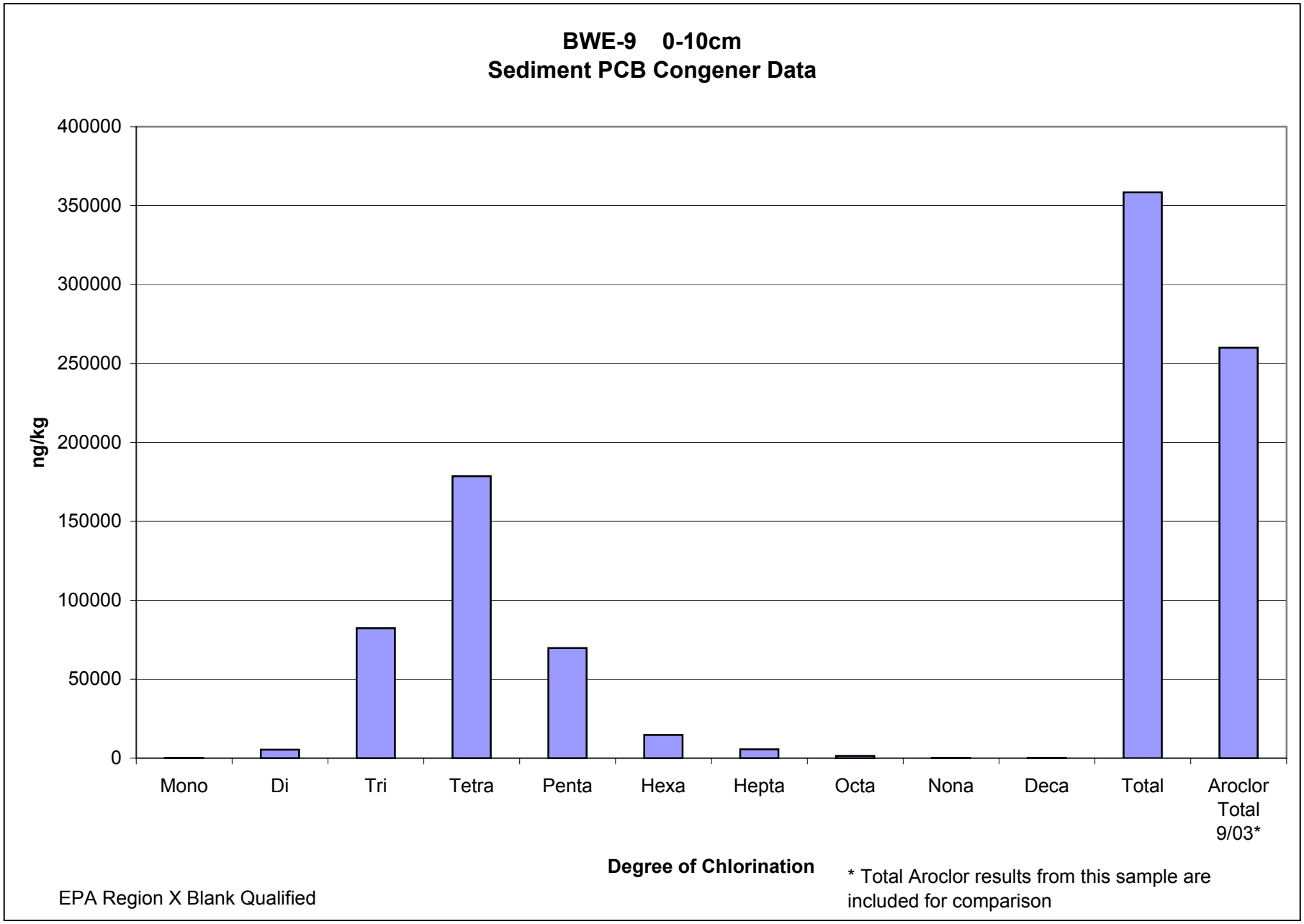
ANCHOR ENVIRONMENTAL, L.L.C.

Figure F-5
Laboratory Duplicate Sediment PCB Congener Data
AN-25 0-10cm



ANCHOR ENVIRONMENTAL, L.L.C.

Figure F-6
Sediment PCB Congener Data
AN-40 0-10cm



ANCHOR ENVIRONMENTAL, L.L.C.

Figure F-7
Sediment PCB Congener Data
BWE-9 0-10cm

Table F-1
Sediment PCB Congener Data - EPA Region X Blank Qualified

Area	**S. Bend**	**S. Bend**	**Donkey Island**	**E of old deposit**	**Donkey Island**	**Old Deposit**	**E of old deposit**
Station ID	**10**	**11**	**15**	**25**	**40**	**BWE-9**	**25**
Depth Interval (cm)	**0-10**	**40-51.5**	**0-10**	**0-10**	**0-10**	**0-10**	**0-10**
Sample ID	**AN-10SD-A**	**AN-11SD-E**	**AN-15SD-A**	**AN-25SD-A**	**AN-40SD-A**	**BWE-9-SD-A**	**AN-25SD-A (DUPLICATE)**
Axys ID	**L6309-1R**	**L6309-2R**	**L6309-3R**	**L6309-4R (A)**	**L6309-5R**	**L6309-6R**	**WG11519-103**
Workgroup	**WG11519-WG11194**	**WG11519-WG11194**	**WG11519-WG11194**	**WG11519-WG11194**	**WG11519-WG11194**	**WG11519-WG11194**	**WG11519-WG11194**
UNITS	**pg/g (dry)**	**pg/g (dry)**	**pg/g (dry)**	**pg/g (dry)**	**pg/g (dry)**	**pg/g (dry)**	**pg/g (dry)**
Total Monochloro Biphenyls	0.7	16.2	0.0	43.8	16.5	69.6	50.2
Total Dichloro Biphenyls	23.6	307.8	195.4	2824.6	2388.9	5420.8	2984.7
Total Trichloro Biphenyls	151.3	3446.7	2122.1	11457.5	53252.4	82345.1	12559.5
Total Tetrachloro Biphenyls	290.6	9489.4	6072.9	8339.7	165491.8	178579.8	8838.8
Total Pentachloro Biphenyls	121.1	9195.2	3709.0	2050.9	72149.7	69773.0	2142.7
Total Hexachloro Biphenyls	36.5	9305.0	1186.4	274.1	15423.0	14768.6	287.8
Total Heptachloro Biphenyls	16.4	8144.9	467.4	75.9	5043.1	5611.5	77.1
Total Octachloro Biphenyls	4.2	4179.7	135.8	16.2	1401.0	1489.6	17.2
Total Nonachloro Biphenyls	1.6	1318.0	44.4	0.0	237.8	252.7	2.4
Decachloro Biphenyl	U	608.0	23.6	0.9	98.9	148.0	U
TOTAL PCBs	**646.1**	**46010.9**	**13957.0**	**25083.6**	**315503.1**	**358458.7**	**26960.4**
Total PCBs from Sept. 2003	**28000**	**40000**	**20000**	**33000**	**330000**	**260000**	**33000**
Total PCBs in ug/kg	**0.6**	**46.0**	**14.0**	**25.1**	**315.5**	**358.5**	**27.0**
Total PCBs from Sept. 2003 in ug/kg	**28**	**40**	**20**	**33**	**330**	**260**	**33**

Notes:

pg/g = ng/kg = 0.001 ug/kg

u = not detected

pg/g = picograms / kilogram

ng/kg = nanograms / kilogram

ug/kg = micrograms / kilogram

dry = dry weight basis

Table F-2
Raw and Blank Qualified Data - Sediment PCB Congeners

Data Qualification		Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified
CLIENT ID		AN-10SD-A	AN-10SD-A	AN-11SD-E	AN-11SD-E	AN-15SD-A	AN-15SD-A	AN-25SD-A	AN-25SD-A	AN-40SD-A	AN-40SD-A	BWE-9-SD-A	BWE-9-SD-A
Axys ID		L6309-1R	L6309-1R	L6309-2R	L6309-2R	L6309-3R	L6309-3R	L6309-4R (A)	L6309-4R (A)	L6309-5R	L6309-5R	L6309-6R	L6309-6R
WORKGROUP		WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194
UNITS		pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)
Congener Number (IUPAC)	PCB Identification												
PCB-1	2 - MoCB	K0.323	U	7.62	7.62	1.38	UB	32	32	8.6	8.6	25.7	25.7
PCB-2	3 - MoCB	0.282	0.282	3.59	3.59	K1.76	U	2.22	2.22	7.88	7.88	25	25
PCB-3	4 - MoCB	0.459	0.459	4.97	4.97	K3.38	U	9.53	9.53	K13.5	U	18.9	18.9
PCB-4	2,2' - DiCB	0.674	UB	80.6	80.6	8.97	8.97	865	865	199	199	388	388
PCB-5	2,3 - DiCB	<0.247	U	0.673	0.673	K0.223	U	14.5	14.5	6.08	6.08	19.1	19.1
PCB-6	2,3' - DiCB	0.836	UB	18.6	18.6	8.32	8.32	216	216	152	152	454	454
PCB-7	2,4 - DiCB	K0.276	U	3.63	3.63	1.25	1.25	37.5	37.5	18.4	18.4	60.4	60.4
PCB-8	2,4' - DiCB	3.38	UB	76.7	76.7	29	29	1450	1450	711	711	2340	2340
PCB-9	2,5 - DiCB	K0.300	U	4.06	4.06	1.98	1.98	63.5	63.5	34.1	34.1	95.1	95.1
PCB-10	2,6 - DiCB	<0.235	U	10	10	0.584	0.584	34.5	34.5	10.5	10.5	16	16
PCB-11	3,3' - DiCB	5.06	5.06	K9.71	U	52.1	52.1	1.6	1.6	109	109	348	348
PCB-12/13	3,4 - DiCB	0.919	0.919	9.55	9.55	8.4	8.4	15	15	98.8	98.8	169	169
PCB-14	3,5 - DiCB	<0.241	U	K0.387	U	<0.115	U	<0.929	U	K0.531	U	1.24	1.24
PCB-15	4,4' - DiCB	17.6	17.6	104	104	84.8	84.8	127	127	1050	1050	1530	1530
PCB-16	2,2',3 - TriCB	2.08	UB	163	163	45.8	45.8	1090	1090	1740	1740	2490	2490
PCB-17	2,2',4 - TriCB	3.64	UB	207	207	74.6	74.6	1150	1150	2530	2530	3810	3810
PCB-18/30	2,2',5 - TriCB	8.27	UB	601	601	163	163	3140	3140	5760	5760	7180	7180
PCB-19	2,2',6 - TriCB	0.492	UB	269	269	9.22	9.22	522	522	354	354	396	396
PCB-20/28	2,3,3' - TriCB	53.2	53.2	764	764	691	691	1520	1520	15200	15200	25300	25300
PCB-21/33	2,3,4 - TriCB	9.02	9.02	162	162	120	120	844	844	3860	3860	7020	7020
PCB-22	2,3,4' - TriCB	10.4	10.4	135	135	140	140	493	493	3370	3370	5580	5580
PCB-23	2,3,5 - TriCB	<0.0608	U	K0.352	U	0.23	0.23	1.99	1.99	5.52	5.52	10.2	10.2
PCB-24	2,3,6 - TriCB	K0.132	U	6.22	6.22	2.27	2.27	30.8	30.8	54	54	69.2	69.2
PCB-25	2,3',4 - TriCB	1.9	1.9	43.7	43.7	23.8	23.8	75.8	75.8	647	647	1050	1050
PCB-26/29	2,3',5 - TriCB	5.13	5.13	79.5	79.5	64.3	64.3	196	196	1720	1720	2470	2470
PCB-27	2,3',6 - TriCB	0.722	0.722	106	106	12.8	12.8	167	167	400	400	483	483
PCB-31	2,4',5 - TriCB	43.4	43.4	562	562	548	548	1350	1350	13200	13200	20000	20000
PCB-32	2,4',6 - TriCB	2.78	2.78	187	187	37.6	37.6	752	752	1390	1390	2220	2220
PCB-34	2',3,5 - TriCB	0.181	0.181	6.61	6.61	2.31	2.31	12.6	12.6	81.4	81.4	154	154
PCB-35	3,3',4 - TriCB	0.574	0.574	4.73	4.73	9.17	9.17	<1.14	U	133	133	175	175
PCB-36	3,3',5 - TriCB	<0.0626	U	<0.250	U	<0.175	U	<1.04	U	<2.99	U	<1.83	U
PCB-37	3,4,4' - TriCB	24	24	141	141	178	178	111	111	2790	2790	3920	3920
PCB-38	3,4,5 - TriCB	<0.0607	U	2.14	2.14	K0.439	U	1.26	1.26	17.5	17.5	17.7	17.7
PCB-39	3,4',5 - TriCB	<0.0594	U	6.84	6.84	<0.166	U	<0.985	U	<2.84	U	<1.73	U
PCB-40/41/71	2,2',3,3' - TeCB	9.14	9.14	599	599	226	226	657	657	9450	9450	9180	9180
PCB-42	2,2',3,4' - TeCB	5.21	5.21	319	319	125	125	288	288	4850	4850	5000	5000
PCB-43	2,2',3,5 - TeCB	K0.754	U	48	48	19.7	19.7	62.6	62.6	756	756	704	704
PCB-44/47/65	2,2',3,5' - TeCB	19.5	19.5	1160	1160	489	489	1130	1130	19200	19200	18400	18400
PCB-45/51	2,2',3,6 - TeCB	2.67	UB	452	452	58.7	58.7	372	372	2720	2720	2470	2470
PCB-46	2,2',3,6' - TeCB	0.627	0.627	181	181	15.2	15.2	123	123	835	835	793	793
PCB-48	2,2',4,5 - TeCB	3.83	3.83	173	173	97.7	97.7	305	305	3950	3950	3730	3730
PCB-49/69	2,2',4,5' - TeCB	18.1	18.1	760	760	421	421	767	767	12500	12500	13100	13100
PCB-50/53	2,2',4,6 - TeCB	2.13	2.13	485	485	46.1	46.1	302	302	2210	2210	1830	1830
PCB-52	2,2',5,5' - TeCB	27.6	27.6	1620	1620	581	581	1360	1360	19100	19100	18300	18300
PCB-54	2,2',6,6' - TeCB	<0.0349	U	8.03	8.03	0.624	0.624	5.96	5.96	25.6	25.6	18.8	18.8
PCB-55	2,3,3',4 - TeCB	<0.317	U	6.34	6.34	16.5	16.5	13.4	13.4	282	282	248	248
PCB-56	2,3,3',4' - TeCB	18.2	18.2	344	344	406	406	337	337	9720	9720	12800	12800
PCB-57	2,3,3',5 - TeCB	<0.321	U	2.33	2.33	2.7	2.7	3.6	3.6	87	87	93.4	93.4
PCB-58	2,3,3',5' - TeCB	<0.308	U	7.51	7.51	2.04	2.04	1.64	1.64	61.3	61.3	90.5	90.5
PCB-59/62/75	2,3,3',6 - TeCB	2.72	2.72	153	153	55.9	55.9	107	107	1600	1600	1640	1640
PCB-60	2,3,4,4' - TeCB	10.6	10.6	92.4	92.4	231	231	148	148	4120	4120	3950	3950
PCB-61/70/74/76	2,3,4,5 - TeCB	80	80	1420	1420	1530	1530	1100	1100	38000	38000	43600	43600
PCB-63	2,3,4',5 - TeCB	1.94	1.94	31.5	31.5	39.1	39.1	32.5	32.5	808	808	953	953
PCB-64	2,3,4',6 - TeCB	16.5	16.5	477	477	382	382	520	520	8970	8970	9330	9330
PCB-66	2,3',4,4' - TeCB	65	65	1010	1010	1180	1180	652	652	23600	23600	29200	29200

Table F-2
Raw and Blank Qualified Data - Sediment PCB Congeners

Data Qualification		Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified
CLIENT ID		AN-10SD-A	AN-10SD-A	AN-11SD-E	AN-11SD-E	AN-15SD-A	AN-15SD-A	AN-25SD-A	AN-25SD-A	AN-40SD-A	AN-40SD-A	BWE-9-SD-A	BWE-9-SD-A
Axys ID		L6309-1R	L6309-1R	L6309-2R	L6309-2R	L6309-3R	L6309-3R	L6309-4R (A)	L6309-4R (A)	L6309-5R	L6309-5R	L6309-6R	L6309-6R
WORKGROUP		WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194
UNITS		pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)
Congener Number (IUPAC)	PCB Identification												
PCB-67	2,3',4,5 - TeCB	0.85	0.85	16.6	16.6	17.6	17.6	18.6	18.6	474	474	540	540
PCB-68	2,3',4,5' - TeCB	<0.300	U	12.3	12.3	4.39	4.39	2.22	UB	76.6	76.6	124	124
PCB-72	2,3',5,5' - TeCB	<0.304	U	15.3	15.3	7.41	7.41	4.15	4.15	153	153	184	184
PCB-73	2,3',5',6 - TeCB	<0.0421	U	<0.0422	U	<0.0195	U	<0.0389	U	<0.0571	U	<0.130	U
PCB-77	3,3',4,4' - TeCB	8.69	8.69	77.5	77.5	107	107	27.8	27.8	1680	1680	2070	2070
PCB-78	3,3',4,5 - TeCB	<0.334	U	<0.878	U	<0.387	U	<0.240	U	<5.84	U	<3.31	U
PCB-79	3,3',4,5' - TeCB	<0.275	U	18.6	18.6	6.87	6.87	K4.82	U	209	209	167	167
PCB-80	3,3',5,5' - TeCB	<0.308	U	<0.808	U	<0.356	U	<0.221	U	<5.37	U	<3.05	U
PCB-81	3,4,4',5 - TeCB	K0.355	U	K1.92	U	4.35	4.35	1.45	1.45	54.3	54.3	64.1	64.1
PCB-82	2,2',3,3',4 - PeCB	2.16	2.16	167	167	72.8	72.8	62.9	62.9	2080	2080	1870	1870
PCB-83/99	2,2',3,3',5 - PeCB	12.9	12.9	857	857	416	416	214	214	7350	7350	7890	7890
PCB-84	2,2',3,3',6 - PeCB	2.44	2.44	565	565	79	79	110	110	2970	2970	2820	2820
PCB-85/116/117	2,2',3,4,4' - PeCB	7.01	7.01	274	274	242	242	83.5	83.5	3510	3510	3000	3000
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	10.6	10.6	752	752	334	334	239	239	7870	7870	7480	7480
PCB-88/91	2,2',3,4,6 - PeCB	2.9	2.9	360	360	99.1	99.1	67.8	67.8	2340	2340	2020	2020
PCB-89	2,2',3,4,6' - PeCB	K0.322	U	42.4	42.4	7.97	7.97	12.6	12.6	320	320	322	322
PCB-90/101/113	2,2',3,4',5 - PeCB	13.4	13.4	1220	1220	425	425	262	262	9140	9140	8170	8170
PCB-92	2,2',3,5,5' - PeCB	2.35	2.35	292	292	80.4	80.4	51.6	51.6	1890	1890	2390	2390
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	8.09	8.09	1790	1790	254	254	280	280	6920	6920	6250	6250
PCB-94	2,2',3,5,6' - PeCB	<0.0873	U	15.2	15.2	3.09	3.09	3.92	3.92	93.4	93.4	81.2	81.2
PCB-96	2,2',3,6,6' - PeCB	K0.151	U	25.9	25.9	4.25	4.25	7.73	7.73	152	152	134	134
PCB-103	2,2',4,5',6 - PeCB	0.091	UB	26	26	3.3	3.3	2.73	2.73	77.8	77.8	75.8	75.8
PCB-104	2,2',4,6,6' - PeCB	K0.029	U	0.251	0.251	K0.117	U	0.107	0.107	2.06	2.06	1.56	1.56
PCB-105	2,3,3',4,4' - PeCB	12.6	12.6	248	248	359	359	110	110	5320	5320	4440	4440
PCB-106	2,3,3',4,5 - PeCB	<0.156	U	<0.397	U	<0.215	U	<0.593	U	18.6	18.6	10.3	10.3
PCB-107/124	2,3,3',4',5 - PeCB	0.931	0.931	30.4	30.4	30.1	30.1	8.04	8.04	419	419	345	345
PCB-109	2,3,3',4,6 - PeCB	1.77	1.77	61.4	61.4	55.8	55.8	18.3	18.3	839	839	855	855
PCB-110/115	2,3,3',4',6 - PeCB	21	21	1700	1700	600	600	305	305	10300	10300	10700	10700
PCB-111	2,3,3',5,5' - PeCB	<0.0644	U	K1.03	U	K0.345	U	<0.181	U	K4.36	U	K3.54	U
PCB-112	2,3,3',5,6 - PeCB	<0.0636	U	<0.423	U	<0.165	U	<0.179	U	<2.31	U	<1.76	U
PCB-114	2,3,4,4',5 - PeCB	0.811	0.811	12.3	12.3	21.8	21.8	8.42	8.42	330	330	278	278
PCB-118	2,3',4,4',5 - PeCB	21.3	21.3	718	718	581	581	193	193	9590	9590	10200	10200
PCB-120	2,3',4,5,5' - PeCB	<0.0640	U	7.35	7.35	K1.47	U	K0.292	U	23.1	23.1	25	25
PCB-121	2,3',4,5',6 - PeCB	<0.0645	U	<0.429	U	<0.167	U	<0.181	U	<2.34	U	<1.78	U
PCB-122	2',3,3',4,5 - PeCB	K0.456	U	11.2	11.2	14.4	14.4	4.92	4.92	230	230	167	167
PCB-123	2',3,4,4',5 - PeCB	0.82	0.82	14.5	14.5	21.9	21.9	5.37	5.37	308	308	205	205
PCB-126	3,3',4,4',5 - PeCB	K0.226	U	2.78	2.78	3.54	3.54	<0.708	U	48.9	48.9	36.6	36.6
PCB-127	3,3',4,5,5' - PeCB	<0.157	U	2.47	2.47	0.596	0.596	<0.597	U	7.84	7.84	6.49	6.49
PCB-128/166	2,2',3,3',4,4' - HxCB	1.77	1.77	222	222	57.3	57.3	10.9	10.9	664	664	597	597
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	10.3	10.3	1690	1690	310	310	62.9	62.9	3840	3840	3460	3460
PCB-130	2,2',3,3',4,5' - HxCB	K0.753	U	136	136	22.5	22.5	4.97	4.97	305	305	250	250
PCB-131	2,2',3,3',4,6 - HxCB	<0.0726	U	21.2	21.2	2.8	2.8	K1.17	U	53.8	53.8	44.6	44.6
PCB-132	2,2',3,3',4,6' - HxCB	2.09	2.09	700	700	73.9	73.9	23.7	23.7	1240	1240	1190	1190
PCB-133	2,2',3,3',5,5' - HxCB	0.142	0.142	31.9	31.9	3.95	3.95	K0.842	U	56.2	56.2	52.1	52.1
PCB-134/143	2,2',3,3',5,6 - HxCB	K0.079	U	109	109	11.3	11.3	4.42	4.42	202	202	189	189
PCB-135/151/154	2,2',3,3',5,6' - HxCB	2.25	2.25	986	986	70.5	70.5	19.5	19.5	933	933	1010	1010
PCB-136	2,2',3,3',6,6' - HxCB	0.554	0.554	321	321	19.9	19.9	7.61	7.61	344	344	421	421
PCB-137	2,2',3,4,4',5 - HxCB	0.58	0.58	57.1	57.1	16.3	16.3	4.17	4.17	222	222	196	196
PCB-139/140	2,2',3,4,4',6 - HxCB	0.199	0.199	27.5	27.5	5.86	5.86	1.4	1.4	81.2	81.2	71.6	71.6
PCB-141	2,2',3,4,5,5' - HxCB	1.33	1.33	348	348	42.2	42.2	9.58	9.58	543	543	513	513
PCB-142	2,2',3,4,5,6 - HxCB	<0.0721	U	<0.479	U	<0.952	U	<0.280	U	<0.623	U	<0.401	U
PCB-144	2,2',3,4,5',6 - HxCB	0.258	0.258	117	117	8.79	8.79	2.74	2.74	134	134	132	132
PCB-145	2,2',3,4,6,6' - HxCB	<0.0075	U	0.753	0.753	0.215	0.215	0.087	0.087	2.89	2.89	2.43	2.43
PCB-146	2,2',3,4',5,5' - HxCB	1.42	1.42	364	364	45.5	45.5	8.38	8.38	559	559	523	523
PCB-147/149	2,2',3,4',5,6 - HxCB	5.38	5.38	1990	1990	166	166	49.3	49.3	2320	2320	2340	2340

Table F-2
Raw and Blank Qualified Data - Sediment PCB Congeners

Data Qualification		Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified
CLIENT ID		AN-10SD-A	AN-10SD-A	AN-11SD-E	AN-11SD-E	AN-15SD-A	AN-15SD-A	AN-25SD-A	AN-25SD-A	AN-40SD-A	AN-40SD-A	BWE-9-SD-A	BWE-9-SD-A
Axys ID		L6309-1R	L6309-1R	L6309-2R	L6309-2R	L6309-3R	L6309-3R	L6309-4R (A)	L6309-4R (A)	L6309-5R	L6309-5R	L6309-6R	L6309-6R
WORKGROUP		WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194
UNITS		pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)
Congener Number (IUPAC)	PCB Identification												
PCB-148	2,2',3,4',5,6' - HxCB	K0.016	U	2.7	2.7	K0.339	U	K0.040	U	5.19	5.19	6.02	6.02
PCB-150	2,2',3,4',6,6' - HxCB	<0.0070	U	1.45	1.45	0.371	0.371	K0.080	U	3.93	3.93	3.67	3.67
PCB-152	2,2',3,5,6,6' - HxCB	K0.014	U	1.38	1.38	0.506	0.506	0.138	0.138	5.97	5.97	4.83	4.83
PCB-153/168	2,2',4,4',5,5' - HxCB	7.74	7.74	1640	1640	219	219	42	42	2590	2590	2550	2550
PCB-155	2,2',4,4',6,6' - HxCB	0.017	UB	0.056	UB	K0.054	U	K0.045	U	K0.091	U	K0.151	U
PCB-156/157	2,3,3',4,4',5 - HxCB	K1.60	U	116	116	42.4	42.4	8.74	8.74	498	498	476	476
PCB-158	2,3,3',4,4',6 - HxCB	0.917	0.917	163	163	27.6	27.6	6.28	6.28	364	364	314	314
PCB-159	2,3,3',4,5,5' - HxCB	0.131	0.131	42	42	2.72	2.72	0.47	0.47	29.7	29.7	34	34
PCB-161	2,3,3',4,5',6 - HxCB	<0.0501	U	<0.333	U	<0.661	U	<0.194	U	<0.433	U	<0.278	U
PCB-162	2,3,3',4',5,5' - HxCB	K0.123	U	K4.89	U	1.3	1.3	<0.205	U	15.9	15.9	12.3	12.3
PCB-164	2,3,3',4',5',6 - HxCB	0.822	0.822	157	157	21.4	21.4	4.22	4.22	251	251	230	230
PCB-165	2,3,3',5,5',6 - HxCB	<0.0560	U	0.449	0.449	<0.739	U	<0.217	U	1.18	1.18	1.04	1.04
PCB-167	2,3',4,4',5,5' - HxCB	0.619	0.619	59.6	59.6	14.1	14.1	2.64	2.64	158	158	145	145
PCB-169	3,3',4,4',5,5' - HxCB	<0.0628	U	<4.65	U	<0.765	U	<0.227	U	<5.61	U	<4.81	U
PCB-170	2,2',3,3',4,4',5 - HpCB	2.28	2.28	642	642	55.2	55.2	9.08	9.08	612	612	650	650
PCB-171/173	2,2',3,3',4,4',6 - HpCB	0.559	0.559	222	222	15.6	15.6	2.77	2.77	175	175	190	190
PCB-172	2,2',3,3',4,5,5' - HpCB	0.421	0.421	151	151	10.6	10.6	1.69	1.69	125	125	116	116
PCB-174	2,2',3,3',4,5,6' - HpCB	2.08	2.08	1010	1010	57.7	57.7	9.96	9.96	631	631	769	769
PCB-175	2,2',3,3',4,5',6 - HpCB	0.118	0.118	38.4	38.4	2.18	2.18	K0.412	U	24	24	25.4	25.4
PCB-176	2,2',3,3',4,6,6' - HpCB	K0.219	U	122	122	5.89	5.89	1.11	1.11	70.1	70.1	78.9	78.9
PCB-177	2,2',3,3',4',5,6 - HpCB	K1.35	U	486	486	34.7	34.7	5.53	5.53	363	363	406	406
PCB-178	2,2',3,3',5,5',6 - HpCB	0.571	0.571	226	226	13.5	13.5	1.86	1.86	136	136	149	149
PCB-179	2,2',3,3',5,6,6' - HpCB	0.877	0.877	492	492	21.7	21.7	3.91	3.91	245	245	286	286
PCB-180/193	2,2',3,4,4',5,5' - HpCB	4.59	4.59	2120	2120	121	121	18.6	18.6	1290	1290	1430	1430
PCB-181	2,2',3,4,4,'5,6 - HpCB	K0.021	U	3.22	3.22	0.66	0.66	K0.113	U	5.64	5.64	5.55	5.55
PCB-182	2,2',3,4,4',5,6' - HpCB	K0.053	U	8.09	8.09	0.774	0.774	K0.068	U	7.62	7.62	6.28	6.28
PCB-183/185	2,2',3,4,4',5',6 - HpCB	1.35	1.35	759	759	34.9	34.9	6.32	6.32	399	399	441	441
PCB-184	2,2',3,4,4',6,6' - HpCB	0.018	0.018	K0.371	U	K0.074	U	K0.016	U	0.436	0.436	0.731	0.731
PCB-186	2,2',3,4,5,6,6' - HpCB	0.015	0.015	<0.0246	U	<0.0041	U	<0.0064	U	<0.0761	U	<0.0740	U
PCB-187	2,2',3,4',5,5',6 - HpCB	2.89	2.89	1680	1680	75.8	75.8	13.1	13.1	779	779	871	871
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.019	U	K0.807	U	K0.173	U	K0.013	U	1.02	1.02	0.921	0.921
PCB-189	2,3,3',4,4',5,5' - HpCB	K0.101	U	20.7	20.7	2.43	2.43	K0.354	U	26.1	26.1	24.2	24.2
PCB-190	2,3,3',4,4',5,6 - HpCB	0.68	0.68	138	138	12.9	12.9	2	2	130	130	137	137
PCB-191	2,3,3',4,4',5',6 - HpCB	K0.091	U	26.5	26.5	1.86	1.86	K0.301	U	23.2	23.2	24.5	24.5
PCB-192	2,3,3',4,5,5',6 - HpCB	K0.018	U	<0.0294	U	<0.0049	U	K0.021	U	<0.0910	U	<0.0885	U
PCB-194	2,2',3,3',4,4',5,5' - OcCB	1.25	1.25	722	722	29.5	29.5	4.26	4.26	326	326	333	333
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K0.405	U	194	194	11.7	11.7	K1.48	U	118	118	123	123
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K0.571	U	446	446	12.9	12.9	2.21	2.21	152	152	165	165
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	0.247	0.247	169	169	5.4	5.4	0.78	0.78	54.8	54.8	59.5	59.5
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	1.51	1.51	1330	1330	38.9	38.9	4.84	4.84	389	389	413	413
PCB-201	2,2',3,3',4,5',6,6' - OcCB	K0.204	U	162	162	3.9	3.9	K0.568	U	39.7	39.7	46.6	46.6
PCB-202	2,2',3,3',5,5',6,6' - OcCB	K0.363	U	330	330	9.67	9.67	1.05	1.05	78.3	78.3	90.8	90.8
PCB-203	2,2',3,4,4',5,5',6 - OcCB	0.983	0.983	799	799	22	22	3.01	3.01	226	226	241	241
PCB-204	2,2',3,4,4',5,6,6' - OcCB	0.162	0.162	K0.294	U	K0.055	U	0.056	0.056	0.108	0.108	K0.207	U
PCB-205	2,3,3',4,4',5,5',6 - OcCB	0.075	0.075	27.7	27.7	1.86	1.86	K0.281	U	17.1	17.1	17.7	17.7
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	1.56	1.56	921	921	29.7	29.7	K2.32	U	169	169	178	178
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	0.41	UB	108	108	3.17	3.17	K0.372	U	18.6	18.6	21	21
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	0.689	UB	289	289	11.5	11.5	K0.730	U	50.2	50.2	53.7	53.7
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	K0.575	U	608	608	23.6	23.6	0.912	0.912	98.9	98.9	148	148
% Solid:		91.9		58.2		68		49.6		57.1		24.1	
Total Monochloro Biphenyls		0.741	0.7	16.2	16.2	1.38	0.0	43.7	43.8	16.5	16.5	69.6	69.6
Total Dichloro Biphenyls		28.5	23.6	308	307.8	195	195.4	2820	2824.6	2390	2388.9	5410	5420.8
Total Trichloro Biphenyls		166	151.3	3450	3446.7	2120	2122.1	11500	11457.5	53300	53252.4	82300	82345.1
Total Tetrachloro Biphenyls		293	290.6	9480	9489.4	6080	6072.9	8340	8339.7	165000	165491.8	179000	178579.8
Total Pentachloro Biphenyls		121	121.1	9190	9195.2	3710	3709.0	2050	2050.9	72200	72149.7	69800	69773.0

Table F-2
Raw and Blank Qualified Data - Sediment PCB Congeners

Data Qualification		Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified	Laboratory Result	EPA qualified
CLIENT ID		AN-10SD-A	AN-10SD-A	AN-11SD-E	AN-11SD-E	AN-15SD-A	AN-15SD-A	AN-25SD-A	AN-25SD-A	AN-40SD-A	AN-40SD-A	BWE-9-SD-A	BWE-9-SD-A
Axys ID		L6309-1R	L6309-1R	L6309-2R	L6309-2R	L6309-3R	L6309-3R	L6309-4R (A)	L6309-4R (A)	L6309-5R	L6309-5R	L6309-6R	L6309-6R
WORKGROUP		WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194
UNITS		pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)	pg/g (dry)
Congener Number (IUPAC)	PCB Identification												
Total Hexachloro Biphenyls		36.5	36.5	9300	9305.0	1190	1186.4	274	274.1	15400	15423.0	14800	14768.6
Total Heptachloro Biphenyls		16.4	16.4	8150	8144.9	467	467.4	76	75.9	5040	5043.1	5620	5611.5
Total Octachloro Biphenyls		4.22	4.2	4180	4179.7	136	135.8	16.2	16.2	1400	1401.0	1490	1489.6
Total Nonachloro Biphenyls		2.66	1.6	1320	1318.0	44.3	44.4	<0.296	0.0	238	237.8	253	252.7
Decachloro Biphenyl		<0.0035	U	608	608.0	23.6	23.6	0.912	0.9	98.9	98.9	148	148.0
TOTAL PCBs		669	646.1	46000	46010.9	14000	13957.0	25100	25083.6	316000	315503.1	358000	358458.7

IUPAC = International Union of Pure and Applied Chemistry

K = not detected; poor mass spectral match

< or U = not detected; result is less than detection limit

UB = not detected; result is < 5 times the result in an associated blank

RPD = relative percent difference

Table F-2
Raw and Blank Qualified Data - Sediment PCB Congeners

Data Qualification		Laboratory Result	EPA qualified						
CLIENT ID		AN-25SD-A (DUPLICATE)	AN-25SD-A (DUPLICATE)	LAB BLANK		SPIKED MATRIX	AN-25SD-A	AN-25SD-A (DUPLICATE)	
Axys ID		WG11519-103	WG11519-103	WG11519-101 / WG11194-101		WG11519-102 / WG11194	L6309-4R (A)	WG11519-103	
WORKGROUP		WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	5x Blank	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	RPD
UNITS		pg/g (dry)	pg/g (dry)	pg/g (dry)		% REC	pg/g (dry)	pg/g (dry)	
Congener Number (IUPAC)	PCB Identification								
PCB-1	2 - MoCB	36.2	36.2	0.873	5.238	86.2	32	36.2	12.3%
PCB-2	3 - MoCB	14	14	K1.09	0		2.22	14	145.3%
PCB-3	4 - MoCB	K20.8	U	K1.70	0	86	9.53	K20.8	
PCB-4	2,2' - DiCB	901	901	1.26	7.56	97.1	865	901	4.1%
PCB-5	2,3 - DiCB	25.9	25.9	<0.108	0		14.5	25.9	56.4%
PCB-6	2,3' - DiCB	225	225	0.259	1.554		216	225	4.1%
PCB-7	2,4 - DiCB	48.3	48.3	K0.454	0		37.5	48.3	25.2%
PCB-8	2,4' - DiCB	1490	1490	1.64	9.84		1450	1490	2.7%
PCB-9	2,5 - DiCB	87.2	87.2	0.192	1.152		63.5	87.2	31.5%
PCB-10	2,6 - DiCB	31.7	31.7	<0.104	0		34.5	31.7	8.5%
PCB-11	3,3' - DiCB	K17.4	U	K2.11	0		1.6	K17.4	
PCB-12/13	3,4 - DiCB	30.6	30.6	K0.209	0		15	30.6	68.4%
PCB-14	3,5 - DiCB	2.98	2.98	<0.108	0		<0.929	2.98	
PCB-15	4,4' - DiCB	142	142	0.445	2.67	91.8	127	142	11.2%
PCB-16	2,2',3 - TriCB	1190	1190	0.664	3.984		1090	1190	8.8%
PCB-17	2,2',4 - TriCB	1230	1230	0.937	5.622		1150	1230	6.7%
PCB-18/30	2,2',5 - TriCB	3300	3300	2.2	13.2		3140	3300	5.0%
PCB-19	2,2',6 - TriCB	541	541	0.518	3.108	109	522	541	3.6%
PCB-20/28	2,3,3' - TriCB	1710	1710	1.22	7.32		1520	1710	11.8%
PCB-21/33	2,3,4 - TriCB	967	967	0.505	3.03		844	967	13.6%
PCB-22	2,3,4' - TriCB	571	571	0.311	1.866		493	571	14.7%
PCB-23	2,3,5 - TriCB	3.24	3.24	<0.0208	0		1.99	3.24	47.8%
PCB-24	2,3,6 - TriCB	30.9	30.9	K0.024	0		30.8	30.9	0.3%
PCB-25	2,3',4 - TriCB	88	88	K0.117	0		75.8	88	14.9%
PCB-26/29	2,3',5 - TriCB	227	227	K0.181	0		196	227	14.7%
PCB-27	2,3',6 - TriCB	175	175	K0.148	0		167	175	4.7%
PCB-31	2,4',5 - TriCB	1560	1560	1.02	6.12		1350	1560	14.4%
PCB-32	2,4',6 - TriCB	833	833	K0.509	0		752	833	10.2%
PCB-34	2',3,5 - TriCB	14.1	14.1	K0.025	0		12.6	14.1	11.2%
PCB-35	3,3',4 - TriCB	1.29	1.29	K0.104	0		<1.14	1.29	
PCB-36	3,3',5 - TriCB	<0.826	U	<0.0212	0		<1.04	<0.826	
PCB-37	3,4,4' - TriCB	118	118	K0.115	0	89.5	111	118	6.1%
PCB-38	3,4,5 - TriCB	K0.880	U	<0.0210	0		1.26	K0.880	
PCB-39	3,4',5 - TriCB	<0.784	U	<0.0210	0		<0.985	<0.784	
PCB-40/41/71	2,2',3,3' - TeCB	688	688	0.322	1.932		657	688	4.6%
PCB-42	2,2',3,4' - TeCB	300	300	0.146	0.876		288	300	4.1%
PCB-43	2,2',3,5 - TeCB	63.8	63.8	K0.061	0		62.6	63.8	1.9%
PCB-44/47/65	2,2',3,5' - TeCB	1190	1190	3.24	19.44		1130	1190	5.2%
PCB-45/51	2,2',3,6 - TeCB	387	387	0.98	5.88		372	387	4.0%
PCB-46	2,2',3,6' - TeCB	128	128	K0.065	0		123	128	4.0%
PCB-48	2,2',4,5 - TeCB	322	322	0.13	0.78		305	322	5.4%
PCB-49/69	2,2',4,5' - TeCB	811	811	0.612	3.672		767	811	5.6%
PCB-50/53	2,2',4,6 - TeCB	321	321	0.207	1.242		302	321	6.1%
PCB-52	2,2',5,5' - TeCB	1450	1450	1.09	6.54		1360	1450	6.4%
PCB-54	2,2',6,6' - TeCB	6.13	6.13	0.019	0.114	105	5.96	6.13	2.8%
PCB-55	2,3,3',4 - TeCB	14.5	14.5	<0.0588	0		13.4	14.5	7.9%
PCB-56	2,3,3',4' - TeCB	353	353	K0.171	0		337	353	4.6%
PCB-57	2,3,3',5 - TeCB	3.53	3.53	<0.0564	0		3.6	3.53	2.0%
PCB-58	2,3,3',5' - TeCB	2.11	2.11	<0.0558	0		1.64	2.11	25.1%
PCB-59/62/75	2,3,3',6 - TeCB	112	112	0.093	0.558		107	112	4.6%
PCB-60	2,3,4,4' - TeCB	158	158	K0.107	0		148	158	6.5%
PCB-61/70/74/76	2,3,4,5 - TeCB	1190	1190	0.71	4.26		1100	1190	7.9%
PCB-63	2,3,4',5 - TeCB	34.4	34.4	<0.0544	0		32.5	34.4	5.7%
PCB-64	2,3,4',6 - TeCB	554	554	0.275	1.65		520	554	6.3%
PCB-66	2,3',4,4' - TeCB	685	685	K0.382	0		652	685	4.9%

Table F-2
Raw and Blank Qualified Data - Sediment PCB Congeners

Data Qualification		Laboratory Result	EPA qualified						
CLIENT ID		AN-25SD-A (DUPLICATE)	AN-25SD-A (DUPLICATE)	LAB BLANK		SPIKED MATRIX	AN-25SD-A	AN-25SD-A (DUPLICATE)	
Axys ID		WG11519-103	WG11519-103	WG11519-101 / WG11194-101		WG11519-102 / WG11194	L6309-4R (A)	WG11519-103	
WORKGROUP		WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	5x Blank	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	RPD
UNITS		pg/g (dry)	pg/g (dry)	pg/g (dry)		% REC	pg/g (dry)	pg/g (dry)	
Congener Number (IUPAC)	PCB Identification								
PCB-67	2,3',4,5 - TeCB	19.4	19.4	<0.0489	0		18.6	19.4	4.2%
PCB-68	2,3',4,5' - TeCB	5.59	5.59	0.665	3.99		2.22	5.59	86.3%
PCB-72	2,3',5,5' - TeCB	4.48	4.48	<0.0536	0		4.15	4.48	7.6%
PCB-73	2,3',5',6 - TeCB	<0.0396	U	<0.0158	0		<0.0389	<0.0396	
PCB-77	3,3',4,4' - TeCB	29.4	29.4	<0.0575	0	92.3	27.8	29.4	5.6%
PCB-78	3,3',4,5 - TeCB	<0.285	U	<0.0606	0		<0.240	<0.285	
PCB-79	3,3',4,5' - TeCB	5.12	5.12	<0.0493	0		K4.82	5.12	
PCB-80	3,3',5,5' - TeCB	<0.263	U	<0.0562	0		<0.221	<0.263	
PCB-81	3,4,4',5 - TeCB	1.32	1.32	<0.0564	0	93.3	1.45	1.32	9.4%
PCB-82	2,2',3,3',4 - PeCB	65.4	65.4	K0.037	0		62.9	65.4	3.9%
PCB-83/99	2,2',3,3',5 - PeCB	222	222	0.348	2.088		214	222	3.7%
PCB-84	2,2',3,3',6 - PeCB	120	120	K0.120	0		110	120	8.7%
PCB-85/116/117	2,2',3,4,4' - PeCB	89.2	89.2	0.097	0.582		83.5	89.2	6.6%
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	249	249	0.312	1.872		239	249	4.1%
PCB-88/91	2,2',3,4,6 - PeCB	73.6	73.6	0.091	0.546		67.8	73.6	8.2%
PCB-89	2,2',3,4,6' - PeCB	13.3	13.3	<0.0200	0		12.6	13.3	5.4%
PCB-90/101/113	2,2',3,4',5 - PeCB	265	265	0.458	2.748		262	265	1.1%
PCB-92	2,2',3,5,5' - PeCB	52.8	52.8	0.09	0.54		51.6	52.8	2.3%
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	290	290	0.473	2.838		280	290	3.5%
PCB-94	2,2',3,5,6' - PeCB	4.05	4.05	<0.0191	0		3.92	4.05	3.3%
PCB-96	2,2',3,6,6' - PeCB	7.47	7.47	K0.008	0		7.73	7.47	3.4%
PCB-103	2,2',4,5',6 - PeCB	2.74	2.74	0.018	0.108		2.73	2.74	0.4%
PCB-104	2,2',4,6,6' - PeCB	0.104	0.104	K0.014	0	110	0.107	0.104	2.8%
PCB-105	2,3,3',4,4' - PeCB	119	119	K0.149	0	96.2	110	119	7.9%
PCB-106	2,3,3',4,5 - PeCB	<0.611	U	<0.0121	0		<0.593	<0.611	
PCB-107/124	2,3,3',4',5 - PeCB	8.03	8.03	K0.014	0		8.04	8.03	0.1%
PCB-109	2,3,3',4,6 - PeCB	18.5	18.5	0.056	0.336		18.3	18.5	1.1%
PCB-110/115	2,3,3',4',6 - PeCB	321	321	0.391	2.346		305	321	5.1%
PCB-111	2,3,3',5,5' - PeCB	<0.224	U	<0.0143	0		<0.181	<0.224	
PCB-112	2,3,3',5,6 - PeCB	<0.221	U	<0.0141	0		<0.179	<0.221	
PCB-114	2,3,4,4',5 - PeCB	9.09	9.09	K0.037	0	97.3	8.42	9.09	7.7%
PCB-118	2,3',4,4',5 - PeCB	202	202	0.319	1.914	98.4	193	202	4.6%
PCB-120	2,3',4,5,5' - PeCB	K0.455	U	<0.0141	0		K0.292	K0.455	
PCB-121	2,3',4,5',6 - PeCB	<0.225	U	<0.0140	0		<0.181	<0.225	
PCB-122	2',3,3',4,5 - PeCB	5.03	5.03	<0.0143	0		4.92	5.03	2.2%
PCB-123	2',3,4,4',5 - PeCB	5.42	5.42	K0.024	0	96.8	5.37	5.42	0.9%
PCB-126	3,3',4,4',5 - PeCB	<0.699	U	K0.023	0	96.5	<0.708	<0.699	
PCB-127	3,3',4,5,5' - PeCB	<0.615	U	<0.0135	0		<0.597	<0.615	
PCB-128/166	2,2',3,3',4,4' - HxCB	12.1	12.1	K0.058	0		10.9	12.1	10.4%
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	63.2	63.2	0.523	3.138		62.9	63.2	0.5%
PCB-130	2,2',3,3',4,5' - HxCB	4.78	4.78	K0.040	0		4.97	4.78	3.9%
PCB-131	2,2',3,3',4,6 - HxCB	K1.30	U	<0.0254	0		K1.17	K1.30	
PCB-132	2,2',3,3',4,6' - HxCB	25.3	25.3	0.11	0.66		23.7	25.3	6.5%
PCB-133	2,2',3,3',5,5' - HxCB	0.835	0.835	<0.0248	0		K0.842	0.835	
PCB-134/143	2,2',3,3',5,6 - HxCB	4.58	4.58	<0.0251	0		4.42	4.58	3.6%
PCB-135/151/154	2,2',3,3',5,6' - HxCB	20.1	20.1	K0.163	0		19.5	20.1	3.0%
PCB-136	2,2',3,3',6,6' - HxCB	8.14	8.14	0.054	0.324		7.61	8.14	6.7%
PCB-137	2,2',3,4,4',5 - HxCB	4.5	4.5	<0.0239	0		4.17	4.5	7.6%
PCB-139/140	2,2',3,4,4',6 - HxCB	1.63	1.63	<0.0227	0		1.4	1.63	15.2%
PCB-141	2,2',3,4,5,5' - HxCB	11.1	11.1	K0.058	0		9.58	11.1	14.7%
PCB-142	2,2',3,4,5,6 - HxCB	<0.171	U	<0.0253	0		<0.280	<0.171	
PCB-144	2,2',3,4,5',6 - HxCB	2.96	2.96	K0.022	0		2.74	2.96	7.7%
PCB-145	2,2',3,4,6,6' - HxCB	K0.106	U	K0.007	0		0.087	K0.106	
PCB-146	2,2',3,4',5,5' - HxCB	9.03	9.03	0.109	0.654		8.38	9.03	7.5%
PCB-147/149	2,2',3,4',5,6 - HxCB	50.2	50.2	0.352	2.112		49.3	50.2	1.8%

Table F-2
Raw and Blank Qualified Data - Sediment PCB Congeners

Data Qualification		Laboratory Result	EPA qualified						
CLIENT ID		AN-25SD-A (DUPLICATE)	AN-25SD-A (DUPLICATE)	LAB BLANK		SPIKED MATRIX	AN-25SD-A	AN-25SD-A (DUPLICATE)	
Axys ID		WG11519-103	WG11519-103	WG11519-101 / WG11194-101		WG11519-102 / WG11194	L6309-4R (A)	WG11519-103	
WORKGROUP		WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	5x Blank	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	RPD
UNITS		pg/g (dry)	pg/g (dry)	pg/g (dry)		% REC	pg/g (dry)	pg/g (dry)	
Congener Number (IUPAC)	PCB Identification								
PCB-148	2,2',3,4',5,6' - HxCB	K0.102	U	K0.008	0		K0.040	K0.102	
PCB-150	2,2',3,4',6,6' - HxCB	0.09	0.09	K0.006	0		K0.080	0.09	
PCB-152	2,2',3,5,6,6' - HxCB	K0.137	U	K0.005	0		0.138	K0.137	
PCB-153/168	2,2',4,4',5,5' - HxCB	45.9	45.9	0.495	2.97		42	45.9	8.9%
PCB-155	2,2',4,4',6,6' - HxCB	K0.035	U	0.021	0.126	107	K0.045	K0.035	
PCB-156/157	2,3,3',4,4',5 - HxCB	9.03	9.03	K0.069	0	104	8.74	9.03	3.3%
PCB-158	2,3,3',4,4',6 - HxCB	6.82	6.82	K0.061	0		6.28	6.82	8.2%
PCB-159	2,3,3',4,5,5' - HxCB	0.573	0.573	<0.0188	0		0.47	0.573	19.8%
PCB-161	2,3,3',4,5',6 - HxCB	<0.119	U	<0.0180	0		<0.194	<0.119	
PCB-162	2,3,3',4',5,5' - HxCB	K0.200	U	<0.0195	0		<0.205	K0.200	
PCB-164	2,3,3',4',5',6 - HxCB	4.36	4.36	K0.035	0		4.22	4.36	3.3%
PCB-165	2,3,3',5,5',6 - HxCB	<0.133	U	<0.0199	0		<0.217	<0.133	
PCB-167	2,3',4,4',5,5' - HxCB	2.54	2.54	0.047	0.282	105	2.64	2.54	3.9%
PCB-169	3,3',4,4',5,5' - HxCB	<0.173	U	K0.023	0	103	<0.227	<0.173	
PCB-170	2,2',3,3',4,4',5 - HpCB	9.26	9.26	K0.129	0		9.08	9.26	2.0%
PCB-171/173	2,2',3,3',4,4',6 - HpCB	2.79	2.79	K0.032	0		2.77	2.79	0.7%
PCB-172	2,2',3,3',4,5,5' - HpCB	1.58	1.58	K0.032	0		1.69	1.58	6.7%
PCB-174	2,2',3,3',4,5,6' - HpCB	10.2	10.2	0.073	0.438		9.96	10.2	2.4%
PCB-175	2,2',3,3',4,5',6 - HpCB	0.413	0.413	<0.0038	0		K0.412	0.413	
PCB-176	2,2',3,3',4,6,6' - HpCB	1.12	1.12	0.016	0.096		1.11	1.12	0.9%
PCB-177	2,2',3,3',4',5,6 - HpCB	5.42	5.42	K0.047	0		5.53	5.42	2.0%
PCB-178	2,2',3,3',5,5',6 - HpCB	1.82	1.82	0.032	0.192		1.86	1.82	2.2%
PCB-179	2,2',3,3',5,6,6' - HpCB	4.08	4.08	0.05	0.3		3.91	4.08	4.3%
PCB-180/193	2,2',3,4,4',5,5' - HpCB	18.8	18.8	0.295	1.77		18.6	18.8	1.1%
PCB-181	2,2',3,4,4,'5,6 - HpCB	K0.131	U	<0.0039	0		K0.113	K0.131	
PCB-182	2,2',3,4,4',5,6' - HpCB	K0.100	U	K0.015	0		K0.068	K0.100	
PCB-183/185	2,2',3,4,4',5',6 - HpCB	6.11	6.11	K0.087	0		6.32	6.11	3.4%
PCB-184	2,2',3,4,4',6,6' - HpCB	K0.011	U	K0.008	0		K0.016	K0.011	
PCB-186	2,2',3,4,5,6,6' - HpCB	K0.019	U	<0.0028	0		<0.0064	K0.019	
PCB-187	2,2',3,4',5,5',6 - HpCB	13.4	13.4	K0.149	0		13.1	13.4	2.3%
PCB-188	2,2',3,4',5,6,6' - HpCB	0.025	0.025	K0.006	0	107	K0.013	0.025	
PCB-189	2,3,3',4,4',5,5' - HpCB	0.323	0.323	0.024	0.144	95.4	K0.354	0.323	
PCB-190	2,3,3',4,4',5,6 - HpCB	1.77	1.77	K0.020	0		2	1.77	12.2%
PCB-191	2,3,3',4,4',5',6 - HpCB	K0.326	U	K0.007	0		K0.301	K0.326	
PCB-192	2,3,3',4,5,5',6 - HpCB	K0.014	U	K0.006	0		K0.021	K0.014	
PCB-194	2,2',3,3',4,4',5,5' - OcCB	4.25	4.25	K0.048	0		4.26	4.25	0.2%
PCB-195	2,2',3,3',4,4',5,6 - OcCB	1.63	1.63	K0.018	0		K1.48	1.63	
PCB-196	2,2',3,3',4,4',5,6' - OcCB	2.01	2.01	0.02	0.12		2.21	2.01	9.5%
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K0.830	U	K0.004	0		0.78	K0.830	
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	4.62	4.62	K0.064	0		4.84	4.62	4.7%
PCB-201	2,2',3,3',4,5',6,6' - OcCB	0.572	0.572	<0.0039	0		K0.568	0.572	
PCB-202	2,2',3,3',5,5',6,6' - OcCB	0.908	0.908	K0.024	0	105	1.05	0.908	14.5%
PCB-203	2,2',3,4,4',5,5',6 - OcCB	2.88	2.88	K0.039	0		3.01	2.88	4.4%
PCB-204	2,2',3,4,4',5,6,6' - OcCB	<0.0088	U	K0.026	0		0.056	<0.0088	
PCB-205	2,3,3',4,4',5,5',6 - OcCB	0.291	0.291	K0.022	0	100	K0.281	0.291	
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	2.44	2.44	K0.405	0	104	K2.32	2.44	
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	K0.374	U	0.097	0.582		K0.372	K0.374	
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	0.612	UB	0.141	0.846	103	K0.730	0.612	
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB		U	K0.107	0	100	0.912		
% Solid:							49.6		
Total Monochloro Biphenyls		50.2	50.2	0.873	5.2		43.7	50.2	
Total Dichloro Biphenyls		2980	2984.7	3.79	22.8		2820	2980	
Total Trichloro Biphenyls		12600	12559.5	7.37	44.3		11500	12600	
Total Tetrachloro Biphenyls		8840	8838.8	8.49	50.9		8340	8840	
Total Pentachloro Biphenyls		2140	2142.7	2.65	15.9		2050	2140	

Table F-2
Raw and Blank Qualified Data - Sediment PCB Congeners

Data Qualification		Laboratory Result	EPA qualified						
CLIENT ID		AN-25SD-A (DUPLICATE)	AN-25SD-A (DUPLICATE)	LAB BLANK		SPIKED MATRIX	AN-25SD-A	AN-25SD-A (DUPLICATE)	
Axys ID		WG11519-103	WG11519-103	WG11519-101 / WG11194-101		WG11519-102 / WG11194	L6309-4R (A)	WG11519-103	
WORKGROUP		WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	5x Blank	WG11519-WG11194	WG11519-WG11194	WG11519-WG11194	RPD
UNITS		pg/g (dry)	pg/g (dry)	pg/g (dry)		% REC	pg/g (dry)	pg/g (dry)	
Congener Number (IUPAC)	PCB Identification								
Total Hexachloro Biphenyls		288	287.8	1.71	10.3		274	288	
Total Heptachloro Biphenyls		77.1	77.1	0.49	2.9		76	77.1	
Total Octachloro Biphenyls		17.2	17.2	0.02	0.1		16.2	17.2	
Total Nonachloro Biphenyls		3.05	2.4	0.238	1.4		<0.296	3.05	
Decachloro Biphenyl			U	<0.0030	0.0		0.912		
TOTAL PCBs		27000	26960.4	25.6	153.9		25100	27000	

IUPAC = International Union of Pure and Applied Chemistry

K = not detected; poor mass spectral match

< or U = not detected; result is less than detection limit

UB = not detected; result is < 5 times the result in an associated blank

RPD = relative percent difference