

DRAFT FINAL

**FOCUSED REMEDIAL INVESTIGATION REPORT
APPENDICES**

UPRIVER DAM PCB SEDIMENTS SITE

Prepared for
Avista Development, Inc.
and
Kaiser Aluminum & Chemical Corporation

For Submittal to
Washington Department of Ecology

Prepared by
Anchor Environmental, L.L.C.
1423 Third Avenue, Suite 300
Seattle, Washington 98101

February 2005



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APPENDIX A

SEDIMENT CLASSIFICATION RESULTS

Quester Tangent Corporation

Acoustic Seabed Classification Survey

- **Spokane, Washington, USA**

Prepared For:
Blue Water Engineering

Contract Number: SC72-673A

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EXECUTIVE SUMMARY

Acoustic seabed classification data were collected on the Spokane River in Washington State using the QTC VIEW™ seabed classification system. The purpose of the survey was to use seabed classification technology to map sediments of special interest. The area of study was surveyed using the QTC VIEW™ connected to a normal-incidence, single-frequency echo sounder. These data were then post-processed using Quester Tangent's acoustic waveform processing toolkit QTC IMPACT™. An unsupervised catalogue was generated by analysing a representative subset of the population of echoes to determine logical groupings or echo classes. The data were classified with respect to the catalogue and plotted as colour points along the vessel track.

INTRODUCTION

Acoustic seabed classification is the organization of seabeds into discrete units based on characteristic acoustic responses generated by an echo sounder (Collins and McConnaughey, 1998). The echo signal shape is the profile, over time, of the acoustic energy redirected to the echo sounder transducer. This energy is influenced by features of the seabed and immediate subsurface.

The QTC VIEW™ seabed classification system was used to map the acoustic character of the Spokane River just to the east of the City of Spokane located in eastern Washington State. The purpose of the survey was to locate soft sediments in a fluvial environment.

This report consists of an introduction to acoustic seabed classification followed by a description of the survey operations, the survey area and the equipment used. Data processing techniques are presented including data description, data reduction, catalogue generation and classification.

THEORY OF ACOUSTIC SEABED CLASSIFICATION

The amplitude and shape of an acoustic signal reflected from the sea floor is determined by the sea bottom roughness, the contrast in acoustic impedance between water and sea floor, and perturbations caused by inhomogeneities in the substrate's volume. Remote seabed classification requires an acoustic data acquisition system, an algorithm set to analyze the data, an implementation method to determine the seabed type, and ground truth to relate the acoustic classification to seabed features.

The QTC VIEW™ seabed classification system typically uses the signal from a normal incidence, single-frequency echo sounder (Collins et al., 1996). The system is connected in parallel with the echo sounder transducer and digitally extracts the echo trace. Pre-processing involves identification of the sea floor in the echo trace and filtering to suppress noise.

Echo description is accomplished using several algorithms to extract 166 echo shape features, known as full feature vectors (FFVs), from each trace. Multivariate statistical analysis then identifies the best feature combinations to distinguish groups of echoes representing different seabeds. The feature combinations are reduced to three primary values, known as Q-values, which describe each echo.

Echo classification is accomplished using the three Q-values; it is assumed the acoustic response from like seabeds will be similar. When Q1, Q2 and Q3 are plotted in orthogonal Q-space, seabeds with similar acoustic responses will form clusters. An echo is classified using its position in Q-space with respect to the clusters generated from calibration data; the echo being classed the same as the closest cluster.

The echo classification in Q-space was done without prior knowledge of the sediment at the sites. Therefore, without a catalogue associating clusters to sediment type, unsupervised classification was used to statistically generate clusters from Q-values alone.

The final step was to use these results to generate a catalogue, and to reprocess the echoes from each area according to this catalogue.

Effect of Seabed Features on Signal Shape

The primary role of an echo sounder is to measure water depth. Details of the echo are usually ignored. Quester Tangent bottom classification is based on these details, which contain information about the bottom type. This necessitates considerations with the returning echo's shape when mapping the sea floor. For example, the echo from a smooth, simple seabed has a sharp rise and a peak followed by a short tail. The response from a rough, complicated seabed will be a peak followed by a slower decay in the signal represented by a longer tail (Figure 1).

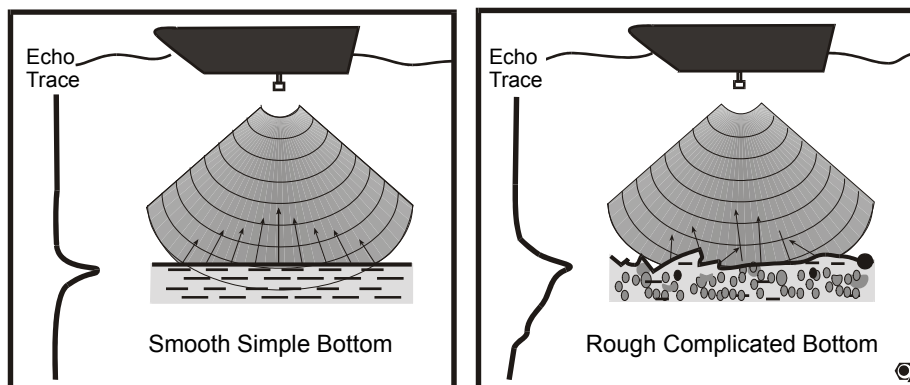


Figure 1: Comparison of echo traces from two representative seabeds.

While the shape of the returning waveform is related to the target (i.e., sea floor sediments), there are numerous characteristics accounting for the seabed's variability (Figure 2). These include organisms living on or in the seabed. Sedimentary bedforms, such as ripple marks, will influence the echo as will sediment properties including grain size and index properties, such as porosity and density. The signal's shape will be a composite of the above features averaged over the footprint.

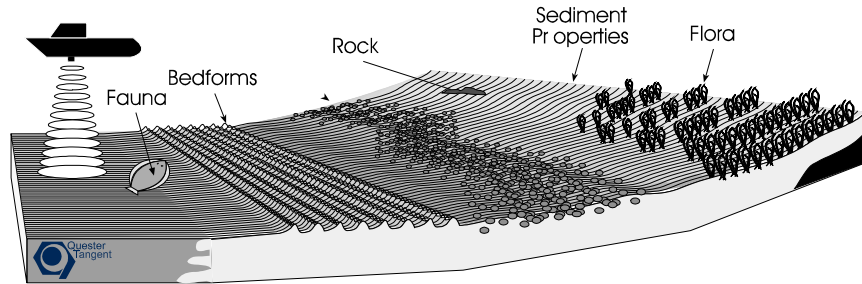


Figure 2: Features of a typical seabed influencing the acoustic response.

Other Factors Affecting Seabed Classification

Sounder parameters such as beam width and frequency influence classification results (Collins and Rhynas, 1998). Beam width is a measure of the size of the conical shaped path of the transmitted echo pulse. The size of the seabed acoustic footprint is a function of the beam width and the water depth. Frequency is a characteristic of the carrier signal used for insonification. Frequency governs the passage of the acoustic pulse through both water and sediments, and determines the resolution of the data returning to the sounder. High frequency signals (>100 kHz), typically provide greater resolution, suffer greater attenuation in the water column and penetrate centimetres into the seabed depending largely on substrate reflectivity. High frequency transducers have typically smaller beamwidths (10° - 20°). Low frequencies, 10 kHz to 100 kHz, resolve less than the higher frequencies, exhibit smaller signal losses in the water, and will penetrate tens of centimetres into the seabed. Low frequency transducers generally have larger beamwidths (15° - 30°).

SURVEY OPERATIONS

Description of Survey Area

The survey area is located in Eastern Washington State on the Spokane River. The survey was done simultaneously to a bathymetric survey. Water depths range from approximately one to 12 meters.

Equipment

This survey was performed using an aluminium jet boat (Figure 3). The vessel is fully equipped for hydrographic surveying including an echo sounder, a data management and navigation software package and, a two GPS's each providing positioning to QTC View Series V seabed classification system and its management software running on a PC.



Figure 3: Survey Vessel

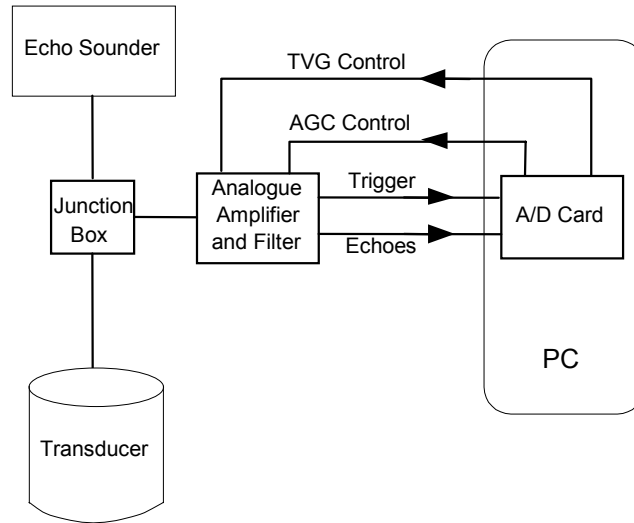


Figure 4: Interconnection diagram for the QTC VIEW™ system.

A Suzuki 2025 echo sounder @ 50 kHz was used for QTC VIEW™ data acquisition. Table 1 outlines the relevant parameters for seabed classification.

A QTC VIEW™ Sounder Interface Module (SIM) was connected in parallel to the echo sounder’s transducer (Figure 4). The SIM was also connected to the seabed classification system’s computer via a SCSI-like connection to an A/D card. During acquisition both the navigation and sonar data were simultaneously time-stamped and logged to the computer.

ECHO SOUNDER	
Name	SUZUKI 2025
Frequency	50 kHz
Depth Range	0 – 20 m
Ping Rate	7 per second
Pulse Duration	0.3 ms
Beam Width	42 degrees

NAVIGATION	
Update Rate	1 per second
Record Type	\$GPGGA

Table 1: Echo sounder and navigation parameters

Data Acquisition and Quality Control

The area was surveyed from May 21 to May 22, 2003 with the QTC VIEW™ acoustic seabed classification system. The system digitally acquired each raw echo at a rate of approximately seven per second and logged the waveform for post-processing. GPS navigation data were simultaneously logged as comma-delimited ASCII records which in this case were a NMEA GPGGA string. In post-processing, the sonar and navigation records were merged based on a high resolution time-stamp

tagged to each record at the time of logging. During acquisition, the sonar envelopes were observed in a real-time viewer to assess quality of the signal, system gain and the depth pick. By viewing the sonar data in real-time the operator can access the “look” of the echoes for both signal to noise issues and bottom picking problems. Both the full waveform (FWF) and envelope data were logged by the system. The sonar data were stored in a QTC proprietary format.

DATA PROCESSING

Sonar and navigation data processing was facilitated using QTC IMPACT™. The flow of data processing is displayed in Figure 5. The seabed classification process includes quality assurance by viewing the raw echo traces, extraction of feature set to be used as echo description, principal components analysis for data reduction and cluster analysis to identify acoustic regimes which were then assigned to an acoustic class.

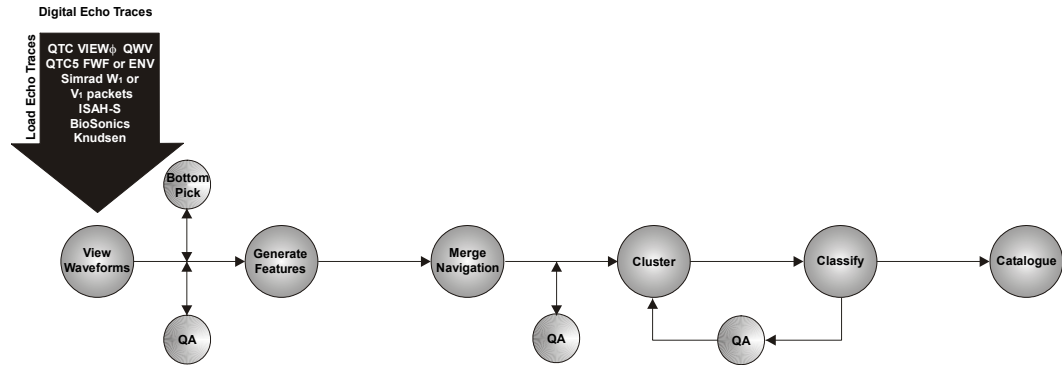


Figure 5: Data processing flow diagram

Data Quality Control

A critical step in processing the data prior to classification is quality assessment. The Full Waveform (FWF) data are the fundamental data transmitted by the echo sounder and therefore contain the most information. The raw waveforms are first loaded and viewed to determine if they are reasonable. Once the raw data have been viewed, bottom picking parameters may be altered and applied to the data for a first order of cleaning.



Figure 6: High quality FWF data. The bottom pick is indicated by the horizontal red line.

The group of waveforms in Figure 6 are representative of good quality full waveform data with a red line indicating the depth the waveform was recorded. Figure 7 shows the waveform DSN #2 from Figure 6 in a single trace viewer. In this view a user can see the details of the waveform and also the amplitude of the signal in samples. QTC VIEW™ Series V data is 12 bit data so the maximum signal amplitude is 2048 samples.

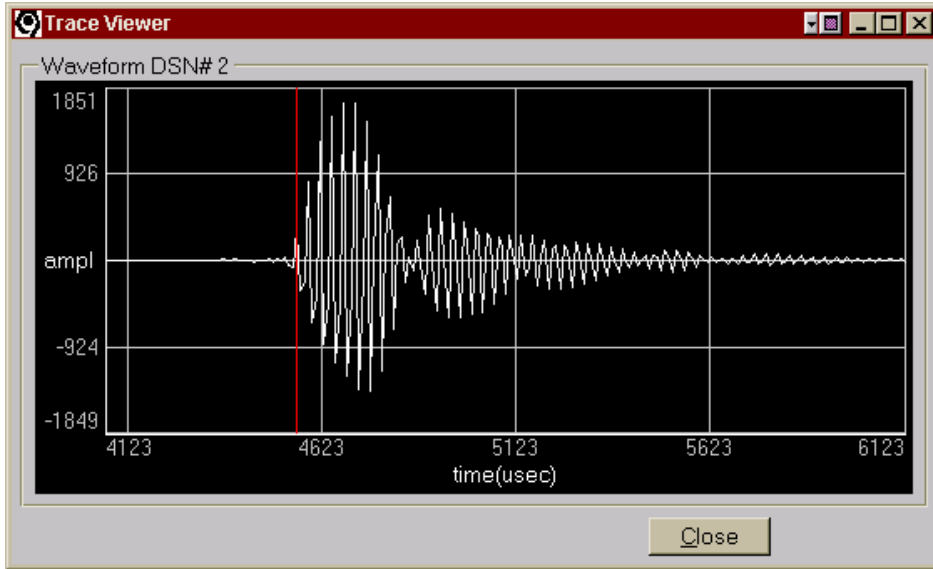


Figure 7: Single echo trace from Figure 6. The bottom pick is indicated by the vertical red line.



Figure 8: An area of abrupt change from high to low quality data.

Figures 8 and 9 are examples of poor quality FWF data. The waveforms in Figure 8 are of low signal amplitude and three of the echoes do not have a bottom pick associated with them. Those three echoes will not be carried into the next step of processing, envelope generation.

Figure 9 displays a single trace from Figure 8 showing the cause of the poor data was the signal was locked onto the transmit pulse. The initial pulse (on the far left) is the transmit pulse. The second pulse is not the return from the bottom but rather more of the same transmit pulse and transducer ring-down time. This data is of poor quality because the transmit pulse is visible and there is no bottom pick (normally indicated by a red line) associated with this trace.

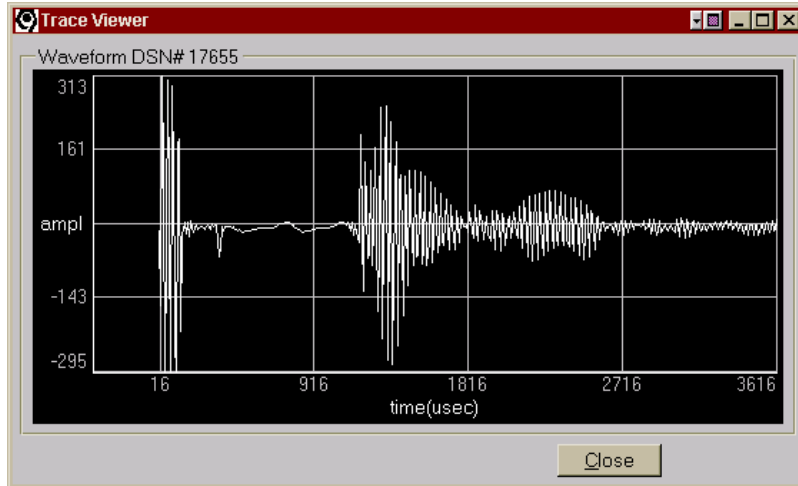


Figure 9: An individual echo trace from the low quality region of Figure 8.

Once all of the full waveform data has been loaded and evaluated QTC IMPACT™ will reduce the data to create a new envelope data set. Figures 10 and 11 show good quality envelope data.

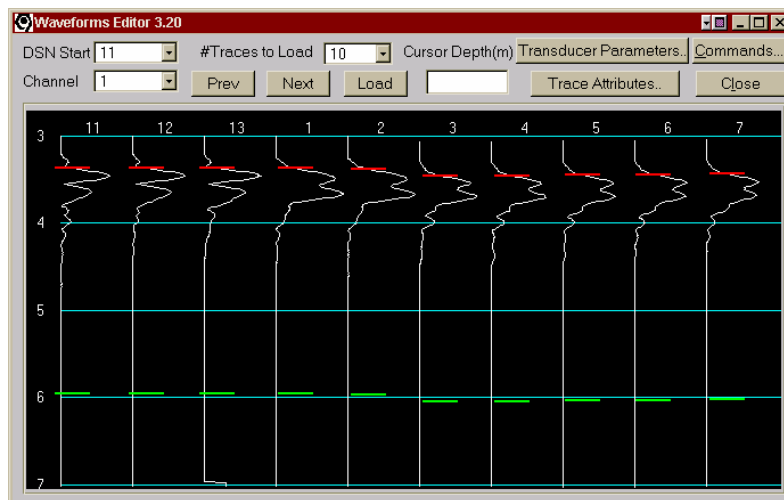


Figure 10: Waveform Editor showing high quality envelope data.

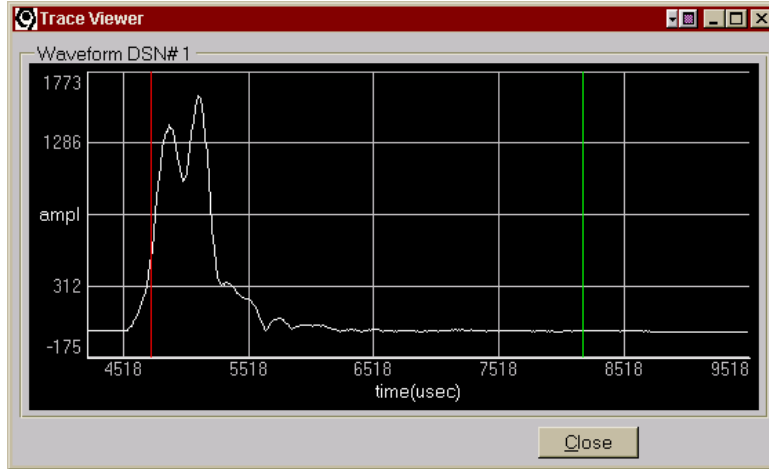


Figure 11: A detailed view of one echo trace from Figure 10.

Figure 12 is the trace attributes window which is available in the waveform editor for both FWF data and envelope data sets. This window gives a user valuable qualitative and quantitative information on each waveform. The time stamps can be used to determine how fast the system logged data or by using the signal strength as a percentage, the signal amplitude as a ratio of the maximum signal possible can be seen.

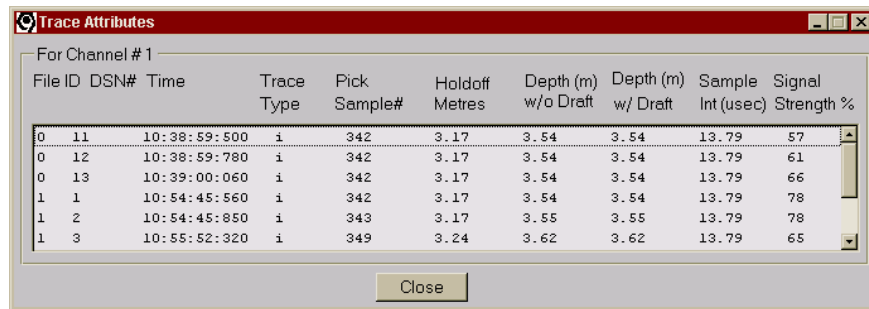


Figure 12: Trace attribute window for Figure 10.

Envelopes are evaluated and if necessary the same bottom picking options available for FWF can be run on the envelope data if it is determined that the data needs to be re-picked. The bottom pick is very important because it is the starting point for the next step in the process to reduce the data by fitting it into a smaller digitisation window. Table 2 illustrates the bottom picking parameters used on these data and Figure 13 illustrates a low amplitude signal that will not be used in the next processing step.

Bottom Picking Parameters	
Channels	All
Traces	All
Threshold (%)	35
Blanking (m)	0
Gate Above	5
Gate Below	5
Gate Average	100
Gate Minimum	0

Pick Mode	LOOK_ABOVE
Pick Operation	Pick All Traces

Table 2: Bottom pick parameters.

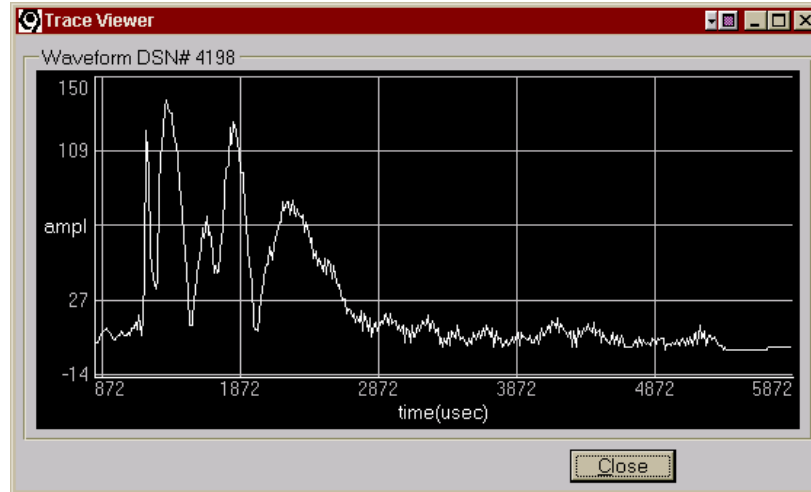


Figure 13: Echo trace with very low signal strength, less than 150 out of a possible 2048.

Waveform Data Reduction

This process reduced approximately 180,000 sonar envelopes to 36,000 records called Full Feature Vectors (FFV). Each FFV is comprised of 166 parameters that describe each individual echo and were derived from Quester Tangent's suite of algorithms. In preparation for the next level of data cleaning each FFV was merged with the closest position record.

The next step of quality assessment occurs after Full Feature Vectors (FFVs) are created. Using the FFV editor, the FFVs were viewed with respect to different parameters. These data were viewed by depth (Figure 14), stack span (Figure 15) and time span (Figure 16). The FFVs can be readily cleaned in either the FFV Editor or by utilising the FFV Filter. It is important to note that none of the FFVs are removed. The FFV records are flagged as rejected or filtered and then excluded from classification. Data displayed as green dots are the good quality data; data displayed as yellow or red have been flagged and will not carry on any further in the classification process. The parameters used for FFV filtering are outlined in Table 3. The resulting file was used to define a reference set for making a catalogue of seabed classes across the survey site.

FFV FILTER PARAMETERS	
Depth	Excluded depths less than 0.90 meters
Stack Span	Excluded stack spans greater than 0.50 meters
Time Span	Excluded time spans greater than 1000 ms

Table 3: Listing of FFV filter parameters.

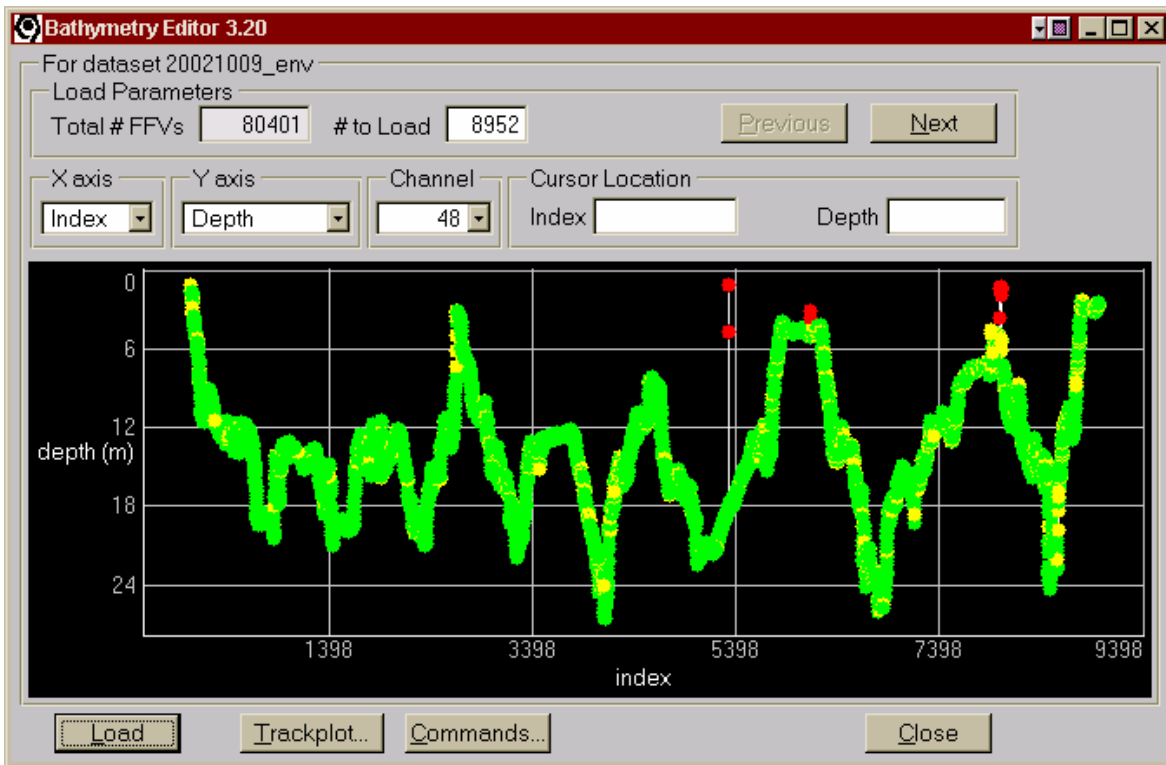


Figure 14: Depth view in FFV Editor

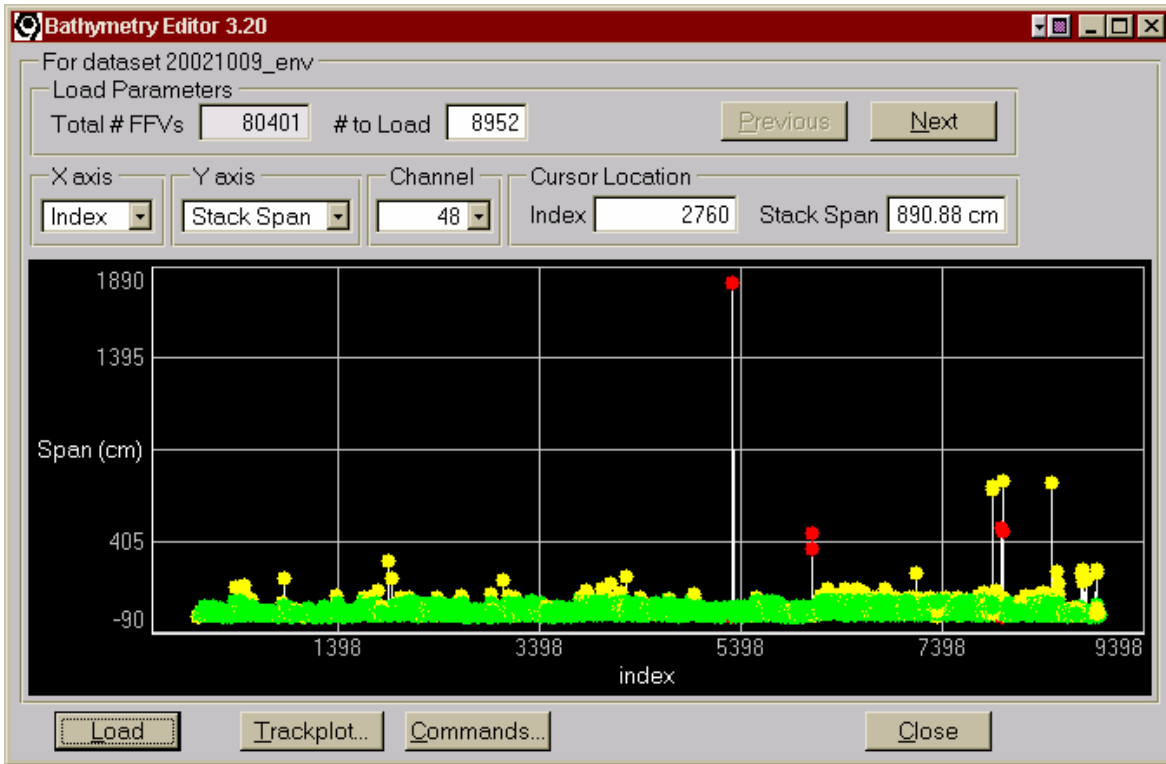


Figure 15: Stack span view in FFV Editor

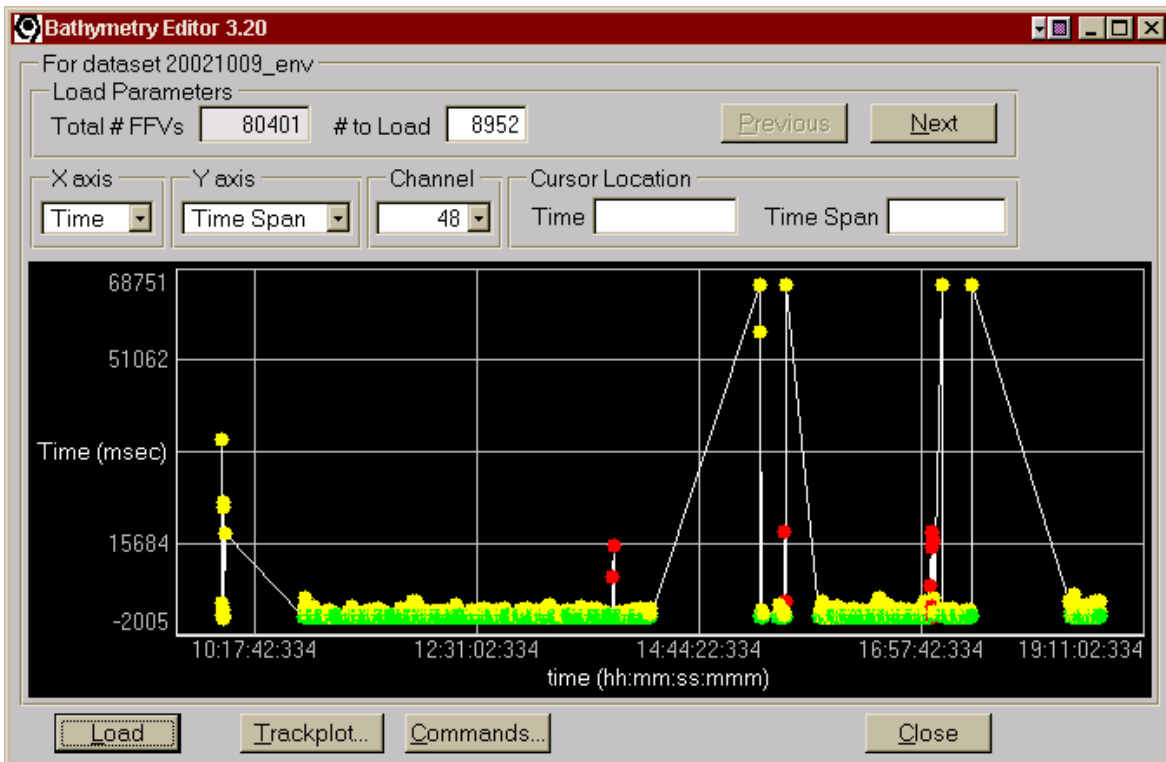


Figure 16: Time span view in FFV Editor.

Reduced Feature Data and Catalogue Generation

Each FFV record from the reference set was reduced to three Q-values using a multivariate statistical technique. The Q-values were then submitted to a proprietary cluster tool to identify logical populations of echoes. Seven populations of echoes were identified in the data. The data were displayed in Q-space as coloured points, each colour representing an acoustic class (Figure 17). Wire-mesh ellipsoids representing a surface one standard deviation from the mean of each cluster were also shown to indicate class covariance.

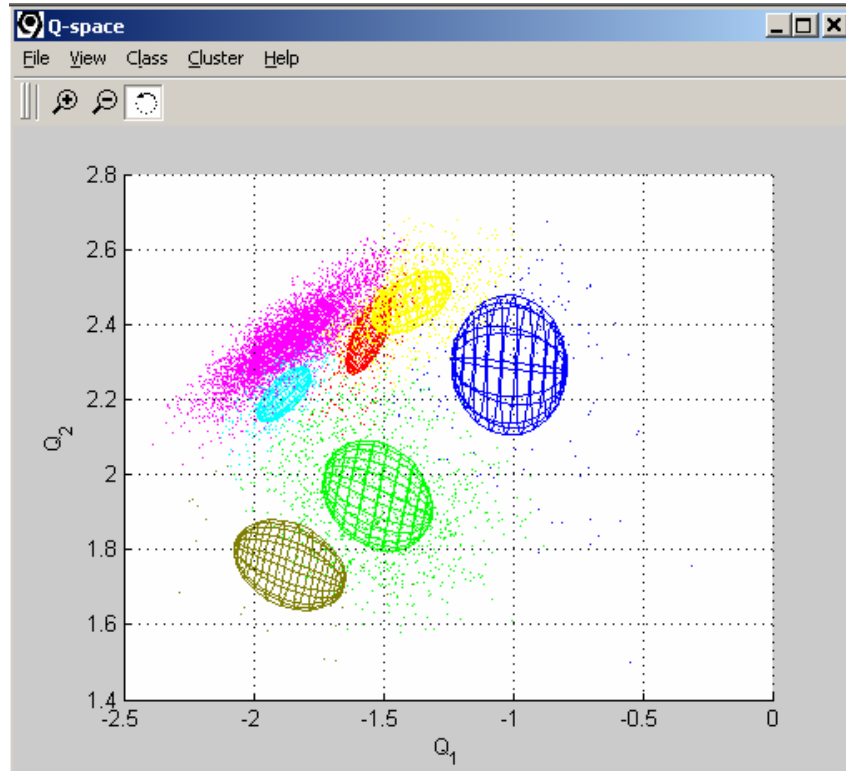


Figure 17: Plot of Q-space with data points from catalogue.

Once the clusters were determined, their mathematical description was stored with the results from the multivariate analysis, used to reduce the FFV information to the three Q-values, to comprise the catalogue. This catalogue was then used in preparing the final classification map.

Classification

Acoustic Seabed Classification

The analysis consisted of defining seven classes using the raw echoes collected during the survey. The resulting data file was merged with the position information to generate a geo-referenced classification data set constituting the final data product. The file format was a comma-delimited text file, known as a seabed file, containing processing date, time stamp, latitude and longitude in decimal degrees, depth, Q_1 , Q_2 , Q_3 , confidence, probability, classification number, classification name, source survey name, source date stamp, source data set name, source FFV file channel, and source FFV file record index. Table 4 presents a sample of this comma delimited ASCII file. A map of the seven classes was produced (Figure 18).

20030520,133421840,-117.32722702,47.68643408,-8.30,-2.23926377,2.08282042,-0.79392362,99,01,04,CLASS_04,SPOKANE,20030520,tester,1,1292

20030520,133422550,-117.32722109,47.68642568,-8.46,-2.36959934,1.95746148,-0.98410451,50,00,04,CLASS_04,SPOKANE,20030520,tester,1,1293

20030520,133423260,-117.32721506,47.68641722,-8.41,-2.33014512,1.95622861,-1.04504204,75,00,07,CLASS_07,SPOKANE,20030520,tester,1,1294

20030520,133423970,-117.32720924,47.68640836,-8.43,-2.24830866,1.96438158,-1.07395613,88,00,07,CLASS_07,SPOKANE,20030520,tester,1,1295

20030520,133424680,-117.32720319,47.68639910,-8.40,-2.01387453,2.27647543,-0.77166575,99,12,04,CLASS_04,SPOKANE,20030520,tester,1,1296

20030520,133425390,-117.32719741,47.68638934,-8.38,-2.23091841,2.11201191,-0.90129972,99,00,04,CLASS_04,SPOKANE,20030520,tester,1,1297

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20030520,133427520,-117.32717895,47.68635859,-7.97,-2.31445694,2.09580159,-0.77906317,99,01,04,CLASS_04,SPOKANE,20030520,tester,1,1300

20030520,133428230,-117.32717247,47.68634777,-7.72,-2.05972266,2.15691590,-0.80193830,99,06,04,CLASS_04,SPOKANE,20030520,tester,1,1301

20030520,133428940,-117.32716579,47.68633673,-7.64,-2.40431237,1.93982732,-1.02355969,70,00,07,CLASS_07,SPOKANE,20030520,tester,1,1302

20030520,133429650,-117.32715858,47.68632574,-7.49,-2.04311752,2.19371939,-0.75175220,99,18,04,CLASS_04,SPOKANE,20030520,tester,1,1303

20030520,133430350,-117.32715150,47.68631451,-7.48,-2.14350843,2.11589289,-0.97220635,98,00,04,CLASS_04,SPOKANE,20030520,tester,1,1304

20030520,133431060,-117.32714384,47.68630319,-7.38,-2.32310724,2.03209829,-0.90839708,96,00,04,CLASS_04,SPOKANE,20030520,tester,1,1305

20030520,133431780,-117.32713532,47.68629165,-7.20,-2.08355212,2.22897673,-0.68759227,99,35,04,CLASS_04,SPOKANE,20030520,tester,1,1306

20030520,133432490,-117.32712685,47.68628023,-7.18,-2.31721735,2.01690412,-0.99946922,79,00,04,CLASS_04,SPOKANE,20030520,tester,1,1307

20030520,133433200,-117.32711769,47.68626874,-7.14,-2.20234942,2.12798238,-0.78820032,99,04,04,CLASS_04,SPOKANE,20030520,tester,1,1308

20030520,133433910,-117.32710808,47.68625714,-7.09,-2.26184964,2.02977133,-1.01256382,81,00,04,CLASS_04,SPOKANE,20030520,tester,1,1309

20030520,133434620,-117.32709909,47.68624550,-7.08,-2.07085466,2.21186614,-0.72339731,99,29,04,CLASS_04,SPOKANE,20030520,tester,1,1310

20030520,133435330,-117.32708934,47.68623376,-6.94,-2.18921971,2.21549177,-0.68944275,99,10,04,CLASS_04,SPOKANE,20030520,tester,1,1311

Table 4: Final data file format

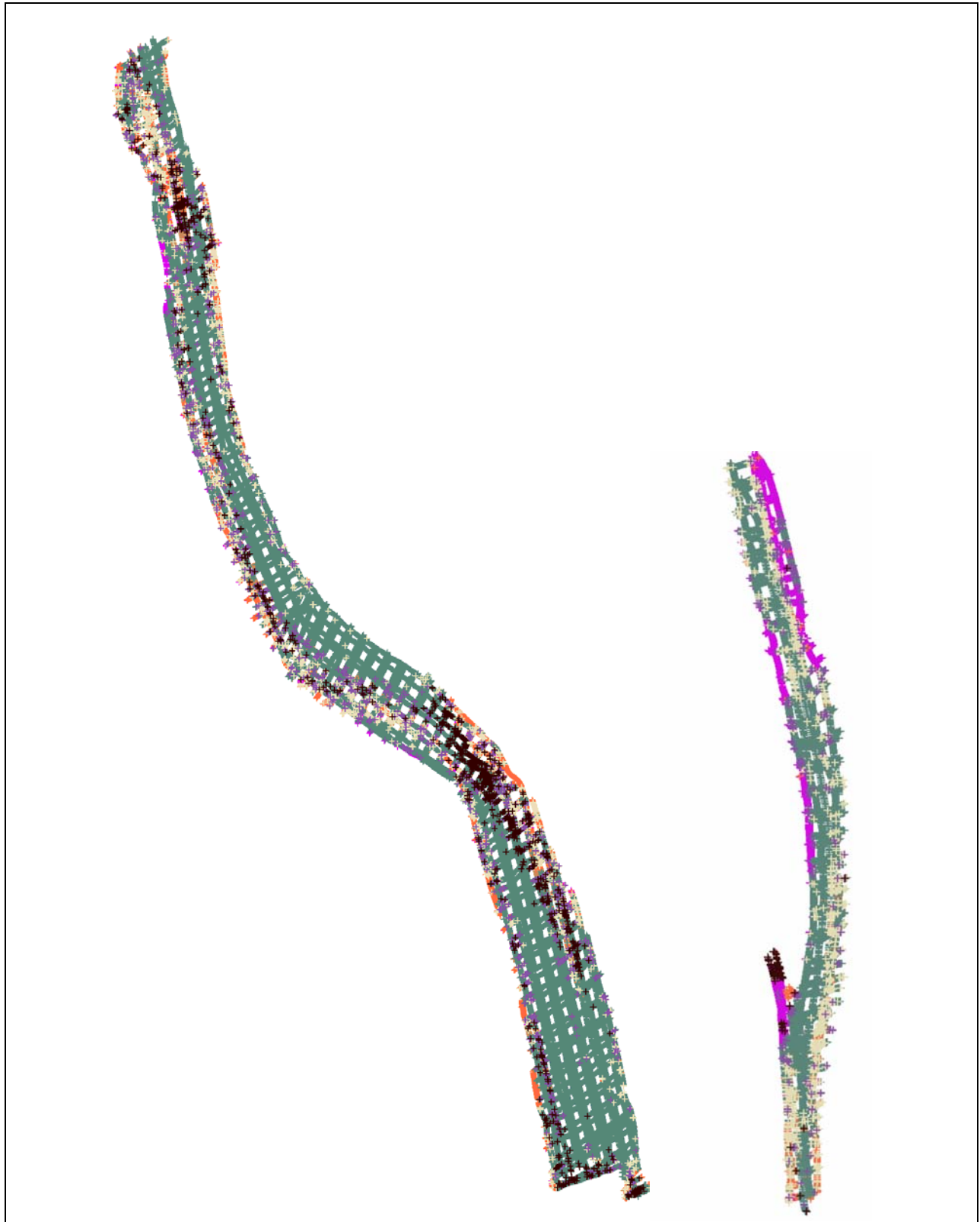


Figure 18: Acoustic classification data-Total survey area

Eastern Survey Area Interpolation

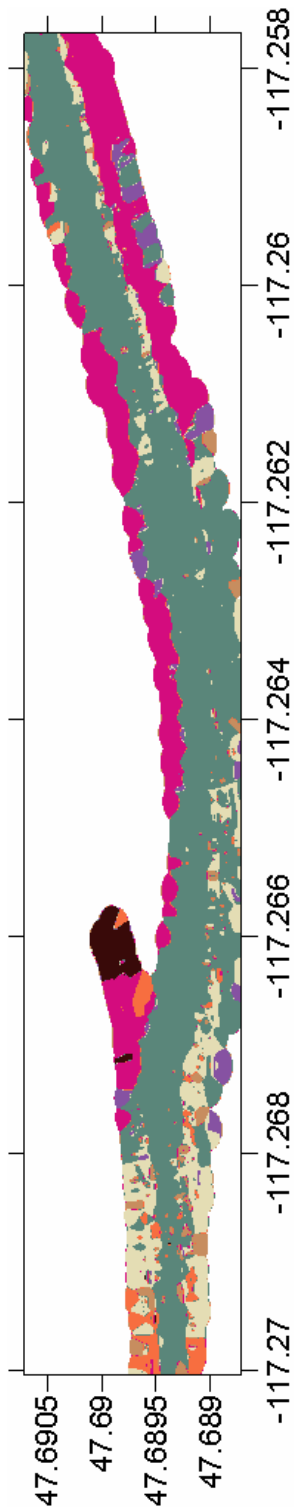


Figure 19: Interpolated classification data

SUMMARY

Seabed classification is the organization of seabed types into discrete units based on characteristics of the acoustic response. The QTC VIEW™'s unique approach to seabed classification involves the digitization of the echo trace from an echo sounder, and generation of descriptors of the echo shape, followed by classification based on statistical processing. If ground truth is available, it can be used to validate the classification.

The transmitted signal from the echo sounder and the first returning echo are captured and digitized by QTC VIEW™. The digital signal is then processed by a series of algorithms sensitive to different components of the echo shape. This processing generates 166 features of the echo trace, which make up a Full Feature Vector record describing the trace. Statistical analysis provides a means by which the 166 features can be reduced to three so-called Q-values. Each echo, as represented by three Q-values, can be plotted in three-dimensional Q-space. Echoes from acoustically similar seabeds will form discrete and definable clusters when plotted in Q-space. The information used to reduce the 166 feature elements to the three Q-values are stored in a catalogue. Full Feature Vectors, describing echo traces, are then classified according to the classes defined in the catalogue.

Acoustic seabed classification data were collected by Blue Water Engineering May 21-22, 2003. Seven discrete acoustic regimes were identified and displayed along the vessel track lines.

REFERENCES

Collins, W.T., Gregory, R.S. and Anderson, J.T. (1996), "A Digital Approach to Seabed Classification", *Sea Technology*, pp. 83-87, Vol. 37, No. 8.

Collins, W.T. and Rhynas, K. (1998), "Acoustic Seabed Classification Using Echo Sounders: Operational Considerations and Strategies", *Proceedings from the 1998 Canadian Hydrographic Conference*, Victoria, B.C., Canada, March 1998.

Collins, W.T. and R. McConnaughey (1998), "Acoustic Classification as Synoptic Environmental Data to Address Essential Fish Habitat Requirements", *Abstract, Western Groundfish Conference*, Pacific Grove, California, February 2-5, 1998.

APPENDIX B

GROUNDWATER MONITORING RESULTS AND DATA

Figure B.1 - Total PCBs and PCB Homologues By Sample
May 2003 Groundwater Data

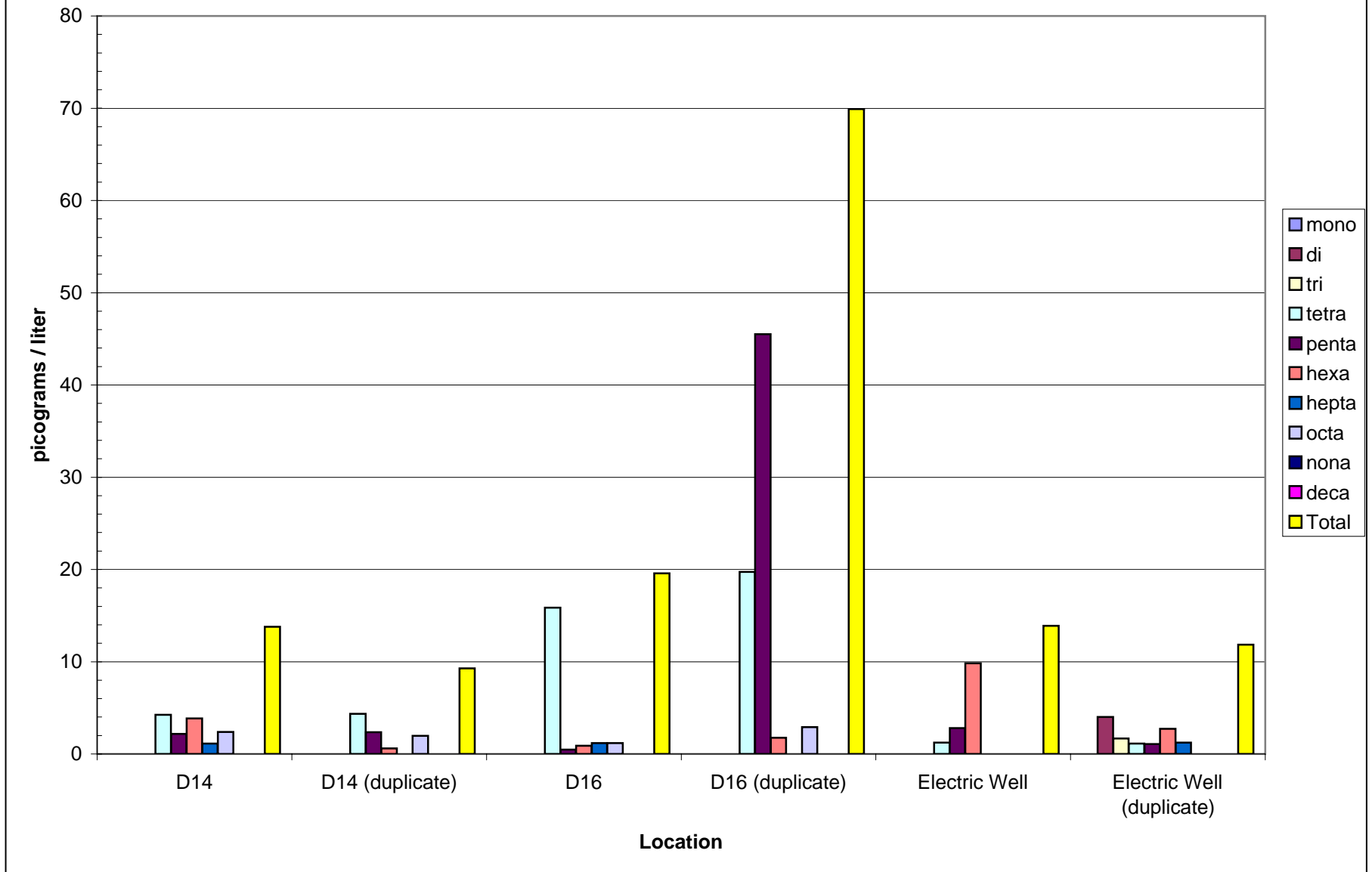


Figure B.2 - Total PCBs and PCB Homologues By Sample
September 2003 Groundwater Data

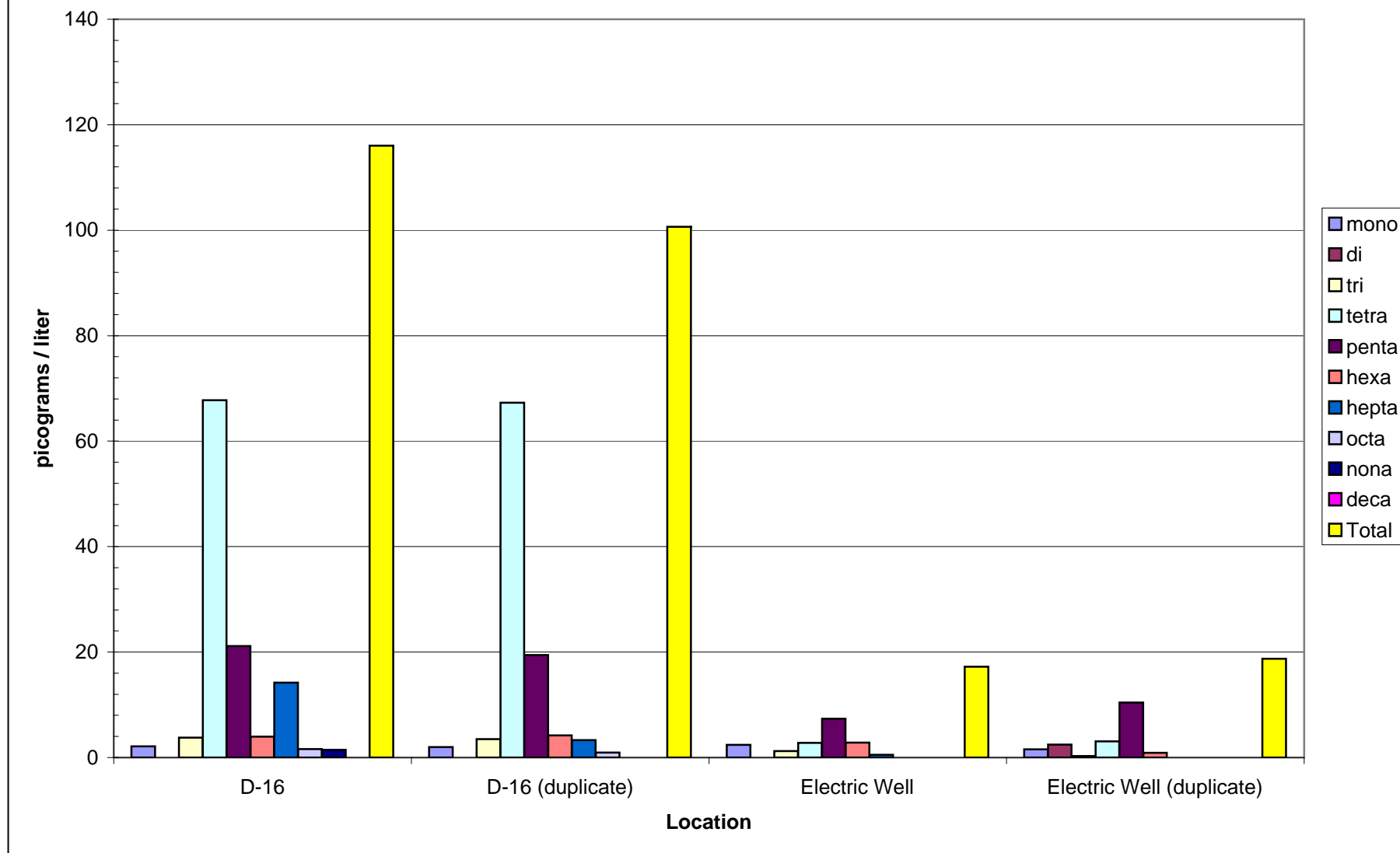


Figure B.2

Total PCBs and PCB Homologues by Station August 2003 SPMD Data

Blank Corrected

**Table B-1
Summary of PCB Congener Data from May 2003 Groundwater Sampling at Upriver Dam**

PCB Name	Location ID	D14	D14 (duplicate)	D16	D16 (duplicate)	Electric Well	Electric Well (duplicate)	D14	D16	D14	Method Blank	Method Blank
	Sample ID Sample Date QC Type Congener Number	AN-D14GW-030515 5/15/2003 Result	AN-D64GW-030515 5/15/2003 Field Dup Result	AN-D16GW-030515 5/15/2003 Result	AN-D66GW-030515 5/15/2003 Field Dup Result	AN-EWGW-030612 6/12/2003 Result	AN-EW50GW-030612 6/12/2003 Field Dup Result	AN-D14TB-030515 5/15/2003 Trip Blank Result	AN-D16TB-030515 5/15/2003 Trip Blank Result	AN-D14RB-030513 5/15/2003 Rinse Blank Result	WG9139-101 7/7/2003 Lab Blank Detected Result	WG9761-101 7/24/2003 Lab Blank Detected Result
Congener Totals (picograms/liter)												
Monochlorobiphenyl (total)		0.00	0.00	0.00	0.00	0.00	0.00	1.76	2.02	9.67	7.77	8.77
Dichlorobiphenyl (total)		0.00	0.00	0.00	0.00	0.00	4.01	0.00	2.12	39.96	8.48	42.04
Trichlorobiphenyl (total)		0.00	0.00	0.00	0.00	0.00	1.68	5.91	4.80	28.56	12.66	17.00
Tetrachlorobiphenyl (total)		4.24	4.36	15.87	19.73	1.23	1.12	7.04	1.04	107.52	17.69	16.66
Pentachlorobiphenyl (total)		2.18	2.36	0.47	45.51	2.81	1.09	6.20	9.41	9.49	13.60	13.18
Hexachlorobiphenyl (total)		3.84	0.61	0.88	1.76	9.84	2.74	4.04	18.55	19.09	9.43	18.37
Heptachlorobiphenyl (total)		1.14	0.00	1.17	0.00	0.00	1.23	2.03	6.99	9.86	5.55	11.97
Octachlorobiphenyl (total)		2.39	1.96	1.19	2.92	0.00	0.00	0.00	1.05	0.44	3.36	1.97
Nonachlorobiphenyl (total)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Decachlorobiphenyl (total)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.83	0.82
Total PCB congeners		13.8	9.3	19.6	69.9	13.9	11.9	27.0	46.0	225.6	79.4	130.8
EPA's Maximum Contaminant Level*		500,000	500,000	500,000	500,000	500,000	500,000	--	--	--	--	--

* EPA's Maximum Contaminant Level from the Safe Drinking Water Act

Table B-2
Spokane River - Upriver Dam
Summary of PCB Congeners in May 2003 Groundwater

Well ID Sample ID Sample Date Quality Control Sample Type PCB Name	Congener Number	AN-D14 AN-D14GW-030515 5/15/2003				AN-D14 AN-D64GW-030515 5/15/2003 Field Duplicate				AN-D16 AN-D16GW-030515 5/15/2003				AN-D16 AN-D66GW-030515 5/15/2003 Field Duplicate				AN-EWGW AN-EWGW-030612 6/12/2003		
		Result	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Laboratory Qualifier	RL
		2 - MoCB (monochlorobiphenyls)	1	1.66	UB			U				1.79	UB			2.85	UBR	K		4.34
3 - MoCB	2	2.77	UB			U				1.6	UB			2.99	UBR			3.82		
4 - MoCB	3	3.9	UB			4.91	UBR	K		2.97	UBR	K		4.17	UBR	K		7.63		
2,2' - DiCB (dichloro)	4	2.33	UB	K		3.32	UR	K		U		U	0.872	U		U	2.13	U	U	3.19
2,3 - DiCB	5	U		U	0.571	U		U	1.78	U		U	0.755	U		U	1.52	U	U	2.48
2,3' - DiCB	6	U		U	0.513	U		U	1.64	U		U	0.678	U		U	1.41	U	U	2.29
2,4 - DiCB	7	1.04	UR	K		7.38	UB			U		U	0.655	29.1	UBR			23.5		
2,4' - DiCB	8	3.06	UB1			3.94	UB1			2.14	UR	K		4.55	UBR	K		4.8	K	
2,5 - DiCB	9	U		U	0.514	U		U	1.63	U		U	0.679	U		U	1.39	U	U	2.27
2,6 - DiCB	10	U		U	0.507	U		U	1.69	U		U	0.671	U		U	1.45	U	U	2.35
3,3' - DiCB	11	7.29	UR	K		14.4	UBR	K		5.48	UB1			14.2	UBR	K		11.5	K	
3,4 - DiCB	12	U		UC	0.564	U		UC	1.75	U		UC	0.746	U		UC	1.5	U	UC	2.44
3,4' - DiCB	13	U		C12		U		C12		U		C12		U		C12		U	C12	
3,5 - DiCB	14	U		U	0.547	U		U	1.75	U		U	0.723	U		U	1.5	U	U	2.44
4,4' - DiCB	15	1.6	UR	K		U		U	2.31	U		U	1.05	3.25	UR	K		U	U	3.12
2,2',3 - TriCB (trichloro)	16	1.49	UBR	K		2.01	UR	K		1.06	UBR	K		1.46	UB1			1.8	K	
2,2',4 - TriCB	17	2.18	UB			2.62	UB			1.13	UB			2.04	UB			1.23		
2,2',5 - TriCB	18	3.5	UR	CK		3.88	UB	C		1.97	UR	CK		3.64	UBR	CK		3.88	CK	
2,2',6 - TriCB	19	0.877	UR	K		0.67	UB1			0.502	UR	K		0.641	UB1			0.767	K	
2,3,3' - TriCB	20	3.42	UB	C		4.58	UB	C		3.33	UB	C		5.68	UB	C		3.81	C	
2,3,4 - TriCB	21	3.42	UB	C		2.72	UB	C		1.99	UB	C		3.98	UB	C		1.86	C	
2,3,4' - TriCB	22	1.12	UR	K		1.82	UB			1.01	UB1			1.91	UB			1.39	K	
2,3,5 - TriCB	23	U		U	0.228	U		U	0.41	U		U	0.35	U		U	0.372	U	U	0.643
2,3,6 - TriCB	24	U		U	0.196	U		U	0.417	U		U	0.226	U		U	0.307	U	U	0.478
2,3',4 - TriCB	25	0.323	UR	K		0.414	UR	K		0.308	UR	K		0.574	UR	K		U	U	0.569
2,3',5 - TriCB	26	0.651	UB	C		0.889	UR	CK		U		UC	0.35	0.912	UR	CK		0.729	CK	
2,3',6 - TriCB	27	0.293	UR	K		0.551	UR	K		U		U	0.223	U		U	0.3	U	U	0.467
2,4,4' - TriCB	28	U		C20		U		C20		U		C20		U		C20		U	C20	
2,4,5 - TriCB	29	U		C26		U		C26		U		C26		U		C26		U	C26	
2,4,6 - TriCB	30	U		C18		U		C18		U		C18		U		C18		U	C18	
2,4',5 - TriCB	31	2.65	UBR	K		4.01	UB			3	UB			5.55	UB			3.17		
2,4',6 - TriCB	32	1.27	UBR	K		1.43	UBR	K		0.57	UBR	K		1.09	UBR	K		0.931	K	
2',3,4 - TriCB	33	U		C21		U		C21		U		C21		U		C21		U	C21	
2',3,5 - TriCB	34	U		U	0.23	U		U	0.419	U		U	0.354	U		U	0.38	U	U	0.658
3,3',4 - TriCB	35	U		U	0.26	U		U	0.428	U		U	0.4	U		U	0.388	0.699	K	
3,3',5 - TriCB	36	U		U	0.236	U		U	0.415	U		U	0.363	U		U	0.377	U	U	0.651
3,4,4' - TriCB	37	0.902	UR	K		1.22	UB1			1.69	UB1			2.42	UR	K		U	U	0.723
3,4,5 - TriCB	38	U		U	0.239	U		U	0.433	U		U	0.368	U		U	0.393	U	U	0.679
3,4',5 - TriCB	39	U		U	0.23	U		U	0.411	U		U	0.354	U		U	0.373	U	U	0.645
2,2',3,3' - TeCB (tetrachloro)	40	1.32	UB	C		1.09	UR	CK		1.38	UB	C		2.68	UB1	C		1.31	CK	
2,2',3,4 - TeCB	41	U		C40		U		C40		U		C40		U		C40		U	C40	
2,2',3,4' - TeCB	42	0.536				0.395				0.596	UR	K		0.664	UR	K		U	U	0.348
2,2',3,5 - TeCB	43	U		U	0.17	0.134	UR	K		U		U	0.237	U		U	0.47	U	U	0.382
2,2',3,5' - TeCB	44	31.8	UB1	C		17.3	UBR	CK		23.7	UB	C		42.7	UB1	C		4.5	C	
2,2',3,6 - TeCB	45	44.5	UB1	C		27	UB1	C		25.8	UB1	C		38.3	UB1	C		0.775	C	
2,2',3,6' - TeCB	46	0.305	UB			0.438	UR	K		U		U	0.241	U		U	0.486	U	U	0.395
2,2',4,4' - TeCB	47	U		C44		U		C44		U		C44		U		C44		U	C44	
2,2',4,5 - TeCB	48	0.564	UBR	K		0.451	UB2			0.303	UB			U		U	0.404	0.457		

Table B-2
Spokane River - Upriver Dam
Summary of PCB Congeners in May 2003 Groundwater

Well ID Sample ID Sample Date Quality Control Sample Type	Congener Number	AN-D14 AN-D14GW-030515 5/15/2003				AN-D14 AN-D64GW-030515 5/15/2003 Field Duplicate				AN-D16 AN-D16GW-030515 5/15/2003				AN-D16 AN-D66GW-030515 5/15/2003 Field Duplicate				AN-EWGW AN-EWGW-030612 6/12/2003		
		Result	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Laboratory Qualifier	RL
2,2',4,5' - TeCB	49	2.65	UB	C		2.47	UB1	CK		2.21	UBR	CK		3.78	UB	C		2.13	C	
2,2',4,6' - TeCB	50	0.954	UR	CK		0.923	UR	CK		0.419	UR	CK		0.782	UR	CK		0.608	CK	
2,2',4,6' - TeCB	51	U		C45		U		C45		U		C45		U		C45		U	C45	
2,2',5,5' - TeCB	52	6.03	UB			5.79	UB			3.12	UB			9.17	UB			7.68	K	
2,2',5,6' - TeCB	53	U		C50		U		C50		U		C50		U		C50		U	C50	
2,2',6,6' - TeCB	54	0.214	UR	K		0.181	UR	K		U		U	0.172	U		U	0.324	U	U	0.259
2,3,3',4 - TeCB	55	U		U	0.532	U		U	0.709	U		U	0.642	U		U	0.611	U	U	0.543
2,3,3',4' - TeCB	56	1.08				0.982				1.12				1.96				0.946	K	
2,3,3',5 - TeCB	57	U		U	0.519	U		U	0.687	U		U	0.627	U		U	0.592	U	U	0.526
2,3,3',5' - TeCB	58	U		U	0.52	U		U	0.689	U		U	0.627	U		U	0.594	U	U	0.528
2,3,3',6 - TeCB	59	0.26	UBR	CK		0.355		C		U		UC	0.154	U		UC	0.311	U	UC	0.253
2,3,4,4' - TeCB	60	U		U	0.54	0.901	UR	K		1.26				1.24				0.594	K	
2,3,4,5 - TeCB	61	4.63	UB	C		5.71	UB	C		5.83	UB	C		10.4	UB	C		5.88	C	
2,3,4,6 - TeCB	62	U		C59		U		C59		U		C59		U		C59		U	C59	
2,3,4',5 - TeCB	63	U		U	0.505	U		U	0.692	U		U	0.609	U		U	0.597	U	U	0.53
2,3,4',6 - TeCB	64	2.62				2.63				4.5				5.93				1.35	K	
2,3,5,6 - TeCB	65	U		C44		U		C44		U		C44		U		C44		U	C44	
2,3',4,4' - TeCB	66	3	UB			3.65	UR	K		7.73				10.6				2.61	K	
2,3',4,5 - TeCB	67	U		U	0.462	U		U	0.613	U		U	0.557	U		U	0.528	U	U	0.47
2,3',4,5' - TeCB	68	20.6	UB1			11.3	UB1			16.8	UB1			23.3	UB1			U	U	0.48
2,3',4,6 - TeCB	69	U		C49		U		C49		U		C49		U		C49		U	C49	
2,3',4',5 - TeCB	70	U		C61		U		C61		U		C61		U		C61		U	C61	
2,3',4',6 - TeCB	71	U		C40		U		C40		U		C40		U		C40		U	C40	
2,3',5,5' - TeCB	72	U		U	0.483	U		U	0.659	U		U	0.582	U		U	0.568	U	U	0.505
2,3',5,6 - TeCB	73	U		U	0.111	U		U	0.0554	U		U	0.154	U		U	0.303	U	U	0.247
2,4,4',5 - TeCB	74	U		C61		U		C61		U		C61		U		C61		U	C61	
2,4,4',6 - TeCB	75	U		C59		U		C59		U		C59		U		C59		U	C59	
2',3,4,5 - TeCB	76	U		C61		U		C61		U		C61		U		C61		U	C61	
3,3',4,4' - TeCB	77	U		U	0.645	U		U	0.868	1.26				1.92	UBR	K		0.681		
3,3',4,5 - TeCB	78	U		U	0.556	U		U	0.788	U		U	0.671	U		U	0.679	U	U	0.603
3,3',4,5' - TeCB	79	U		U	0.452	U		U	0.632	U		U	0.545	U		U	0.545	U	U	0.484
3,3',5,5' - TeCB	80	U		U	0.516	U		U	0.688	U		U	0.622	U		U	0.593	U	U	0.527
3,4,4',5 - TeCB	81	U		U	0.609	U		U	0.822	U		U	0.672	U		U	0.722	U	U	0.634
2,2',3,3',4 - PeCB (pentachloro)	82	0.823	UB			U		U	0.566	0.609	UB			U		U	0.454	U	U	0.724
2,2',3,3',5 - PeCB	83	3.63	UB	C		2.51	UBR	CK		2.5	UB	C		6.23	UB1	C		2.44	C	
2,2',3,3',6 - PeCB	84	2.11	UB	K		0.977	UR	K		1.55	UBR	K		3.56				1.1	K	
2,2',3,4,4' - PeCB	85	1.86		C		1.61		C		2.24	UR	CK		4.31		C		0.761	C	
2,2',3,4,5 - PeCB	86	4.74	UB1	C		3.57	UB	C		3.32	UR	CK		7.69	UB	C		2.94	CK	
2,2',3,4,5' - PeCB	87	U		C86		U		C86		U		C86		U		C86		U	C86	
2,2',3,4,6 - PeCB	88	1.18	UBR	CK		0.746		C		1.11	UBR	CK		2.3		C		U	UC	0.611
2,2',3,4,6' - PeCB	89	U		U	0.212	U		U	0.518	U		U	0.168	U		U	0.416	U	U	0.663
2,2',3,4',5 - PeCB	90	6.42	UB	C		5.48	UB	C		4.58	UB	C		13.3		C		5.49	CK	
2,2',3,4',6 - PeCB	91	U		C88		U		C88		U		C88		U		C88		U	C88	
2,2',3,5,5' - PeCB	92	1.18	UB1			1.09	UR	K		1.02	UR	K		2.73	UB1			1.18	K	
2,2',3,5,6 - PeCB	93	5.92	UB	C		4.51	UBR	CK		4.27	UB	C		U		UC	0.369	U	UC	0.588
2,2',3,5,6' - PeCB	94	U		U	0.206	U		U	0.496	U		U	0.163	U		U	0.398	U	U	0.634
2,2',3,5',6 - PeCB	95	U		C93		U		C93		U		C93		U		C93		U	C93	
2,2',3,6,6' - PeCB	96	0.061	UB	K		U		U	0.202	U		U	0.0098	0.055				U	U	0.217
2,2',3',4,5 - PeCB	97	U		C86		U		C86		U		C86		U		C86		U	C86	
2,2',3',4,6 - PeCB	98	U		C93		U		C93		U		C93		U		C93		U	C93	

Table B-2
Spokane River - Upriver Dam
Summary of PCB Congeners in May 2003 Groundwater

Well ID Sample ID Sample Date Quality Control Sample Type PCB Name	Congener Number	AN-D14 AN-D14GW-030515 5/15/2003				AN-D14 AN-D64GW-030515 5/15/2003 Field Duplicate				AN-D16 AN-D16GW-030515 5/15/2003				AN-D16 AN-D66GW-030515 5/15/2003 Field Duplicate				AN-EWGW AN-EWGW-030612 6/12/2003		
		Result	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Laboratory Qualifier	RL
		2,2',4,4',5 - PeCB	99	U		C83		U		C83		U		C83		U		C83		U
2,2',4,4',6 - PeCB	100	U		C93		U		C93		U		C93		U		C93		U	C93	
2,2',4,5,5' - PeCB	101	U		C90		U		C90		U		C90		U		C90		U	C90	
2,2',4,5,6' - PeCB	102	U		C93		U		C93		U		C93		U		C93		U	C93	
2,2',4,5',6 - PeCB	103	U		U	0.176	U		U	0.419	U		U	0.139	U		U	0.336	U	U	0.535
2,2',4,6,6' - PeCB	104	0.117	UR	K		U		U	0.214	0.126	UR	K		0.069	UR	K		U	U	0.228
2,3,3',4,4' - PeCB	105	3.38	UB1			2.83	UR	K		3.95	UB1			7.12	UB1			2.05		
2,3,3',4,5 - PeCB	106	U		U	0.207	U		U	0.343	U		U	0.199	U		U	0.544	U	U	0.583
2,3,3',4',5 - PeCB	107	0.46	UB	C		U		UC	0.35	0.52	UBR	CK		0.889	UR	CK		U	UC	0.594
2,3,3',4,5' - PeCB	108	U		C86		U		C86		U		C86		U		C86		U	C86	
2,3,3',4,6 - PeCB	109	0.406	UR	K		U		U	0.315	1.05	UR	K		1.28				U	U	0.535
2,3,3',4',6 - PeCB	110	7.43	UB	C		5.65	UB	C		8.9	UB2	C		20.7		C		5.16	CK	
2,3,3',5,5' - PeCB	111	U		U	0.153	U		U	0.372	U		U	0.121	U		U	0.298	U	U	0.475
2,3,3',5,6 - PeCB	112	U		U	0.15	U		U	0.366	U		U	0.119	U		U	0.294	U	U	0.468
2,3,3',5',6 - PeCB	113	U		C90		U		C90		U		C90		U		C90		U	C90	
2,3,4,4',5 - PeCB	114	0.518	UBR	K		U		U	0.339	0.469				0.716	UR	K		U	U	0.557
2,3,4,4',6 - PeCB	115	U		C110		U		C110		U		C110		U		C110		U	C110	
2,3,4,5,6 - PeCB	116	U		C85		U		C85		U		C85		U		C85		U	C85	
2,3,4',5,6 - PeCB	117	U		C85		U		C85		U		C85		U		C85		U	C85	
2,3',4,4',5 - PeCB	118	6.31	UB1			5.56	UB			7.3	UR	K		13.8	UB1			3.97		
2,3',4,4',6 - PeCB	119	U		C86		U		C86		U		C86		U		C86		U	C86	
2,3',4,5,5' - PeCB	120	U		U	0.15	U		U	0.364	U		U	0.119	U		U	0.292	U	U	0.465
2,3',4,5',6 - PeCB	121	U		U	0.149	U		U	0.355	U		U	0.118	U		U	0.285	U	U	0.454
2',3,3',4,5 - PeCB	122	0.441	UR	K		U		U	0.38	0.241	UR	K		U		U	0.602	U	U	0.645
2',3,4,4',5 - PeCB	123	0.318				U		U	0.347	0.491	UR	K		U		U	0.543	U	U	0.569
2',3,4,5,5' - PeCB	124	U		C107		U		C107		U		C107		U		C107		U	C107	
2',3,4,5,6' - PeCB	125	U		C86		U		C86		U		C86		U		C86		U	C86	
3,3',4,4',5 - PeCB	126	U		U	0.253	U		U	0.409	U		U	0.243	U		U	0.632	U	U	0.76
3,3',4,5,5' - PeCB	127	U		U	0.233	U		U	0.356	U		U	0.224	U		U	0.565	U	U	0.605
2,2',3,3',4,4' - HxCB (hexachloro)	128	2.93	UR	CK		U		UC	0.55	2.02	UB	C		4.6	UR	CK		1.1	CK	
2,2',3,3',4,5 - HxCB	129	12.7	UB1	C		8.32	UB	C		9.33	UR	CK		23.2	UB1	C		5.84	C	
2,2',3,3',4,5' - HxCB	130	0.689	UBR	K		U		U	0.704	0.718	UBR	K		1.36	UR	K		U	U	0.35
2,2',3,3',4,6 - HxCB	131	U		U	0.208	U		U	0.651	U		U	0.221	U		U	0.355	U	U	0.323
2,2',3,3',4,6' - HxCB	132	2.35				2.24	UB			1.75	UR	K		7.51	UB2			1.83		
2,2',3,3',5,5' - HxCB	133	U		U	0.203	U		U	0.636	0.221	UR	K		U		U	0.347	U	U	0.316
2,2',3,3',5,6 - HxCB	134	0.402		C		U		UC	0.653	U		UC	0.222	U		UC	0.356	U	UC	0.324
2,2',3,3',5,6' - HxCB	135	2.22	UB1	C		2.55	UB	C		1.87	UB1	C		5.73	UB	C		2.29	CK	
2,2',3,3',6,6' - HxCB	136	0.652	UB			0.992	UB			0.668	UBR	K		2.36	UB1			1.06		
2,2',3,4,4',5 - HxCB	137	1.05				U		U	0.604	0.774	UR	K		1.34	UR	K		U	U	0.3
2,2',3,4,4',5' - HxCB	138	U		C129		U		C129		U		C129		U		C129		U	C129	
2,2',3,4,4',6 - HxCB	139	0.36	UB	C		U		UC	0.588	U		UC	0.2	0.383	UR	CK		U	UC	0.292
2,2',3,4,4',6' - HxCB	140	U		C139		U		C139		U		C139		U		C139		U	C139	
2,2',3,4,5,5' - HxCB	141	1.48	UB1			1.48	UB			1.26	UR	K		4.21	UB			1.64		
2,2',3,4,5,6 - HxCB	142	U		U	0.211	U		U	0.674	U		U	0.225	U		U	0.368	U	U	0.335
2,2',3,4,5,6' - HxCB	143	U		C134		U		C134		U		C134		U		C134		U	C134	
2,2',3,4,5',6 - HxCB	144	0.3	UR	K		0.527	UR	K		0.153	UR	K		0.972	UR	K		U	U	0.0786
2,2',3,4,6,6' - HxCB	145	U		U	0.0131	0.092	UR	K		U		U	0.0109	U		U	0.132	U	U	0.0588
2,2',3,4',5,5' - HxCB	146	1.14	UBR	K		0.948	UR	K		1.38	UR	K		2.8	UB1			0.796	K	
2,2',3,4',5,6 - HxCB	147	5.38	UB	C		4.85	UB1	C		3.87	UB	C		15.4	UB1	C		4.37	C	
2,2',3,4',5,6' - HxCB	148	U		U	0.0178	U		U	0.0867	U		U	0.0148	U		U	0.178	U	U	0.0791
2,2',3,4',5',6 - HxCB	149	U		C147		U		C147		U		C147		U		C147		U	C147	
2,2',3,4',6,6' - HxCB	150	0.016	UR	K		U		U	0.0613	0.018	UR	K		U		U	0.126	U	U	0.0559

Table B-2
Spokane River - Upriver Dam
Summary of PCB Congeners in May 2003 Groundwater

Well ID Sample ID Sample Date Quality Control Sample Type	Congener Number	AN-D14 AN-D14GW-030515 5/15/2003				AN-D14 AN-D64GW-030515 5/15/2003 Field Duplicate				AN-D16 AN-D16GW-030515 5/15/2003				AN-D16 AN-D66GW-030515 5/15/2003 Field Duplicate				AN-EWGW AN-EWGW-030612 6/12/2003		
		Result	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Laboratory Qualifier	RL
2,2',3,5,5',6 - HxCB	151	U		C135		U		C135		U		C135		U		C135		U	C135	
2,2',3,5,6,6' - HxCB	152	0.04				U		U	0.0598	U		U	0.0102	U		U	0.123	0.084	K	
2,2',4,4',5,5' - HxCB	153	6.2	UR	CK		6.4	UB1	C		5.7	UB1	C		15.9	UB1	C		5.47	C	
2,2',4,4',5,6' - HxCB	154	U		C135		U		C135		U		C135		U		C135		U	C135	
2,2',4,4',6,6' - HxCB	155	0.124	UBR	K		0.083	UR	K		0.108	UB			0.12	UR	K		0.204	K	
2,3,3',4,4',5 - HxCB	156	1.56	UB	C		1.44	UBR	CK		0.853	UB	C		2.73	UR	CK		0.996	C	
2,3,3',4,4',5' - HxCB	157	U		C156		U		C156		U		C156		U		C156		U	C156	
2,3,3',4,4',6 - HxCB	158	1.08	UBR	K		1.06	UR	K		0.812	UBR	K		2.09	UR	K		0.946	K	
2,3,3',4,5,5' - HxCB	159	0.189	UR	K		U		U	0.482	U		U	0.167	U		U	0.263	U	U	0.239
2,3,3',4,5,6 - HxCB	160	U		C129		U		C129		U		C129		U		C129		U	C129	
2,3,3',4,5',6 - HxCB	161	U		U	0.148	U		U	0.462	U		U	0.158	U		U	0.252	U	U	0.229
2,3,3',4',5,5' - HxCB	162	U		U	0.155	U		U	0.478	U		U	0.165	U		U	0.261	U	U	0.237
2,3,3',4',5,6 - HxCB	163	U		C129		U		C129		U		C129		U		C129		U	C129	
2,3,3',4',5,6 - HxCB	164	0.901	UB2			U		U	0.486	0.884				1.76				0.448	K	
2,3,3',5,5',6 - HxCB	165	U		U	0.158	U		U	0.505	U		U	0.168	U		U	0.276	U	U	0.251
2,3,4,4',5,6 - HxCB	166	U		C128		U		C128		U		C128		U		C128		U	C128	
2,3',4,4',5,5' - HxCB	167	0.536	UR	K		0.61				0.391	UB2			1.01	UB2			0.345	K	
2,3',4,4',5',6 - HxCB	168	U		C153		U		C153		U		C153		U		C153		U	C153	
3,3',4,4',5,5' - HxCB	169	U		U	0.169	U		U	0.526	U		U	0.176	U		U	0.279	U	U	0.289
2,2',3,3',4,4',5 - HpCB (heptachloro)	170	1.47	UB			2.06	UR	K		2.14	UBR	K		4.85	UB1			1.06	K	
2,2',3,3',4,4',6 - HpCB	171	0.444	UR	CK		U		UC	0.0944	0.61		C		1.38	UR	CK		0.744	CK	
2,2',3,3',4,5,5' - HpCB	172	0.396	UR	K		0.69	UR	K		0.453	UR	K		0.769	UR	K		0.349	K	
2,2',3,3',4,5,6 - HpCB	173	U		C171		U		C171		U		C171		U		C171		U	C171	
2,2',3,3',4,5,6' - HpCB	174	1.5	UB1			2.29	UBR	K		1.29	UR	K		3.87	UBR	K		2.21		
2,2',3,3',4,5',6 - HpCB	175	0.102				0.329	UR	K		U		U	0.0158	0.204	UR	K		U	U	0.0918
2,2',3,3',4,6,6' - HpCB	176	0.149	UR	K		0.175	UB			0.152	UR	K		0.618	UBR	K		0.283	K	
2,2',3,3',4',5,6 - HpCB	177	1.2	UR	K		1.62	UR	K		0.558				2.5	UR	K		1.57	K	
2,2',3,3',5,5',6 - HpCB	178	0.529				0.649	UR	K		0.659	UB2			0.981	UR	K		0.238	K	
2,2',3,3',5,6,6' - HpCB	179	0.772	UR	K		1.02	UBR	K		0.704	UR	K		1.86	UB			0.584	K	
2,2',3,4,4',5,5' - HpCB	180	4.54	UB1	C		4.63	UB	C		4.01	UB1	C		8.84	UBR	CK		2.2	C	
2,2',3,4,4',5,6 - HpCB	181	0.047				U		U	0.0853	U		U	0.016	0.25	UR	K		U	U	0.0928
2,2',3,4,4',5,6' - HpCB	182	U		U	0.0189	0.117	UR	K		U		U	0.0157	0.159	UR	K		U	U	0.0922
2,2',3,4,4',5',6 - HpCB	183	1.22	UR	CK		1.43	UBR	CK		1.37	UB1	C		2.92	UB	C		1.33	CK	
2,2',3,4,4',6,6' - HpCB	184	U		U	0.0129	0.183	UR	K		U		U	0.0108	0.05	UR	K		U	U	0.0641
2,2',3,4,5,5',6 - HpCB	185	U		C183		U		C183		U		C183		U		C183		U	C183	
2,2',3,4,5,6,6' - HpCB	186	U		U	0.0142	U		U	0.0647	U		U	0.0118	U		U	0.0533	U	U	0.0704
2,2',3,4',5,5',6 - HpCB	187	2.87	UR	K		2.39	UBR	K		2.24	UB1			6.36	UB			2.51		
2,2',3,4',5,6,6' - HpCB	188	0.07	UR	K		0.067	UR	K		0.09	UR	K		0.061	UR	K		0.171	K	
2,3,3',4,4',5,5' - HpCB	189	0.272	UBR	K		0.152	UBR	K		0.106	UBR	K		0.15	UBR	K		0.214		
2,3,3',4,4',5,6 - HpCB	190	0.459				U		U	0.0722	0.432	UR	K		0.942	UB2			0.298	K	
2,3,3',4,4',5',6 - HpCB	191	0.141	UR	K		0.166	UR	K		0.128	UR	K		0.132	UR	K		0.363	K	
2,3,3',4,5,5',6 - HpCB	192	0.03	UR	K		U		U	0.0744	U		U	0.0141	U		U	0.0614	U	U	0.081
2,3,3',4',5,5',6 - HpCB	193	U		C180		U		C180		U		C180		U		C180		U	C180	
2,2',3,3',4,4',5,5' - OcCB (octachloro)	194	0.748	UB			0.788	UR	K		0.85	UB			2.1				0.31	K	
2,2',3,3',4,4',5,6 - OcCB	195	0.432				0.5	UR	K		0.359	UR	K		0.817				0.326	K	
2,2',3,3',4,4',5,6' - OcCB	196	0.562	UR	K		0.341	UBR	K		0.268	UR	K		1.2	UBR	K		0.457	K	
2,2',3,3',4,4',6,6' - OcCB	197	0.475	UR	CK		0.134	UR	CK		0.22	UR	CK		0.705	UR	CK		0.124	CK	
2,2',3,3',4,5,5',6 - OcCB	198	1.58	UR	CK		1.27		C		1.19		C		3.08	UR	CK		0.891	CK	
2,2',3,3',4,5,5',6' - OcCB	199	U		C198		U		C198		U		C198		U		C198		U	C198	
2,2',3,3',4,5,6,6' - OcCB	200	U		C197		U		C197		U		C197		U		C197		U	C197	
2,2',3,3',4,5',6,6' - OcCB	201	0.339	UBR	K		0.281	UR	K		0.138	UBR	K		0.282	UR	K		U	U	0.0904
2,2',3,3',5,5',6,6' - OcCB	202	0.769				U		U	0.0756	0.279	UR	K		0.675	UR	K		0.174	K	
2,2',3,4,4',5,5',6 - OcCB	203	1.19				0.687				0.801	UB2			1.65	UR	K		U	U	0.112
2,2',3,4,4',5,6,6' - OcCB	204	U		U	0.0182	0.203	UR	K		U		U	0.0184	0.18	UR	K		0.099	K	

Table B-2
Spokane River - Upriver Dam
Summary of PCB Congeners in May 2003 Groundwater

Well ID Sample ID Sample Date Quality Control Sample Type PCB Name	Congener Number	AN-D14 AN-D14GW-030515 5/15/2003				AN-D14 AN-D64GW-030515 5/15/2003 Field Duplicate				AN-D16 AN-D16GW-030515 5/15/2003				AN-D16 AN-D66GW-030515 5/15/2003 Field Duplicate				AN-EWGW AN-EWGW-030612 6/12/2003		
		Result	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Laboratory Qualifier	RL
2,3,3',4,4',5,5',6 - OcCB	205	0.165	UR	K		0.094	UR	K		0.131	UR	K		0.277	UR	K		U	U	0.0862
2,2',3,3',4,4',5,5',6 - NoCB (nonachloro)	206	U		U	0.936	U		U	1.11	U		U	1.03	1.44	UR	K		U	U	0.967
2,2',3,3',4,4',5,6,6' - NoCB	207	U		U	0.714	U		U	0.863	U		U	0.797	U		U	0.542	U	U	0.758
2,2',3,3',4,5,5',6,6' - NoCB	208	U		U	0.778	U		U	0.886	U		U	0.877	0.637	UR	K		U	U	0.784
2,2',3,3',4,4',5,5',6,6' - DeCB (decachloro)	209	0.8	UB1			0.677	UB			0.788	UR	K		1.05	UB			0.861	K	
Congener Totals (picograms/liter)																				
Monochlorobiphenyl (total)		0.00				0.00				0.00				0.00				0.00		
Dichlorobiphenyl (total)		0.00				0.00				0.00				0.00				0.00		
Trichlorobiphenyl (total)		0.00				0.00				0.00				0.00				0.00		
Tetrachlorobiphenyl (total)		4.24				4.36				15.87				19.73				1.23		
Pentachlorobiphenyl (total)		2.18				2.36				0.47				45.51				2.81		
Hexachlorobiphenyl (total)		3.84				0.61				0.88				1.76				9.84		
Heptachlorobiphenyl (total)		1.14				0.00				1.17				0.00				0.00		
Octachlorobiphenyl (total)		2.39				1.96				1.19				2.92				0.00		
Nonachlorobiphenyl (total)		0.00				0.00				0.00				0.00				0.00		
Decachlorobiphenyl (total)		0.00				0.00				0.00				0.00				0.00		
Total PCB congeners		13.8				9.29				19.6				69.9				13.9		

pg/L = picograms / liter

RL = laboratory reporting limit

U = not detected

UB = not detected, detected in laboratory method blank

UB1 = not detected, detected in tubing rinsate blank

UB2 = not detected, detected in associated field blank

UR = not detected, result rejected due to ion abundance ratios not meeting criteria

Cxx = co-elutes with congener number indicated by "xx"

K = target compound could not be confirmed by satisfying all method criteria

Table B-2
Spokane River - Upriver Dam
Summary of PCB Congeners in May 2003 Groundwater

Well ID Sample ID Sample Date Quality Control Sample Type	Congener Number	AN-EWGW AN-EW50GW-030612 6/12/2003 Field Duplicate				AN-D14 AN-D14TB-030515 5/15/2003 Trip Blank				AN-D16 AN-D16TB-030515 5/15/2003 Trip Blank				AN-D14 AN-D14RB-030513 5/15/2003 Rinse Blank				Method Blank WG9139-101 7/7/2003 Lab Blank			Method Blank WG9761-101 7/24/2003 Lab Blank		
		Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Qualifier	RL	Result (pg/L)	Qualifier	RL
2 - MoCB (monochlorobiphenyls)	1	1.47	UB			1.35	UR	K		1.75	UR	K		7.98	UR	K		1.43			2.64		
3 - MoCB	2	1.3	UB			1.76				2.02				4.54	UR	K		2.97			2.2		
4 - MoCB	3	2.38	UBR	K		2.38	UR	K		3.09	UR	K		9.67				3.37			3.93		
2,2' - DiCB (dichloro)	4	2.14	UR	K		U		U	1.21	U		U	0.998	6.5				1.32	K			U	4.53
2,3 - DiCB	5	U		U	0.922	U		U	0.97	U		U	0.842	U		U	1.28	U	0.89		U	3.25	
2,3' - DiCB	6	U		U	0.828	U		U	0.872	U		U	0.756	2.98	UR	K		U	0.8		U	2.99	
2,4 - DiCB	7	U		U	0.801	U		U	0.842	U		U	0.731	7.66				U	0.773	20.4			
2,4' - DiCB	8	1.38	UR	K		2.05	UR	K		2.12				7.27				1.49	K		4.64	K	
2,5 - DiCB	9	U		U	0.83	U		U	0.873	U		U	0.757	1.97	UR	K		U	0.801		U	2.94	
2,6 - DiCB	10	U		U	0.819	U		U	0.862	U		U	0.748	U		U	1.21	U	0.791		U	3.02	
3,3' - DiCB	11	4.01				5.54	UR	K		4.27	UR	K		15.1				5.67	K		17		
3,4 - DiCB	12	U		UC	0.911	U		UC	0.959	U		UC	0.832	1.92	UR	CK		UC	0.88		UC	3.21	
3,4' - DiCB	13	U		C12		U		C12		U		C12		U		C12		C12			C12		
3,5 - DiCB	14	U		U	0.883	U		U	0.929	U		U	0.806	U		U	1.26	U	0.853		U	3.14	
4,4' - DiCB	15	U		U	1.38	U		U	1.28	U		U	1.15	3.43				U	1.16		U	3.87	
2,2',3 - TriCB (trichloro)	16	0.76	UB			0.921	UR	K		0.893	UR	K		2.31				0.976			1.53	K	
2,2',4 - TriCB	17	0.972	UB			1.03	UR	K		0.891	UR	K		2.57				0.825			1.45		
2,2',5 - TriCB	18	1.68		C		2.44	UR	CK		1.93		C		4.86		C		2.02	CK		2.85	C	
2,2',6 - TriCB	19	0.532	UR	K		U		U	0.586	0.518	UR	K		1.73				0.504	K			U	0.819
2,3,3' - TriCB	20	1.94	UB	C		1.79		C		2.15		C		4.56		C		2.25	CK		3.14	C	
2,3,4 - TriCB	21	1.1	UBR	CK		1.16		C		1.07	UR	CK		3.82		C		1.16	C		2	C	
2,3,4' - TriCB	22	U		U	0.468	0.814				0.749	UR	K		1.33				0.966	K		1		
2,3,5 - TriCB	23	U		U	0.428	U		U	0.407	U		U	0.502	U		U	0.286	U	0.289		U	0.585	
2,3,6 - TriCB	24	U		U	0.333	U		U	0.381	U		U	0.311	0.385	UR	K		U	0.242		U	0.445	
2,3',4 - TriCB	25	U		U	0.376	U		U	0.357	U		U	0.44	0.649	UR	K		U	0.253		U	0.509	
2,3',5 - TriCB	26	U		UC	0.429	U		UC	0.407	U		UC	0.502	0.623		C		0.317	C		0.621	CK	
2,3',6 - TriCB	27	U		U	0.329	U		U	0.376	U		U	0.307	0.377	UR	K		0.264	K			U	0.447
2,4,4' - TriCB	28	U		C20		U		C20		U		C20		U		C20		C20			C20		
2,4,5 - TriCB	29	U		C26		U		C26		U		C26		U		C26		C26			C26		
2,4,6 - TriCB	30	U		C18		U		C18		U		C18		U		C18		C18			C18		
2,4',5 - TriCB	31	1.37	UB			1.64				1.77	UR	K		4.15				1.76			2.72		
2,4',6 - TriCB	32	0.569	UB			0.501				U		U	0.481	1.28				0.605			0.83		
2',3,4 - TriCB	33	U		C21		U		C21		U		C21		U		C21		C21			C21		
2',3,5 - TriCB	34	U		U	0.433	U		U	0.411	U		U	0.508	U		U	0.293	U	0.292		U	0.587	
3,3',4 - TriCB	35	U		U	0.49	U		U	0.465	U		U	0.574	U		U	0.299	U	0.33		U	0.66	
3,3',5 - TriCB	36	U		U	0.444	U		U	0.421	U		U	0.52	U		U	0.29	U	0.299		U	0.58	
3,4,4' - TriCB	37	U		U	0.579	0.512	UR	K		0.716				1.33				1.01	K		0.857	K	
3,4,5 - TriCB	38	U		U	0.45	U		U	0.427	U		U	0.528	U		U	0.302	U	0.304		U	0.622	
3,4',5 - TriCB	39	U		U	0.433	U		U	0.411	U		U	0.508	U		U	0.287	U	0.292		U	0.583	
2,2',3,3' - TeCB (tetrachloro)	40	0.572	UB	C		0.939		C		0.708	UR	CK		1.64		C		0.972	C		0.739	CK	
2,2',3,4 - TeCB	41	U		C40		U		C40		U		C40		U		C40		C40			C40		
2,2',3,4' - TeCB	42	0.424				0.587	UR	K		U		U	0.173	0.758	UR	K		0.286	K		U	0.295	
2,2',3,5 - TeCB	43	U		U	0.222	U		U	0.226	U		U	0.19	U		U	0.182	U	0.187		U	0.331	
2,2',3,5' - TeCB	44	2.82	UB	C		2.16	UR	CK		2.09	UR	CK		48.6		C		5.35	C		3.74	C	
2,2',3,6 - TeCB	45	0.478	UB	C		0.728	UR	CK		0.66	UR	CK		26.4		C		1.45	C		0.795	CK	
2,2',3,6' - TeCB	46	U		U	0.225	U		U	0.23	U		U	0.194	0.242	UR	K		0.332			U	0.33	
2,2',4,4' - TeCB	47	U		C44		U		C44		U		C44		U		C44		C44			C44		
2,2',4,5 - TeCB	48	0.287	UBR	K		0.378				U		U	0.163	0.563	UR	K		0.481			0.531	K	

Table B-2
Spokane River - Upriver Dam
Summary of PCB Congeners in May 2003 Groundwater

Well ID Sample ID Sample Date Quality Control Sample Type PCB Name	Congener Number	AN-EWGW AN-EW50GW-030612 6/12/2003 Field Duplicate				AN-D14 AN-D14TB-030515 5/15/2003 Trip Blank				AN-D16 AN-D16TB-030515 5/15/2003 Trip Blank				AN-D14 AN-D14RB-030513 5/15/2003 Rinse Blank				Method Blank WG9139-101 7/7/2003 Lab Blank			Method Blank WG9761-101 7/24/2003 Lab Blank		
		Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Qualifier	RL	Result (pg/L)	Qualifier	RL
		2,2',4,5' - TeCB	49	0.757	UB	C		0.813		C		0.84	UR	CK		2.72		C		1.15	C		1.08
2,2',4,6' - TeCB	50	0.293	UR	CK		0.301	UR	CK		0.274	UR	CK		0.669		C		0.468	CK		0.304	CK	
2,2',4,6' - TeCB	51	U		C45		U		C45		U		C45		U		C45		U	C45		U	C45	
2,2',5,5' - TeCB	52	5.03	UB			1.97				1.63	UR	K		4.03				1.78			3.02		
2,2',5,6' - TeCB	53	U		C50		U		C50		U		C50		U		C50		U	C50		U	C50	
2,2',6,6' - TeCB	54	U		U	0.13	0.322	UR	K		0.174	UR	K		0.169	UR	K		0.283	K		U	0.255	
2,3,3',4' - TeCB	55	U		U	0.414	U		U	0.617	U		U	0.544	U		U	0.533	U	0.601		U	0.529	
2,3,3',4' - TeCB	56	0.474	UR	K		U		U	0.627	U		U	0.554	0.788	UR	K		U	0.611		U	0.541	
2,3,3',5' - TeCB	57	U		U	0.404	U		U	0.602	U		U	0.531	U		U	0.516	U	0.586		U	0.512	
2,3,3',5' - TeCB	58	U		U	0.404	U		U	0.602	U		U	0.531	U		U	0.518	U	0.587		U	0.507	
2,3,3',6' - TeCB	59	U		UC	0.144	U		UC	0.147	0.243	UR	CK		0.282	UR	CK		0.353	C		UC	0.213	
2,3,4,4' - TeCB	60	U		U	0.42	U		U	0.625	U		U	0.552	U		U	0.551	U	0.609		U	0.528	
2,3,4,5' - TeCB	61	3.14	UB	C		2.07		C		2.15	UR	CK		4.06		C		2.45	CK		2.98	C	
2,3,4,6' - TeCB	62	U		C59		U		C59		U		C59		U		C59		U	C59		U	C59	
2,3,4',5' - TeCB	63	U		U	0.393	U		U	0.585	U		U	0.516	U		U	0.52	U	0.57		U	0.499	
2,3,4',6' - TeCB	64	0.695				0.453	UR	K		0.434	UR	K		1.19	UR	K		0.676	K		0.785	K	
2,3,5,6' - TeCB	65	U		C44		U		C44		U		C44		U		C44		U	C44		U	C44	
2,3',4,4' - TeCB	66	0.927	UB			0.872				1.04				2.32	UR	K		0.945	K		1.32	K	
2,3',4,5' - TeCB	67	U		U	0.359	U		U	0.535	U		U	0.472	U		U	0.461	U	0.521		U	0.456	
2,3',4,5' - TeCB	68	U		U	0.365	U		U	0.543	U		U	0.48	19.4				0.712			0.708	K	
2,3',4,6' - TeCB	69	U		C49		U		C49		U		C49		U		C49		U	C49		U	C49	
2,3',4',5' - TeCB	70	U		C61		U		C61		U		C61		U		C61		U	C61		U	C61	
2,3',4',6' - TeCB	71	U		C40		U		C40		U		C40		U		C40		U	C40		U	C40	
2,3',5,5' - TeCB	72	U		U	0.375	U		U	0.559	U		U	0.494	U		U	0.495	U	0.545		U	0.492	
2,3',5,6' - TeCB	73	U		U	0.144	U		U	0.147	U		U	0.124	U		U	0.117	U	0.121		U	0.203	
2,4,4',5' - TeCB	74	U		C61		U		C61		U		C61		U		C61		U	C61		U	C61	
2,4,4',6' - TeCB	75	U		C59		U		C59		U		C59		U		C59		U	C59		U	C59	
2',3,4,5' - TeCB	76	U		C61		U		C61		U		C61		U		C61		U	C61		U	C61	
3,3',4,4' - TeCB	77	U		U	0.526	U		U	0.706	U		U	0.606	0.748	UR	K		U	0.673	0.657	K		
3,3',4,5' - TeCB	78	U		U	0.433	U		U	0.645	U		U	0.569	U		U	0.592	U	0.628		U	0.554	
3,3',4,5' - TeCB	79	U		U	0.351	U		U	0.523	U		U	0.462	U		U	0.475	U	0.51		U	0.462	
3,3',5,5' - TeCB	80	U		U	0.401	U		U	0.598	U		U	0.528	U		U	0.517	U	0.582		U	0.508	
3,4,4',5' - TeCB	81	U		U	0.489	U		U	0.698	U		U	0.601	U		U	0.605	U	0.636		U	0.542	
2,2',3,3',4' - PeCB (pentachloro)	82	0.454	UB			U		U	0.25	U		U	0.36	U		U	0.338	0.226			U	0.486	
2,2',3,3',5' - PeCB	83	1.86	UBR	CK		0.886		C		0.977		C		1.8		C		0.949	CK		0.91	C	
2,2',3,3',6' - PeCB	84	0.8	UB			0.338				0.397				0.832	UR	K		0.71	K		0.543	K	
2,2',3,4,4' - PeCB	85	0.681	UBR	CK		0.389	UR	CK		U		UC	0.268	0.727	UR	CK		0.312	CK		UC	0.357	
2,2',3,4,5' - PeCB	86	2.51	UR	CK		1.3	UR	CK		2.05		C		2.21		C		1.6	CK		2.09	CK	
2,2',3,4,5' - PeCB	87	U		C86		U		C86		U		C86		U		C86		U	C86		U	C86	
2,2',3,4,6' - PeCB	88	0.441	UBR	CK		0.39	UR	CK		U		UC	0.304	0.446	UR	CK		0.404	C		UC	0.421	
2,2',3,4,6' - PeCB	89	U		U	0.191	U		U	0.229	U		U	0.33	U		U	0.309	U	0.206		U	0.457	
2,2',3,4,5' - PeCB	90	3.26	UB	C		1.81	UR	CK		2.38		C		3.25	UR	CK		1.71	C		2.46	C	
2,2',3,4,6' - PeCB	91	U		C88		U		C88		U		C88		U		C88		U	C88		U	C88	
2,2',3,5,5' - PeCB	92	0.82				U		U	0.22	0.374				0.647				0.394	K		U	0.44	
2,2',3,5,6' - PeCB	93	4.41	UB	C		2.24		C		2.57	UR	CK		U		UC	0.274	1.98	C		1.96	C	
2,2',3,5,6' - PeCB	94	U		U	0.185	U		U	0.222	U		U	0.32	U		U	0.296	0.245	K		U	0.439	
2,2',3,5,6' - PeCB	95	U		C93		U		C93		U		C93		U		C93		U	C93		U	C93	
2,2',3,6,6' - PeCB	96	U		U	0.0145	0.074				U		U	0.012	U		U	0.202	U	0.0074		U	0.169	
2,2',3',4,5' - PeCB	97	U		C86		U		C86		U		C86		U		C86		U	C86		U	C86	
2,2',3',4,6' - PeCB	98	U		C93		U		C93		U		C93		U		C93		U	C93		U	C93	

**Table B-2
Spokane River - Upriver Dam
Summary of PCB Congeners in May 2003 Groundwater**

Well ID Sample ID Sample Date Quality Control Sample Type PCB Name	Congener Number	AN-EWGW AN-EW50GW-030612 6/12/2003 Field Duplicate				AN-D14 AN-D14TB-030515 5/15/2003 Trip Blank				AN-D16 AN-D16TB-030515 5/15/2003 Trip Blank				AN-D14 AN-D14RB-030513 5/15/2003 Rinse Blank				Method Blank WG9139-101 7/7/2003 Lab Blank			Method Blank WG9761-101 7/24/2003 Lab Blank		
		Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Qualifier	RL	Result (pg/L)	Qualifier	RL
		2,2',4,4',5 - PeCB	99	U		C83		U		C83		U		C83		U		C83			C83		
2,2',4,4',6 - PeCB	100	U		C93		U		C93		U		C93		U		C93			C93			C93	
2,2',4,5,5' - PeCB	101	U		C90		U		C90		U		C90		U		C90			C90			C90	
2,2',4,5,6' - PeCB	102	U		C93		U		C93		U		C93		U		C93			C93			C93	
2,2',4,5',6 - PeCB	103	U		U	0.159	U		U	0.191	U		U	0.274	U		U	0.25		U	0.172		U	0.375
2,2',4,6,6' - PeCB	104	0.141	UR	K		0.193	UR	K		U		U	0.0148	U		U	0.221	0.224	K			U	0.18
2,3,3',4,4' - PeCB	105	1.34	UR	K		0.595	UR	K		0.772	UR	K		1.82				0.687	K		0.927	K	
2,3,3',4,5 - PeCB	106	U		U	0.186	U		U	0.207	U		U	0.23	U		U	0.419		U	0.157		U	0.351
2,3,3',4',5 - PeCB	107	U		UC	0.201	U		UC	0.224	0.249	UR	CK		U		UC	0.428	0.321	CK			UC	0.393
2,3,3',4,5' - PeCB	108	U		C86		U		C86		U		C86		U		C86			C86			C86	
2,3,3',4,6 - PeCB	109	0.266				0.325				U		U	0.241	U		U	0.385		U	0.165		U	0.369
2,3,3',4',6 - PeCB	110	3.95	UB	C		1.12		C		2.09		C		2.72	UR	CK		1.57	CK		1.93	CK	
2,3,3',5,5' - PeCB	111	U		U	0.137	U		U	0.165	U		U	0.237	U		U	0.222		U	0.148		U	0.318
2,3,3',5,6 - PeCB	112	U		U	0.135	U		U	0.162	U		U	0.234	U		U	0.218		U	0.146		U	0.321
2,3,3',5',6 - PeCB	113	U		C90		U		C90		U		C90		U		C90			C90			C90	
2,3,4',4,5 - PeCB	114	0.234	UR	K		0.342	UR	K		0.346	UR	K		U		U	0.413	0.568	K			U	0.364
2,3,4',4,6 - PeCB	115	U		C110		U		C110		U		C110		U		C110			C110			C110	
2,3,4',5,6 - PeCB	116	U		C85		U		C85		U		C85		U		C85			C85			C85	
2,3,4',5,6 - PeCB	117	U		C85		U		C85		U		C85		U		C85			C85			C85	
2,3',4,4',5 - PeCB	118	2.55	UB			1.22				1.14				3.01				1.04	K		2.36		
2,3',4,4',6 - PeCB	119	U		C86		U		C86		U		C86		U		C86			C86			C86	
2,3',4,5,5' - PeCB	120	U		U	0.135	U		U	0.162	U		U	0.234	U		U	0.217		U	0.146		U	0.316
2,3',4,5',6 - PeCB	121	U		U	0.134	U		U	0.161	U		U	0.231	U		U	0.212		U	0.145		U	0.313
2',3,3',4,5 - PeCB	122	U		U	0.214	U		U	0.238	U		U	0.265	U		U	0.464	0.318	K			U	0.408
2',3,4',4',5 - PeCB	123	U		U	0.203	U		U	0.22	0.368	UR	K		U		U	0.408		U	0.17		U	0.357
2',3,4',5,5' - PeCB	124	U		C107		U		C107		U		C107		U		C107			C107			C107	
2',3,4',5,6' - PeCB	125	U		C86		U		C86		U		C86		U		C86			C86			C86	
3,3',4,4',5 - PeCB	126	U		U	0.266	U		U	0.273	U		U	0.283	U		U	0.514	0.34	K			U	0.441
3,3',4,5,5' - PeCB	127	U		U	0.209	U		U	0.233	U		U	0.258	U		U	0.435		U	0.176		U	0.394
2,2',3,3',4,4' - HxCB (hexachloro)	128	0.449	UBR	CK		0.21	UR	CK		0.645		C		0.653		C		0.408	CK		0.368	CK	
2,2',3,3',4,5 - HxCB	129	2.57		C		1.23	UR	CK		4.24		C		4.76		C		1.45	CK		3.54	C	
2,2',3,3',4,5' - HxCB	130	U		U	0.215	U		U	0.223	0.22		U		U		U	0.333	0.303	CK			U	0.394
2,2',3,3',4,6 - HxCB	131	U		U	0.197	U		U	0.204	0.131	UR	K		U		U	0.308		U	0.167		U	0.364
2,2',3,3',4,6' - HxCB	132	0.706	UR	K		0.447	UR	K		1.55				1.34	UR	K		0.481	K		1.38		
2,2',3,3',5,5' - HxCB	133	U		U	0.193	U		U	0.2	0.122	UR	K		U		U	0.301		U	0.163		U	0.357
2,2',3,3',5,6 - HxCB	134	U		UC	0.197	U		UC	0.205	0.025	UR	CK		U		UC	0.309		UC	0.168		UC	0.37
2,2',3,3',5,6' - HxCB	135	1.19	UR	CK		0.708		C		1.74		C		1.8		C		0.869	CK		1.61	CK	
2,2',3,3',6,6' - HxCB	136	0.489	UBR	K		0.228				0.478	UR	K		0.842				0.256			0.437		
2,2',3,4',4',5 - HxCB	137	0.264	UR	K		U		U	0.199	0.139	UR	K		U		U	0.286		U	0.163		U	0.358
2,2',3,4',4',5' - HxCB	138	U		C129		U		C129		U		C129		U		C129			C129			C129	
2,2',3,4',4',6 - HxCB	139	U		UC	0.178	U		UC	0.185	0.138	UR	CK		U		UC	0.278	0.195	C			UC	0.331
2,2',3,4',4',6' - HxCB	140	U		C139		U		C139		U		C139		U		C139			C139			C139	
2,2',3,4,5,5' - HxCB	141	0.401	UR	K		0.25	UR	K		1.15	UR	K		1.02				0.215	K		1.1		
2,2',3,4,5,6 - HxCB	142	U		U	0.2	U		U	0.208	0.121	UR	K		U		U	0.319		U	0.17		U	0.37
2,2',3,4,5,6' - HxCB	143	U		C134		U		C134		U		C134		U		C134			C134			C134	
2,2',3,4,5',6 - HxCB	144	0.172	UR	K		0.194	UR	K		0.299		K		0.347	UR	K		0.125	K		0.239	K	
2,2',3,4,6,6' - HxCB	145	U		U	0.0191	0.105	UR	K		U		U	0.0161	U		U	0.0879		U	0.0104		0.057	K
2,2',3,4',5,5' - HxCB	146	0.349	UBR	K		0.183	UR	K		0.651				0.718				0.266			0.751	K	
2,2',3,4',5,6 - HxCB	147	1.92	UB	C		1.35		C		3.94		C		3.86		C		1.2	C		3.03	CK	
2,2',3,4',5,6' - HxCB	148	U		U	0.0259	0.043	UR	K		U		U	0.0219	U		U	0.118	0.128	K		0.054	K	
2,2',3,4',5',6 - HxCB	149	U		C147		U		C147		U		C147		U		C147			C147			C147	
2,2',3,4',6,6' - HxCB	150	U		U	0.0182	U		U	0.0168	0.041	UR	K		U		U	0.0836	0.082	K		0.028	K	

**Table B-2
Spokane River - Upriver Dam
Summary of PCB Congeners in May 2003 Groundwater**

Well ID Sample ID Sample Date Quality Control Sample Type PCB Name	Congener Number	AN-EWGW AN-EW50GW-030612 6/12/2003 Field Duplicate				AN-D14 AN-D14TB-030515 5/15/2003 Trip Blank				AN-D16 AN-D16TB-030515 5/15/2003 Trip Blank				AN-D14 AN-D14RB-030513 5/15/2003 Rinse Blank				Method Blank WG9139-101 7/7/2003 Lab Blank			Method Blank WG9761-101 7/24/2003 Lab Blank		
		Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Qualifier	RL	Result (pg/L)	Qualifier	RL
		2,2',3,5,5',6' - HxCB	151	U		C135		U		C135		U		C135		U		C135			C135		C135
2,2',3,5,6,6' - HxCB	152	U		U	0.0178	0.062	UR	K		U		U	0.0151	U		U	0.0816		U	0.0097	0.099	K	
2,2',4,4',5,5' - HxCB	153	1.35	UB	C		1.39		C		4.27		C		4.43		C		1.14	CK		4.12	CK	
2,2',4,4',5,6' - HxCB	154	U		C135		U		C135		U		C135		U		C135			C135			C135	
2,2',4,4',6,6' - HxCB	155	0.122	UBR	K		0.178				0.259	UR	K		0.146	UR	K		0.183	K			U	0.0173
2,3,3',4,4',5' - HxCB	156	0.357	UBR	CK		0.587	UR	CK		0.662		C		1.01		C		0.968	C		0.494	CK	
2,3,3',4,4',5' - HxCB	157	U		C156		U		C156		U		C156		U		C156			C156			C156	
2,3,3',4,4',6' - HxCB	158	0.259	UBR	K		0.226	UR	K		0.397	UR	K		0.69	UR	K		0.368	K		0.417	K	
2,3,3',4,5,5' - HxCB	159	U		U	0.149	U		U	0.154	0.205	UR	K		U		U	0.228		U	0.126		U	0.267
2,3,3',4,5,6' - HxCB	160	U		C129		U		C129		U		C129		U		C129			C129			C129	
2,3,3',4,5',6' - HxCB	161	U		U	0.14	U		U	0.145	U		U	0.0101	U		U	0.219		U	0.119		U	0.257
2,3,3',4',5,5' - HxCB	162	U		U	0.147	U		U	0.152	0.148	UR	K		U		U	0.226	0.191	K			U	0.26
2,3,3',4',5,6' - HxCB	163	U		C129		U		C129		U		C129		U		C129			C129			C129	
2,3,3',4',5',6' - HxCB	164	0.168				0.182				0.513	UR	K		0.328	UR	K		0.219	K		0.292	K	
2,3,3',5,5',6' - HxCB	165	U		U	0.15	U		U	0.156	U		U	0.0108	U		U	0.239		U	0.127		U	0.284
2,3,4,4',5,6' - HxCB	166	U		C128		U		C128		U		C128		U		C128			C128			C128	
2,3',4,4',5,5' - HxCB	167	0.185	UR	K		0.223	UR	K		0.329				0.477	UR	K		0.38	K		0.351	K	
2,3',4,4',5',6' - HxCB	168	U		C153		U		C153		U		C153		U		C153			C153			C153	
3,3',4,4',5,5' - HxCB	169	U		U	0.174	U		U	0.689	U		U	0.0116	U		U	0.386		U	0.354		U	0.31
2,2',3,3',4,4',5' - HpCB (heptachloro)	170	0.495	UBR	K		0.547				1.69	UR	K		1.06				0.435			1.09	K	
2,2',3,3',4,4',6' - HpCB	171	0.24		C		0.453		C		0.376		CK		0.926	UR	CK		0.488	CK		0.283	CK	
2,2',3,3',4,5,5' - HpCB	172	U		U	0.0314	U		U	0.0327	0.469	UR	K		0.163	UR	K		0.056	K			U	0.0391
2,2',3,3',4,5,6' - HpCB	173	U		C171		U		C171		U		C171		U		C171			C171			C171	
2,2',3,3',4,5,6' - HpCB	174	0.27				0.295				1.98				2.03				0.359	K		1.73		
2,2',3,3',4,5',6' - HpCB	175	U		U	0.0274	0.158	UR	K		0.122	UR	K		U		U	0.0683		U	0.019		U	0.0343
2,2',3,3',4,6,6' - HpCB	176	U		U	0.0207	0.076	UR	K		0.34	UR	K		0.219	UR	K		0.216	K		0.262		
2,2',3,3',4',5,6' - HpCB	177	0.215	UR	K		0.212				1.22	UR	K		0.832	UR	K		0.166	K		0.497	K	
2,2',3,3',5,5',6' - HpCB	178	U		U	0.0281	0.068	UR	K		0.326				0.338	UR	K			U	0.0194	0.424	K	
2,2',3,3',5,6,6' - HpCB	179	U		U	0.0195	0.234	UR	K		0.962	UR	K		0.582	UR	K		0.385	K		0.924		
2,2',3,4,4',5,5' - HpCB	180	0.395		C		1.09	UR	CK		3.99		C		3.09		C		0.861	CK		3.04	C	
2,2',3,4,4',5,6' - HpCB	181	U		U	0.0277	U		U	0.0288	U		U	0.0235	U		U	0.0691		U	0.0192		U	0.0348
2,2',3,4,4',5,6' - HpCB	182	0.161	UR	K		0.139				0.181	UR	K		U		U	0.0687	0.122	K			U	0.0345
2,2',3,4,4',5',6' - HpCB	183	0.323		C		0.273	UR	CK		1.76	UR	CK		1.3		C		0.79	CK		0.866	C	
2,2',3,4,4',6,6' - HpCB	184	U		U	0.0187	0.073	UR	K		U		U	0.0159	0.142	UR	K		0.119	K		0.084	K	
2,2',3,4,5,5',6' - HpCB	185	U		C183		U		C183		U		C183		U		C183			C183			C183	
2,2',3,4,5,6,6' - HpCB	186	U		U	0.0205	0.052	UR	K		0.044	UR	K		U		U	0.0524		U	0.0142	0.036	K	
2,2',3,4',5,5',6' - HpCB	187	0.478	UR	K		0.303				2.33	UR	K		1.87				0.437	K		2.09		
2,2',3,4',5,6,6' - HpCB	188	0.135	UR	K		0.156	UR	K		0.055	UR	K		0.081	UR	K		0.022	K		0.041	K	
2,3,3',4,4',5,5' - HpCB	189	0.074	UB			0.292	UR	K		0.127	UR	K		0.511				0.53			0.203	K	
2,3,3',4,4',5,6' - HpCB	190	0.068	UR	K		0.08				0.321				0.298	UR	K		0.19	K		0.282	K	
2,3,3',4,4',5',6' - HpCB	191	0.095	UR	K		0.066	UR	K		0.137	UR	K		0.235	UR	K		0.16	K		0.12	K	
2,3,3',4,5,5',6' - HpCB	192	U		U	0.0245	U		U	0.0255	0.13	UR	K		U		U	0.0603	0.212	K			U	0.0297
2,3,3',4',5,5',6' - HpCB	193	U		C180		U		C180		U		C180		U		C180			C180			C180	
2,2',3,3',4,4',5,5' - OcCB (octachloro)	194	0.056	UB			0.245	UR	K		1.23	UR	K		0.603	UR	K		0.605			0.346	K	
2,2',3,3',4,4',5,6' - OcCB	195	0.097	UR	K		0.223	UR	K		0.325	UR	K		0.24	UR	K		0.264	K		0.18	K	
2,2',3,3',4,4',5,6' - OcCB	196	0.164	UR	K		U		U	0.0291	0.494				0.27	UR	K		0.241	K		0.389	K	
2,2',3,3',4,4',6,6' - OcCB	197	0.143	UR	CK		0.152	UR	CK		0.224	UR	CK		0.249	UR	CK		0.382	CK		0.155	CK	
2,2',3,3',4,5,5',6' - OcCB	198	0.257	UR	CK		0.523	UR	CK		0.814	UR	CK		0.444	UR	CK		0.653	CK		0.745	CK	
2,2',3,3',4,5,5',6' - OcCB	199	U		C198		U		C198		U		C198		U		C198			C198			C198	
2,2',3,3',4,5,6,6' - OcCB	200	U		C197		U		C197		U		C197		U		C197			C197			C197	
2,2',3,3',4,5',6,6' - OcCB	201	U		U	0.032	0.088	UR	K		0.077	UR	K		0.14				0.243	K			U	0.0266
2,2',3,3',5,5',6,6' - OcCB	202	0.075	UR	K		0.221	UR	K		0.318	UR	K		0.266	UR	K		0.261	K			U	0.0285
2,2',3,4,4',5,5',6' - OcCB	203	U		U	0.0408	0.226	UR	K		0.555				0.493	UR	K		0.25	K			U	0.0336
2,2',3,4,4',5,6,6' - OcCB	204	U		U	0.0312	U		U	0.0205	U		U	0.0149	0.304					U	0.0122	0.15	K	

Table B-2
Spokane River - Upriver Dam
Summary of PCB Congeners in May 2003 Groundwater

Well ID Sample ID Sample Date Quality Control Sample Type PCB Name	Congener Number	AN-EWGW AN-EW50GW-030612 6/12/2003 Field Duplicate				AN-D14 AN-D14TB-030515 5/15/2003 Trip Blank				AN-D16 AN-D16TB-030515 5/15/2003 Trip Blank				AN-D14 AN-D14RB-030513 5/15/2003 Rinse Blank				Method Blank WG9139-101 7/7/2003 Lab Blank			Method Blank WG9761-101 7/24/2003 Lab Blank		
		Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Validation Qualifier	Laboratory Qualifier	RL	Result (pg/L)	Qualifier	RL	Result (pg/L)	Qualifier	RL
2,3,3',4,4',5,5',6 - OcCB	205	0.159	UR	K		0.332	UR	K		0.096	UR	K		0.465	UR	K		0.456	K			U	0.0271
2,2',3,3',4,4',5,5',6 - NoCB (nonachloro)	206	U		U	1.62	U		U	1.2	U		U	1.17	0.653	UR	K			U	0.99		U	0.772
2,2',3,3',4,4',5,6,6' - NoCB	207	U		U	1.22	U		U	0.918	U		U	0.9	U		U	0.439		U	0.765		U	0.609
2,2',3,3',4,5,5',6,6' - NoCB	208	U		U	1.32	U		U	0.999	U		U	0.986	U		U	0.467		U	0.841		U	0.63
2,2',3,3',4,4',5,5',6,6' - DeCB (decachloro)	209	0.457	UR	K		0.942	UR	K		0.785				1.02				0.832	K		0.817		
Congener Totals (picograms/liter)																							
Monochlorobiphenyl (total)		0.00				1.76				2.02				9.67				7.77			8.77		
Dichlorobiphenyl (total)		4.01				0.00				2.12				39.96				8.48			42.04		
Trichlorobiphenyl (total)		1.68				5.91				4.80				28.56				12.66			17.00		
Tetrachlorobiphenyl (total)		1.12				7.04				1.04				107.52				17.69			16.66		
Pentachlorobiphenyl (total)		1.09				6.20				9.41				9.49				13.60			13.18		
Hexachlorobiphenyl (total)		2.74				4.04				18.55				19.09				9.43			18.37		
Heptachlorobiphenyl (total)		1.23				2.03				6.99				9.86				5.55			11.97		
Octachlorobiphenyl (total)		0.00				0.00				1.05				0.44				3.36			1.97		
Nonachlorobiphenyl (total)		0.00				0.00				0.00				0.00				0.00			0.00		
Decachlorobiphenyl (total)		0.00				0.00				0.00				1.02				0.83			0.82		
Total PCB congeners		11.9				27.0				46.0				226				79.4			131		

pg/L = picograms / liter

RL = laboratory reporting limit

U = not detected

UB = not detected, detected in laboratory method blank

UB1 = not detected, detected in tubing rinsate blank

UB2 = not detected, detected in associated field blank

UR = not detected, result rejected due to ion abundance ra

Cxx = co-elutes with congener number indicated by "xx"

K = target compound could not be confirmed by satisfying

**Table B-3
Summary of PCB Congener Data from May 2003 Groundwater Sampling at Upriver Dam**

Well ID Sample ID Sample Date Sample Type (QC / Field) Units PCB Name Congener Number	D-16 AN-D16GW-030904 9/3/2003 Field Sample pg/L Result	D-16 (duplicate) AN-D66GW-030904 9/3/2003 Field Duplicate pg/L Result	Electric Well AN-EWGW-030904 9/3/2003 Field Sample pg/L Result	Electric Well (duplicate) AN-EW50GW-030904 9/3/2003 Field Duplicate pg/L Result	Equipment Blank 8/28/2004 Tubing Proof pg/L Result	AN-D16GWTB-030904 9/3/2003 Trip Blank pg/L Result	Lab Blank N/AP Lab Blank pg/L Detected Result
Congener Totals (picograms/liter)							
Monochlorobiphenyl (total)	2.10	1.98	2.41	1.56	4.63	2.54	0.471
Dichlorobiphenyl (total)	0.00	0.00	0.00	2.47	21.93	6.06	3.28
Trichlorobiphenyl (total)	3.79	3.50	1.25	0.29	26.56	4.14	1.503
Tetrachlorobiphenyl (total)	67.76	67.28	2.81	3.06	29.30	6.45	3.078
Pentachlorobiphenyl (total)	21.12	19.45	7.38	10.45	16.28	0.22	0.487
Hexachlorobiphenyl (total)	3.98	4.18	2.85	0.90	15.37	0.88	0.507
Heptachlorobiphenyl (total)	14.20	3.33	0.53	0.00	0.62	0.04	0.046
Octachlorobiphenyl (total)	1.63	0.95	0.00	0.00	0.40	0.40	0
Nonachlorobiphenyl (total)	1.45	0.00	0.00	0.00	0.00	0.43	0
Decachlorobiphenyl (total)	0.00	0.00	0.00	0.00	0.61	0.00	0
Total PCB congeners	116.0	100.7	17.2	18.7	115.7	21.2	9.372
EPA's Maximum Contaminant Level*	500,000	500,000	500,000	500,000	--	--	--

* EPA's Maximum Contaminant Level from the Safe Drinking Water Act

Table B-4
Upriver Dam RI/FS - PCB Congeners in Groundwater (pg/L) from September 2003 Sampling Event

Well ID Sample ID Sample Date Sample Type (QC / Field) Units Congener Number	PCB ID	D-16 AN-D16GW-030904 9/3/2003 Field Sample pg/L	D-16 AN-D66GW-030904 9/3/2003 Field Duplicate pg/L	Electric Well AN-EWGW-030904 9/3/2003 Field Sample pg/L	Electric Well AN-EW50GW-030904 9/3/2003 Field Duplicate pg/L	Equipment Blank 8/28/2004 Tubing Proof pg/L	AN-D16GWTB-030904 9/3/2003 Trip Blank pg/L	Lab Blank N/AP Lab Blank pg/L	Matrix Spike N/AP % REC
PCB-1	2 - MoCB	1.72 UB	2.43 UB	1.16 UB	0.872 UB	2.28	1.3	K0.417	105
PCB-2	3 - MoCB	0.683 UB	0.897 UB	0.947 UB	0.791 UB	2.35	1.24	0.471	
PCB-3	4 - MoCB	2.1	1.98	2.41	1.56	K5.09	K2.26	K1.10	105
PCB-4	2,2' - DiCB	<1.85	<2.32	<4.71	<1.99	4.29	<3.47	<1.17	113
PCB-5	2,3 - DiCB	<1.43	<1.63	<3.54	<1.54	<1.24	<2.72	<0.995	
PCB-6	2,3' - DiCB	<1.35	<1.54	<3.35	<1.46	2.06	<2.53	<0.925	
PCB-7	2,4 - DiCB	2.49 UB	<1.52	<3.29	2.82 UB	2.57	6.06	1.49	
PCB-8	2,4' - DiCB	3.46 UB	3.48 UB	<3.13	2.47	8.4	<2.39	<0.876	
PCB-9	2,5 - DiCB	<1.33	<1.52	<3.30	<1.44	K1.71	<2.44	<0.892	
PCB-10	2,6 - DiCB	<1.38	<1.57	<3.41	<1.48	<1.24	<2.46	<0.900	
PCB-11	3,3' - DiCB	4.71 UB	5.11 UB	<3.39	2.96 UB	K16.6	K6.14	1.79	
PCB-12/13	3,4 - DiCB	<1.37	<1.56	<3.39	<1.47	<1.24	<2.79	<1.02	
PCB-14	3,5 - DiCB	<1.37	<1.56	<3.39	<1.48	<1.19	<2.74	<1.00	
PCB-15	4,4' - DiCB	4.05 UB	4.3 UB	<4.60	<2.04	4.61	<3.93	<1.53	115
PCB-16	2,2',3 - TriCB	K1.11	1.18 UB	K0.809	K0.865	2.13	K1.39	K0.282	
PCB-17	2,2',4 - TriCB	K1.55	1.16 UB	0.695 UB	0.86 UB	2.82	1.35	K0.380	
PCB-18/30	2,2',5 - TriCB	3.02 UB	2.17 UB	1.25	K2.16	4.64	K2.69	K0.535	
PCB-19	2,2',6 - TriCB	0.534 UB	K0.324	K0.480	K0.292	2.26	<0.580	K0.203	100
PCB-20/28	2,3,3' - TriCB	5.94 UB	K5.81	K1.34	K1.81	K5.87	2.14	K0.620	
PCB-21/33	2,3,4 - TriCB	2.79 UB	2.68 UB	K0.977	1.05 UB	3.86	K1.60	0.403	
PCB-22	2,3,4' - TriCB	1.45 UB	K1.25	K0.637	0.568 UB	1.81	K1.27	0.403	
PCB-23	2,3,5 - TriCB	<0.147	<0.206	<0.381	<0.165	<0.373	<0.431	<0.190	
PCB-24	2,3,6 - TriCB	<0.136	<0.141	<0.181	<0.0899	<0.137	<0.412	<0.125	
PCB-25	2,3',4 - TriCB	K0.275	0.296 UB	<0.340	K0.215	0.811	<0.382	<0.168	
PCB-26/29	2,3',5 - TriCB	0.801 UB	0.762 UB	<0.375	K0.533	1.66	0.648	<0.186	
PCB-27	2,3',6 - TriCB	0.263	K0.263	<0.184	K0.129	K0.391	<0.410	<0.125	
PCB-31	2,4',5 - TriCB	K6.14	6.21 UB	K1.19	1.65 UB	4.91	K2.34	0.697	
PCB-32	2,4',6 - TriCB	0.766 UB	0.809 UB	<0.363	K0.591	1.66	K0.582	<0.172	
PCB-34	2',3,5 - TriCB	<0.144	<0.202	<0.373	<0.161	<0.371	<0.427	<0.188	
PCB-35	3,3',4 - TriCB	<0.150	<0.209	<0.387	<0.167	K0.601	<0.527	<0.231	
PCB-36	3,3',5 - TriCB	<0.137	<0.192	<0.355	<0.154	<0.351	<0.458	<0.201	
PCB-37	3,4,4' - TriCB	3.53	3.5	<0.435	0.29	K1.99	<0.638	<0.288	118
PCB-38	3,4,5 - TriCB	<0.141	<0.197	<0.365	<0.158	<0.357	<0.475	<0.209	
PCB-39	3,4',5 - TriCB	<0.134	<0.187	<0.346	<0.150	K0.416	<0.448	<0.197	
PCB-40/41/71	2,2',3,3' - TeCB	1.02 UB	1.16 UB	K0.557	K0.694	K2.71	K0.944	0.335	
PCB-42	2,2',3,4' - TeCB	K0.578	K0.627	K0.258	K0.270	K1.22	K0.182	K0.150	
PCB-43	2,2',3,5 - TeCB	K0.062	<0.0090	K0.047	K0.024	<0.364	K0.086	<0.0138	
PCB-44/47/65	2,2',3,5' - TeCB	10.5 UB	10.5 UB	1.73	1.48	12.1	K2.50	K0.681	
PCB-45/51	2,2',3,6 - TeCB	39.1	38.5	K0.283	K0.300	K9.14	0.405	K0.054	
PCB-46	2,2',3,6' - TeCB	K0.276	K0.150	K0.067	K0.132	<0.375	K0.198	K0.020	
PCB-48	2,2',4,5 - TeCB	K0.263	K0.493	K0.119	K0.310	K0.723	K0.500	K0.124	
PCB-49/69	2,2',4,5' - TeCB	3.9 UB	K3.21	K0.848	K0.904	2.31	1.29	0.416	
PCB-50/53	2,2',4,6 - TeCB	0.828 UB	0.544 UB	0.306 UB	0.357 UB	1.39	0.695	K0.240	
PCB-52	2,2',5,5' - TeCB	7.66 UB	6.73 UB	3.28 UB	3.41 UB	4.51	3.73	1.43	
PCB-54	2,2',6,6' - TeCB	K0.040	K0.062	K0.047	K0.062	0.44	K0.023	K0.020	102
PCB-55	2,3,3',4 - TeCB	<0.281	<0.140	<0.216	<0.0985	<0.941	<0.0248	<0.0128	
PCB-56	2,3,3',4' - TeCB	1.49	1.28	0.446 UB	K0.353	K2.18	0.223	K0.181	
PCB-57	2,3,3',5 - TeCB	<0.278	<0.139	<0.214	<0.0975	<0.897	<0.0243	K0.015	
PCB-58	2,3,3',5' - TeCB	<0.274	<0.136	<0.210	<0.0959	<0.892	<0.0232	<0.0120	
PCB-59/62/75	2,3,3',6 - TeCB	0.375 UB	K0.298	K0.143	K0.107	1.01	<0.0298	<0.0093	

Table B-4
Upriver Dam RI/FS - PCB Congeners in Groundwater (pg/L) from September 2003 Sampling Event

Well ID Sample ID Sample Date Sample Type (QC / Field) Units Congener Number	PCB ID	D-16 AN-D16GW-030904 9/3/2003 Field Sample pg/L	D-16 AN-D66GW-030904 9/3/2003 Field Duplicate pg/L	Electric Well AN-EWGW-030904 9/3/2003 Field Sample pg/L	Electric Well AN-EW50GW-030904 9/3/2003 Field Duplicate pg/L	Equipment Blank 8/28/2004 Tubing Proof pg/L	AN-D16GWTB-030904 9/3/2003 Trip Blank pg/L	Lab Blank N/AP Lab Blank pg/L	Matrix Spike N/AP % REC
PCB-60	2,3,4,4' - TeCB	1.56	1.83	0.238	0.268	K1.43	K0.223	K0.126	
PCB-61/70/74/76	2,3,4,5 - TeCB	12 UB	11.2 UB	K2.32	1.62 UB	5.58	K1.52	0.787	
PCB-63	2,3,4,5 - TeCB	K0.728	0.798	<0.205	<0.0932	<0.853	K0.098	<0.0119	
PCB-64	2,3,4,6 - TeCB	9.07	9.07	K0.457	0.418	K1.38	K0.595	K0.236	
PCB-66	2,3,4,4' - TeCB	14	13.6	0.837	0.666	K3.55	K0.699	K0.237	
PCB-67	2,3,4,5 - TeCB	<0.251	<0.125	<0.193	<0.0879	<0.817	0.109	<0.0110	
PCB-68	2,3,4,5' - TeCB	3.42 UB	3.41 UB	<0.205	<0.0934	1.96	K0.127	0.11	
PCB-72	2,3,5,5' - TeCB	<0.267	<0.133	<0.205	<0.0936	<0.869	K0.070	<0.0115	
PCB-73	2,3,5,6 - TeCB	K0.105	K0.073	K0.054	0.037	<0.241	K0.096	K0.046	
PCB-77	3,3,4,4' - TeCB	2.54	2.2	<0.218	0.186	K1.24	K0.640	K0.226	111
PCB-78	3,3,4,5 - TeCB	<0.282	<0.140	<0.217	<0.0987	<0.947	<0.0272	<0.0140	
PCB-79	3,3,4,5' - TeCB	<0.237	<0.118	<0.182	<0.0829	<0.805	K0.036	K0.067	
PCB-80	3,3,5,5' - TeCB	<0.258	<0.128	<0.198	<0.0904	<0.855	<0.0231	<0.0119	
PCB-81	3,4,4,5 - TeCB	<0.324	K0.209	<0.236	<0.111	<0.941	K0.120	K0.066	114
PCB-82	2,2',3,3',4 - PeCB	K0.904	0.818 UB	K0.357	K0.259	0.648	<0.0582	K0.045	
PCB-83/99	2,2',3,3',5 - PeCB	4.78	3.96	1.19	0.922	K1.28	K0.449	K0.181	
PCB-84	2,2',3,3',6 - PeCB	2.24	1.62	0.721	0.632	K0.732	K0.382	K0.106	
PCB-85/116/117	2,2',3,4,4' - PeCB	4.84	5.42	K0.374	K0.327	K0.662	K0.284	K0.076	
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	5.09 UB	4.53 UB	K1.85	1.44	2.74	K0.422	<0.0168	
PCB-88/91	2,2',3,4,6 - PeCB	1.21	1.04	0.539	K0.314	<0.265	K0.377	K0.075	
PCB-89	2,2',3,4,6' - PeCB	K0.126	K0.081	K0.052	K0.049	<0.280	K0.089	<0.0206	
PCB-90/101/113	2,2',3,4,5' - PeCB	8.93 UB	8.19 UB	2.34	1.88	2.43	K1.06	K0.368	
PCB-92	2,2',3,5,5' - PeCB	1.51	1.54	K0.506	K0.484	K0.384	K0.280	K0.077	
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	6.54	5.42	2.59	2.42	K1.67	K0.120	K0.111	
PCB-94	2,2',3,5,6' - PeCB	<0.114	K0.046	K0.047	<0.0092	<0.276	<0.0500	<0.0202	
PCB-96	2,2',3,6,6' - PeCB	K0.047	0.046	K0.033	K0.015	K0.250	K0.135	K0.024	
PCB-103	2,2',4,5,6 - PeCB	<0.0990	K0.065	K0.035	K0.031	<0.241	<0.0428	<0.0173	
PCB-104	2,2',4,6,6' - PeCB	K0.082	K0.020	K0.116	K0.018	K0.133	K0.108	K0.014	95.4
PCB-105	2,3,3',4,4' - PeCB	7.84 UB	7.14 UB	K1.04	0.766	2	K0.697	<0.115	110
PCB-106	2,3,3',4,5 - PeCB	<0.178	<0.122	<0.0916	<0.0052	<0.308	<0.0315	<0.0924	
PCB-107/124	2,3,3',4,5' - PeCB	0.836 UB	K0.739	<0.0994	0.138	0.469	K0.052	<0.101	
PCB-109	2,3,3',4,6 - PeCB	K1.17	<0.130	K0.146	0.059 UB	0.479	0.063	<0.0962	
PCB-110/115	2,3,3',4,6' - PeCB	13.3 UB	12.2 UB	K3.30	2.25	3.66	K1.11	K0.375	
PCB-111	2,3,3',5,5' - PeCB	<0.0777	<0.0253	<0.0084	K0.014	<0.203	<0.0358	<0.0145	
PCB-112	2,3,3',5,6 - PeCB	<0.0818	K0.058	K0.021	<0.0066	<0.194	<0.0382	0.017	
PCB-114	2,3,4,4,5 - PeCB	K0.639	0.402	<0.103	K0.070	<0.308	K0.314	<0.0985	106
PCB-118	2,3,4,4,5' - PeCB	13.4 UB	12 UB	1.99 UB	1.45 UB	3.21	K0.726	0.47	111
PCB-120	2,3,4,5,5' - PeCB	<0.0764	<0.0249	<0.0082	<0.0062	<0.194	0.155	K0.033	
PCB-121	2,3,4,5,6 - PeCB	<0.0801	<0.0261	<0.0086	K0.022	<0.199	<0.0350	K0.045	
PCB-122	2',3,3',4,5 - PeCB	<0.206	K0.168	<0.106	K0.037	K0.435	K0.079	<0.104	
PCB-123	2',3,4,4,5 - PeCB	K0.982	K0.992	<0.105	K0.048	K0.486	<0.0388	K0.121	111
PCB-126	3,3',4,4,5 - PeCB	<0.265	<0.159	<0.117	K0.046	0.648	K0.144	K0.235	108
PCB-127	3,3',4,5,5' - PeCB	<0.201	<0.137	<0.103	<0.0059	<0.318	<0.0338	<0.0991	
PCB-128/166	2,2',3,3',4,4' - HxCB	3.71 UB	2.88 UB	0.416	K0.308	1.22	K0.088	0.079	
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	15.6 UB	12.7 UB	K2.19	K1.45	4.11	0.784	<0.0254	
PCB-130	2,2',3,3',4,5' - HxCB	K0.987	0.748	0.105	K0.193	K0.423	<0.0625	<0.0314	
PCB-131	2,2',3,3',4,6 - HxCB	<0.268	<0.214	K0.034	K0.138	<0.241	<0.0572	<0.0287	
PCB-132	2,2',3,3',4,6' - HxCB	K3.17	K2.37	K0.644	0.499	1.59	K0.251	<0.0291	
PCB-133	2,2',3,3',5,5' - HxCB	<0.245	<0.195	<0.0126	K0.021	<0.230	<0.0568	<0.0285	
PCB-134/143	2,2',3,3',5,6 - HxCB	K0.519	<0.205	0.214	K0.070	K0.379	K0.088	<0.0309	

Table B-4
Upriver Dam RI/FS - PCB Congeners in Groundwater (pg/L) from September 2003 Sampling Event

Well ID Sample ID Sample Date Sample Type (QC / Field) Units Congener Number	PCB ID	D-16 AN-D16GW-030904 9/3/2003 Field Sample pg/L	D-16 AN-D66GW-030904 9/3/2003 Field Duplicate pg/L	Electric Well AN-EWGW-030904 9/3/2003 Field Sample pg/L	Electric Well AN-EW50GW-030904 9/3/2003 Field Duplicate pg/L	Equipment Blank 8/28/2004 Tubing Proof pg/L	AN-D16GWTB-030904 9/3/2003 Trip Blank pg/L	Lab Blank N/AP Lab Blank pg/L	Matrix Spike N/AP % REC
PCB-135/151/154	2,2',3,3',5,6' - HxCB	K2.68	2.16	0.603	K0.467	K1.06	<0.0566	0.063	
PCB-136	2,2',3,3',6,6' - HxCB	0.983	K0.640	K0.178	K0.187	K0.311	<0.0400	K0.045	
PCB-137	2,2',3,4,4',5 - HxCB	K1.08	0.734 UB	K0.106	<0.0083	0.496	<0.0586	<0.0294	
PCB-139/140	2,2',3,4,4',6 - HxCB	0.28	<0.181	<0.0117	K0.039	<0.222	<0.0529	K0.071	
PCB-141	2,2',3,4,5,5' - HxCB	1.71	1.27	<0.0123	K0.239	K0.620	K0.340	<0.0293	
PCB-142	2,2',3,4,5,6 - HxCB	<0.245	<0.195	<0.0126	K0.012	<0.245	<0.0566	<0.0284	
PCB-144	2,2',3,4,5',6 - HxCB	K0.292	K0.220	<0.0162	K0.041	K0.084	<0.0586	<0.0344	
PCB-145	2,2',3,4,6,6' - HxCB	<0.0111	<0.0072	<0.0125	<0.0108	K0.153	<0.0437	<0.0256	
PCB-146	2,2',3,4',5,5' - HxCB	2.04 UB	1.55 UB	K0.137	0.237	0.793	<0.0482	<0.0242	
PCB-147/149	2,2',3,4',5,6 - HxCB	6.6 UB	K4.66	1.47	K1.08	2.33	K0.847	K0.367	
PCB-148	2,2',3,4',5,6' - HxCB	<0.0146	<0.0094	<0.0164	K0.035	K0.146	<0.0594	<0.0348	
PCB-150	2,2',3,4',6,6' - HxCB	K0.051	K0.024	<0.0119	<0.0103	K0.178	<0.0406	K0.024	
PCB-152	2,2',3,5,6,6' - HxCB	K0.063	<0.0068	K0.012	K0.019	0.064	<0.0364	<0.0213	
PCB-153/168	2,2',4,4',5,5' - HxCB	8.36 UB	6.31 UB	1.24 UB	0.913 UB	2.87	K0.737	0.365	
PCB-155	2,2',4,4',6,6' - HxCB	K0.061	0.033 UB	<0.0129	K0.107	K0.095	0.094	K0.063	96.2
PCB-156/157	2,3,3',4,4',5 - HxCB	1.8 UB	1.44 UB	K0.346	K0.271	1.04	K0.110	K0.117	100
PCB-158	2,3,3',4,4',6 - HxCB	K1.26	0.867 UB	K0.226	0.144	0.527	<0.0413	<0.0207	
PCB-159	2,3,3',4,5,5' - HxCB	<0.183	<0.146	<0.0094	K0.015	K0.314	<0.0449	<0.0226	
PCB-161	2,3,3',4,5',6 - HxCB	<0.178	<0.142	0.041	<0.0059	K0.212	<0.0406	<0.0204	
PCB-162	2,3,3',4',5,5' - HxCB	<0.176	<0.140	K0.036	0.016	<0.171	<0.0458	<0.0230	
PCB-164	2,3,3',4',5',6 - HxCB	1.01	K0.766	K0.171	<0.0060	K0.202	K0.323	K0.057	
PCB-165	2,3,3',5,5',6 - HxCB	<0.194	<0.154	<0.0100	K0.036	<0.185	K0.048	<0.0228	
PCB-167	2,3',4,4',5,5' - HxCB	K0.717	0.643 UB	K0.127	K0.075	0.329	K0.056	<0.0178	101
PCB-169	3,3',4,4',5,5' - HxCB	K0.424	<0.153	<0.0250	<0.0058	K0.695	<0.104	<0.107	104
PCB-170	2,2',3,3',4,4',5 - HpCB	K2.21	1.61	0.411	K0.172	K0.564	<0.0631	K0.044	
PCB-171/173	2,2',3,3',4,4',6 - HpCB	0.573	K0.393	K0.046	K0.021	<0.0653	<0.0665	0.046	
PCB-172	2,2',3,3',4,5,5' - HpCB	0.533	K0.384	K0.071	<0.0122	<0.0662	<0.0694	<0.0291	
PCB-174	2,2',3,3',4,5,6' - HpCB	1.69	K1.23	K0.274	K0.085	K0.345	<0.0686	<0.0287	
PCB-175	2,2',3,3',4,5',6 - HpCB	<0.0139	K0.035	0.038	<0.0111	K0.278	<0.0716	<0.0300	
PCB-176	2,2',3,3',4,6,6' - HpCB	<0.0105	0.14	K0.051	<0.0084	K0.093	<0.0480	<0.0201	
PCB-177	2,2',3,3',4',5,6 - HpCB	1.49	0.881	K0.241	K0.173	<0.0621	<0.0671	K0.066	
PCB-178	2,2',3,3',5,5',6 - HpCB	0.792	K0.662	<0.0144	<0.0114	<0.0634	K0.090	<0.0292	
PCB-179	2,2',3,3',5,6,6' - HpCB	0.693	K0.618	<0.0105	K0.098	<0.0468	<0.0484	K0.065	
PCB-180/193	2,2',3,4,4',5,5' - HpCB	3.94	K3.42	K0.423	K0.340	K0.951	K0.359	<0.0213	
PCB-181	2,2',3,4,4',5,6 - HpCB	K0.100	K0.027	K0.030	K0.033	K0.064	<0.0612	<0.0256	
PCB-182	2,2',3,4,4',5,6' - HpCB	0.097	K0.019	0.034	K0.018	<0.0611	K0.113	<0.0282	
PCB-183/185	2,2',3,4,4',5,6 - HpCB	1.21	0.695	0.042	K0.076	<0.0602	<0.0648	<0.0271	
PCB-184	2,2',3,4,4',6,6' - HpCB	K0.065	K0.043	K0.037	<0.0080	<0.0459	0.044	<0.0181	
PCB-186	2,2',3,4,5,6,6' - HpCB	K0.028	K0.031	<0.0108	<0.0085	K0.155	<0.0470	<0.0197	
PCB-187	2,2',3,4',5,5',6 - HpCB	3.18	K2.91	K0.319	K0.201	0.618	K0.110	K0.261	
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.089	K0.014	K0.031	<0.0084	K0.107	<0.0385	<0.0162	92.6
PCB-189	2,3,3',4,4',5,5' - HpCB	K0.357	K0.162	K0.096	<0.0538	<0.0594	K0.160	<0.0238	112
PCB-190	2,3,3',4,4',5,6 - HpCB	K0.589	K0.470	K0.056	K0.053	<0.0535	<0.0466	K0.054	
PCB-191	2,3,3',4,4',5,6 - HpCB	K0.132	K0.080	K0.020	<0.0088	K0.116	<0.0484	<0.0203	
PCB-192	2,3,3',4,5,5',6 - HpCB	K0.043	<0.0093	K0.012	<0.0093	K0.076	<0.0536	<0.0224	
PCB-194	2,2',3,3',4,4',5,5' - OcCB	K1.09	K0.863	K0.160	<0.0067	<0.0654	<0.0439	K0.031	
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K0.628	K0.408	K0.015	<0.0072	<0.0679	<0.0466	<0.0255	
PCB-196	2,2',3,3',4,4',5,6' - OcCB	0.465	0.251	<0.0195	<0.0130	K0.398	<0.0763	<0.0304	
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	<0.0131	K0.029	<0.0145	<0.0097	<0.0648	<0.0560	<0.0224	
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	K1.49	K1.25	K0.206	<0.0128	K0.291	0.267	K0.073	

Table B-4
Upriver Dam RI/FS - PCB Congeners in Groundwater (pg/L) from September 2003 Sampling Event

Well ID Sample ID Sample Date Sample Type (QC / Field) Units Congener Number	PCB ID	D-16 AN-D16GW-030904 9/3/2003 Field Sample pg/L	D-16 AN-D66GW-030904 9/3/2003 Field Duplicate pg/L	Electric Well AN-EWGW-030904 9/3/2003 Field Sample pg/L	Electric Well AN-EW50GW-030904 9/3/2003 Field Duplicate pg/L	Equipment Blank 8/28/2004 Tubing Proof pg/L	AN-D16GWTB-030904 9/3/2003 Trip Blank pg/L	Lab Blank N/AP Lab Blank pg/L	Matrix Spike N/AP % REC
PCB-201	2,2',3,3',4,5',6,6' - OcCB	K0.254	<0.0101	<0.0147	<0.0098	K0.098	<0.0583	<0.0233	
PCB-202	2,2',3,3',5,5',6,6' - OcCB	K0.485	K0.322	K0.040	<0.0107	K0.074	<0.0699	<0.0281	99.7
PCB-203	2,2',3,4,4',5,5',6 - OcCB	1.16	0.703	K0.153	<0.0120	K0.101	0.134	<0.0270	
PCB-204	2,2',3,4,4',5,6,6' - OcCB	<0.0130	<0.0100	K0.025	<0.0097	<0.0660	<0.0573	<0.0229	
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K0.546	K0.286	K0.176	<0.0057	0.401	K0.041	<0.0178	101
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	1.45	K0.890	<0.181	<0.168	<1.71	<0.322	K0.049	97.6
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<0.125	<0.0825	<0.143	<0.133	<1.31	<0.312	<0.0380	
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	0.575 UB	0.416 UB	<0.152	<0.143	<1.29	0.43	K0.088	95.2
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	K1.07	0.716 UB	K0.506	K0.558	0.61	K0.623	K0.373	90.8
Total Monochloro Biphenyls		2.10	1.98	2.41	1.56	4.63	2.54	0.47	
Total Dichloro Biphenyls		0.00	0.00	0.00	2.47	21.93	6.06	3.28	
Total Trichloro Biphenyls		3.79	3.50	1.25	0.29	26.56	4.14	1.50	
Total Tetrachloro Biphenyls		67.76	67.28	2.81	3.06	29.30	6.45	3.08	
Total Pentachloro Biphenyls		21.12	19.45	7.38	10.45	16.28	0.22	0.49	
Total Hexachloro Biphenyls		3.98	4.18	2.85	0.90	15.37	0.88	0.51	
Total Heptachloro Biphenyls		14.20	3.33	0.53	0.00	0.62	0.04	0.05	
Total Octachloro Biphenyls		1.63	0.95	0.00	0.00	0.40	0.40	0.00	
Total Nonachloro Biphenyls		1.45	0.00	0.00	0.00	0.00	0.43	0.00	
Decachloro Biphenyl		0.00	0.00	0.00	0.00	0.61	0.00	0.00	
TOTAL PCBs		116.03	100.66	17.22	18.72	115.70	21.16	9.37	

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

UB = not detected, detected in associated blank

K = target compound could not be confirmed by satisfying all method criteria

**Table B-5
Kaiser - Spokane River
Summary of Water Data**

	Location ID	D16	D14	Electric Well	D16	D14*	Electric Well
	Sample Date	5/15/2003	5/15/2003	6/12/2003	9/4/2003	9/4/2003	9/4/2003
Conventionals							
	Conductivity (µs/cm)	0.052	0.066	N/AV	0.255	N/AV	0.226
	pH	5.87	5.55	N/AV	6.79	N/AV	7.59
	Total Suspended Solids (mg/L)	1	3	5 U	5	N/AV	5 U
	Turbidity (ntu)	5	-7	0.057	0	N/AV	0
	Temperature (degrees Celcius)	10.5	8.8	N/AV	15.8	N/AV	11.3

µs/cm = microsiemens per centimeter

mg/L = milligrams / liter

U = not detected

N/AV = not available

ntu = nephelometric turbidity units

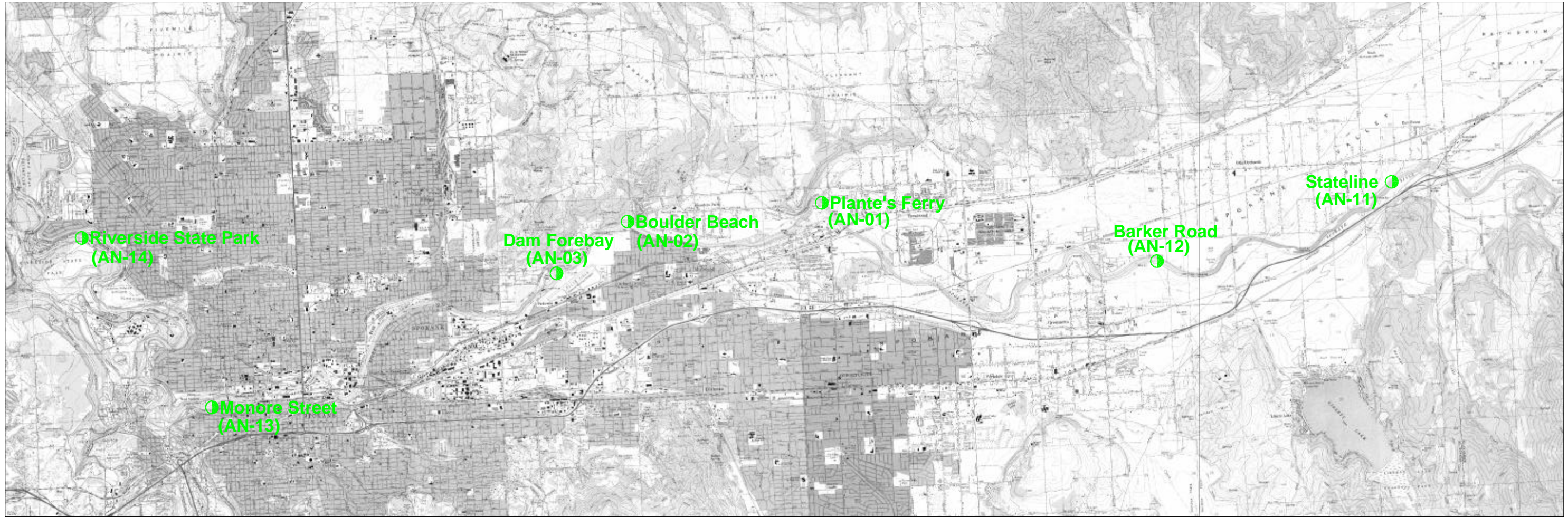
* Not sampled due to water level

APPENDIX C

SURFACE WATER MONITORING RESULTS AND DATA

This appendix presents results for water samples on both a blank-corrected and an EPA-qualified basis. The procedures for blank correction and EPA-qualification are described in Section 5.3.6. In addition, Kaiser elected to conduct water sampling and analysis upstream and downstream from the Upriver Dam Site. Sampling locations were selected to provide further information about PCB loadings across the entire river system. These sampling locations are shown on Figure C-1. Two locations upstream of the Upriver Dam Site were sampled (State Line and Barker Road), as were two locations downstream. The downstream stations were located below Monroe Street in downtown Spokane and further downstream at Riverside State Park.

Nov 23, 2004 7:34am cdavidson K:\Jobs\020073-Upriver\02007301\02007301-27.dwg FIG D.1



● Plante's Ferry (AN-01) SPMD and Water Sample Location and Number

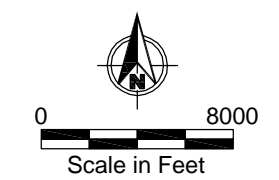
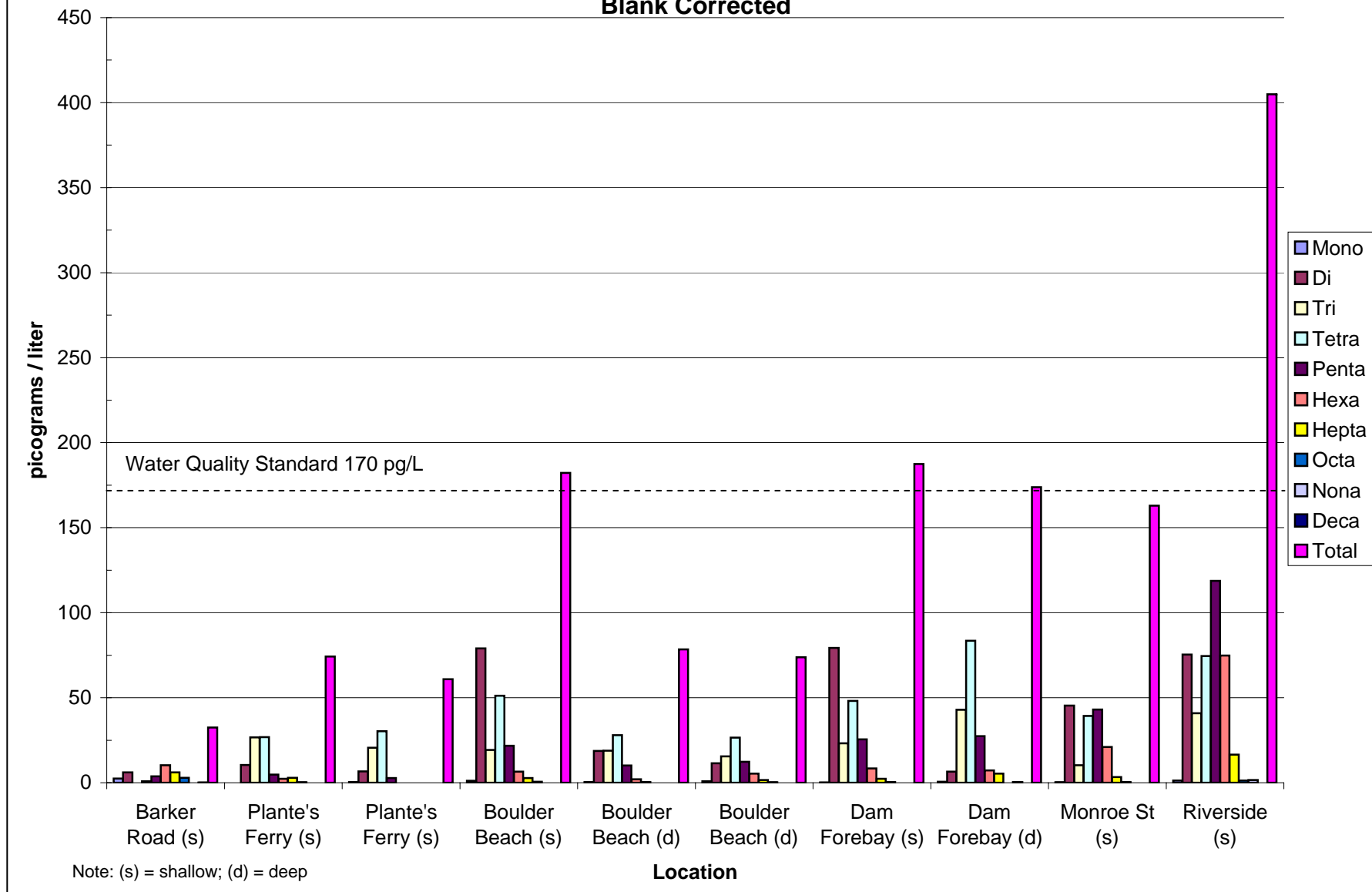
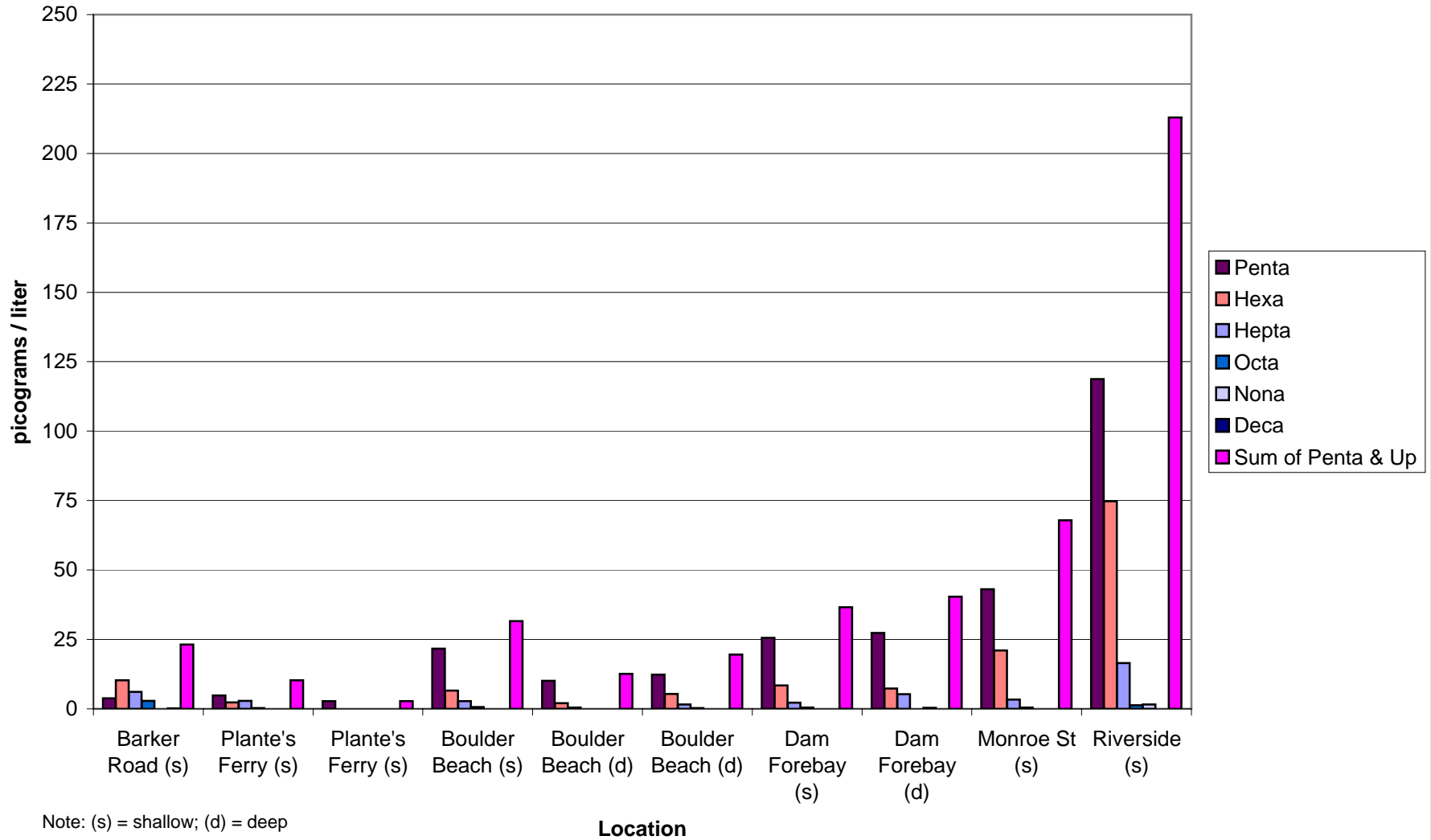


Figure C.1
SPMD and Water Sampling Locations - Spokane River Area
Spokane, Washington

**Total PCBs and PCB Homologues by Station
September 2003 Water Data
Blank Corrected**



**Pentachlorobiphenyl and Greater PCB Homologues by Station
September 2003 Water Data
Blank Corrected**



**Total PCBs and PCB Homologues by Station
September 2003 Water Data
Qualified Per EPA Region X Guidelines**

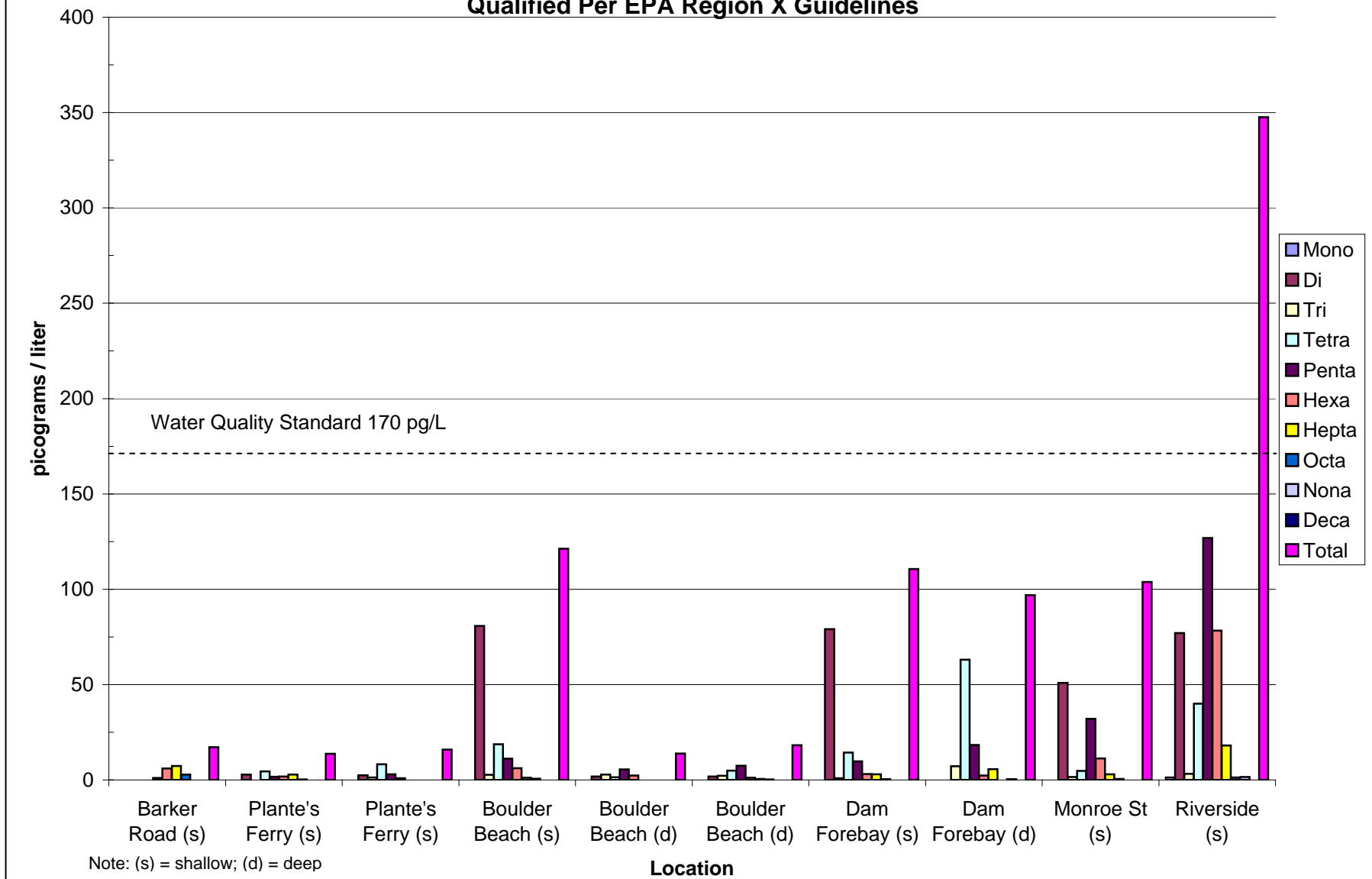


Figure C-4

Total PCBs and PCB Homologues by Station
September 2003 Water Data Qualified per EPA Region X Guidelines



**Total PCBs and PCB Homologues by Station
December 2003 Water Data
Blank Corrected**

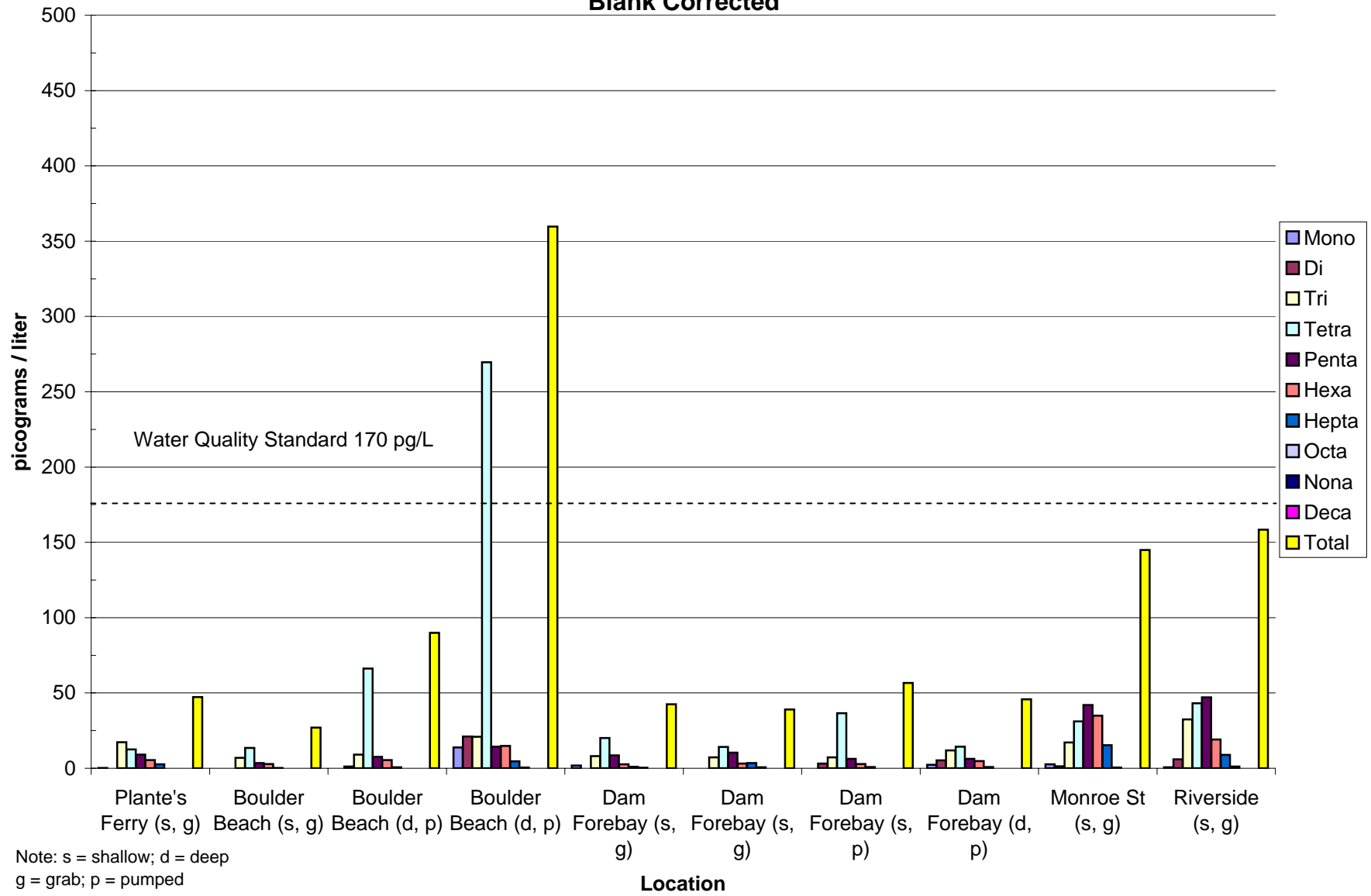


Figure C-6
Total PCBs and PCB Homologues by Station
December 2003 Water Data Blank Corrected

**Total PCBs and PCB Homologues by Station
December 2003 Water Data
Blank Corrected**

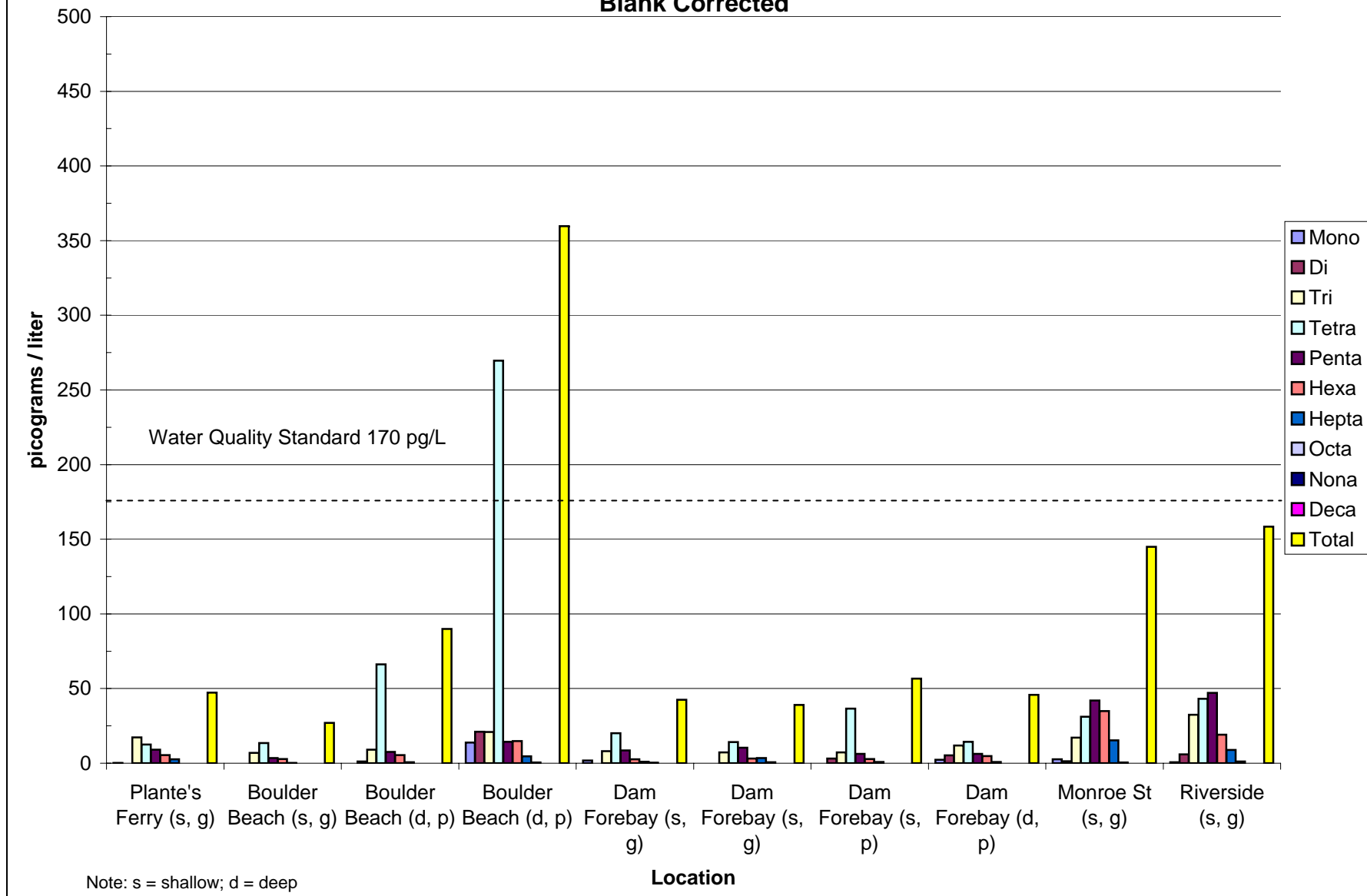
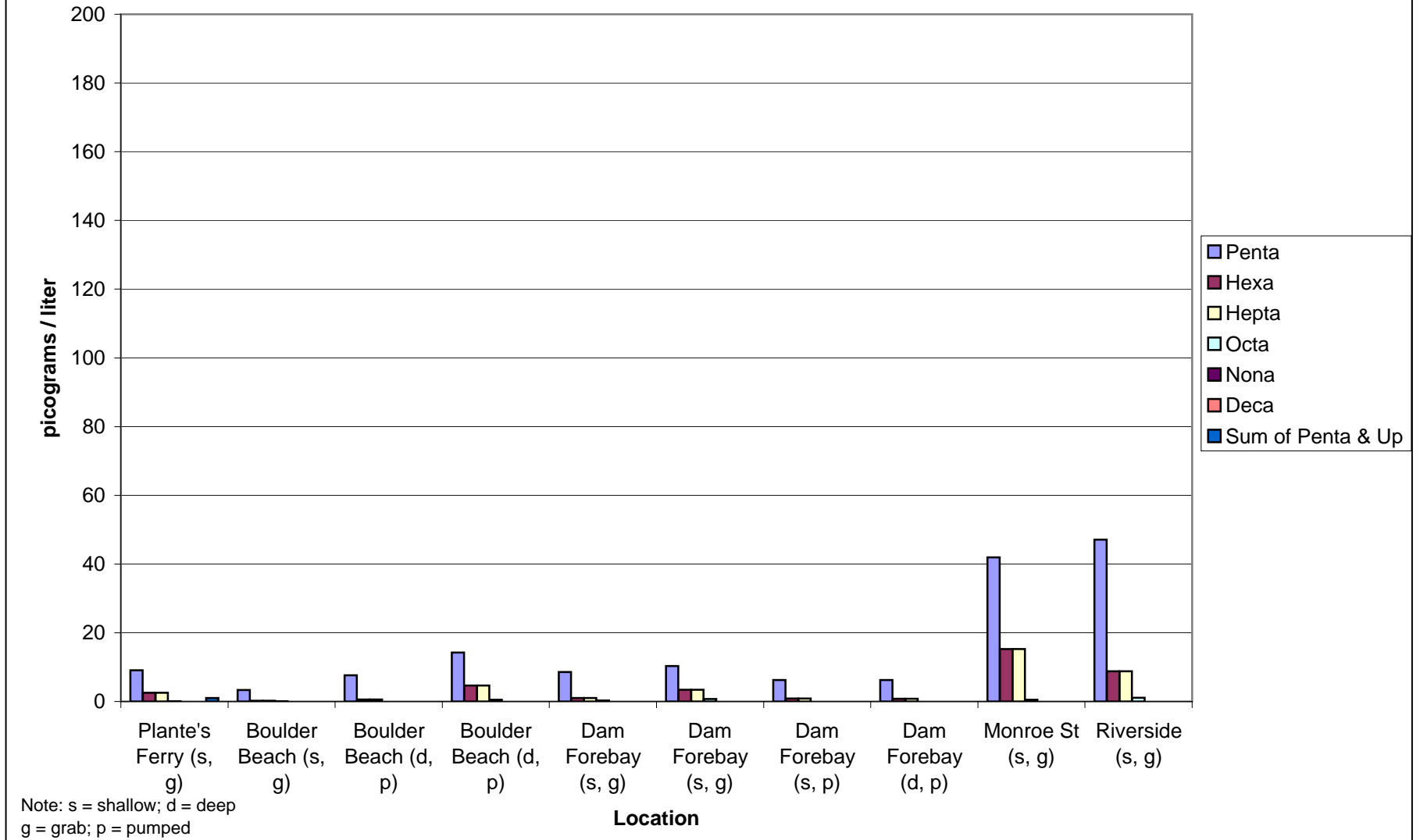
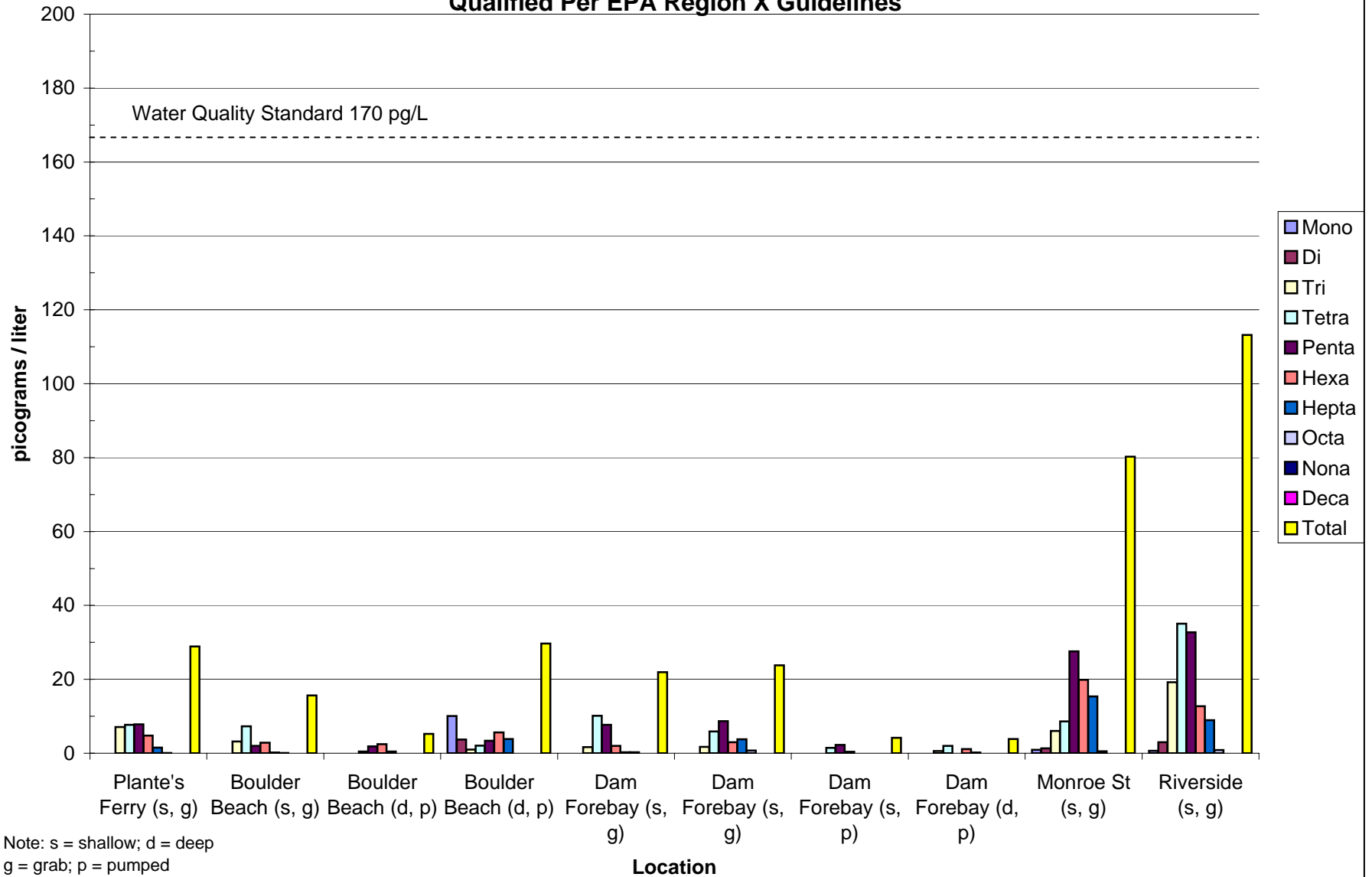


Figure C-6
Total PCBs and PCB Homologues by Station
December 2003 Water Data Blank Corrected

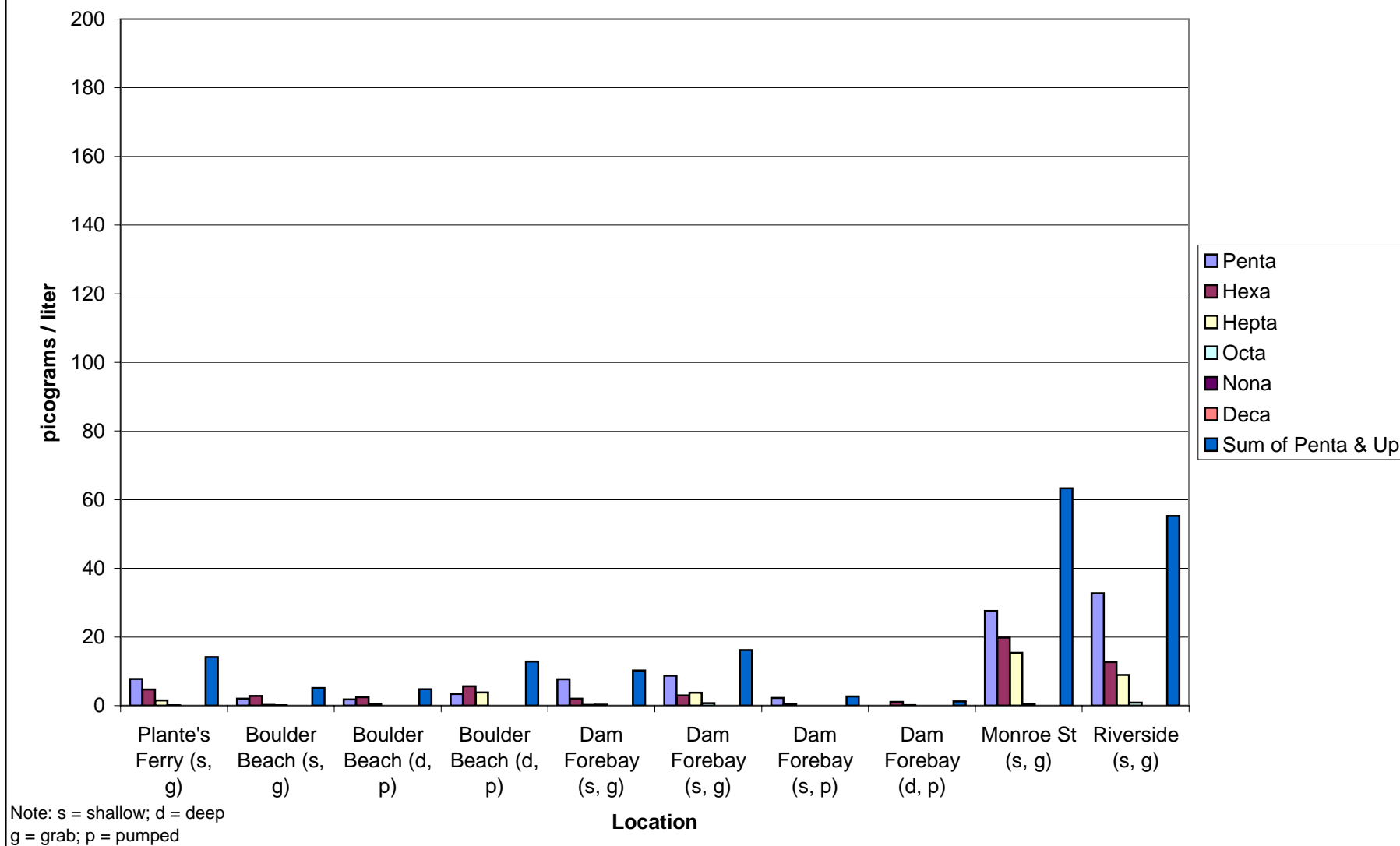
**Pentachlorobiphenyl and Greater PCB Homologues by Station
December 2003 Water Data
Blank Corrected**

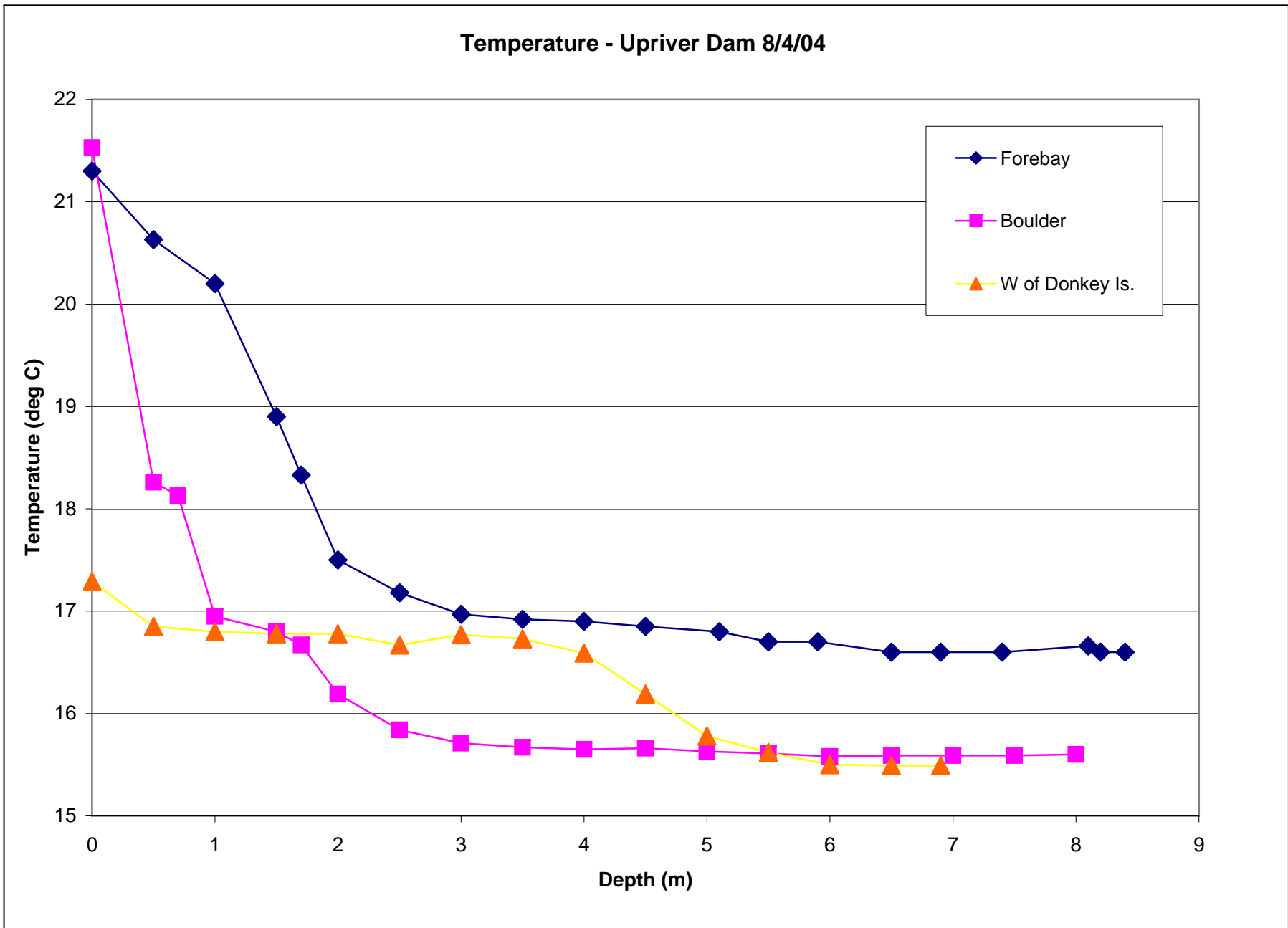


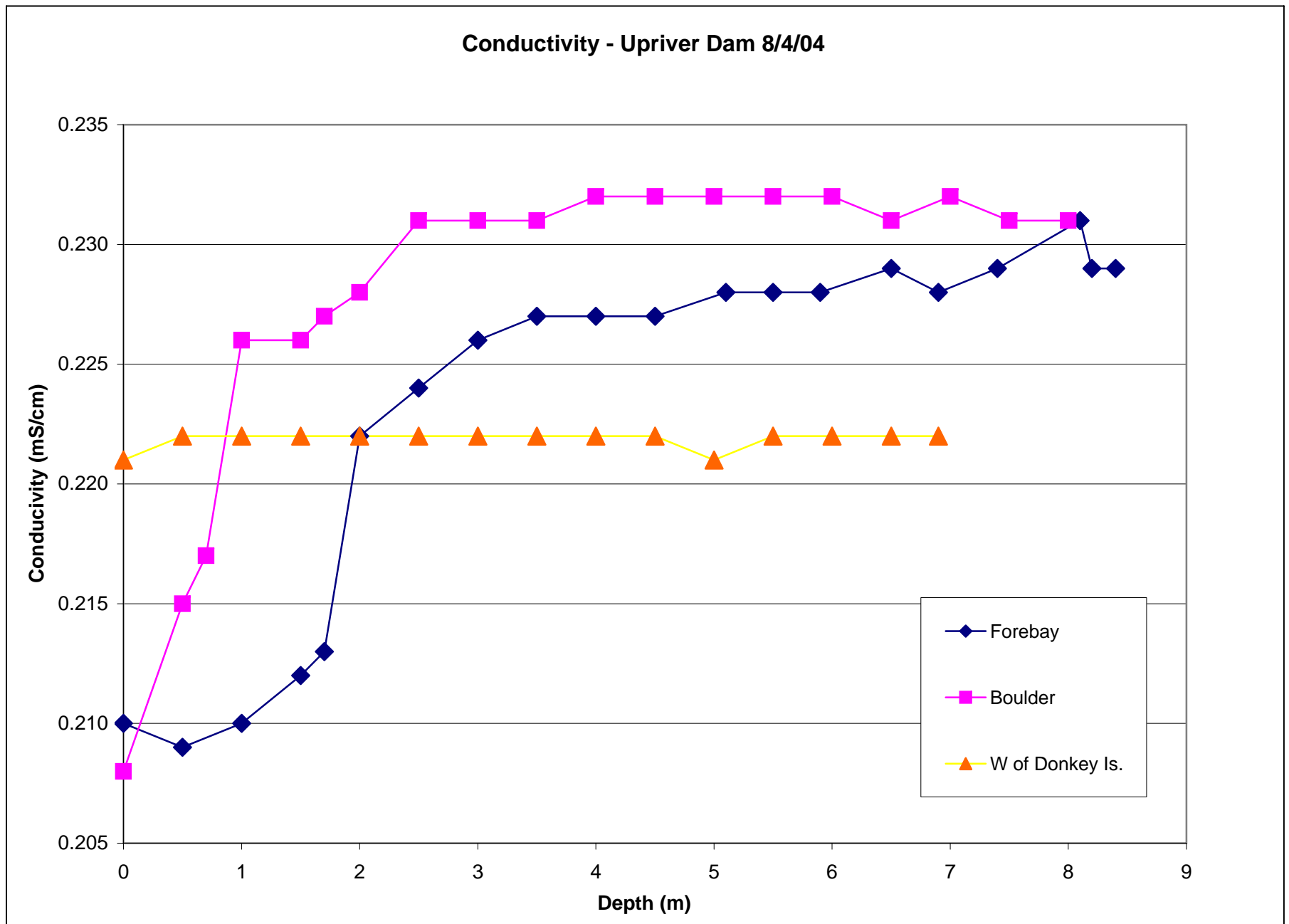
**Total PCBs and PCB Homologues by Station
December 2003 Water Data
Qualified Per EPA Region X Guidelines**



**Pentachlorobiphenyl and Greater PCB Homologues by Station
December 2003 Water Data
Qualified Per EPA Region X Guidelines**







**Table C-1
Total PCBs Blank Corrected - September 2003 Samples**

WATER - Surface & Deep	Barker Road (s)	Plante's Ferry (s)	Plante's Ferry (s)	Boulder Beach (s)	Boulder Beach (d)	Boulder Beach (d)	Dam Forebay (s)	Dam Forebay (d)	Monroe St (s)	Riverside (s)
Depth	Surface	Surface	Surface	Surface	Deep	Deep	Surface	Deep	Surface	Surface
Date	9/2/2003	9/2/2003	9/2/2003	9/2/2003	9/2/2003	9/6/2003	9/2/2003	9/6/2003	9/2/2003	9/2/2003
Type			Field Dupe							
Monochlorobiphenyls	2.44	0.00	0.46	1.09	0.40	0.81	0.21	0.62	0.24	1.24
Dichlorobiphenyls	6.12	10.38	6.73	79.00	18.67	11.48	79.25	6.53	45.37	75.35
Trichlorobiphenyls	0.00	26.73	20.52	19.26	18.82	15.51	23.25	42.85	10.26	40.95
Tetrachlorobiphenyls	0.81	26.82	30.36	51.24	27.95	26.49	48.15	83.49	39.22	74.49
Pentachlorobiphenyls	3.84	4.83	2.74	21.70	10.08	12.33	25.54	27.35	43.06	118.78
Hexachlorobiphenyls	10.24	2.36	0.02	6.54	2.06	5.33	8.38	7.28	20.99	74.77
Heptachlorobiphenyls	6.08	2.85	0.00	2.74	0.48	1.62	2.25	5.31	3.35	16.49
Octochlorobiphenyls	2.88	0.28	0.00	0.62	0.00	0.25	0.43	0.00	0.47	1.29
Nonachlorobiphenyls	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	1.60
Decachlorobiphenyls	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total PCBs	32.5	74.2	60.8	182.2	78.5	73.8	187.5	173.8	162.96	404.97
Sum of Penta & Up	23.1	10.3	2.8	31.6	12.6	19.5	36.6	40.4	67.9	212.9

Table C-2
Raw Data and Blank Correction Calculations - Workgroup 10229

Location	Field/Bottle Blank	Original Results						Average Blank	Blank Corrected Results		
		Boulder Deep	Boulder Deep	Boulder Deep	Forebay Deep	Matrix Spike	Associated Blank		Boulder Deep	Boulder Deep	Forebay Deep
CLIENT ID	AN-00SWRB-030902	AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906	SPIKED MATRIX	LAB BLANK		AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906	
AXYS ID	L6133-14	L6133-10	L6133-20	L6133-21	WG10229-102	WG10229-101		L6133-10	L6133-20	L6133-21	
WORKGROUP	WG10229	WG10229	WG10229	WG10229	WG10229	WG10229		WG10229	WG10229	WG10229	
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	% REC	pg/L	pg/L	pg/L	pg/L	
PCB-1	2 - MoCB	0.999	K1.18	1.39	K1.46	96	0.547	0.79			
PCB-2	3 - MoCB	K0.799	0.781	0.591	0.995		0.289	0.38	0.40	0.21	
PCB-3	4 - MoCB	1.69	K1.60	K1.59	K2.28	95.7	K1.50	1.69			
PCB-4	2,2' - DiCB	1.76	4.16	3.99	4.64	98.3	<1.19	1.76	2.40	2.23	
PCB-5	2,3 - DiCB	<1.18	<0.891	<0.766	<0.852		<1.07				
PCB-6	2,3' - DiCB	K1.32	1.76	1.79	K2.31		<0.969	1.76	1.79		
PCB-7	2,4 - DiCB	37.1	6.9	6.65	11.1		28.6	17.56			
PCB-8	2,4' - DiCB	4.91	4.75	4.75	5.9		1.6	3.26	1.50	1.50	
PCB-9	2,5 - DiCB	<1.02	<0.775	<0.667	<0.742		<0.929				
PCB-10	2,6 - DiCB	<1.08	<0.822	<0.707	<0.786		<0.984				
PCB-11	3,3' - DiCB	8.09	17.2	10.3	K26.6		4.68	4.38	12.82	5.92	
PCB-12/13	3,4 - DiCB	<1.18	<0.894	<0.769	<0.855		<1.07				
PCB-14	3,5 - DiCB	<1.12	<0.852	<0.733	<0.815		<1.02				
PCB-15	4,4' - DiCB	3.05	2.41	2.26	3.22	96.9	1.38	2.22	0.20	0.04	
PCB-16	2,2',3 - TriCB	1.63	2.37	K2.32	3.19		K1.15	0.98	1.39	2.21	
PCB-17	2,2',4 - TriCB	2.15	K2.86	2.58	3.96		1.61	1.40		1.18	
PCB-18/30	2,2',5 - TriCB	4.14	7.34	6.6	10.1		2.91	3.17	4.17	3.43	
PCB-19	2,2',6 - TriCB	0.568	2.05	1.88	2.85	99.6	K0.243	2.45		0.40	
PCB-20/28	2,3,3' - TriCB	6.78	9.04	8.42	15		K4.17	4.64	4.40	3.78	
PCB-21/33	2,3,4 - TriCB	1.95	K2.52	2.07	3.67		K1.92	1.67		0.40	
PCB-22	2,3,4' - TriCB	1.24	2.85	2.5	4.63		K1.35	0.82	2.03	1.68	
PCB-23	2,3,5 - TriCB	<0.169	<0.189	<0.189	<0.183		<0.231				
PCB-24	2,3,6 - TriCB	<0.161	K0.249	<0.152	0.214		<0.160			0.21	
PCB-25	2,3',4 - TriCB	0.277	K0.625	0.499	0.915		K0.285	0.28		0.22	
PCB-26/29	2,3',5 - TriCB	0.751	1.57	1.48	2.33		K0.673	0.75	0.82	0.73	
PCB-27	2,3',6 - TriCB	K0.279	0.899	K1.08	1.17		<0.154		0.90	1.17	
PCB-31	2,4',5 - TriCB	3.25	6.82	6.39	11.4		2.89	3.10	3.72	3.29	
PCB-32	2,4',6 - TriCB	1.02	2.28	1.46	2.6		0.749	0.88	1.40	0.58	
PCB-34	2',3,5 - TriCB	<0.173	<0.193	<0.193	<0.187		<0.236				
PCB-35	3,3',4 - TriCB	<0.199	<0.222	<0.222	K0.229		<0.272				
PCB-36	3,3',5 - TriCB	<0.180	<0.201	<0.201	<0.194		<0.246				
PCB-37	3,4,4' - TriCB	K1.30	1.89	2.19	2.94	99.6	K0.826	1.96		0.23	
PCB-38	3,4,5 - TriCB	<0.188	<0.209	<0.209	<0.202		<0.257				
PCB-39	3,4',5 - TriCB	<0.180	<0.201	<0.201	<0.194		<0.246				
PCB-40/41/71	2,2',3,3' - TeCB	K1.09	2.9	3.29	6.4		1.15	1.77	1.13	1.52	
PCB-42	2,2',3,4' - TeCB	0.511	K1.71	1.94	K3.54		K0.499	0.36		1.58	
PCB-43	2,2',3,5 - TeCB	K0.114	K0.096	0.322	K0.538		0.126	0.13		0.20	
PCB-44/47/65	2,2',3,5' - TeCB	5.01	7.91	K7.31	19.7		2.58	2.93	4.98		
PCB-45/51	2,2',3,6 - TeCB	0.722	1.76	1.79	4.5		0.602	1.48	0.28	0.31	
PCB-46	2,2',3,6' - TeCB	K0.235	K0.666	0.663	1.03		K0.128	0.08		0.58	
PCB-48	2,2',4,5 - TeCB	K0.413	1.39	K1.26	K2.52		0.582	0.58	0.81		
PCB-49/69	2,2',4,5' - TeCB	1.52	K4.77	K5.69	9.28		1.3	1.73		7.55	
PCB-50/53	2,2',4,6 - TeCB	0.575	K1.50	K1.81	2.51		K0.421	0.92		1.59	
PCB-52	2,2',5,5' - TeCB	3.82	9.37	10	16.7		K2.34	2.24	7.13	7.76	
PCB-54	2,2',6,6' - TeCB	K0.125	K0.076	K0.113	K0.094	93.4	<0.0532				
PCB-55	2,3,3',4 - TeCB	<0.173	<0.181	K0.239	<0.283		<0.126				
PCB-56	2,3,3',4' - TeCB	K0.662	2.26	K2.64	4.71		0.586	0.46	1.80	4.25	

**Table C-2
Raw Data and Blank Correction Calculations - Workgroup 10229**

Location		Field/Bottle Blank	Boulder Deep	Boulder Deep	Forebay Deep	Matrix Spike	Associated Blank		Boulder Deep	Boulder Deep	Forebay Deep
CLIENT ID		AN-00SWRB-030902	AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906	SPIKED MATRIX	LAB BLANK		AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906
AXYS ID		L6133-14	L6133-10	L6133-20	L6133-21	WG10229-102	WG10229-101	Average	L6133-10	L6133-20	L6133-21
WORKGROUP		WG10229	WG10229	WG10229	WG10229	WG10229	WG10229	Blank	WG10229	WG10229	WG10229
PCB-57	2,3,3',5 - TeCB	<0.168	<0.175	<0.137	<0.274		<0.122				
PCB-58	2,3,3',5' - TeCB	<0.162	<0.169	K0.165	<0.264		<0.118				
PCB-59/62/75	2,3,3',6 - TeCB	K0.436	K0.760	K0.693	K1.23		K0.332				
PCB-60	2,3,4,4' - TeCB	K0.343	1.36	K1.31	K2.28		K0.395		1.36		
PCB-61/70/74/76	2,3,4,5 - TeCB	3.2	8.07	9.89	17.1		2.47	3.56	4.51	6.33	13.54
PCB-63	2,3,4',5 - TeCB	<0.161	K0.264	K0.383	0.367		<0.118				0.37
PCB-64	2,3,4',6 - TeCB	0.798	3.46	4.15	7.16		K1.13	0.58	2.88	3.57	6.58
PCB-66	2,3',4,4' - TeCB	1.94	5.8	7.36	12.5		1.04	2.71	3.09	4.65	9.79
PCB-67	2,3',4,5 - TeCB	<0.151	<0.158	<0.123	<0.246		K0.127				
PCB-68	2,3',4,5' - TeCB	K0.255	K0.370	<0.129	K1.25		<0.115	0.09			
PCB-72	2,3',5,5' - TeCB	<0.158	<0.166	<0.129	<0.258		<0.116				
PCB-73	2,3',5',6 - TeCB	K0.022	K0.129	K0.071	<0.0149		K0.121				
PCB-77	3,3',4,4' - TeCB	K0.525	K1.31	K1.07	K1.44	96.8	K0.428				
PCB-78	3,3',4,5 - TeCB	<0.177	<0.185	<0.145	<0.289		<0.129				
PCB-79	3,3',4,5' - TeCB	<0.137	<0.143	<0.112	<0.223		<0.0997				
PCB-80	3,3',5,5' - TeCB	<0.159	<0.167	<0.130	<0.260		<0.116				
PCB-81	3,4,4',5 - TeCB	<0.191	<0.198	<0.155	<0.309	100	K0.336				
PCB-82	2,2',3,3',4 - PeCB	K0.287	0.57	K0.839	K1.23		<0.0214		0.57		
PCB-83/99	2,2',3,3',5 - PeCB	K1.58	2.39	2.75	K5.07		K0.697	0.34	2.05	2.41	
PCB-84	2,2',3,3',6 - PeCB	K0.622	K0.822	1.26	2.02		0.347	0.35		0.91	1.67
PCB-85/116/117	2,2',3,4,4' - PeCB	K0.347	K1.05	1.46	2.45		K0.237			1.46	2.45
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	1.75	K3.16	K2.91	5.57		K0.760	2.83			2.75
PCB-88/91	2,2',3,4,6 - PeCB	K0.207	0.628	0.928	1.56		K0.111		0.63	0.93	1.56
PCB-89	2,2',3,4,6' - PeCB	K0.092	K0.062	K0.204	<0.107		K0.033				
PCB-90/101/113	2,2',3,4,5 - PeCB	2.03	3.22	3.78	K6.69		0.909	2.06	1.16	1.72	
PCB-92	2,2',3,5,5' - PeCB	0.335	0.746	K0.799	K1.41		K0.312	0.34	0.41		
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	2.02	3.48	3.69	7.46		1.5	1.76	1.72	1.93	5.70
PCB-94	2,2',3,5,6' - PeCB	K0.047	K0.041	K0.092	<0.103		K0.030				
PCB-96	2,2',3,6,6' - PeCB	K0.024	K0.057	0.089	K0.102		<0.0235			0.09	
PCB-103	2,2',4,5',6 - PeCB	K0.080	K0.114	<0.0169	<0.0901		K0.026				
PCB-104	2,2',4,6,6' - PeCB	K0.151	K0.106	K0.088	K0.098	92.3	K0.030				
PCB-105	2,3,3',4,4' - PeCB	K0.467	1.9	2.24	3.29	95.3	K0.387	1.70	0.20	0.54	1.59
PCB-106	2,3,3',4,5 - PeCB	<0.0814	<0.0682	<0.0136	<0.0607		<0.0212				
PCB-107/124	2,3,3',4',5 - PeCB	<0.0866	K0.187	<0.0145	K0.443		K0.056				
PCB-109	2,3,3',4,6 - PeCB	<0.0875	K0.291	K0.342	0.574		K0.099				0.57
PCB-110/115	2,3,3',4',6 - PeCB	1.67	3.63	K4.79	8.49		0.904	2.25	1.38		6.24
PCB-111	2,3,3',5,5' - PeCB	K0.033	<0.0137	<0.0130	<0.0694		K0.048				
PCB-112	2,3,3',5,6 - PeCB	<0.0139	<0.0146	K0.059	<0.0740		K0.015	0.02			
PCB-114	2,3,4,4',5 - PeCB	K0.223	<0.0650	K0.265	K0.327	95.3	K0.333				
PCB-118	2,3',4,4',5 - PeCB	1.86	4.24	4.66	7.13	95.7	K0.877	2.31	1.93	2.35	4.82
PCB-120	2,3',4,5,5' - PeCB	K0.019	K0.038	K0.026	<0.0716		K0.021				
PCB-121	2,3',4,5',6 - PeCB	0.015	0.054	<0.0136	<0.0726		K0.031	0.02	0.04		
PCB-122	2',3,3',4,5 - PeCB	K0.096	K0.147	K0.045	K0.179		K0.123				
PCB-123	2',3,4,4',5 - PeCB	K0.224	K0.269	K0.242	K0.291	97.6	K0.120				
PCB-126	3,3',4,4',5 - PeCB	K0.092	K0.178	K0.084	K0.134	95.5	K0.114				
PCB-127	3,3',4,5,5' - PeCB	<0.0827	<0.0692	<0.0138	K0.062		<0.0216				
PCB-128/166	2,2',3,3',4,4' - HxCB	K0.173	0.548	K0.549	K0.853		<0.0187	0.08	0.47		
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	1.63	2.68	3.36	4.68		1.2	1.09	1.59	2.27	3.59
PCB-130	2,2',3,3',4,5' - HxCB	K0.066	K0.296	K0.110	K0.508		<0.0253				

Table C-2
Raw Data and Blank Correction Calculations - Workgroup 10229

Location		Field/Bottle Blank	Boulder Deep	Boulder Deep	Forebay Deep	Matrix Spike	Associated Blank		Boulder Deep	Boulder Deep	Forebay Deep
CLIENT ID		AN-00SWRB-030902	AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906	SPIKED MATRIX	LAB BLANK		AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906
AXYS ID		L6133-14	L6133-10	L6133-20	L6133-21	WG10229-102	WG10229-101	Average	L6133-10	L6133-20	L6133-21
WORKGROUP		WG10229	WG10229	WG10229	WG10229	WG10229	WG10229	Blank	WG10229	WG10229	WG10229
PCB-131	2,2',3,3',4,6 - HxCB	K0.055	K0.051	0.052	K0.041		K0.075			0.05	
PCB-132	2,2',3,3',4,6' - HxCB	K0.469	0.671	0.827	K1.76		K0.367	1.76			
PCB-133	2,2',3,3',5,5' - HxCB	<0.0235	<0.0318	K0.094	<0.0259		<0.0234				
PCB-134/143	2,2',3,3',5,6 - HxCB	K0.131	K0.087	K0.105	K0.085		0.145	0.15			
PCB-135/151/154	2,2',3,3',5,6' - HxCB	0.948	K0.850	1.09	1.79		K0.328	0.51		0.58	1.28
PCB-136	2,2',3,3',6,6' - HxCB	0.339	K0.340	K0.257	0.419		K0.162	0.34			0.08
PCB-137	2,2',3,4,4',5 - HxCB	K0.117	<0.0311	K0.349	K0.236		K0.070				
PCB-139/140	2,2',3,4,4',6 - HxCB	K0.048	K0.041	<0.0173	K0.061		K0.039				
PCB-141	2,2',3,4,5,5' - HxCB	0.245	K0.368	0.577	K0.989		K0.440	0.25		0.33	
PCB-142	2,2',3,4,5,6 - HxCB	<0.0240	<0.0324	<0.0193	<0.0264		<0.0239				
PCB-144	2,2',3,4,5',6 - HxCB	K0.054	K0.043	K0.038	0.14		K0.042				0.14
PCB-145	2,2',3,4,6,6' - HxCB	K0.060	K0.055	K0.032	K0.039		K0.048				
PCB-146	2,2',3,4',5,5' - HxCB	K0.393	0.565	K0.303	0.765		K0.209	1.47			
PCB-147/149	2,2',3,4',5,6 - HxCB	K1.61	K1.73	2.1	K3.79		0.803	0.80		1.30	
PCB-148	2,2',3,4',5,6' - HxCB	K0.043	<0.0308	<0.0295	<0.0332		<0.0364				
PCB-150	2,2',3,4',6,6' - HxCB	<0.0187	<0.0213	<0.0204	K0.024		<0.0252				
PCB-152	2,2',3,5,6,6' - HxCB	<0.0168	K0.026	<0.0183	<0.0207		K0.025				
PCB-153/168	2,2',4,4',5,5' - HxCB	2.04	K2.25	2.88	4.17		K1.21	2.40		0.49	1.78
PCB-155	2,2',4,4',6,6' - HxCB	0.106	K0.144	<0.0157	K0.134	87	<0.0171	0.11			
PCB-156/157	2,3,3',4,4',5 - HxCB	K0.496	0.575	K0.465	0.945	92.7	K0.387	1.24			
PCB-158	2,3,3',4,4',6 - HxCB	K0.248	K0.295	0.315	<0.0163		K0.198			0.32	
PCB-159	2,3,3',4,5,5' - HxCB	<0.0159	K0.119	K0.052	K0.089		<0.0158				
PCB-161	2,3,3',4,5',6 - HxCB	<0.0168	<0.0227	K0.018	K0.036		<0.0167				
PCB-162	2,3,3',4',5,5' - HxCB	<0.0163	K0.046	K0.043	K0.038		K0.051				
PCB-164	2,3,3',4',5,6 - HxCB	K0.078	K0.142	K0.357	0.414		K0.121				0.41
PCB-165	2,3,3',5,5',6 - HxCB	K0.031	<0.0256	K0.038	K0.058		<0.0189				
PCB-167	2,3',4,4',5,5' - HxCB	K0.161	K0.212	K0.231	K0.227	91.2	K0.107				
PCB-169	3,3',4,4',5,5' - HxCB	<0.0970	<0.176	<0.0116	<0.0730	95.3	<0.152	0.59			
PCB-170	2,2',3,3',4,4',5 - HpCB	K0.429	0.836	0.907	K0.869		0.623	0.62	0.21	0.28	
PCB-171/173	2,2',3,3',4,4',6 - HpCB	<0.0290	K0.147	0.136	K0.428		K0.094	0.05		0.09	
PCB-172	2,2',3,3',4,5,5' - HpCB	K0.080	K0.144	K0.102	K0.266		<0.0290				
PCB-174	2,2',3,3',4,5,6' - HpCB	0.468	K0.551	0.743	K1.41		<0.0250	0.47		0.28	
PCB-175	2,2',3,3',4,5',6 - HpCB	<0.0252	K0.045	<0.0221	<0.0223		K0.071				
PCB-176	2,2',3,3',4,6,6' - HpCB	<0.0206	K0.062	K0.147	K0.168		<0.0204				
PCB-177	2,2',3,3',4',5,6 - HpCB	K0.296	K0.548	K0.609	0.824		K0.289				0.82
PCB-178	2,2',3,3',5,5',6 - HpCB	<0.0248	<0.0233	0.164	K0.396		K0.069			0.16	
PCB-179	2,2',3,3',5,6,6' - HpCB	<0.0201	0.508	K0.430	K0.616		0.302	0.30	0.21		
PCB-180/193	2,2',3,4,4',5,5' - HpCB	K1.25	K1.62	K1.71	3.13		K1.26	0.34			2.79
PCB-181	2,2',3,4,4',5,6 - HpCB	<0.0252	<0.0237	<0.0221	K0.066		K0.033	0.04			
PCB-182	2,2',3,4,4',5,6' - HpCB	0.077	K0.040	<0.0221	<0.0223		<0.0249	0.08			
PCB-183/185	2,2',3,4,4',5',6 - HpCB	K0.474	K0.705	K0.600	1.31		K0.321				1.31
PCB-184	2,2',3,4,4',6,6' - HpCB	K0.064	<0.0172	<0.0161	<0.0162		K0.059				
PCB-186	2,2',3,4,5,6,6' - HpCB	<0.0203	K0.029	<0.0178	<0.0179		<0.0201	0.15			
PCB-187	2,2',3,4',5,5',6 - HpCB	0.631	K1.01	1.16	K1.93		0.518	0.57		0.59	
PCB-188	2,2',3,4',5,6,6' - HpCB	<0.0177	0.058	<0.0146	K0.014	88.6	K0.095		0.06		
PCB-189	2,3,3',4,4',5,5' - HpCB	K0.098	K0.239	K0.080	0.106	95.9	K0.103				0.11
PCB-190	2,3,3',4,4',5,6 - HpCB	K0.070	K0.229	0.189	0.283		K0.079			0.19	0.28
PCB-191	2,3,3',4,4',5',6 - HpCB	<0.0207	<0.0194	0.031	K0.052		<0.0205			0.03	
PCB-192	2,3,3',4,5,5',6 - HpCB	<0.0229	<0.0215	<0.0201	K0.026		K0.058	0.10			

**Table C-2
Raw Data and Blank Correction Calculations - Workgroup 10229**

Location		Field/Bottle Blank	Boulder Deep	Boulder Deep	Forebay Deep	Matrix Spike	Associated Blank		Boulder Deep	Boulder Deep	Forebay Deep
CLIENT ID		AN-00SWRB-030902	AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906	SPIKED MATRIX	LAB BLANK		AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906
AXYS ID		L6133-14	L6133-10	L6133-20	L6133-21	WG10229-102	WG10229-101	Average	L6133-10	L6133-20	L6133-21
WORKGROUP		WG10229	WG10229	WG10229	WG10229	WG10229	WG10229	Blank	WG10229	WG10229	WG10229
PCB-194	2,2',3,3',4,4',5,5' - OcCB	K0.112	K0.465	K0.461	K0.517		K0.190	1.08			
PCB-195	2,2',3,3',4,4',5,6' - OcCB	K0.047	K0.247	K0.210	K0.176		K0.155				
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K0.309	K0.088	K0.241	K0.229		K0.174				
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K0.062	<0.0320	<0.0240	<0.0298		<0.0274				
PCB-198/199	2,2',3,3',4,5,5',6' - OcCB	<0.0314	K0.597	K0.704	K0.918		K0.461				
PCB-201	2,2',3,3',4,5',6,6' - OcCB	K0.042	<0.0318	K0.091	K0.056		<0.0273	0.18			
PCB-202	2,2',3,3',5,5',6,6' - OcCB	<0.0309	K0.287	0.138	K0.289	92	<0.0313			0.14	
PCB-203	2,2',3,4,4',5,5',6' - OcCB	<0.0295	K0.291	K0.207	K0.278		K0.127				
PCB-204	2,2',3,4,4',5,6,6' - OcCB	<0.0263	<0.0322	<0.0242	<0.0301		K0.053				
PCB-205	2,3,3',4,4',5,5',6' - OcCB	K0.079	K0.204	0.114	K0.134	95.3	K0.229			0.11	
PCB-206	2,2',3,3',4,4',5,5',6' - NoCB	<0.282	K0.506	K0.414	0.408	92.1	K0.448				0.41
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<0.257	<0.254	<0.196	<0.253		<0.233				
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<0.266	<0.262	K0.300	<0.273	91.9	K0.287				
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	0.491	K0.644	0.623	K0.559	88.8	0.569	0.73			
Total Monochloro Biphenyls		2.69	0.781	1.99	0.995		0.836		0.40	0.81	0.62
Total Dichloro Biphenyls		54.9	37.1	29.7	24.9		36.2		18.67	11.48	6.53
Total Trichloro Biphenyls		23.8	37.1	36.1	64.9		8.15		18.82	15.51	42.85
Total Tetrachloro Biphenyls		18.1	44.3	39.4	102		10.4		27.95	26.49	83.49
Total Pentachloro Biphenyls		9.68	20.9	20.9	38.5		3.66		10.08	12.33	27.35
Total Hexachloro Biphenyls		5.3	5.04	11.2	13.3		2.15		2.06	5.33	7.28
Total Heptachloro Biphenyls		1.18	1.4	3.33	5.65		1.44		0.48	1.62	5.31
Total Octachloro Biphenyls		<0.0317	<0.0389	0.252	<0.0362		<0.0333		0.00	0.25	0.00
Total Nonachloro Biphenyls		<0.282	<0.279	<0.210	0.408		<0.254		0.00	0.00	0.41
Decachloro Biphenyl		0.491	<0.0186	0.623	<0.0258		0.569		0.00	0.00	0.00
TOTAL PCBs		116	147	143	251		63.5		78.45	73.82	173.84

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

K = target compound could not be confirmed by satisfying all method criteria

**Table C-3
Raw Data and Blank Correction Calculations - Workgroup 10490**

Location CLIENT ID AXYS ID WORKGROUP UNITS	PCB ID	Original Data			Average Blank	Blank Corrected Results
		Barker Road				Barker Road
		AN-12SW-030902	LAB BLANK	SPIKED MATRIX		AN-12SW-030902
		L6133-16	WG10490-101 i	WG10490-102		L6133-16
		WG10490	WG10490	WG10490		WG10490
		pg/L	pg/L	% REC		pg/L
PCB-1	2 - MoCB	2.02	<2.06	104	0.79	1.23
PCB-2	3 - MoCB	<1.14	<2.34		0.38	
PCB-3	4 - MoCB	2.9	K3.72	106	1.69	1.21
PCB-4	2,2' - DiCB	1.69	<12.5	98.7	1.76	
PCB-5	2,3 - DiCB	<0.969	<8.50			
PCB-6	2,3' - DiCB	<0.908	<8.22			
PCB-7	2,4 - DiCB	5.07	<7.93		17.56	
PCB-8	2,4' - DiCB	K1.39	<7.85		3.26	
PCB-9	2,5 - DiCB	<0.896	<8.03			
PCB-10	2,6 - DiCB	<0.937	<8.24			
PCB-11	3,3' - DiCB	10.5	<8.68		4.38	6.12
PCB-12/13	3,4 - DiCB	<1.02	<8.55			
PCB-14	3,5 - DiCB	<0.958	<8.32			
PCB-15	4,4' - DiCB	K1.21	<9.85	101	2.22	
PCB-16	2,2',3 - TriCB	<0.645	<2.47		0.98	
PCB-17	2,2',4 - TriCB	<0.584	K2.20		1.40	
PCB-18/30	2,2',5 - TriCB	1.55	2.45		3.17	
PCB-19	2,2',6 - TriCB	<0.891	4.34	103	2.45	
PCB-20/28	2,3,3' - TriCB	2.15	6.05		4.64	
PCB-21/33	2,3,4 - TriCB	K0.954	2.66		1.67	
PCB-22	2,3,4' - TriCB	K0.877	K2.59		0.82	
PCB-23	2,3,5 - TriCB	<0.539	<1.77			
PCB-24	2,3,6 - TriCB	<0.429	<1.53			
PCB-25	2,3',4 - TriCB	<0.499	<1.54		0.28	
PCB-26/29	2,3',5 - TriCB	K0.574	<1.70		0.75	
PCB-27	2,3',6 - TriCB	<0.406	<1.56			
PCB-31	2,4',5 - TriCB	K1.76	5.57		3.10	
PCB-32	2,4',6 - TriCB	<0.512	K2.02		0.88	
PCB-34	2',3,5 - TriCB	<0.551	<1.71			
PCB-35	3,3',4 - TriCB	<0.649	<1.77			
PCB-36	3,3',5 - TriCB	<0.541	<1.59			
PCB-37	3,4,4' - TriCB	0.688	1.96	106	1.96	

**Table C-3
Raw Data and Blank Correction Calculations - Workgroup 10490**

Location	PCB ID	Original Data			Average Blank	Blank Corrected Results
		Barker Road				Barker Road
		AN-12SW-030902	LAB BLANK	SPIKED MATRIX		AN-12SW-030902
		L6133-16	WG10490-101 i	WG10490-102		L6133-16
		WG10490	WG10490	WG10490		WG10490
UNITS		pg/L	pg/L	% REC		pg/L
PCB-38	3,4,5 - TriCB	<0.575	<1.58			
PCB-39	3,4',5 - TriCB	<0.554	<1.57			
PCB-40/41/71	2,2',3,3' - TeCB	K1.69	3.83		1.77	
PCB-42	2,2',3,4' - TeCB	<0.492	<0.670		0.36	
PCB-43	2,2',3,5 - TeCB	<0.502	<0.699		0.13	
PCB-44/47/65	2,2',3,5' - TeCB	2.19	K6.99		2.93	
PCB-45/51	2,2',3,6 - TeCB	K0.588	3.13		1.48	
PCB-46	2,2',3,6' - TeCB	<0.529	<0.732		0.08	
PCB-48	2,2',4,5 - TeCB	K0.465	K1.33		0.58	
PCB-49/69	2,2',4,5' - TeCB	K1.16	3.67		1.73	
PCB-50/53	2,2',4,6 - TeCB	0.6	1.92		0.92	
PCB-52	2,2',5,5' - TeCB	2.66	<0.565		2.24	0.42
PCB-54	2,2',6,6' - TeCB	<0.504	K1.88	103		
PCB-55	2,3,3',4 - TeCB	<0.735	<1.20			
PCB-56	2,3,3',4' - TeCB	K0.785	K1.97		0.46	
PCB-57	2,3,3',5 - TeCB	<0.720	<1.14			
PCB-58	2,3,3',5' - TeCB	<0.681	<1.12			
PCB-59/62/75	2,3,3',6 - TeCB	K0.424	<0.449			
PCB-60	2,3,4,4' - TeCB	<0.755	<1.15			
PCB-61/70/74/76	2,3,4,5 - TeCB	K2.99	7.77		3.56	
PCB-63	2,3,4',5 - TeCB	<0.687	<1.08			
PCB-64	2,3,4',6 - TeCB	0.975	K2.17		0.58	0.39
PCB-66	2,3',4,4' - TeCB	1.37	5.16		2.71	
PCB-67	2,3',4,5 - TeCB	<0.659	<1.04			
PCB-68	2,3',4,5' - TeCB	<0.674	<1.08		0.09	
PCB-72	2,3',5,5' - TeCB	<0.677	<1.11			
PCB-73	2,3',5',6 - TeCB	<0.353	<0.699			
PCB-77	3,3',4,4' - TeCB	K0.830	K1.73	102		
PCB-78	3,3',4,5 - TeCB	<0.768	<1.15			
PCB-79	3,3',4,5' - TeCB	<0.656	<0.966			
PCB-80	3,3',5,5' - TeCB	<0.682	<1.02			
PCB-81	3,4,4',5 - TeCB	<0.772	<1.14	105		

**Table C-3
Raw Data and Blank Correction Calculations - Workgroup 10490**

Location CLIENT ID AXYS ID WORKGROUP UNITS	PCB ID	Original Data			Average Blank	Blank Corrected Results
		Barker Road				Barker Road
		AN-12SW-030902	LAB BLANK	SPIKED MATRIX		AN-12SW-030902
		L6133-16	WG10490-101 i	WG10490-102		L6133-16
		WG10490	WG10490	WG10490		WG10490
	pg/L	pg/L	% REC	pg/L		
PCB-82	2,2',3,3',4 - PeCB	<0.388	<0.897			
PCB-83/99	2,2',3,3',5 - PeCB	1.46	K2.82		0.34	
PCB-84	2,2',3,3',6 - PeCB	K0.705	<0.926		0.35	
PCB-85/116/117	2,2',3,4,4' - PeCB	K0.732	K1.32			
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	2.76	3.9		2.83	
PCB-88/91	2,2',3,4,6 - PeCB	<0.335	<0.807			
PCB-89	2,2',3,4,6' - PeCB	<0.361	<0.851			
PCB-90/101/113	2,2',3,4',5 - PeCB	K2.75	4.71		2.06	
PCB-92	2,2',3,5,5' - PeCB	K0.361	<0.820		0.34	
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	2.15	<0.789		1.76	
PCB-94	2,2',3,5,6' - PeCB	<0.353	<0.851			
PCB-96	2,2',3,6,6' - PeCB	K0.137	K0.340			
PCB-103	2,2',4,5',6 - PeCB	<0.308	<0.751			
PCB-104	2,2',4,6,6' - PeCB	K0.285	<0.437	102		
PCB-105	2,3,3',4,4' - PeCB	K1.53	1.7	99.7	1.70	
PCB-106	2,3,3',4,5 - PeCB	<0.266	<0.945			
PCB-107/124	2,3,3',4',5 - PeCB	K0.606	<0.992			
PCB-109	2,3,3',4,6 - PeCB	0.446	<0.936		0.45	
PCB-110/115	2,3,3',4',6 - PeCB	2.93	4.17		2.25	
PCB-111	2,3,3',5,5' - PeCB	<0.262	<0.596			
PCB-112	2,3,3',5,6 - PeCB	<0.259	<0.632		0.02	
PCB-114	2,3,4,4',5 - PeCB	0.525	<1.03	99.2	0.53	
PCB-118	2,3',4,4',5 - PeCB	2.99	4.61	96	2.31	
PCB-120	2,3',4,5,5' - PeCB	<0.255	<0.563			
PCB-121	2,3',4,5',6 - PeCB	<0.257	<0.608		0.02	
PCB-122	2',3,3',4,5 - PeCB	<0.306	<1.07			
PCB-123	2',3,4,4',5 - PeCB	K0.345	<1.04	97.6		
PCB-126	3,3',4,4',5 - PeCB	K0.842	<1.09	98.9		
PCB-127	3,3',4,5,5' - PeCB	K0.296	<0.951			
PCB-128/166	2,2',3,3',4,4' - HxCB	2.31	<0.610		0.08	
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	4.84	K4.95		1.09	
PCB-130	2,2',3,3',4,5' - HxCB	0.63	<0.795		0.63	

**Table C-3
Raw Data and Blank Correction Calculations - Workgroup 10490**

Location CLIENT ID AXYS ID WORKGROUP UNITS	PCB ID	Original Data			Average Blank	Blank Corrected Results
		Barker Road				Barker Road
		AN-12SW-030902	LAB BLANK	SPIKED MATRIX		AN-12SW-030902
		L6133-16	WG10490-101 i	WG10490-102		L6133-16
		WG10490	WG10490	WG10490		WG10490
		pg/L	pg/L	% REC	pg/L	
PCB-131	2,2',3,3',4,6 - HxCB	<0.325	<0.784			
PCB-132	2,2',3,3',4,6' - HxCB	0.944	1.76		1.76	
PCB-133	2,2',3,3',5,5' - HxCB	<0.299	<0.764			
PCB-134/143	2,2',3,3',5,6 - HxCB	<0.309	<0.803		0.15	
PCB-135/151/154	2,2',3,3',5,6' - HxCB	K1.32	K0.885		0.51	
PCB-136	2,2',3,3',6,6' - HxCB	K0.471	K0.384		0.34	
PCB-137	2,2',3,4,4',5 - HxCB	K0.371	<0.723			
PCB-139/140	2,2',3,4,4',6 - HxCB	0.311	<0.703			0.31
PCB-141	2,2',3,4,5,5' - HxCB	K0.566	K1.30		0.25	
PCB-142	2,2',3,4,5,6 - HxCB	<0.302	<0.793			
PCB-144	2,2',3,4,5,6 - HxCB	0.192	K0.552			0.19
PCB-145	2,2',3,4,6,6' - HxCB	0.112	K0.328			0.11
PCB-146	2,2',3,4',5,5' - HxCB	K0.733	1.47		1.47	
PCB-147/149	2,2',3,4',5,6 - HxCB	2.33	K3.66		0.80	1.53
PCB-148	2,2',3,4',5,6' - HxCB	K0.166	<0.277			
PCB-150	2,2',3,4',6,6' - HxCB	0.117	K0.339			0.12
PCB-152	2,2',3,5,6,6' - HxCB	K0.076	<0.194			
PCB-153/168	2,2',4,4',5,5' - HxCB	3.63	4.78		2.40	1.24
PCB-155	2,2',4,4',6,6' - HxCB	K0.454	K0.402	99.8	0.11	
PCB-156/157	2,3,3',4,4',5 - HxCB	1.38	1.24	102	1.24	0.14
PCB-158	2,3,3',4,4',6 - HxCB	<0.205	<0.499			
PCB-159	2,3,3',4,5,5' - HxCB	K0.403	<0.519			
PCB-161	2,3,3',4,5,6 - HxCB	<0.205	<0.538			
PCB-162	2,3,3',4',5,5' - HxCB	K0.282	<0.523			
PCB-164	2,3,3',4',5',6 - HxCB	K0.556	<0.543			
PCB-165	2,3,3',5,5',6 - HxCB	<0.231	<0.585			
PCB-167	2,3',4,4',5,5' - HxCB	K0.813	<0.408	104		
PCB-169	3,3',4,4',5,5' - HxCB	K0.795	0.589	103	0.59	
PCB-170	2,2',3,3',4,4',5 - HpCB	1.25	K1.39		0.62	0.63
PCB-171/173	2,2',3,3',4,4',6 - HpCB	K0.560	<0.166		0.05	
PCB-172	2,2',3,3',4,5,5' - HpCB	0.493	K0.213			0.49
PCB-174	2,2',3,3',4,5,6' - HpCB	K0.911	K0.750		0.47	

**Table C-3
Raw Data and Blank Correction Calculations - Workgroup 10490**

Location CLIENT ID AXYS ID WORKGROUP UNITS	PCB ID	Original Data			Average Blank	Blank Corrected Results
		Barker Road				Barker Road
		AN-12SW-030902	LAB BLANK	SPIKED MATRIX		AN-12SW-030902
		L6133-16	WG10490-101 i	WG10490-102		L6133-16
		WG10490	WG10490	WG10490		WG10490
	pg/L	pg/L	% REC	pg/L		
PCB-175	2,2',3,3',4,5',6 - HpCB	K0.070	<0.159			
PCB-176	2,2',3,3',4,6,6' - HpCB	0.329	K0.287		0.33	
PCB-177	2,2',3,3',4',5,6 - HpCB	K0.785	K1.04			
PCB-178	2,2',3,3',5,5',6 - HpCB	0.496	K0.434		0.50	
PCB-179	2,2',3,3',5,6,6' - HpCB	K0.410	K0.319	0.30		
PCB-180/193	2,2',3,4,4',5,5' - HpCB	K2.58	K3.10	0.34		
PCB-181	2,2',3,4,4',5,6 - HpCB	0.222	<0.153	0.04	0.19	
PCB-182	2,2',3,4,4',5,6' - HpCB	K0.101	<0.159	0.08		
PCB-183/185	2,2',3,4,4',5,6 - HpCB	K0.647	K0.289			
PCB-184	2,2',3,4,4',6,6' - HpCB	<0.0376	<0.117			
PCB-186	2,2',3,4,5,6,6' - HpCB	K0.186	0.152	0.15		
PCB-187	2,2',3,4',5,5',6 - HpCB	3.42	K1.75	0.57	2.85	
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.158	K0.461	103		
PCB-189	2,3,3',4,4',5,5' - HpCB	0.52	<0.514	98.2	0.52	
PCB-190	2,3,3',4,4',5,6 - HpCB	0.584	K0.356		0.58	
PCB-191	2,3,3',4,4',5',6 - HpCB	K0.444	<0.116			
PCB-192	2,3,3',4,5,5',6 - HpCB	K0.308	K0.192	0.10		
PCB-194	2,2',3,3',4,4',5,5' - OcCB	K1.04	1.08	1.08		
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K0.431	K0.513			
PCB-196	2,2',3,3',4,4',5,6' - OcCB	0.752	K0.517		0.75	
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K0.774	<0.171			
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	K1.13	K1.11			
PCB-201	2,2',3,3',4,5',6,6' - OcCB	K0.269	0.184	0.18		
PCB-202	2,2',3,3',5,5',6,6' - OcCB	0.585	K0.514	103	0.59	
PCB-203	2,2',3,4,4',5,5',6 - OcCB	0.872	K0.928		0.87	
PCB-204	2,2',3,4,4',5,6,6' - OcCB	K0.168	<0.176			
PCB-205	2,3,3',4,4',5,5',6 - OcCB	0.674	K0.326	109	0.67	
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	<1.64	<2.42	92.5		
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<1.02	<2.29			
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<1.03	<2.50	99.1		
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	0.825	1.14	91.7	0.73	
Total Monochloro Biphenyls		4.92	<2.75		2.44	

**Table C-3
Raw Data and Blank Correction Calculations - Workgroup 10490**

Location	PCB ID	Original Data			Average Blank	Blank Corrected Results
		Barker Road	LAB BLANK	SPIKED MATRIX		Barker Road
CLIENT ID		AN-12SW-030902	LAB BLANK	SPIKED MATRIX		AN-12SW-030902
AXYS ID		L6133-16	WG10490-101 i	WG10490-102		L6133-16
WORKGROUP		WG10490	WG10490	WG10490		WG10490
UNITS		pg/L	pg/L	% REC		pg/L
Total Dichloro Biphenyls		17.3	<12.5			6.12
Total Trichloro Biphenyls		4.39	23			0.00
Total Tetrachloro Biphenyls		7.79	25.5			0.81
Total Pentachloro Biphenyls		13.3	19.1			3.84
Total Hexachloro Biphenyls		16.8	9.84			10.24
Total Heptachloro Biphenyls		7.31	<0.514			6.08
Total Octachloro Biphenyls		2.88	1.27			2.88
Total Nonachloro Biphenyls		<1.64	<2.50			0.00
Decachloro Biphenyl		0.825	1.14			0.09
TOTAL PCBs		75.4	79.8			32.50

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

K = target compound could not be confirmed by satisfying all method criteria

Table C-4
Raw Data and Blank Correction Calculations - Workgroup 10490

Location CLIENT ID AXYS ID WORKGROUP UNITS	PCB ID	Original Data				Average Blank	Blank Corrected Data	
		Plante's Ferry	Forebay - Shallow				Plante's Ferry	Forebay - Shallow
		AN-01SW-030902	AN-03ASW-030902	LAB BLANK	SPIKED MATRIX		AN-01SW-030902	AN-03ASW-030902
		L6133-7	L6133-12	WG10490-101 i	WG10490-102		L6133-7	L6133-12
		WG10490	WG10490	WG10490	WG10490		WG10490	WG10490
pg/L	pg/L	pg/L	% REC	pg/L	pg/L			
PCB-1	2 - MoCB	K2.01	K2.45	<2.06	104	0.79		
PCB-2	3 - MoCB	<0.863	<0.784	<2.34		0.38		
PCB-3	4 - MoCB	K1.85	1.9	K3.72	106	1.69		0.21
PCB-4	2,2' - DiCB	5.82	4.31	<12.5	98.7	1.76	4.06	2.55
PCB-5	2,3 - DiCB	<0.989	<0.637	<8.50				
PCB-6	2,3' - DiCB	2.78	2.14	<8.22			2.78	2.14
PCB-7	2,4 - DiCB	11.8	2.13	<7.93		17.56		
PCB-8	2,4' - DiCB	4.53	4.19	<7.85		3.26	1.28	0.94
PCB-9	2,5 - DiCB	<0.914	<0.589	<8.03				
PCB-10	2,6 - DiCB	<0.956	<0.616	<8.24				
PCB-11	3,3' - DiCB	5.96	77	<8.68		4.38	1.58	72.62
PCB-12/13	3,4 - DiCB	<1.04	<0.671	<8.55				
PCB-14	3,5 - DiCB	<0.978	<0.630	<8.32				
PCB-15	4,4' - DiCB	2.9	3.22	<9.85	101	2.22	0.69	1.01
PCB-16	2,2',3 - TriCB	2.64	2.85	<2.47		0.98	1.66	1.87
PCB-17	2,2',4 - TriCB	3.08	1.3	K2.20		1.40	1.68	
PCB-18/30	2,2',5 - TriCB	6.36	5.52	2.45		3.17	3.19	2.35
PCB-19	2,2',6 - TriCB	3.8	2.35	4.34	103	2.45	1.35	
PCB-20/28	2,3,3' - TriCB	10.5	10	6.05		4.64	5.86	5.36
PCB-21/33	2,3,4 - TriCB	2.34	2.88	2.66		1.67	0.67	1.21
PCB-22	2,3,4' - TriCB	3.53	3.43	K2.59		0.82	2.71	2.61
PCB-23	2,3,5 - TriCB	<0.501	<0.486	<1.77				
PCB-24	2,3,6 - TriCB	<0.460	<0.397	<1.53				
PCB-25	2,3',4 - TriCB	1.2	0.875	<1.54		0.28	0.92	0.60
PCB-26/29	2,3',5 - TriCB	K3.06	2.19	<1.70		0.75		1.44
PCB-27	2,3',6 - TriCB	K1.40	0.937	<1.56				0.94
PCB-31	2,4',5 - TriCB	9.32	8.47	5.57		3.10	6.22	5.37
PCB-32	2,4',6 - TriCB	3.36	2.08	K2.02		0.88	2.48	1.20
PCB-34	2',3,5 - TriCB	<0.511	<0.496	<1.71				
PCB-35	3,3',4 - TriCB	<0.603	<0.585	<1.77				
PCB-36	3,3',5 - TriCB	<0.503	<0.488	<1.59				
PCB-37	3,4,4' - TriCB	1.39	2.28	1.96	106	1.96		0.32
PCB-38	3,4,5 - TriCB	<0.534	<0.518	<1.58				
PCB-39	3,4',5 - TriCB	<0.514	<0.499	<1.57				
PCB-40/41/71	2,2',3,3' - TeCB	3.76	4.56	3.83		1.77	1.99	2.79
PCB-42	2,2',3,4' - TeCB	1.83	K2.52	<0.670		0.36	1.47	
PCB-43	2,2',3,5 - TeCB	<0.547	0.549	<0.699		0.13		0.42
PCB-44/47/65	2,2',3,5' - TeCB	6.82	8.85	K6.99		2.93	3.89	5.92
PCB-45/51	2,2',3,6 - TeCB	1.99	K1.99	3.13		1.48	0.51	
PCB-46	2,2',3,6' - TeCB	K0.713	K0.795	<0.732		0.08		
PCB-48	2,2',4,5 - TeCB	1.33	1.35	K1.33		0.58	0.75	0.77
PCB-49/69	2,2',4,5' - TeCB	K4.64	5.05	3.67		1.73		3.32
PCB-50/53	2,2',4,6 - TeCB	1.99	K1.98	1.92		0.92	1.07	
PCB-52	2,2',5,5' - TeCB	9.23	10.8	<0.565		2.24	6.99	8.56
PCB-54	2,2',6,6' - TeCB	<0.535	K0.352	K1.88	103			
PCB-55	2,3,3',4 - TeCB	<0.649	<0.816	<1.20				

Table C-4
Raw Data and Blank Correction Calculations - Workgroup 10490

Location CLIENT ID AXYS ID WORKGROUP UNITS	PCB ID	Original Data				Average Blank	Blank Corrected Data	
		Plante's Ferry	Forebay - Shallow				Plante's Ferry	Forebay - Shallow
		AN-01SW-030902	AN-03ASW-030902	LAB BLANK	SPIKED MATRIX		AN-01SW-030902	AN-03ASW-030902
		L6133-7	L6133-12	WG10490-101 i	WG10490-102		L6133-7	L6133-12
		WG10490	WG10490	WG10490	WG10490		WG10490	WG10490
pg/L	pg/L	pg/L	% REC	pg/L	pg/L			
PCB-56	2,3,3',4' - TeCB	2.34	3.51	K1.97		0.46	1.88	3.05
PCB-57	2,3,3',5' - TeCB	<0.636	<0.799	<1.14				
PCB-58	2,3,3',5' - TeCB	<0.602	<0.756	<1.12				
PCB-59/62/75	2,3,3',6' - TeCB	K0.781	1.34	<0.449				1.34
PCB-60	2,3,4,4' - TeCB	K1.19	1.45	<1.15				1.45
PCB-61/70/74/76	2,3,4,5' - TeCB	6.78	12.6	7.77		3.56	3.22	9.04
PCB-63	2,3,4',5' - TeCB	<0.607	<0.762	<1.08				
PCB-64	2,3,4',6' - TeCB	3.54	4.42	K2.17		0.58	2.96	3.84
PCB-66	2,3',4,4' - TeCB	4.04	8.61	5.16		2.71	1.33	5.90
PCB-67	2,3',4,5' - TeCB	<0.582	<0.732	<1.04				
PCB-68	2,3',4,5' - TeCB	<0.596	<0.748	<1.08		0.09		
PCB-72	2,3',5,5' - TeCB	<0.598	<0.752	<1.11				
PCB-73	2,3',5',6' - TeCB	<0.385	0.386	<0.699				0.39
PCB-77	3,3',4,4' - TeCB	0.78	1.37	K1.73	102		0.78	1.37
PCB-78	3,3',4,5' - TeCB	<0.678	<0.852	<1.15				
PCB-79	3,3',4,5' - TeCB	<0.580	<0.728	<0.966				
PCB-80	3,3',5,5' - TeCB	<0.603	<0.757	<1.02				
PCB-81	3,4,4',5' - TeCB	<0.692	<0.876	<1.14	105			
PCB-82	2,2',3,3',4' - PeCB	K0.830	K0.928	<0.897				
PCB-83/99	2,2',3,3',5' - PeCB	1.56	4.04	K2.82		0.34	1.22	3.70
PCB-84	2,2',3,3',6' - PeCB	0.893	1.72	<0.926		0.35	0.55	1.37
PCB-85/116/117	2,2',3,4,4' - PeCB	K0.896	2.36	K1.32				2.36
PCB-86/87/97/108/119/125	2,2',3,4,5' - PeCB	2.5	4.64	3.9		2.83		1.82
PCB-88/91	2,2',3,4,6' - PeCB	K0.745	K1.30	<0.807				
PCB-89	2,2',3,4,6' - PeCB	<0.271	<0.340	<0.851				
PCB-90/101/113	2,2',3,4',5' - PeCB	2.65	5.05	4.71		2.06	0.59	2.99
PCB-92	2,2',3,5,5' - PeCB	K0.541	K1.06	<0.820		0.34		
PCB-93/95/98/100/102	2,2',3,5,6' - PeCB	2.74	5.06	<0.789		1.76	0.98	3.30
PCB-94	2,2',3,5,6' - PeCB	<0.265	<0.332	<0.851				
PCB-96	2,2',3,6,6' - PeCB	K0.165	K0.149	K0.340				
PCB-103	2,2',4,5',6' - PeCB	<0.231	<0.290	<0.751				
PCB-104	2,2',4,6,6' - PeCB	K0.147	K0.474	<0.437	102			
PCB-105	2,3,3',4,4' - PeCB	K1.42	2.67	1.7	99.7	1.70		0.97
PCB-106	2,3,3',4,5' - PeCB	<0.341	<0.319	<0.945				
PCB-107/124	2,3,3',4',5' - PeCB	0.397	0.556	<0.992			0.40	0.56
PCB-109	2,3,3',4,6' - PeCB	<0.340	0.59	<0.936				0.59
PCB-110/115	2,3,3',4',6' - PeCB	2.96	6.87	4.17		2.25	0.71	4.62
PCB-111	2,3,3',5,5' - PeCB	<0.197	<0.247	<0.596				
PCB-112	2,3,3',5,6' - PeCB	<0.195	<0.244	<0.632		0.02		
PCB-114	2,3,4,4',5' - PeCB	0.388	0.42	<1.03	99.2		0.39	0.42
PCB-118	2,3',4,4',5' - PeCB	K2.40	5.16	4.61	96	2.31		2.85
PCB-120	2,3',4,5,5' - PeCB	<0.192	K0.248	<0.563				
PCB-121	2,3',4,5',6' - PeCB	<0.193	<0.242	<0.608		0.02		
PCB-122	2',3,3',4,5' - PeCB	<0.392	<0.367	<1.07				
PCB-123	2',3,4,4',5' - PeCB	<0.373	K0.452	<1.04	97.6			
PCB-126	3,3',4,4',5' - PeCB	<0.416	<0.373	<1.09	98.9			

Table C-4
Raw Data and Blank Correction Calculations - Workgroup 10490

Location CLIENT ID AXYS ID WORKGROUP UNITS	PCB ID	Original Data				Average Blank	Blank Corrected Data	
		Plante's Ferry	Forebay - Shallow				Plante's Ferry	Forebay - Shallow
		AN-01SW-030902	AN-03ASW-030902	LAB BLANK	SPIKED MATRIX		AN-01SW-030902	AN-03ASW-030902
		L6133-7	L6133-12	WG10490-101 i	WG10490-102		L6133-7	L6133-12
		WG10490	WG10490	WG10490	WG10490		WG10490	WG10490
pg/L	pg/L	pg/L	% REC	pg/L	pg/L			
PCB-127	3,3',4,5,5' - PeCB	<0.373	<0.349	<0.951				
PCB-128/166	2,2',3,3',4,4' - HxCB	K0.614	K0.917	<0.610		0.08		
PCB-129/138/160/163	2,2',3,3',4,5' - HxCB	2.52	4.64	K4.95		1.09	3.55	
PCB-130	2,2',3,3',4,5' - HxCB	<0.353	<0.482	<0.795				
PCB-131	2,2',3,3',4,6' - HxCB	<0.352	<0.480	<0.784				
PCB-132	2,2',3,3',4,6' - HxCB	0.424	1.03	1.76		1.76		
PCB-133	2,2',3,3',5,5' - HxCB	<0.323	<0.442	<0.764				
PCB-134/143	2,2',3,3',5,6' - HxCB	<0.334	<0.456	<0.803		0.15		
PCB-135/151/154	2,2',3,3',5,6' - HxCB	K0.899	1.4	K0.885		0.51	0.89	
PCB-136	2,2',3,3',6,6' - HxCB	K0.292	K0.510	K0.384		0.34		
PCB-137	2,2',3,4,4',5' - HxCB	<0.313	<0.428	<0.723				
PCB-139/140	2,2',3,4,4',6' - HxCB	<0.297	<0.405	<0.703				
PCB-141	2,2',3,4,5,5' - HxCB	K0.594	0.767	K1.30		0.25	0.52	
PCB-142	2,2',3,4,5,6' - HxCB	<0.327	<0.446	<0.793				
PCB-144	2,2',3,4,5',6' - HxCB	K0.167	0.338	K0.552			0.34	
PCB-145	2,2',3,4,6,6' - HxCB	<0.0418	K0.128	K0.328				
PCB-146	2,2',3,4',5,5' - HxCB	K0.364	K0.847	1.47		1.47		
PCB-147/149	2,2',3,4',5,6' - HxCB	1.16	2.76	K3.66		0.80	0.36	
PCB-148	2,2',3,4',5,6' - HxCB	0.576	K0.181	<0.277			1.96	
PCB-150	2,2',3,4',6,6' - HxCB	K0.098	<0.0339	K0.339			0.58	
PCB-152	2,2',3,5,6,6' - HxCB	K0.072	K0.229	<0.194				
PCB-153/168	2,2',4,4',5,5' - HxCB	K2.16	3.52	4.78		2.40	1.13	
PCB-155	2,2',4,4',6,6' - HxCB	K0.192	K0.359	K0.402	99.8	0.11		
PCB-156/157	2,3,3',4,4',5' - HxCB	0.841	0.982	1.24	102	1.24		
PCB-158	2,3,3',4,4',6' - HxCB	K0.397	<0.303	<0.499				
PCB-159	2,3,3',4,5,5' - HxCB	<0.236	<0.322	<0.519				
PCB-161	2,3,3',4,5',6' - HxCB	<0.222	<0.303	<0.538				
PCB-162	2,3,3',4',5,5' - HxCB	<0.238	<0.325	<0.523				
PCB-164	2,3,3',4',5',6' - HxCB	K0.267	<0.341	<0.543				
PCB-165	2,3,3',5,5',6' - HxCB	<0.249	<0.341	<0.585				
PCB-167	2,3',4,4',5,5' - HxCB	K0.306	K0.401	<0.408	104			
PCB-169	3,3',4,4',5,5' - HxCB	0.526	<0.300	0.589	103	0.59		
PCB-170	2,2',3,3',4,4',5' - HpCB	K0.679	1.38	K1.39		0.62	0.76	
PCB-171/173	2,2',3,3',4,4',6' - HpCB	K0.480	0.488	<0.166		0.05	0.44	
PCB-172	2,2',3,3',4,5,5' - HpCB	K0.198	<0.161	K0.213				
PCB-174	2,2',3,3',4,5,6' - HpCB	0.496	K0.739	K0.750		0.47	0.03	
PCB-175	2,2',3,3',4,5',6' - HpCB	K0.212	<0.146	<0.159				
PCB-176	2,2',3,3',4,6,6' - HpCB	K0.129	<0.116	K0.287				
PCB-177	2,2',3,3',4',5,6' - HpCB	K0.248	0.541	K1.04			0.54	
PCB-178	2,2',3,3',5,5',6' - HpCB	K0.236	K0.243	K0.434				
PCB-179	2,2',3,3',5,6,6' - HpCB	K0.252	K0.386	K0.319		0.30		
PCB-180/193	2,2',3,4,4',5,5' - HpCB	K1.75	K2.21	K3.10		0.34		
PCB-181	2,2',3,4,4',5,6' - HpCB	K0.092	<0.150	<0.153		0.04		
PCB-182	2,2',3,4,4',5,6' - HpCB	K0.099	<0.147	<0.159		0.08		
PCB-183/185	2,2',3,4,4',5',6' - HpCB	K0.372	K0.824	K0.289				
PCB-184	2,2',3,4,4',6,6' - HpCB	K0.072	K0.178	<0.117				

**Table C-4
Raw Data and Blank Correction Calculations - Workgroup 10490**

Location	PCB ID	Original Data				Average Blank	Blank Corrected Data	
		Plante's Ferry	Forebay - Shallow	LAB BLANK	SPIKED MATRIX		Plante's Ferry	Forebay - Shallow
CLIENT ID		AN-01SW-030902	AN-03ASW-030902	WG10490-101 i	WG10490-102		AN-01SW-030902	AN-03ASW-030902
AXYS ID		L6133-7	L6133-12	WG10490-101 i	WG10490-102		L6133-7	L6133-12
WORKGROUP		WG10490	WG10490	WG10490	WG10490		WG10490	WG10490
UNITS		pg/L	pg/L	pg/L	% REC		pg/L	pg/L
PCB-186	2,2',3,4,5,6,6' - HpCB	K0.062	<0.116	0.152		0.15		
PCB-187	2,2',3,4',5,5',6 - HpCB	K0.937	K1.57	K1.75		0.57		
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.171	K0.224	K0.461	103			
PCB-189	2,3,3',4,4',5,5' - HpCB	K0.338	0.336	<0.514	98.2			0.34
PCB-190	2,3,3',4,4',5,6 - HpCB	K0.270	K0.374	K0.356				
PCB-191	2,3,3',4,4',5,6 - HpCB	2.82	0.177	<0.116			2.82	0.18
PCB-192	2,3,3',4,5,5',6 - HpCB	K0.077	K0.142	K0.192		0.10		
PCB-194	2,2',3,3',4,4',5,5' - OcCB	K0.316	0.508	1.08		1.08		
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K0.216	<0.273	K0.513				
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K0.304	0.426	K0.517				0.43
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K0.044	<0.0452	<0.171				
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	K0.400	K0.769	K1.11				
PCB-201	2,2',3,3',4,5',6,6' - OcCB	K0.079	0.185	0.184		0.18		0.00
PCB-202	2,2',3,3',5,5',6,6' - OcCB	K0.248	K0.283	K0.514	103			
PCB-203	2,2',3,4,4',5,5',6 - OcCB	K0.290	K0.593	K0.928				
PCB-204	2,2',3,4,4',5,6,6' - OcCB	K0.076	K0.111	<0.176				
PCB-205	2,3,3',4,4',5,5',6 - OcCB	0.279	<0.268	K0.326	109		0.28	
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	<1.74	<1.45	<2.42	92.5			
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<1.07	<0.912	<2.29				
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<1.08	<0.938	<2.50	99.1			
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	K0.455	K0.405	1.14	91.7	0.73		
Total Monochloro Biphenyls		<0.993	1.9	<2.75			0.00	0.21
Total Dichloro Biphenyls		33.8	93	<12.5			10.38	79.25
Total Trichloro Biphenyls		47.5	45.2	23			26.73	23.25
Total Tetrachloro Biphenyls		44.4	64.7	25.5			26.82	48.15
Total Pentachloro Biphenyls		14.1	39.1	19.1			4.83	25.54
Total Hexachloro Biphenyls		6.05	15.4	9.84			2.36	8.38
Total Heptachloro Biphenyls		3.32	2.92	<0.514			2.85	2.25
Total Octachloro Biphenyls		0.279	1.12	1.27			0.28	0.43
Total Nonachloro Biphenyls		<1.74	<1.45	<2.50			0.00	0.00
Decachloro Biphenyl		<0.0871	<0.0608	1.14			0.00	0.00
TOTAL PCBs		149	263	79.8			74.24	187.46

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

K = target compound could not be confirmed by satisfying all method criteria

**Table C-5
Raw Data and Blank Correction Calculations - Workgroup 10228**

Location CLIENT ID AXYSD WORKGROUP UNITS	PCB ID	Original Data								
		Boulder - Shallow	Plante's Dupe	Well D16	Trip Blank	Well D16 Dupe	Electric Well Dupe	Electric Well	Trip Blank	LAB BLANK
		AN-02ASW-030902	AN-51SW-030902	AN-D16GW-030904	AN-D16GWTB-030904	AN-D66GW-030904	AN-EW50GW-030904	AN-EWGW-030904	L6133-2	WG10228-101
		L6133-9	L6133-8	L6133-3	L6133-1	L6133-4	L6133-6	L6133-5	L6133-2	WG10228-101
		WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228
		pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	
PCB-1	2 - MoCB	1.32	1.15	1.72	1.3	2.43	0.872	1.16	0.831	K0.417
PCB-2	3 - MoCB	0.942	0.482	0.683	1.24	0.897	0.791	0.947	K0.641	0.471
PCB-3	4 - MoCB	0.945	1.1	2.1	K2.26	1.98	1.56	2.41	K1.71	K1.10
PCB-4	2,2' - DiCB	3.76	5.43	<1.85	<3.47	<2.32	<1.99	<4.71	<1.33	<1.17
PCB-5	2,3 - DiCB	<1.46	<0.850	<1.43	<2.72	<1.63	<1.54	<3.54	<1.03	<0.995
PCB-6	2,3' - DiCB	1.62	2.4	<1.35	<2.53	<1.54	<1.46	<3.35	<0.956	<0.925
PCB-7	2,4 - DiCB	<1.37	1.57	2.49	6.06	<1.52	2.82	<3.29	3.05	1.49
PCB-8	2,4' - DiCB	3.4	3.91	3.46	<2.39	3.48	2.47	<3.13	K1.98	<0.876
PCB-9	2,5 - DiCB	<1.38	<0.794	<1.33	<2.44	<1.52	<1.44	<3.30	<0.922	<0.892
PCB-10	2,6 - DiCB	<1.44	<0.819	<1.38	<2.46	<1.57	<1.48	<3.41	<0.930	<0.900
PCB-11	3,3' - DiCB	79.1	3.21	4.71	K6.14	5.11	2.96	<3.39	2.97	1.79
PCB-12/13	3,4 - DiCB	<1.45	<0.814	<1.37	<2.79	<1.56	<1.47	<3.39	<1.05	<1.02
PCB-14	3,5 - DiCB	<1.43	<0.815	<1.37	<2.74	<1.56	<1.48	<3.39	<1.04	<1.00
PCB-15	4,4' - DiCB	2.73	K2.53	4.05	<3.93	4.3	<2.04	<4.60	<1.47	<1.53
PCB-16	2,2',3 - TriCB	2.11	K2.22	K1.11	K1.39	1.18	K0.865	K0.809	0.338	K0.282
PCB-17	2,2',4 - TriCB	K1.27	2.65	K1.55	1.35	1.16	0.86	0.695	0.45	K0.380
PCB-18/30	2,2',5 - TriCB	5.29	6	3.02	K2.69	2.17	K2.16	1.25	K1.04	K0.535
PCB-19	2,2',6 - TriCB	2.77	2.67	0.534	<0.580	K0.324	K0.292	K0.480	<0.289	K0.203
PCB-20/28	2,3,3' - TriCB	9.29	9.69	5.94	2.14	K5.81	K1.81	K1.34	1.09	K0.620
PCB-21/33	2,3,4 - TriCB	2.57	1.86	2.79	K1.60	2.68	1.05	K0.977	K0.614	0.403
PCB-22	2,3,4' - TriCB	2.82	3.47	1.45	K1.27	K1.25	0.568	K0.637	K0.511	0.403
PCB-23	2,3,5 - TriCB	<0.362	<0.107	<0.147	<0.431	<0.206	<0.165	<0.381	<0.198	<0.190
PCB-24	2,3,6 - TriCB	<0.227	0.163	<0.136	<0.412	<0.141	<0.0899	<0.181	<0.189	<0.125
PCB-25	2,3',4 - TriCB	0.832	K0.887	K0.275	<0.382	0.296	K0.215	<0.340	<0.175	<0.168
PCB-26/29	2,3',5 - TriCB	K2.34	K2.38	0.801	0.648	0.762	K0.533	<0.375	K0.298	<0.186
PCB-27	2,3',6 - TriCB	0.828	1.17	0.263	<0.410	K0.263	K0.129	<0.184	<0.188	<0.125
PCB-31	2,4',5 - TriCB	8.77	7.81	K6.14	K2.34	6.21	1.65	K1.19	K1.01	0.697
PCB-32	2,4',6 - TriCB	1.98	3.18	0.766	K0.582	0.809	K0.591	<0.363	K0.336	<0.172
PCB-34	2',3,5 - TriCB	<0.364	<0.105	<0.144	<0.427	<0.202	<0.161	<0.373	<0.196	<0.188
PCB-35	3,3',4 - TriCB	<0.399	K0.150	<0.150	<0.527	<0.209	<0.167	<0.387	<0.242	<0.231
PCB-36	3,3',5 - TriCB	<0.363	<0.100	<0.137	<0.458	<0.192	<0.154	<0.355	<0.210	<0.201
PCB-37	3,4,4' - TriCB	1.91	K1.41	3.53	<0.638	3.5	0.29	<0.435	<0.280	<0.288
PCB-38	3,4,5 - TriCB	<0.371	<0.103	<0.141	<0.475	<0.197	<0.158	<0.365	<0.218	<0.209
PCB-39	3,4',5 - TriCB	<0.362	<0.0975	<0.134	<0.448	<0.187	<0.150	<0.346	<0.206	<0.197
PCB-40/41/71	2,2',3,3' - TeCB	4.09	3.95	1.02	K0.944	1.16	K0.694	K0.557	K0.432	0.335
PCB-42	2,2',3,4' - TeCB	2.38	1.97	K0.578	K0.182	K0.627	K0.270	K0.258	0.21	K0.150
PCB-43	2,2',3,5 - TeCB	0.389	<0.0053	K0.062	K0.086	<0.0090	K0.024	K0.047	K0.036	<0.0138
PCB-44/47/65	2,2',3,5' - TeCB	8.85	7.6	10.5	K2.50	10.5	1.48	1.73	1.21	K0.681
PCB-45/51	2,2',3,6 - TeCB	2.21	K2.24	39.1	0.405	38.5	K0.300	K0.283	K0.158	K0.054
PCB-46	2,2',3,6' - TeCB	0.817	0.731	K0.276	K0.198	K0.150	K0.132	K0.067	0.08	K0.020
PCB-48	2,2',4,5 - TeCB	0.998	1.21	K0.263	K0.500	K0.493	K0.310	K0.119	K0.193	K0.124
PCB-49/69	2,2',4,5' - TeCB	5.11	4.79	3.9	1.29	K3.21	K0.904	K0.848	K0.528	0.416
PCB-50/53	2,2',4,6 - TeCB	1.94	1.8	0.828	0.695	0.544	0.357	0.306	0.252	K0.240
PCB-52	2,2',5,5' - TeCB	10.7	9.57	7.66	3.73	6.73	3.41	3.28	1.48	1.43
PCB-54	2,2',6,6' - TeCB	0.134	0.039	K0.040	K0.023	K0.062	K0.062	K0.047	<0.0084	K0.020
PCB-55	2,3,3',4 - TeCB	<0.428	<0.0478	<0.281	<0.0248	<0.140	<0.0985	<0.216	<0.0457	<0.0128

**Table C-5
Raw Data and Blank Correction Calculations - Workgroup 10228**

Location	PCB ID	Original Data								
		Boulder - Shallow	Plante's Dupe	Well D16	Trip Blank	Well D16 Dupe	Electric Well Dupe	Electric Well	Trip Blank	LAB BLANK
		AN-02ASW-030902	AN-51SW-030902	AN-D16GW-030904	AN-D16GWTB-030904	AN-D66GW-030904	AN-EW50GW-030904	AN-EWGW-030904	L6133-2	WG10228-101
		L6133-9	L6133-8	L6133-3	L6133-1	L6133-4	L6133-6	L6133-5	L6133-2	WG10228-101
		WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	
PCB-56	2,3,3',4' - TeCB	3.9	K1.98	1.49	0.223	1.28	K0.353	0.446	0.34	K0.181
PCB-57	2,3,3',5' - TeCB	<0.412	<0.0473	<0.278	<0.0243	<0.139	<0.0975	<0.214	<0.0448	K0.015
PCB-58	2,3,3',5' - TeCB	<0.408	<0.0465	<0.274	<0.0232	<0.136	<0.0959	<0.210	<0.0429	<0.0120
PCB-59/62/75	2,3,3',6' - TeCB	0.966	0.639	0.375	<0.0298	K0.298	K0.107	K0.143	K0.093	<0.0093
PCB-60	2,3,4,4' - TeCB	1.62	1.15	1.56	K0.223	1.83	0.268	0.238	K0.198	K0.126
PCB-61/70/74/76	2,3,4,5' - TeCB	12.8	6.69	12	K1.52	11.2	1.62	K2.32	K1.10	0.787
PCB-63	2,3,4',5' - TeCB	0.459	K0.197	K0.728	K0.098	0.798	<0.0932	<0.205	<0.0425	<0.0119
PCB-64	2,3,4',6' - TeCB	4.1	3.48	9.07	K0.595	9.07	0.418	K0.457	0.364	K0.236
PCB-66	2,3',4,4' - TeCB	8.1	3.7	14	K0.699	13.6	0.666	0.837	K0.549	K0.237
PCB-67	2,3',4,5' - TeCB	<0.382	0.135	<0.251	0.109	<0.125	<0.0879	<0.193	<0.0394	<0.0110
PCB-68	2,3',4,5' - TeCB	<0.385	<0.0453	3.42	K0.127	3.41	<0.0934	<0.205	0.075	0.11
PCB-72	2,3',5,5' - TeCB	<0.413	<0.0454	<0.267	K0.070	<0.133	<0.0936	<0.205	<0.0413	<0.0115
PCB-73	2,3',5,6' - TeCB	<0.0844	K0.148	K0.105	K0.096	K0.073	0.037	K0.054	K0.022	K0.046
PCB-77	3,3',4,4' - TeCB	1.21	0.375	2.54	K0.640	2.2	0.186	<0.218	K0.076	K0.226
PCB-78	3,3',4,5' - TeCB	<0.433	<0.0478	<0.282	<0.0272	<0.140	<0.0987	<0.217	<0.0501	<0.0140
PCB-79	3,3',4,5' - TeCB	<0.373	<0.0402	<0.237	K0.036	<0.118	<0.0829	<0.182	<0.0408	K0.067
PCB-80	3,3',5,5' - TeCB	<0.397	<0.0438	<0.258	<0.0231	<0.128	<0.0904	<0.198	<0.0426	<0.0119
PCB-81	3,4,4',5' - TeCB	<0.371	<0.0528	<0.324	K0.120	K0.209	<0.111	<0.236	K0.101	K0.066
PCB-82	2,2',3,3',4' - PeCB	1.08	0.336	K0.904	<0.0582	0.818	K0.259	K0.357	K0.097	K0.045
PCB-83/99	2,2',3,3',5' - PeCB	3.92	K1.21	4.78	K0.449	3.96	0.922	1.19	0.343	K0.181
PCB-84	2,2',3,3',6' - PeCB	1.66	1.06	2.24	K0.382	1.62	0.632	0.721	K0.168	K0.106
PCB-85/116/117	2,2',3,4,4' - PeCB	2.13	K0.625	4.84	K0.284	5.42	K0.327	K0.374	K0.088	K0.076
PCB-86/87/97/108/119/125	2,2',3,4,5' - PeCB	4.18	1.85	5.09	K0.422	4.53	1.44	K1.85	K0.607	<0.0168
PCB-88/91	2,2',3,4,6' - PeCB	<0.233	0.636	1.21	K0.377	1.04	K0.314	0.539	K0.066	K0.075
PCB-89	2,2',3,4,6' - PeCB	<0.249	<0.0067	K0.126	K0.089	K0.081	K0.049	K0.052	<0.0156	<0.0206
PCB-90/101/113	2,2',3,4',5' - PeCB	4.87	K1.97	8.93	K1.06	8.19	1.88	2.34	0.609	K0.368
PCB-92	2,2',3,5,5' - PeCB	1.01	0.413	1.51	K0.280	1.54	K0.484	K0.506	K0.213	K0.077
PCB-93/95/98/100/102	2,2',3,5,6' - PeCB	4.77	2.48	6.54	K0.120	5.42	2.42	2.59	<0.0138	K0.111
PCB-94	2,2',3,5,6' - PeCB	<0.247	<0.0066	<0.114	<0.0500	K0.046	<0.0092	K0.047	K0.028	<0.0202
PCB-96	2,2',3,6,6' - PeCB	<0.0976	K0.095	K0.047	K0.135	0.046	K0.015	K0.033	K0.028	K0.024
PCB-103	2,2',4,5',6' - PeCB	<0.211	K0.035	<0.0990	<0.0428	K0.065	K0.031	K0.035	<0.0131	<0.0173
PCB-104	2,2',4,6,6' - PeCB	<0.130	K0.017	K0.082	K0.108	K0.020	K0.018	K0.116	K0.023	K0.014
PCB-105	2,3,3',4,4' - PeCB	1.83	0.944	7.84	K0.697	7.14	0.766	K1.04	K0.261	<0.115
PCB-106	2,3,3',4,5' - PeCB	<0.194	<0.0325	<0.178	<0.0315	<0.122	<0.0052	<0.0916	<0.0126	<0.0924
PCB-107/124	2,3,3',4',5' - PeCB	K0.423	K0.090	0.836	K0.052	K0.739	0.138	<0.0994	K0.023	<0.101
PCB-109	2,3,3',4,6' - PeCB	0.564	<0.0346	K1.17	0.063	<0.130	0.059	K0.146	<0.0131	<0.0962
PCB-110/115	2,3,3',4',6' - PeCB	6.11	2.49	13.3	K1.11	12.2	2.25	K3.30	K0.565	K0.375
PCB-111	2,3,3',5,5' - PeCB	<0.177	K0.013	<0.0777	<0.0358	<0.0253	K0.014	<0.0084	K0.036	<0.0145
PCB-112	2,3,3',5,6' - PeCB	<0.171	<0.0048	<0.0818	<0.0382	K0.058	<0.0066	K0.021	K0.032	0.017
PCB-114	2,3,4,4',5' - PeCB	K0.252	<0.0369	K0.639	K0.314	0.402	K0.070	<0.103	K0.028	<0.0985
PCB-118	2,3',4,4',5' - PeCB	3.51	1.76	13.4	K0.726	12	1.45	1.99	K0.541	0.47
PCB-120	2,3',4,5,5' - PeCB	<0.171	0.013	<0.0764	0.155	<0.0249	<0.0062	<0.0082	<0.0114	K0.033
PCB-121	2,3',4,5',6' - PeCB	<0.176	<0.0047	<0.0801	<0.0350	<0.0261	K0.022	<0.0086	0.015	K0.045
PCB-122	2',3,3',4,5' - PeCB	<0.229	<0.0377	<0.206	K0.079	K0.168	K0.037	<0.106	<0.0142	<0.104
PCB-123	2',3,4,4',5' - PeCB	K0.204	K0.071	K0.982	<0.0388	K0.992	K0.048	<0.105	K0.097	K0.121
PCB-126	3,3',4,4',5' - PeCB	<0.208	K0.043	<0.265	K0.144	<0.159	K0.046	<0.117	K0.069	K0.235

**Table C-5
Raw Data and Blank Correction Calculations - Workgroup 10228**

Location	PCB ID	Original Data								
		Boulder - Shallow	Plante's Dupe	Well D16	Trip Blank	Well D16 Dupe	Electric Well Dupe	Electric Well	Trip Blank	LAB BLANK
		AN-02ASW-030902	AN-51SW-030902	AN-D16GW-030904	AN-D16GWTB-030904	AN-D66GW-030904	AN-EW50GW-030904	AN-EWGW-030904	L6133-2	WG10228-101
		L6133-9	L6133-8	L6133-3	L6133-1	L6133-4	L6133-6	L6133-5	L6133-2	WG10228-101
		WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	
PCB-127	3,3',4,5,5' - PeCB	<0.212	<0.0367	<0.201	<0.0338	<0.137	<0.0059	<0.103	K0.038	<0.0991
PCB-128/166	2,2',3,3',4,4' - HxCB	0.874	K0.254	3.71	K0.088	2.88	K0.308	0.416	K0.204	0.079
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	3.63	1.03	15.6	0.784	12.7	K1.45	K2.19	0.449	<0.0254
PCB-130	2,2',3,3',4,5' - HxCB	K0.312	K0.071	K0.987	<0.0625	0.748	K0.193	0.105	<0.0232	<0.0314
PCB-131	2,2',3,3',4,6 - HxCB	<0.167	K0.041	<0.268	<0.0572	<0.214	K0.138	K0.034	K0.045	<0.0287
PCB-132	2,2',3,3',4,6' - HxCB	1.17	K0.510	K3.17	K0.251	K2.37	0.499	K0.644	<0.0215	<0.0291
PCB-133	2,2',3,3',5,5' - HxCB	<0.163	0.012	<0.245	<0.0568	<0.195	K0.021	<0.0126	K0.072	<0.0285
PCB-134/143	2,2',3,3',5,6 - HxCB	<0.163	K0.032	K0.519	K0.088	<0.205	K0.070	0.214	K0.053	<0.0309
PCB-135/151/154	2,2',3,3',5,6' - HxCB	K1.20	K0.389	K2.68	<0.0566	2.16	K0.467	0.603	K0.078	0.063
PCB-136	2,2',3,3',6,6' - HxCB	0.399	K0.097	0.983	<0.0400	K0.640	K0.187	K0.178	<0.0149	K0.045
PCB-137	2,2',3,4,4',5 - HxCB	K0.233	K0.085	K1.08	<0.0586	0.734	<0.0083	K0.106	<0.0218	<0.0294
PCB-139/140	2,2',3,4,4',6 - HxCB	<0.146	<0.0059	0.28	<0.0529	<0.181	K0.039	<0.0117	<0.0196	K0.071
PCB-141	2,2',3,4,5,5' - HxCB	0.754	K0.197	1.71	K0.340	1.27	K0.239	<0.0123	K0.060	<0.0293
PCB-142	2,2',3,4,5,6 - HxCB	<0.164	<0.0064	<0.245	<0.0566	<0.195	K0.012	<0.0126	<0.0210	<0.0284
PCB-144	2,2',3,4,5',6 - HxCB	K0.088	K0.014	K0.292	<0.0586	K0.220	K0.041	<0.0162	<0.0218	<0.0344
PCB-145	2,2',3,4,6,6' - HxCB	<0.0126	K0.016	<0.0111	<0.0437	<0.0072	<0.0108	<0.0125	<0.0162	<0.0256
PCB-146	2,2',3,4',5,5' - HxCB	0.664	K0.135	2.04	<0.0482	1.55	0.237	K0.137	K0.085	<0.0242
PCB-147/149	2,2',3,4',5,6 - HxCB	2.53	0.692	6.6	K0.847	K4.66	K1.08	1.47	K0.415	K0.367
PCB-148	2,2',3,4',5,6' - HxCB	<0.0164	<0.0097	<0.0146	<0.0594	<0.0094	K0.035	<0.0164	<0.0220	<0.0348
PCB-150	2,2',3,4',6,6' - HxCB	K0.037	<0.0070	K0.051	<0.0406	K0.024	<0.0103	<0.0119	<0.0151	K0.024
PCB-152	2,2',3,5,6,6' - HxCB	K0.050	K0.012	K0.063	<0.0364	<0.0068	K0.019	K0.012	<0.0135	<0.0213
PCB-153/168	2,2',4,4',5,5' - HxCB	3.01	K0.911	8.36	K0.737	6.31	0.913	1.24	K0.439	0.365
PCB-155	2,2',4,4',6,6' - HxCB	K0.058	K0.021	K0.061	0.094	0.033	K0.107	<0.0129	K0.042	K0.063
PCB-156/157	2,3,3',4,4',5 - HxCB	0.636	0.168	1.8	K0.110	1.44	K0.271	K0.346	K0.088	K0.117
PCB-158	2,3,3',4,4',6 - HxCB	K0.315	K0.112	K1.26	<0.0413	0.867	0.144	K0.226	K0.052	<0.0207
PCB-159	2,3,3',4,5,5' - HxCB	<0.121	<0.0048	<0.183	<0.0449	<0.146	K0.015	<0.0094	K0.024	<0.0226
PCB-161	2,3,3',4,5',6 - HxCB	<0.121	K0.014	<0.178	<0.0406	<0.142	<0.0059	0.041	<0.0151	<0.0204
PCB-162	2,3,3',4',5,5' - HxCB	<0.117	K0.009	<0.176	<0.0458	<0.140	0.016	K0.036	K0.032	<0.0230
PCB-164	2,3,3',4',5',6 - HxCB	K0.294	K0.055	1.01	K0.323	K0.766	<0.0060	K0.171	K0.023	K0.057
PCB-165	2,3,3',5,5',6 - HxCB	<0.127	0.008	<0.194	K0.048	<0.154	K0.036	<0.0100	K0.046	<0.0228
PCB-167	2,3',4,4',5,5' - HxCB	0.295	K0.089	K0.717	K0.056	0.643	K0.075	K0.127	K0.067	<0.0178
PCB-169	3,3',4,4',5,5' - HxCB	K0.228	K0.018	K0.424	<0.104	<0.153	<0.0058	<0.0250	<0.102	<0.107
PCB-170	2,2',3,3',4,4',5 - HpCB	K0.816	K0.213	K2.21	<0.0631	1.61	K0.172	0.411	K0.079	K0.044
PCB-171/173	2,2',3,3',4,4',6 - HpCB	K0.308	<0.0080	0.573	<0.0665	K0.393	K0.021	K0.046	<0.0279	0.046
PCB-172	2,2',3,3',4,5,5' - HpCB	K0.247	<0.0081	0.533	<0.0694	K0.384	<0.0122	K0.071	K0.040	<0.0291
PCB-174	2,2',3,3',4,5,6' - HpCB	K0.880	<0.0076	1.69	<0.0686	K1.23	K0.085	K0.274	K0.154	<0.0287
PCB-175	2,2',3,3',4,5',6 - HpCB	K0.050	<0.0075	<0.0139	<0.0716	K0.035	<0.0111	0.038	K0.033	<0.0300
PCB-176	2,2',3,3',4,6,6' - HpCB	K0.154	K0.022	<0.0105	<0.0480	0.14	<0.0084	K0.051	<0.0202	<0.0201
PCB-177	2,2',3,3',4',5,6 - HpCB	0.549	<0.0076	1.49	<0.0671	0.881	K0.173	K0.241	K0.074	K0.066
PCB-178	2,2',3,3',5,5',6 - HpCB	K0.244	K0.096	0.792	K0.090	K0.662	<0.0114	<0.0144	K0.031	<0.0292
PCB-179	2,2',3,3',5,6,6' - HpCB	K0.354	K0.128	0.693	<0.0484	K0.618	K0.098	<0.0105	K0.042	K0.065
PCB-180/193	2,2',3,4,4',5,5' - HpCB	1.58	<0.0064	3.94	K0.359	K3.42	K0.340	K0.423	0.342	<0.0213
PCB-181	2,2',3,4,4',5,6 - HpCB	K0.076	<0.0074	K0.100	<0.0612	K0.027	K0.033	K0.030	0.037	<0.0256
PCB-182	2,2',3,4,4',5,6' - HpCB	<0.0153	<0.0073	0.097	K0.113	K0.019	K0.018	0.034	<0.0283	<0.0282
PCB-183/185	2,2',3,4,4',5',6 - HpCB	0.594	<0.0072	1.21	<0.0648	0.695	K0.076	0.042	<0.0272	<0.0271
PCB-184	2,2',3,4,4',6,6' - HpCB	<0.0114	<0.0053	K0.065	0.044	K0.043	<0.0080	K0.037	<0.0181	<0.0181

**Table C-5
Raw Data and Blank Correction Calculations - Workgroup 10228**

Location CLIENT ID AXYSD WORKGROUP UNITS	PCB ID	Original Data								
		Boulder - Shallow	Plante's Dupe	Well D16	Trip Blank	Well D16 Dupe	Electric Well Dupe	Electric Well	Trip Blank	LAB BLANK
		AN-02ASW-030902	AN-51SW-030902	AN-D16GW-030904	AN-D16GWTB-030904	AN-D66GW-030904	AN-EW50GW-030904	AN-EWGW-030904	L6133-2	WG10228-101
		L6133-9	L6133-8	L6133-3	L6133-1	L6133-4	L6133-6	L6133-5	L6133-2	WG10228-101
		WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228	WG10228
		pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	
PCB-186	2,2',3,4,5,6,6' - HpCB	K0.038	0.018	K0.028	<0.0470	K0.031	<0.0085	<0.0108	<0.0198	<0.0197
PCB-187	2,2',3,4',5,5',6 - HpCB	0.938	K0.397	3.18	K0.110	K2.91	K0.201	K0.319	K0.196	K0.261
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.044	K0.021	K0.089	<0.0385	K0.014	<0.0084	K0.031	K0.141	<0.0162
PCB-189	2,3,3',4,4',5,5' - HpCB	K0.136	K0.025	K0.357	K0.160	K0.162	<0.0538	K0.096	K0.066	<0.0238
PCB-190	2,3,3',4,4',5,6 - HpCB	K0.219	<0.0057	K0.589	<0.0466	K0.470	K0.053	K0.056	<0.0196	K0.054
PCB-191	2,3,3',4,4',5',6 - HpCB	K0.024	<0.0059	K0.132	<0.0484	K0.080	<0.0088	K0.020	<0.0203	<0.0203
PCB-192	2,3,3',4,5,5',6 - HpCB	K0.023	K0.014	K0.043	<0.0536	<0.0093	<0.0093	K0.012	0.101	<0.0224
PCB-194	2,2',3,3',4,4',5,5' - OcCB	K0.374	K0.190	K1.09	<0.0439	K0.863	<0.0067	K0.160	K0.082	K0.031
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K0.189	K0.024	K0.628	<0.0466	K0.408	<0.0072	K0.015	K0.021	<0.0255
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K0.239	K0.040	0.465	<0.0763	0.251	<0.0130	<0.0195	K0.074	<0.0304
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K0.057	<0.0081	<0.0131	<0.0560	K0.029	<0.0097	<0.0145	<0.0267	<0.0224
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	0.416	K0.266	K1.49	0.267	K1.25	<0.0128	K0.206	<0.0338	K0.073
PCB-201	2,2',3,3',4,5',6,6' - OcCB	K0.113	0.02	K0.254	<0.0583	<0.0101	<0.0098	<0.0147	<0.0278	<0.0233
PCB-202	2,2',3,3',5,5',6,6' - OcCB	0.206	K0.116	K0.485	<0.0699	K0.322	<0.0107	K0.040	K0.068	<0.0281
PCB-203	2,2',3,4,4',5,5',6 - OcCB	K0.327	<0.0100	1.16	0.134	0.703	<0.0120	K0.153	<0.0322	<0.0270
PCB-204	2,2',3,4,4',5,6,6' - OcCB	K0.058	<0.0081	<0.0130	<0.0573	<0.0100	<0.0097	K0.025	<0.0273	<0.0229
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K0.138	K0.032	K0.546	K0.041	K0.286	<0.0057	K0.176	K0.049	<0.0178
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	<0.629	K0.146	1.45	<0.322	K0.890	<0.168	<0.181	<0.128	K0.049
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<0.487	<0.105	<0.125	<0.312	<0.0825	<0.133	<0.143	<0.127	<0.0380
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<0.491	K0.259	0.575	0.43	0.416	<0.143	<0.152	<0.128	K0.088
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	0.459	K0.275	K1.07	K0.623	0.716	K0.558	K0.506	K0.307	K0.373
Total Monochloro Biphenyls		3.21	2.74	4.51	2.53	5.31	3.23	4.52	0.831	0.471
Total Dichloro Biphenyls		90.6	16.5	14.7	6.06	12.9	8.25	<4.71	6.02	3.29
Total Trichloro Biphenyls		39.1	38.7	19.1	4.14	18.8	4.42	1.94	1.88	1.5
Total Tetrachloro Biphenyls		70.7	47.8	108	6.45	101	8.45	6.84	4.01	3.08
Total Pentachloro Biphenyls		35.6	12	70.5	0.218	64.3	12	9.38	0.967	0.487
Total Hexachloro Biphenyls		14	1.91	42.1	0.878	31.3	1.81	4.09	0.449	0.507
Total Heptachloro Biphenyls		3.67	0.018	14.2	<0.0716	3.33	<0.0538	0.525	0.48	0.046
Total Octachloro Biphenyls		0.622	0.02	1.63	0.401	0.954	<0.0130	<0.0195	<0.0364	<0.0304
Total Nonachloro Biphenyls		<0.629	<0.136	2.02	0.43	0.416	<0.168	<0.181	<0.128	<0.0394
Decachloro Biphenyl		0.459	<0.0079	<0.0126	<0.0416	0.716	<0.0093	<0.0102	<0.0175	<0.0252
TOTAL PCBs		258	120	276	21.1	239	38.1	27.3	14.6	9.38

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

K = target compound could not be confirmed by satisfying all method criteria

**Table C-5
Raw Data and Blank Correction Calculations - Workgroup 10228**

Location CLIENT ID AXYSD WORKGROUP UNITS	PCB ID	Original Data		Average Blank	Blank Corrected Data	
		SPIKED MATRIX WG10228-102 WG10228	Field/Bottle Blank		Corrected for Average Blank	
			AN-00SWRB-030902		Boulder - Shallow	Plante's Dupe
			L6133-14		AN-02ASW-030902	AN-51SW-030902
			WG10229		L6133-9	L6133-8
% REC	pg/L	WG10228	WG10228	pg/L	pg/L	
PCB-1	2 - MoCB	105	1.00	0.79	0.53	0.36
PCB-2	3 - MoCB			0.38	0.56	0.10
PCB-3	4 - MoCB	105	1.69	1.69		
PCB-4	2,2' - DiCB	113	1.76	1.76	2.00	3.67
PCB-5	2,3 - DiCB					
PCB-6	2,3' - DiCB				1.62	2.40
PCB-7	2,4 - DiCB		37.10	17.56		
PCB-8	2,4' - DiCB		4.91	3.26	0.15	0.66
PCB-9	2,5 - DiCB					
PCB-10	2,6 - DiCB					
PCB-11	3,3' - DiCB		8.09	4.38	74.72	
PCB-12/13	3,4 - DiCB					
PCB-14	3,5 - DiCB					
PCB-15	4,4' - DiCB	115	3.05	2.22	0.52	
PCB-16	2,2',3 - TriCB		1.63	0.98	1.13	
PCB-17	2,2',4 - TriCB		2.15	1.40		1.25
PCB-18/30	2,2',5 - TriCB		4.14	3.17	2.12	2.83
PCB-19	2,2',6 - TriCB	100	0.57	2.45	0.32	0.22
PCB-20/28	2,3,3' - TriCB		6.78	4.64	4.65	5.05
PCB-21/33	2,3,4 - TriCB		1.95	1.67	0.90	0.19
PCB-22	2,3,4' - TriCB		1.24	0.82	2.00	2.65
PCB-23	2,3,5 - TriCB					
PCB-24	2,3,6 - TriCB					0.16
PCB-25	2,3',4 - TriCB		0.28	0.28	0.56	
PCB-26/29	2,3',5 - TriCB		0.75	0.75		
PCB-27	2,3',6 - TriCB				0.83	1.17
PCB-31	2,4',5 - TriCB		3.25	3.10	5.67	4.71
PCB-32	2,4',6 - TriCB		1.02	0.88	1.10	2.30
PCB-34	2',3,5 - TriCB					
PCB-35	3,3',4 - TriCB					
PCB-36	3,3',5 - TriCB					
PCB-37	3,4,4' - TriCB	118		1.96		
PCB-38	3,4,5 - TriCB					
PCB-39	3,4',5 - TriCB					
PCB-40/41/71	2,2',3,3' - TeCB			1.77	2.32	2.18
PCB-42	2,2',3,4' - TeCB		0.51	0.36	2.02	1.61
PCB-43	2,2',3,5 - TeCB			0.13	0.26	
PCB-44/47/65	2,2',3,5' - TeCB		5.01	2.93	5.92	4.67
PCB-45/51	2,2',3,6 - TeCB		0.72	1.48	0.73	
PCB-46	2,2',3,6' - TeCB			0.08	0.74	0.65
PCB-48	2,2',4,5 - TeCB			0.58	0.42	0.63
PCB-49/69	2,2',4,5' - TeCB		1.52	1.73	3.38	3.06
PCB-50/53	2,2',4,6 - TeCB		0.58	0.92	1.02	0.88
PCB-52	2,2',5,5' - TeCB		3.82	2.24	8.46	7.33
PCB-54	2,2',6,6' - TeCB	102			0.13	0.04
PCB-55	2,3,3',4 - TeCB					

**Table C-5
Raw Data and Blank Correction Calculations - Workgroup 10228**

Location CLIENT ID AXYSD WORKGROUP UNITS	PCB ID	Original Data		Average Blank	Blank Corrected Data	
		SPIKED MATRIX WG10228-102 WG10228 % REC	Field/Bottle Blank		Corrected for Average Blank	
			AN-00SWRB-030902		Boulder - Shallow	Plante's Dupe
			L6133-14 WG10229 pg/L		L6133-9 WG10228 pg/L	L6133-8 WG10228 pg/L
PCB-56	2,3,3',4' - TeCB			0.46	3.44	
PCB-57	2,3,3',5' - TeCB					
PCB-58	2,3,3',5' - TeCB					
PCB-59/62/75	2,3,3',6' - TeCB				0.97	0.64
PCB-60	2,3,4,4' - TeCB				1.62	1.15
PCB-61/70/74/76	2,3,4,5' - TeCB		3.20	3.56	9.24	3.13
PCB-63	2,3,4',5' - TeCB				0.46	
PCB-64	2,3,4',6' - TeCB		0.80	0.58	3.52	2.90
PCB-66	2,3',4,4' - TeCB		1.94	2.71	5.39	0.99
PCB-67	2,3',4,5' - TeCB					0.14
PCB-68	2,3',4,5' - TeCB			0.09		
PCB-72	2,3',5,5' - TeCB					
PCB-73	2,3',5',6' - TeCB					
PCB-77	3,3',4,4' - TeCB	111			1.21	0.38
PCB-78	3,3',4,5' - TeCB					
PCB-79	3,3',4,5' - TeCB					
PCB-80	3,3',5,5' - TeCB					
PCB-81	3,4,4',5' - TeCB	114				
PCB-82	2,2',3,3',4' - PeCB				1.08	0.34
PCB-83/99	2,2',3,3',5' - PeCB			0.34	3.58	
PCB-84	2,2',3,3',6' - PeCB			0.35	1.31	0.71
PCB-85/116/117	2,2',3,4,4' - PeCB				2.13	
PCB-86/87/97/108/119/125	2,2',3,4,5' - PeCB		1.75	2.83	1.36	
PCB-88/91	2,2',3,4,6' - PeCB					0.64
PCB-89	2,2',3,4,6' - PeCB					
PCB-90/101/113	2,2',3,4',5' - PeCB		2.03	2.06	2.81	
PCB-92	2,2',3,5,5' - PeCB		0.34	0.34	0.68	0.08
PCB-93/95/98/100/102	2,2',3,5,6' - PeCB		2.02	1.76	3.01	0.72
PCB-94	2,2',3,5,6' - PeCB					
PCB-96	2,2',3,6,6' - PeCB					
PCB-103	2,2',4,5',6' - PeCB					
PCB-104	2,2',4,6,6' - PeCB	95.4				
PCB-105	2,3,3',4,4' - PeCB	110		1.70	0.13	
PCB-106	2,3,3',4,5' - PeCB					
PCB-107/124	2,3,3',4',5' - PeCB					
PCB-109	2,3,3',4,6' - PeCB				0.56	
PCB-110/115	2,3,3',4',6' - PeCB		1.67	2.25	3.86	0.24
PCB-111	2,3,3',5,5' - PeCB					
PCB-112	2,3,3',5,6' - PeCB			0.02		
PCB-114	2,3,4,4',5' - PeCB	106				
PCB-118	2,3',4,4',5' - PeCB	111	1.86	2.31	1.20	
PCB-120	2,3',4,5,5' - PeCB					0.01
PCB-121	2,3',4,5',6' - PeCB		0.02	0.02		
PCB-122	2',3,3',4,5' - PeCB					
PCB-123	2',3,4,4',5' - PeCB	111				
PCB-126	3,3',4,4',5' - PeCB	108				

**Table C-5
Raw Data and Blank Correction Calculations - Workgroup 10228**

Location CLIENT ID AXYSD WORKGROUP UNITS	PCB ID	Original Data		Average Blank	Blank Corrected Data	
		SPIKED MATRIX WG10228-102 WG10228 % REC	Field/Bottle Blank		Corrected for Average Blank	
			AN-00SWRB-030902		Boulder - Shallow	Plante's Dupe
			L6133-14		AN-02ASW-030902	AN-51SW-030902
			WG10229		L6133-9	L6133-8
pg/L	WG10228	WG10228				
					pg/L	pg/L
PCB-127	3,3',4,5,5' - PeCB					
PCB-128/166	2,2',3,3',4,4' - HxCB			0.08	0.80	
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB		1.63	1.09	2.54	
PCB-130	2,2',3,3',4,5' - HxCB					
PCB-131	2,2',3,3',4,6 - HxCB					
PCB-132	2,2',3,3',4,6' - HxCB			1.76		
PCB-133	2,2',3,3',5,5' - HxCB					0.01
PCB-134/143	2,2',3,3',5,6 - HxCB			0.15		
PCB-135/151/154	2,2',3,3',5,6' - HxCB		0.95	0.51		
PCB-136	2,2',3,3',6,6' - HxCB		0.34	0.34	0.06	
PCB-137	2,2',3,4,4',5 - HxCB					
PCB-139/140	2,2',3,4,4',6 - HxCB					
PCB-141	2,2',3,4,5,5' - HxCB		0.25	0.25	0.51	
PCB-142	2,2',3,4,5,6 - HxCB					
PCB-144	2,2',3,4,5,6 - HxCB					
PCB-145	2,2',3,4,6,6' - HxCB					
PCB-146	2,2',3,4',5,5' - HxCB			1.47		
PCB-147/149	2,2',3,4',5,6 - HxCB			0.80	1.73	
PCB-148	2,2',3,4',5,6' - HxCB					
PCB-150	2,2',3,4',6,6' - HxCB					
PCB-152	2,2',3,5,6,6' - HxCB					
PCB-153/168	2,2',4,4',5,5' - HxCB		2.04	2.40	0.62	
PCB-155	2,2',4,4',6,6' - HxCB	96.2	0.11	0.11		
PCB-156/157	2,3,3',4,4',5 - HxCB	100		1.24		
PCB-158	2,3,3',4,4',6 - HxCB					
PCB-159	2,3,3',4,5,5' - HxCB					
PCB-161	2,3,3',4,5,6 - HxCB					
PCB-162	2,3,3',4',5,5' - HxCB					
PCB-164	2,3,3',4',5',6 - HxCB					
PCB-165	2,3,3',5,5',6 - HxCB					0.01
PCB-167	2,3',4,4',5,5' - HxCB	101			0.30	
PCB-169	3,3',4,4',5,5' - HxCB	104		0.59		
PCB-170	2,2',3,3',4,4',5 - HpCB			0.62		
PCB-171/173	2,2',3,3',4,4',6 - HpCB			0.05		
PCB-172	2,2',3,3',4,5,5' - HpCB					
PCB-174	2,2',3,3',4,5,6' - HpCB		0.47	0.47		
PCB-175	2,2',3,3',4,5',6 - HpCB					
PCB-176	2,2',3,3',4,6,6' - HpCB					
PCB-177	2,2',3,3',4',5,6 - HpCB				0.55	
PCB-178	2,2',3,3',5,5',6 - HpCB					
PCB-179	2,2',3,3',5,6,6' - HpCB			0.30		
PCB-180/193	2,2',3,4,4',5,5' - HpCB			0.34	1.24	
PCB-181	2,2',3,4,4',5,6 - HpCB			0.04		
PCB-182	2,2',3,4,4',5,6' - HpCB		0.08	0.08		
PCB-183/185	2,2',3,4,4',5',6 - HpCB				0.59	
PCB-184	2,2',3,4,4',6,6' - HpCB					

**Table C-5
Raw Data and Blank Correction Calculations - Workgroup 10228**

Location CLIENT ID AXYSD WORKGROUP UNITS	PCB ID	Original Data		Average Blank	Blank Corrected Data	
		SPIKED MATRIX WG10228-102 WG10228 % REC	Field/Bottle Blank		Corrected for Average Blank	
			AN-00SWRB-030902		Boulder - Shallow	Plante's Dupe
			L6133-14		AN-02ASW-030902	AN-51SW-030902
			WG10229		L6133-9	L6133-8
pg/L	WG10228	WG10228				
					pg/L	pg/L
PCB-186	2,2',3,4,5,6,6' - HpCB			0.15		
PCB-187	2,2',3,4',5,5',6 - HpCB		0.63	0.57	0.36	
PCB-188	2,2',3,4',5,6,6' - HpCB	92.6				
PCB-189	2,3,3',4,4',5,5' - HpCB	112				
PCB-190	2,3,3',4,4',5,6 - HpCB					
PCB-191	2,3,3',4,4',5',6 - HpCB					
PCB-192	2,3,3',4,5,5',6 - HpCB			0.10		
PCB-194	2,2',3,3',4,4',5,5' - OcCB			1.08		
PCB-195	2,2',3,3',4,4',5,6 - OcCB					
PCB-196	2,2',3,3',4,4',5,6' - OcCB					
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB					
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB				0.42	
PCB-201	2,2',3,3',4,5',6,6' - OcCB			0.18		
PCB-202	2,2',3,3',5,5',6,6' - OcCB	99.7			0.21	
PCB-203	2,2',3,4,4',5,5',6 - OcCB					
PCB-204	2,2',3,4,4',5,6,6' - OcCB					
PCB-205	2,3,3',4,4',5,5',6 - OcCB	101				
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	97.6				
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB					
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	95.2				
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	90.8	0.49	0.73		
Total Monochloro Biphenyls			2.69		1.09	0.46
Total Dichloro Biphenyls			54.90		79.00	6.73
Total Trichloro Biphenyls			23.80		19.26	20.52
Total Tetrachloro Biphenyls			18.10		51.24	30.36
Total Pentachloro Biphenyls			9.68		21.70	2.74
Total Hexachloro Biphenyls			5.30		6.54	0.02
Total Heptachloro Biphenyls			1.18		2.74	0.00
Total Octachloro Biphenyls			<0.0317		0.62	0.00
Total Nonachloro Biphenyls			<0.282		0.00	0.00
Decachloro Biphenyl			0.49		0.00	0.00
TOTAL PCBs			116.00		182.18	60.83

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

K = target compound could not be confirmed by satisfying all method cri

Table C-6
Raw Data and Blank Correction Calculations - Workgroup 10229

Type	Field	Field	Field	Field	Lab QC	Field Blank	Field QC		
Location	Monroe St	Monroe St	Riverside	Riverside	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-13SW-030902	AN-13SW-030902	AN-14SW-030902	AN-14SW-030902	LAB BLANK	AN-00SWRB-030902	Trip Blank		SPIKED MATRIX
Axys ID	L6133-17	L6133-17	L6133-18	L6133-18	WG11825-101	L6133-14	L6133-2	Average	WG11825-102
WORKGROUP	WG11825	WG11825	WG11825	WG11825	WG11825	WG10229	WG10228	Blank	WG11825
UNITS	pg/L	blank corr.	pg/L	blank corr.	pg/L	pg/L	pg/L	pg/L	% REC
PCB-1	1.02	0.24	K1.33	U	0.524	0.999	0.831	0.78	106
PCB-2	K0.665	U	1.24	1.24	K0.356	K0.799	K0.641	0.00	
PCB-3	K1.32	U	K1.61	U	K0.993	1.69	K1.71	1.69	109
PCB-4	K1.99	U	5.13	3.37	<0.563	1.76	<1.33	1.76	99.5
PCB-5	<0.988	U	<0.548	U	<0.453	<1.18	<1.03	0.00	
PCB-6	<0.960	U	1.13	1.13	<0.440	K1.32	<0.956	0.00	
PCB-7	2.68	UB	3.21	UB	<0.423	37.1	3.05	20.08	
PCB-8	2.32	UB	3.66	UB	K0.669	4.91	K1.98	4.91	
PCB-9	<0.926	U	<0.513	U	<0.424	<1.02	<0.922	0.00	
PCB-10	<0.941	U	<0.521	U	<0.431	<1.08	<0.930	0.00	
PCB-11	50.9	45.37	75.9	70.37	K5.27	8.09	2.97	5.53	
PCB-12/13	<0.986	U	K1.40	U	<0.452	<1.18	<1.05	0.00	
PCB-14	<0.949	U	<0.526	U	<0.435	<1.12	<1.04	0.00	
PCB-15	2.09	UB	3.53	0.48	<0.565	3.05	<1.47	3.05	105
PCB-16	1.73	0.75	4.11	3.13	K0.519	1.63	0.338	0.98	
PCB-17	1.88	0.58	4	2.70	K0.614	2.15	0.45	1.30	
PCB-18/30	4.08	UB	10.3	6.16	K1.04	4.14	K1.04	4.14	
PCB-19	1.25	0.68	2.23	1.66	<0.188	0.568	<0.289	0.57	109
PCB-20/28	6.07	3.04	11.2	8.17	1.22	6.78	1.09	3.03	
PCB-21/33	1.83	0.54	3.87	2.58	0.622	1.95	K0.614	1.29	
PCB-22	1.88	1.08	3.78	2.98	0.363	1.24	K0.511	0.80	
PCB-23	<0.253	U	<0.193	U	<0.209	<0.169	<0.198	0.00	
PCB-24	<0.152	U	K0.216	U	<0.119	<0.161	<0.189	0.00	
PCB-25	K0.380	U	K0.703	U	<0.187	0.277	<0.175	0.28	
PCB-26/29	1.05	0.30	2.27	1.52	K0.233	0.751	K0.298	0.75	
PCB-27	0.539	0.54	0.908	0.91	<0.116	K0.279	<0.188	0.00	
PCB-31	4.72	1.47	10.1	6.85	K1.17	3.25	K1.01	3.25	
PCB-32	0.94	0.29	2.64	1.99	0.29	1.02	K0.336	0.66	
PCB-34	<0.256	U	<0.195	U	<0.212	<0.173	<0.196	0.00	
PCB-35	<0.268	U	K0.529	U	<0.222	<0.199	<0.242	0.00	
PCB-36	<0.239	U	0.279	0.28	<0.198	<0.180	<0.210	0.00	
PCB-37	0.992	0.99	2.03	2.03	K0.375	K1.30	<0.280	0.00	100
PCB-38	<0.257	U	<0.196	U	<0.212	<0.188	<0.218	0.00	
PCB-39	<0.246	U	<0.188	U	<0.204	<0.180	<0.206	0.00	
PCB-40/41/71	3.44	2.98	5.2	4.74	0.462	K1.09	K0.432	0.46	
PCB-42	1.71	1.41	2.31	2.01	0.178	0.511	0.21	0.30	
PCB-43	K0.224	U	K0.677	U	<0.107	K0.114	K0.036	0.00	
PCB-44/47/65	7.73	5.24	12.3	9.81	1.26	5.01	1.21	2.49	
PCB-45/51	1.48	0.76	2.21	1.49	K0.251	0.722	K0.158	0.72	
PCB-46	K0.725	U	0.828	0.75	<0.105	K0.235	0.08	0.08	
PCB-48	1.35	1.35	1.86	1.86	K0.183	K0.413	K0.193	0.00	
PCB-49/69	4.88	3.36	6.74	5.22	K0.608	1.52	K0.528	1.52	
PCB-50/53	1.66	1.25	1.76	1.35	K0.247	0.575	0.252	0.41	
PCB-52	11.5	9.29	20.6	18.39	1.34	3.82	1.48	2.21	
PCB-54	K0.125	U	<0.0660	U	K0.068	K0.125	<0.0084	0.00	107
PCB-55	<0.427	U	<0.295	U	<0.293	<0.173	<0.0457	0.00	

Table C-6
Raw Data and Blank Correction Calculations - Workgroup 10229

Type	Field	Field	Field	Field	Lab QC	Field Blank	Field QC		
Location	Monroe St	Monroe St	Riverside	Riverside	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-13SW-030902	AN-13SW-030902	AN-14SW-030902	AN-14SW-030902	LAB BLANK	AN-00SWRB-030902	Trip Blank		SPIKED MATRIX
Axys ID	L6133-17	L6133-17	L6133-18	L6133-18	WG11825-101	L6133-14	L6133-2	Average	WG11825-102
WORKGROUP	WG11825	WG11825	WG11825	WG11825	WG11825	WG10229	WG10228	Blank	WG11825
UNITS	pg/L	blank corr.	pg/L	blank corr.	pg/L	pg/L	pg/L	pg/L	% REC
PCB-56	1.95	1.56	3.25	2.86	0.443	K0.662	0.34	0.39	
PCB-57	<0.451	U	<0.311	U	<0.310	<0.168	<0.0448	0.00	
PCB-58	<0.451	U	<0.311	U	<0.310	<0.162	<0.0429	0.00	
PCB-59/62/75	K0.680	U	0.874	0.87	K0.138	K0.436	K0.093	0.00	
PCB-60	K0.606	U	1.67	1.67	<0.301	K0.343	K0.198	0.00	
PCB-61/70/74/76	8.72	6.47	15.7	13.45	1.3	3.2	K1.10	2.25	
PCB-63	<0.415	U	<0.287	U	<0.285	<0.161	<0.0425	0.00	
PCB-64	3.31	2.73	4.89	4.31	K0.296	0.798	0.364	0.58	
PCB-66	4.78	2.84	6.83	4.89	K0.439	1.94	K0.549	1.94	
PCB-67	<0.389	U	<0.268	U	<0.267	<0.151	<0.0394	0.00	
PCB-68	<0.424	U	<0.292	U	<0.291	K0.255	0.075	0.08	
PCB-72	<0.435	U	<0.300	U	<0.299	<0.158	<0.0413	0.00	
PCB-73	<0.0555	U	<0.0589	U	<0.0654	K0.022	K0.022	0.00	
PCB-77	K0.732	U	0.838	0.84	K0.351	K0.525	K0.076	0.00	107
PCB-78	<0.451	U	<0.312	U	<0.310	<0.177	<0.0501	0.00	
PCB-79	<0.374	U	<0.258	U	<0.257	<0.137	<0.0408	0.00	
PCB-80	<0.404	U	<0.279	U	<0.277	<0.159	<0.0426	0.00	
PCB-81	<0.426	U	<0.304	U	<0.302	<0.191	K0.101	0.00	101
PCB-82	K0.892	U	2.68	2.68	<0.377	K0.287	K0.097	0.00	
PCB-83/99	3.7	3.33	8.99	8.62	0.39	K1.58	0.343	0.37	
PCB-84	2.26	2.26	6.01	6.01	<0.374	K0.622	K0.168	0.00	
PCB-85/116/117	1.53	1.53	3.5	3.50	<0.279	K0.347	K0.088	0.00	
PCB-86/87/97/108/119/125	4.77	3.46	15.1	13.79	0.879	1.75	K0.607	1.31	
PCB-88/91	1.5	1.50	2.78	2.78	<0.323	K0.207	K0.066	0.00	
PCB-89	<0.286	U	<0.262	U	<0.347	K0.092	<0.0156	0.00	
PCB-90/101/113	7.52	6.32	20.1	18.90	0.953	2.03	0.609	1.20	
PCB-92	1.56	1.23	3.64	3.31	<0.332	0.335	K0.213	0.34	
PCB-93/95/98/100/102	12	10.67	20.5	19.17	0.635	2.02	<0.0138	1.33	
PCB-94	<0.280	U	<0.256	U	<0.339	K0.047	K0.028	0.00	
PCB-96	<0.141	U	0.137	0.14	<0.0480	K0.024	K0.028	0.00	
PCB-103	<0.240	U	<0.220	U	<0.290	K0.080	<0.0131	0.00	
PCB-104	<0.119	U	<0.0756	U	0.158	K0.151	K0.023	0.16	97.4
PCB-105	2.53	2.53	5.78	5.78	K0.466	K0.467	K0.261	0.00	99.1
PCB-106	<0.330	U	<0.303	U	<0.276	<0.0814	<0.0126	0.00	
PCB-107/124	<0.339	U	K0.599	U	<0.284	<0.0866	K0.023	0.00	
PCB-109	K0.423	U	1.02	1.02	<0.268	<0.0875	<0.0131	0.00	
PCB-110/115	8.5	6.83	21.9	20.23	K0.839	1.67	K0.565	1.67	
PCB-111	<0.207	U	<0.190	U	<0.251	K0.033	K0.036	0.00	
PCB-112	<0.217	U	<0.199	U	<0.262	<0.0139	K0.032	0.00	
PCB-114	K0.443	U	0.536	0.54	<0.288	K0.223	K0.028	0.00	102
PCB-118	5.26	3.40	13.1	11.24	K0.656	1.86	K0.541	1.86	104
PCB-120	<0.202	U	<0.185	U	<0.245	K0.019	<0.0114	0.00	
PCB-121	<0.201	U	<0.184	U	<0.243	0.015	0.015	0.02	
PCB-122	<0.368	U	<0.338	U	<0.307	K0.096	<0.0142	0.00	
PCB-123	<0.368	U	1.08	1.08	<0.293	K0.224	K0.097	0.00	117
PCB-126	<0.403	U	<0.402	U	<0.385	K0.092	K0.069	0.00	107

**Table C-6
Raw Data and Blank Correction Calculations - Workgroup 10229**

Type	Field	Field	Field	Field	Lab QC	Field Blank	Field QC		
Location	Monroe St	Monroe St	Riverside	Riverside	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-13SW-030902	AN-13SW-030902	AN-14SW-030902	AN-14SW-030902	LAB BLANK	AN-00SWRB-030902	Trip Blank		SPIKED MATRIX
Axys ID	L6133-17	L6133-17	L6133-18	L6133-18	WG11825-101	L6133-14	L6133-2	Average	WG11825-102
WORKGROUP	WG11825	WG11825	WG11825	WG11825	WG11825	WG10229	WG10228	Blank	WG11825
UNITS	pg/L	blank corr.	pg/L	blank corr.	pg/L	pg/L	pg/L	pg/L	% REC
PCB-127	<0.352	U	<0.324	U	<0.294	<0.0827	K0.038	0.00	
PCB-128/166	0.774	0.77	2.58	2.58	<0.281	K0.173	K0.204	0.00	
PCB-129/138/160/163	5.57	4.64	17	16.07	0.726	1.63	0.449	0.94	
PCB-130	K0.403	U	1.17	1.17	<0.352	K0.066	<0.0232	0.00	
PCB-131	K0.066	U	<0.301	U	<0.319	K0.055	K0.045	0.00	
PCB-132	2.26	2.26	7.02	7.02	<0.322	K0.469	<0.0215	0.00	
PCB-133	K0.142	U	<0.295	U	<0.313	<0.0235	K0.072	0.00	
PCB-134/143	<0.0136	U	<0.301	U	<0.318	K0.131	K0.053	0.00	
PCB-135/151/154	3.06	2.11	7.61	6.66	K0.372	0.948	K0.078	0.95	
PCB-136	1.34	1.00	3.41	3.07	K0.157	0.339	<0.0149	0.34	
PCB-137	K0.277	U	0.875	0.88	<0.323	K0.117	<0.0218	0.00	
PCB-139/140	K0.183	U	0.557	0.56	<0.288	K0.048	<0.0196	0.00	
PCB-141	1.26	1.02	3.32	3.08	<0.317	0.245	K0.060	0.25	
PCB-142	<0.0137	U	<0.304	U	<0.322	<0.0240	<0.0210	0.00	
PCB-144	K0.402	U	1.01	0.96	0.046	K0.054	<0.0218	0.05	
PCB-145	<0.0183	U	<0.0147	U	<0.0179	K0.060	<0.0162	0.00	
PCB-146	0.966	0.97	K2.63	U	<0.280	K0.393	K0.085	0.00	
PCB-147/149	5.97	5.97	17.9	17.90	K0.783	K1.61	K0.415	0.00	
PCB-148	<0.0243	U	K0.054	U	<0.0239	K0.043	<0.0220	0.00	
PCB-150	K0.036	U	0.066	0.07	K0.070	<0.0187	<0.0151	0.00	
PCB-152	K0.021	U	<0.0138	U	<0.0168	<0.0168	<0.0135	0.00	
PCB-153/168	4.3	2.26	13.1	11.06	K1.04	2.04	K0.439	2.04	
PCB-155	K0.100	U	K0.288	U	0.164	0.106	K0.042	0.14	107
PCB-156/157	K0.826	U	1.81	1.01	0.797	K0.496	K0.088	0.80	106
PCB-158	K0.544	U	1.58	1.58	<0.228	K0.248	K0.052	0.00	
PCB-159	K0.053	U	<0.228	U	<0.242	<0.0159	K0.024	0.00	
PCB-161	<0.0098	U	<0.218	U	<0.231	<0.0168	<0.0151	0.00	
PCB-162	K0.032	U	<0.226	U	<0.239	<0.0163	K0.032	0.00	
PCB-164	K0.408	U	1.11	1.11	<0.234	K0.078	K0.023	0.00	
PCB-165	K0.019	U	<0.233	U	<0.247	K0.031	K0.046	0.00	
PCB-167	K0.313	U	K0.678	U	K0.255	K0.161	K0.067	0.00	103
PCB-169	K0.234	U	<0.279	U	K0.424	<0.0970	<0.102	0.00	104
PCB-170	K0.932	U	K2.19	U	K0.340	K0.429	K0.079	0.00	
PCB-171/173	0.283	0.28	0.693	0.69	K0.102	<0.0290	<0.0279	0.00	
PCB-172	K0.179	U	K0.569	U	K0.069	K0.080	K0.040	0.00	
PCB-174	K1.10	U	2.5	2.03	K0.123	0.468	K0.154	0.47	
PCB-175	K0.044	U	K0.155	U	<0.0187	<0.0252	K0.033	0.00	
PCB-176	K0.220	U	0.521	0.52	<0.0141	<0.0206	<0.0202	0.00	
PCB-177	K0.765	U	1.61	1.57	0.037	K0.296	K0.074	0.04	
PCB-178	K0.211	U	0.665	0.67	K0.141	<0.0248	K0.031	0.00	
PCB-179	0.669	0.67	K1.79	U	K0.047	<0.0201	K0.042	0.00	
PCB-180/193	1.94	1.60	5.23	4.89	K0.620	K1.25	0.342	0.34	
PCB-181	<0.0193	U	K0.069	U	<0.0196	<0.0252	0.037	0.04	
PCB-182	K0.041	U	K0.114	U	K0.172	0.077	<0.0283	0.08	
PCB-183/185	<0.0187	U	2.2	2.14	0.063	K0.474	<0.0272	0.06	
PCB-184	K0.034	U	<0.0154	U	<0.0134	K0.064	<0.0181	0.00	

Table C-6
Raw Data and Blank Correction Calculations - Workgroup 10229

Type	Field	Field	Field	Field	Lab QC	Field Blank	Field QC		
Location	Monroe St	Monroe St	Riverside	Riverside	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-13SW-030902	AN-13SW-030902	AN-14SW-030902	AN-14SW-030902	LAB BLANK	AN-00SWRB-030902	Trip Blank		SPIKED MATRIX
Axys ID	L6133-17	L6133-17	L6133-18	L6133-18	WG11825-101	L6133-14	L6133-2	Average	WG11825-102
WORKGROUP	WG11825	WG11825	WG11825	WG11825	WG11825	WG10229	WG10228	Blank	WG11825
UNITS	pg/L	blank corr.	pg/L	blank corr.	pg/L	pg/L	pg/L	pg/L	% REC
PCB-186	<0.0142	U	K0.021	U	0.025	<0.0203	<0.0198	0.03	
PCB-187	1.43	0.80	4	3.37	K0.307	0.631	K0.196	0.63	
PCB-188	K0.023	U	K0.037	U	K0.038	<0.0177	K0.141	0.00	109
PCB-189	K0.144	U	K0.101	U	K0.419	K0.098	K0.066	0.00	106
PCB-190	K0.229	U	0.615	0.62	K0.030	K0.070	<0.0196	0.00	
PCB-191	K0.053	U	K0.068	U	K0.112	<0.0207	<0.0203	0.00	
PCB-192	0.02	UB	K0.021	U	K0.043	<0.0229	0.101	0.10	
PCB-194	0.474	0.47	K1.22	U	K0.054	K0.112	K0.082	0.00	
PCB-195	K0.230	U	0.502	0.50	K0.043	K0.047	K0.021	0.00	
PCB-196	K0.233	U	K0.640	U	K0.112	K0.309	K0.074	0.00	
PCB-197/200	K0.043	U	K0.248	U	K0.047	K0.062	<0.0267	0.00	
PCB-198/199	K0.272	U	K1.47	U	K0.050	<0.0314	<0.0338	0.00	
PCB-201	K0.056	U	K0.253	U	<0.0216	K0.042	<0.0278	0.00	
PCB-202	K0.187	U	0.786	0.79	<0.0232	<0.0309	K0.068	0.00	102
PCB-203	K0.226	U	K1.13	U	0.114	<0.0295	<0.0322	0.11	
PCB-204	<0.0228	U	K0.026	U	K0.037	<0.0263	<0.0273	0.00	
PCB-205	K0.170	U	K0.085	U	K0.173	K0.079	K0.049	0.00	103
PCB-206	<0.582	U	1.6	1.60	<0.682	<0.282	<0.128	0.00	106
PCB-207	<0.430	U	<0.351	U	<0.517	<0.257	<0.127	0.00	
PCB-208	<0.473	U	K0.632	U	<0.582	<0.266	<0.128	0.00	104
PCB-209	K0.414	U	K0.805	U	K0.560	0.491	K0.307	0.49	108
Total Monochloro Biphenyls	1.02	0.24	1.24	1.24	0.524				
Total Dichloro Biphenyls	58	45.37	92.6	75.35	<0.565				
Total Trichloro Biphenyls	27	10.26	57.8	40.95	2.49				
Total Tetrachloro Biphenyls	52.5	39.22	87.9	74.49	4.98				
Total Pentachloro Biphenyls	51.1	43.06	127	118.78	3.01				
Total Hexachloro Biphenyls	25.5	20.99	80.1	74.77	1.73				
Total Heptachloro Biphenyls	4.34	3.35	18	16.49	<0.180				
Total Octachloro Biphenyls	0.474	0.47	1.29	1.29	0.114				
Total Nonachloro Biphenyls	<0.582	0.00	1.6	1.60	<0.682				
Decachloro Biphenyl	<0.0212	0.00	<0.0181	0.00	<0.350				
TOTAL PCBs	220	162.96	467	404.97	12.9				

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

K = target compound could not be confirmed by satisfying all method criteria

UB = not detected, detected in associ

U = not detected

Table C-7
Total PCBs - Qualified per EPA Region X Guidelines - September 2003 Data

WATER - Surface & Deep	Barker Road (s)	Plante's Ferry (s)	Plante's Ferry (s)	Boulder Beach (s)	Boulder Beach (d)	Boulder Beach (d)	Dam Forebay (s)	Dam Forebay (d)	Monroe St (s)	Riverside (s)
Depth	Surface	Surface	Surface	Surface	Deep	Deep	Surface	Deep	Surface	Surface
Date	9/2/2003	9/2/2003	9/2/2003	9/2/2003	9/2/2003	9/6/2003	9/2/2003	9/6/2003	9/2/2003	9/2/2003
Type			Field Duplicate							
Monochlorobiphenyls	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.24
Dichlorobiphenyls	0.00	2.78	2.40	80.72	1.76	1.79	79.14	0.00	50.90	77.03
Trichlorobiphenyls	0.00	0.00	1.33	2.74	2.79	2.19	0.94	7.17	1.53	3.22
Tetrachlorobiphenyls	0.00	4.45	8.23	18.68	1.36	4.81	14.38	63.05	4.79	40.01
Pentachlorobiphenyls	0.97	1.68	2.99	11.18	5.49	7.47	9.69	18.38	32.02	126.85
Hexachlorobiphenyls	6.00	1.74	0.88	6.17	2.36	1.19	3.10	2.26	11.23	78.31
Heptachlorobiphenyls	7.31	2.82	0.02	1.14	0.06	0.52	2.92	5.65	2.89	18.03
Octochlorobiphenyls	2.88	0.28	0.02	0.62	0.00	0.25	0.43	0.00	0.47	1.29
Nonachlorobiphenyls	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	1.60
Decachlorobiphenyls	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total PCBs	17.17	13.74	15.87	121.26	13.81	18.23	110.58	96.93	103.84	347.58
Sum of Penta & Up	17.17	6.51	3.91	19.12	7.91	9.43	16.13	26.71	46.62	226.08

s = shallow
d = deep

**Table C-8
Raw Data and EPA-Qualification Workgroup 10229**

TYPE	PCB ID	Field Sample	Field Sample	Field Sample	Matrix Spike	Lab Blank	Field QC	Field Blank	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION		Boulder - Deep	Boulder - Deep	Forebay - Deep	N/AP	N/AP	Trip Blank	N/AP		
CLIENT ID		AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906	SPIKED MATRIX	LAB BLANK	Trip Blank	AN-00SWRB-030902		
AXYS ID		L6133-10	L6133-20	L6133-21	WG10229-102	WG10229-101	L6133-2	L6133-14		
WORKGROUP		WG10229	WG10229	WG10229	WG10229	WG10229	WG10228	WG10229		
UNITS	pg/L	pg/L	pg/L	% REC	pg/L	pg/L	pg/L			
PCB-1	2 - MoCB	K1.18	1.39 UB	K1.46	96	0.547	0.831	0.999	0.999	4.995
PCB-2	3 - MoCB	0.781 UB	0.591 UB	0.995 UB		0.289	K0.641	K0.799	0.289	1.445
PCB-3	4 - MoCB	K1.60	K1.59	K2.28	95.7	K1.50	K1.71	1.69	1.69	8.45
PCB-4	2,2' - DiCB	4.16 UB	3.99 UB	4.64 UB	98.3	<1.19	<1.33	1.76	1.76	8.8
PCB-5	2,3 - DiCB	<0.891	<0.766	<0.852		<1.07	<1.03	<1.18	0	0
PCB-6	2,3' - DiCB	1.76	1.79	K2.31		<0.969	<0.956	K1.32	0	0
PCB-7	2,4 - DiCB	6.9 UB	6.65 UB	11.1 UB		28.6	3.05	37.1	37.1	185.5
PCB-8	2,4' - DiCB	4.75 UB	4.75 UB	5.9 UB		1.6	K1.98	4.91	4.91	24.55
PCB-9	2,5 - DiCB	<0.775	<0.667	<0.742		<0.929	<0.922	<1.02	0	0
PCB-10	2,6 - DiCB	<0.822	<0.707	<0.786		<0.984	<0.930	<1.08	0	0
PCB-11	3,3' - DiCB	17.2 UB	10.3 UB	K26.6		4.68	2.97	8.09	8.09	40.45
PCB-12/13	3,4 - DiCB	<0.894	<0.769	<0.855		<1.07	<1.05	<1.18	0	0
PCB-14	3,5 - DiCB	<0.852	<0.733	<0.815		<1.02	<1.04	<1.12	0	0
PCB-15	4,4' - DiCB	2.41 UB	2.26 UB	3.22 UB	96.9	1.38	<1.47	3.05	3.05	15.25
PCB-16	2,2',3 - TriCB	2.37 UB	K2.32	3.19 UB		K1.15	0.338	1.63	1.63	8.15
PCB-17	2,2',4 - TriCB	K2.86	2.58 UB	3.96 UB		1.61	0.45	2.15	2.15	10.75
PCB-18/30	2,2',5 - TriCB	7.34 UB	6.6 UB	10.1 UB		2.91	K1.04	4.14	4.14	20.7
PCB-19	2,2',6 - TriCB	2.05 UB	1.88 UB	2.85	99.6	K0.243	<0.289	0.568	0.568	2.84
PCB-20/28	2,3,3' - TriCB	9.04 UB	8.42 UB	15 UB		K4.17	1.09	6.78	6.78	33.9
PCB-21/33	2,3,4 - TriCB	K2.52	2.07 UB	3.67 UB		K1.92	K0.614	1.95	1.95	9.75
PCB-22	2,3,4' - TriCB	2.85 UB	2.5 UB	4.63 UB		K1.35	K0.511	1.24	1.24	6.2
PCB-23	2,3,5 - TriCB	<0.189	<0.189	<0.183		<0.231	<0.198	<0.169	0	0
PCB-24	2,3,6 - TriCB	K0.249	<0.152	0.214		<0.160	<0.189	<0.161	0	0
PCB-25	2,3',4 - TriCB	K0.625	0.499 UB	0.915 UB		K0.285	<0.175	0.277	0.277	1.385
PCB-26/29	2,3',5 - TriCB	1.57 UB	1.48 UB	2.33 UB		K0.673	K0.298	0.751	0.751	3.755
PCB-27	2,3',6 - TriCB	0.899	K1.08	1.17		<0.154	<0.188	K0.279	0	0
PCB-31	2,4',5 - TriCB	6.82 UB	6.39 UB	11.4 UB		2.89	K1.01	3.25	3.25	16.25
PCB-32	2,4',6 - TriCB	2.28 UB	1.46 UB	2.6 UB		0.749	K0.336	1.02	1.02	5.1
PCB-34	2',3,5 - TriCB	<0.193	<0.193	<0.187		<0.236	<0.196	<0.173	0	0
PCB-35	3,3',4 - TriCB	<0.222	<0.222	K0.229		<0.272	<0.242	<0.199	0	0
PCB-36	3,3',5 - TriCB	<0.201	<0.201	<0.194		<0.246	<0.210	<0.180	0	0
PCB-37	3,4,4' - TriCB	1.89	2.19	2.94	99.6	K0.826	<0.280	K1.30	0	0
PCB-38	3,4,5 - TriCB	<0.209	<0.209	<0.202		<0.257	<0.218	<0.188	0	0
PCB-39	3,4',5 - TriCB	<0.201	<0.201	<0.194		<0.246	<0.206	<0.180	0	0
PCB-40/41/71	2,2',3,3' - TeCB	2.9 UB	3.29 UB	6.4		1.15	K0.432	K1.09	1.15	5.75
PCB-42	2,2',3,4' - TeCB	K1.71	1.94 UB	K3.54		K0.499	0.21	0.511	0.511	2.555
PCB-43	2,2',3,5 - TeCB	K0.096	0.322 UB	K0.538		0.126	K0.036	K0.114	0.126	0.63
PCB-44/47/65	2,2',3,5' - TeCB	7.91 UB	K7.31	19.7 UB		2.58	1.21	5.01	5.01	25.05
PCB-45/51	2,2',3,6 - TeCB	1.76 UB	1.79 UB	4.5		0.602	K0.158	0.722	0.722	3.61
PCB-46	2,2',3,6' - TeCB	K0.666	0.663	1.03		K0.128	0.08	K0.235	0.08	0.4
PCB-48	2,2',4,5 - TeCB	1.39 UB	K1.26	K2.52		0.582	K0.193	K0.413	0.582	2.91
PCB-49/69	2,2',4,5' - TeCB	K4.77	K5.69	9.28		1.3	K0.528	1.52	1.52	7.6
PCB-50/53	2,2',4,6 - TeCB	K1.50	K1.81	2.51 UB		K0.421	0.252	0.575	0.575	2.875
PCB-52	2,2',5,5' - TeCB	9.37 UB	10 UB	16.7 UB		K2.34	1.48	3.82	3.82	19.1
PCB-54	2,2',6,6' - TeCB	K0.076	K0.113	K0.094	93.4	<0.0532	<0.0084	K0.125	0	0
PCB-55	2,3,3',4 - TeCB	<0.181	K0.239	<0.283		<0.126	<0.0457	<0.173	0	0

**Table C-8
Raw Data and EPA-Qualification Workgroup 10229**

TYPE	PCB ID	Field Sample	Field Sample	Field Sample	Matrix Spike	Lab Blank	Field QC	Field Blank	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION		Boulder - Deep	Boulder - Deep	Forebay - Deep	N/AP	N/AP	Trip Blank	N/AP		
CLIENT ID		AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906	SPIKED MATRIX	LAB BLANK	Trip Blank	AN-00SWRB-030902		
AXYS ID		L6133-10	L6133-20	L6133-21	WG10229-102	WG10229-101	L6133-2	L6133-14		
WORKGROUP		WG10229	WG10229	WG10229	WG10229	WG10229	WG10228	WG10229		
UNITS	pg/L	pg/L	pg/L	% REC	pg/L	pg/L	pg/L			
PCB-56	2,3,3',4' - TeCB	2.26 UB	K2.64	4.71		0.586	0.34	K0.662	0.586	2.93
PCB-57	2,3,3',5' - TeCB	<0.175	<0.137	<0.274		<0.122	<0.0448	<0.168	0	0
PCB-58	2,3,3',5' - TeCB	<0.169	K0.165	<0.264		<0.118	<0.0429	<0.162	0	0
PCB-59/62/75	2,3,3',6' - TeCB	K0.760	K0.693	K1.23		K0.332	K0.093	K0.436	0	0
PCB-60	2,3,4,4' - TeCB	1.36	K1.31	K2.28		K0.395	K0.198	K0.343	0	0
PCB-61/70/74/76	2,3,4,5' - TeCB	8.07 UB	9.89 UB	17.1		2.47	K1.10	3.2	3.2	16
PCB-63	2,3,4',5' - TeCB	K0.264	K0.383	0.367		<0.118	<0.0425	<0.161	0	0
PCB-64	2,3,4',6' - TeCB	3.46 UB	4.15	7.16		K1.13	0.364	0.798	0.798	3.99
PCB-66	2,3',4,4' - TeCB	5.8 UB	7.36 UB	12.5		1.04	K0.549	1.94	1.94	9.7
PCB-67	2,3',4,5' - TeCB	<0.158	<0.123	<0.246		K0.127	<0.0394	<0.151	0	0
PCB-68	2,3',4,5' - TeCB	K0.370	<0.129	K1.25		<0.115	0.075	K0.255	0.075	0.375
PCB-72	2,3',5,5' - TeCB	<0.166	<0.129	<0.258		<0.116	<0.0413	<0.158	0	0
PCB-73	2,3',5',6' - TeCB	K0.129	K0.071	<0.0149		K0.121	K0.022	K0.022	0	0
PCB-77	3,3',4,4' - TeCB	K1.31	K1.07	K1.44	96.8	K0.428	K0.076	K0.525	0	0
PCB-78	3,3',4,5' - TeCB	<0.185	<0.145	<0.289		<0.129	<0.0501	<0.177	0	0
PCB-79	3,3',4,5' - TeCB	<0.143	<0.112	<0.223		<0.0997	<0.0408	<0.137	0	0
PCB-80	3,3',5,5' - TeCB	<0.167	<0.130	<0.260		<0.116	<0.0426	<0.159	0	0
PCB-81	3,4,4',5' - TeCB	<0.198	<0.155	<0.309	100	K0.336	K0.101	<0.191	0	0
PCB-82	2,2',3,3',4' - PeCB	0.57	K0.839	K1.23		<0.0214	K0.097	K0.287	0	0
PCB-83/99	2,2',3,3',5' - PeCB	2.39	2.75	K5.07		K0.697	0.343	K1.58	0.343	1.715
PCB-84	2,2',3,3',6' - PeCB	K0.822	1.26 UB	2.02		0.347	K0.168	K0.622	0.347	1.735
PCB-85/116/117	2,2',3,4,4' - PeCB	K1.05	1.46	2.45		K0.237	K0.088	K0.347	0	0
PCB-86/87/97/108/119/125	2,2',3,4,5' - PeCB	K3.16	K2.91	5.57 UB		K0.760	K0.607	1.75	1.75	8.75
PCB-88/91	2,2',3,4,6' - PeCB	0.628	0.928	1.56		K0.111	K0.066	K0.207	0	0
PCB-89	2,2',3,4,6' - PeCB	K0.062	K0.204	<0.107		K0.033	<0.0156	K0.092	0	0
PCB-90/101/113	2,2',3,4,5' - PeCB	3.22 UB	3.78 UB	K6.69		0.909	0.609	2.03	2.03	10.15
PCB-92	2,2',3,5,5' - PeCB	0.746 UB	K0.799	K1.41		K0.312	K0.213	0.335	0.335	1.675
PCB-93/95/98/100/102	2,2',3,5,6' - PeCB	3.48 UB	3.69 UB	7.46 UB		1.5	<0.0138	2.02	2.02	10.1
PCB-94	2,2',3,5,6' - PeCB	K0.041	K0.092	<0.103		K0.030	K0.028	K0.047	0	0
PCB-96	2,2',3,6,6' - PeCB	K0.057	0.089	K0.102		<0.0235	K0.028	K0.024	0	0
PCB-103	2,2',4,5,6' - PeCB	K0.114	<0.0169	<0.0901		K0.026	<0.0131	K0.080	0	0
PCB-104	2,2',4,6,6' - PeCB	K0.106	K0.088	K0.098	92.3	K0.030	K0.023	K0.151	0	0
PCB-105	2,3,3',4,4' - PeCB	1.9	2.24	3.29	95.3	K0.387	K0.261	K0.467	0	0
PCB-106	2,3,3',4,5' - PeCB	<0.0682	<0.0136	<0.0607		<0.0212	<0.0126	<0.0814	0	0
PCB-107/124	2,3,3',4,5' - PeCB	K0.187	<0.0145	K0.443		K0.056	K0.023	<0.0866	0	0
PCB-109	2,3,3',4,6' - PeCB	K0.291	K0.342	0.574		K0.099	<0.0131	<0.0875	0	0
PCB-110/115	2,3,3',4',6' - PeCB	3.63 UB	K4.79	8.49		0.904	K0.565	1.67	1.67	8.35
PCB-111	2,3,3',5,5' - PeCB	<0.0137	<0.0130	<0.0694		K0.048	K0.036	K0.033	0	0
PCB-112	2,3,3',5,6' - PeCB	<0.0146	K0.059	<0.0740		K0.015	K0.032	<0.0139	0	0
PCB-114	2,3,4,4',5' - PeCB	<0.0650	K0.265	K0.327	95.3	K0.333	K0.028	K0.223	0	0
PCB-118	2,3',4,4',5' - PeCB	4.24 UB	4.66 UB	7.13 UB	95.7	K0.877	K0.541	1.86	1.86	9.3
PCB-120	2,3',4,5,5' - PeCB	K0.038	K0.026	<0.0716		K0.021	<0.0114	K0.019	0	0
PCB-121	2,3',4,5,6' - PeCB	0.054 UB	<0.0136	<0.0726		K0.031	0.015	0.015	0.015	0.075
PCB-122	2',3,3',4,5' - PeCB	K0.147	K0.045	K0.179		K0.123	<0.0142	K0.096	0	0
PCB-123	2',3,4,4',5' - PeCB	K0.269	K0.242	K0.291	97.6	K0.120	K0.097	K0.224	0	0
PCB-126	3,3',4,4',5' - PeCB	K0.178	K0.084	K0.134	95.5	K0.114	K0.069	K0.092	0	0

Table C-8
Raw Data and EPA-Qualification Workgroup 10229

TYPE	PCB ID	Field Sample	Field Sample	Field Sample	Matrix Spike	Lab Blank	Field QC	Field Blank	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION		Boulder - Deep	Boulder - Deep	Forebay - Deep	N/AP	N/AP	Trip Blank	N/AP		
CLIENT ID		AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906	SPIKED MATRIX	LAB BLANK	Trip Blank	AN-00SWRB-030902		
AXYS ID		L6133-10	L6133-20	L6133-21	WG10229-102	WG10229-101	L6133-2	L6133-14		
WORKGROUP		WG10229	WG10229	WG10229	WG10229	WG10229	WG10228	WG10229		
UNITS	pg/L	pg/L	pg/L	% REC	pg/L	pg/L	pg/L			
PCB-127	3,3',4,5,5' - PeCB	<0.0692	<0.0138	K0.062		<0.0216	K0.038	<0.0827	0	0
PCB-128/166	2,2',3,3',4,4' - HxCB	0.548	K0.549	K0.853		<0.0187	K0.204	K0.173	0	0
PCB-129/138/160/163	2,2',3,3',4,5' - HxCB	2.68 UB	3.36 UB	4.68 UB		1.2	0.449	1.63	1.63	8.15
PCB-130	2,2',3,3',4,5' - HxCB	K0.296	K0.110	K0.508		<0.0253	<0.0232	K0.066	0	0
PCB-131	2,2',3,3',4,6' - HxCB	K0.051	0.052	K0.041		K0.075	K0.045	K0.055	0	0
PCB-132	2,2',3,3',4,6' - HxCB	0.671	0.827	K1.76		K0.367	<0.0215	K0.469	0	0
PCB-133	2,2',3,3',5,5' - HxCB	<0.0318	K0.094	<0.0259		<0.0234	K0.072	<0.0235	0	0
PCB-134/143	2,2',3,3',5,6' - HxCB	K0.087	K0.105	K0.085		0.145	K0.053	K0.131	0.145	0.725
PCB-135/151/154	2,2',3,3',5,6' - HxCB	K0.850	1.09 UB	1.79 UB		K0.328	K0.078	0.948	0.948	4.74
PCB-136	2,2',3,3',6,6' - HxCB	K0.340	K0.257	0.419 UB		K0.162	<0.0149	0.339	0.339	1.695
PCB-137	2,2',3,4,4',5' - HxCB	<0.0311	K0.349	K0.236		K0.070	<0.0218	K0.117	0	0
PCB-139/140	2,2',3,4,4',6' - HxCB	K0.041	<0.0173	K0.061		K0.039	<0.0196	K0.048	0	0
PCB-141	2,2',3,4,5,5' - HxCB	K0.368	0.577 UB	K0.989		K0.440	K0.060	0.245	0.245	1.225
PCB-142	2,2',3,4,5,6' - HxCB	<0.0324	<0.0193	<0.0264		<0.0239	<0.0210	<0.0240	0	0
PCB-144	2,2',3,4,5',6' - HxCB	K0.043	K0.038	0.14		K0.042	<0.0218	K0.054	0	0
PCB-145	2,2',3,4,6,6' - HxCB	K0.055	K0.032	K0.039		K0.048	<0.0162	K0.060	0	0
PCB-146	2,2',3,4',5,5' - HxCB	0.565	K0.303	0.765		K0.209	K0.085	K0.393	0	0
PCB-147/149	2,2',3,4',5,6' - HxCB	K1.73	2.1 UB	K3.79		0.803	K0.415	K1.61	0.803	4.015
PCB-148	2,2',3,4',5,6' - HxCB	<0.0308	<0.0295	<0.0332		<0.0364	<0.0220	K0.043	0	0
PCB-150	2,2',3,4',6,6' - HxCB	<0.0213	<0.0204	K0.024		<0.0252	<0.0151	<0.0187	0	0
PCB-152	2,2',3,5,6,6' - HxCB	K0.026	<0.0183	<0.0207		K0.025	<0.0135	<0.0168	0	0
PCB-153/168	2,2',4,4',5,5' - HxCB	K2.25	2.88 UB	4.17 UB		K1.21	K0.439	2.04	2.04	10.2
PCB-155	2,2',4,4',6,6' - HxCB	K0.144	<0.0157	K0.134	87	<0.0171	K0.042	0.106	0.106	0.53
PCB-156/157	2,3,3',4,4',5' - HxCB	0.575	K0.465	0.945	92.7	K0.387	K0.088	K0.496	0	0
PCB-158	2,3,3',4,4',6' - HxCB	K0.295	0.315	<0.0163		K0.198	K0.052	K0.248	0	0
PCB-159	2,3,3',4,5,5' - HxCB	K0.119	K0.052	K0.089		<0.0158	K0.024	<0.0159	0	0
PCB-161	2,3,3',4,5',6' - HxCB	<0.0227	K0.018	K0.036		<0.0167	<0.0151	<0.0168	0	0
PCB-162	2,3,3',4',5,5' - HxCB	K0.046	K0.043	K0.038		K0.051	K0.032	<0.0163	0	0
PCB-164	2,3,3',4',5,6' - HxCB	K0.142	K0.357	0.414		K0.121	K0.023	K0.078	0	0
PCB-165	2,3,3',5,5',6' - HxCB	<0.0256	K0.038	K0.058		<0.0189	K0.046	K0.031	0	0
PCB-167	2,3',4,4',5,5' - HxCB	K0.212	K0.231	K0.227	91.2	K0.107	K0.067	K0.161	0	0
PCB-169	3,3',4,4',5,5' - HxCB	<0.176	<0.0116	<0.0730	95.3	<0.152	<0.102	<0.0970	0	0
PCB-170	2,2',3,3',4,4',5' - HpCB	0.836 UB	0.907 UB	K0.869		0.623	K0.079	K0.429	0.623	3.115
PCB-171/173	2,2',3,3',4,4',6' - HpCB	K0.147	0.136	K0.428		K0.094	<0.0279	<0.0290	0	0
PCB-172	2,2',3,3',4,5,5' - HpCB	K0.144	K0.102	K0.266		<0.0290	K0.040	K0.080	0	0
PCB-174	2,2',3,3',4,5,6' - HpCB	K0.551	0.743 UB	K1.41		<0.0250	K0.154	0.468	0.468	2.34
PCB-175	2,2',3,3',4,5',6' - HpCB	K0.045	<0.0221	<0.0223		K0.071	K0.033	<0.0252	0	0
PCB-176	2,2',3,3',4,6,6' - HpCB	K0.062	K0.147	K0.168		<0.0204	<0.0202	<0.0206	0	0
PCB-177	2,2',3,3',4,5,6' - HpCB	K0.548	K0.609	0.824		K0.289	K0.074	K0.296	0	0
PCB-178	2,2',3,3',5,5',6' - HpCB	<0.0233	0.164	K0.396		K0.069	K0.031	<0.0248	0	0
PCB-179	2,2',3,3',5,6,6' - HpCB	0.508 UB	K0.430	K0.616		0.302	K0.042	<0.0201	0.302	1.51
PCB-180/193	2,2',3,4,4',5,5' - HpCB	K1.62	K1.71	3.13		K1.26	0.342	K1.25	0.342	1.71
PCB-181	2,2',3,4,4',5,6' - HpCB	<0.0237	<0.0221	K0.066		K0.033	0.037	<0.0252	0.037	0.185
PCB-182	2,2',3,4,4',5,6' - HpCB	K0.040	<0.0221	<0.0223		<0.0249	<0.0283	0.077	0.077	0.385
PCB-183/185	2,2',3,4,4',5',6' - HpCB	K0.705	K0.600	1.31		K0.321	<0.0272	K0.474	0	0
PCB-184	2,2',3,4,4',6,6' - HpCB	<0.0172	<0.0161	<0.0162		K0.059	<0.0181	K0.064	0	0

**Table C-8
Raw Data and EPA-Qualification Workgroup 10229**

TYPE	PCB ID	Field Sample	Field Sample	Field Sample	Matrix Spike	Lab Blank	Field QC	Field Blank	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION		Boulder - Deep	Boulder - Deep	Forebay - Deep	N/AP	N/AP	Trip Blank	N/AP		
CLIENT ID		AN-02B1SW-030902	AN-2BSW-030906	AN-3BSW-030906	SPIKED MATRIX	LAB BLANK	Trip Blank	AN-00SWRB-030902		
AXYS ID		L6133-10	L6133-20	L6133-21	WG10229-102	WG10229-101	L6133-2	L6133-14		
WORKGROUP		WG10229	WG10229	WG10229	WG10229	WG10229	WG10228	WG10229		
UNITS	pg/L	pg/L	pg/L	% REC	pg/L	pg/L	pg/L			
PCB-186	2,2',3,4,5,6,6' - HpCB	K0.029	<0.0178	<0.0179		<0.0201	<0.0198	<0.0203	0	0
PCB-187	2,2',3,4',5,5',6 - HpCB	K1.01	1.16 UB	K1.93		0.518	K0.196	0.631	0.631	3.155
PCB-188	2,2',3,4',5,6,6' - HpCB	0.058	<0.0146	K0.014	88.6	K0.095	K0.141	<0.0177	0	0
PCB-189	2,3,3',4,4',5,5' - HpCB	K0.239	K0.080	0.106	95.9	K0.103	K0.066	K0.098	0	0
PCB-190	2,3,3',4,4',5,6 - HpCB	K0.229	0.189	0.283		K0.079	<0.0196	K0.070	0	0
PCB-191	2,3,3',4,4',5',6 - HpCB	<0.0194	0.031	K0.052		<0.0205	<0.0203	<0.0207	0	0
PCB-192	2,3,3',4,5,5',6 - HpCB	<0.0215	<0.0201	K0.026		K0.058	0.101	<0.0229	0.101	0.505
PCB-194	2,2',3,3',4,4',5,5' - OcCB	K0.465	K0.461	K0.517		K0.190	K0.082	K0.112	0	0
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K0.247	K0.210	K0.176		K0.155	K0.021	K0.047	0	0
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K0.088	K0.241	K0.229		K0.174	K0.074	K0.309	0	0
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	<0.0320	<0.0240	<0.0298		<0.0274	<0.0267	K0.062	0	0
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	K0.597	K0.704	K0.918		K0.461	<0.0338	<0.0314	0	0
PCB-201	2,2',3,3',4,5',6,6' - OcCB	<0.0318	K0.091	K0.056		<0.0273	<0.0278	K0.042	0	0
PCB-202	2,2',3,3',5,5',6,6' - OcCB	K0.287	0.138	K0.289	92	<0.0313	K0.068	<0.0309	0	0
PCB-203	2,2',3,4,4',5,5',6 - OcCB	K0.291	K0.207	K0.278		K0.127	<0.0322	<0.0295	0	0
PCB-204	2,2',3,4,4',5,6,6' - OcCB	<0.0322	<0.0242	<0.0301		K0.053	<0.0273	<0.0263	0	0
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K0.204	0.114	K0.134	95.3	K0.229	K0.049	K0.079	0	0
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	K0.506	K0.414	0.408	92.1	K0.448	<0.128	<0.282	0	0
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<0.254	<0.196	<0.253		<0.233	<0.127	<0.257	0	0
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<0.262	K0.300	<0.273	91.9	K0.287	<0.128	<0.266	0	0
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	K0.644	0.623 UB	K0.559	88.8	0.569	K0.307	0.491	0.569	2.845
Total Monochloro Biphenyls		0.00	0.00	0.00			0.831			
Total Dichloro Biphenyls		1.76	1.79	0.00			6.02			
Total Trichloro Biphenyls		2.79	2.19	7.17			1.88			
Total Tetrachloro Biphenyls		1.36	4.81	63.05			4.01			
Total Pentachloro Biphenyls		5.49	7.47	18.38			0.967			
Total Hexachloro Biphenyls		2.36	1.19	2.26			0.449			
Total Heptachloro Biphenyls		0.06	0.52	5.65			0.48			
Total Octachloro Biphenyls		0.00	0.25	0.00			<0.0364			
Total Nonachloro Biphenyls		0.00	0.00	0.41			<0.128			
Decachloro Biphenyl		0.00	0.00	0.00			<0.0175			
TOTAL PCBs		13.81	18.23	96.93			14.6			

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

K = target compound could not be confirmed by satisfying all method criteria

UB = not detected, detected in associated blank

U = not detected

**Table C-9
Raw Data and EPA Qualification Workgroup 10490**

TYPE	Field Sample	Matrix Spike	Lab Blank	Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Barker Road	N/AP	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-12SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-16	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-1	2.02 UB	104	<2.06	0.999	0.831	0.999	4.995
PCB-2	<1.14		<2.34	K0.799	K0.641	0	0
PCB-3	2.9 UB	106	K3.72	1.69	K1.71	1.69	8.45
PCB-4	1.69 UB	98.7	<12.5	1.76	<1.33	1.76	8.8
PCB-5	<0.969		<8.50	<1.18	<1.03	0	0
PCB-6	<0.908		<8.22	K1.32	<0.956	0	0
PCB-7	5.07 UB		<7.93	37.1	3.05	37.1	185.5
PCB-8	K1.39		<7.85	4.91	K1.98	4.91	24.55
PCB-9	<0.896		<8.03	<1.02	<0.922	0	0
PCB-10	<0.937		<8.24	<1.08	<0.930	0	0
PCB-11	10.5 UB		<8.68	8.09	2.97	8.09	40.45
PCB-12/13	<1.02		<8.55	<1.18	<1.05	0	0
PCB-14	<0.958		<8.32	<1.12	<1.04	0	0
PCB-15	K1.21	101	<9.85	3.05	<1.47	3.05	15.25
PCB-16	<0.645		<2.47	1.63	0.338	1.63	8.15
PCB-17	<0.584		K2.20	2.15	0.45	2.15	10.75
PCB-18/30	1.55 UB		2.45	4.14	K1.04	4.14	20.7
PCB-19	<0.891	103	4.34	0.568	<0.289	4.34	21.7
PCB-20/28	2.15 UB		6.05	6.78	1.09	6.78	33.9
PCB-21/33	K0.954		2.66	1.95	K0.614	2.66	13.3
PCB-22	K0.877		K2.59	1.24	K0.511	1.24	6.2
PCB-23	<0.539		<1.77	<0.169	<0.198	0	0
PCB-24	<0.429		<1.53	<0.161	<0.189	0	0
PCB-25	<0.499		<1.54	0.277	<0.175	0.277	1.385
PCB-26/29	K0.574		<1.70	0.751	K0.298	0.751	3.755
PCB-27	<0.406		<1.56	K0.279	<0.188	0	0
PCB-31	K1.76		5.57	3.25	K1.01	5.57	27.85
PCB-32	<0.512		K2.02	1.02	K0.336	1.02	5.1
PCB-34	<0.551		<1.71	<0.173	<0.196	0	0
PCB-35	<0.649		<1.77	<0.199	<0.242	0	0
PCB-36	<0.541		<1.59	<0.180	<0.210	0	0
PCB-37	0.688 UB	106	1.96	K1.30	<0.280	1.96	9.8

**Table C-9
Raw Data and EPA Qualification Workgroup 10490**

TYPE	Field Sample	Matrix Spike	Lab Blank	Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Barker Road	N/AP	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-12SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-16	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-38	<0.575		<1.58	<0.188	<0.218	0	0
PCB-39	<0.554		<1.57	<0.180	<0.206	0	0
PCB-40/41/71	K1.69		3.83	K1.09	K0.432	3.83	19.15
PCB-42	<0.492		<0.670	0.511	0.21	0.511	2.555
PCB-43	<0.502		<0.699	K0.114	K0.036	0	0
PCB-44/47/65	2.19 UB		K6.99	5.01	1.21	5.01	25.05
PCB-45/51	K0.588		3.13	0.722	K0.158	3.13	15.65
PCB-46	<0.529		<0.732	K0.235	0.08	0.08	0.4
PCB-48	K0.465		K1.33	K0.413	K0.193	0	0
PCB-49/69	K1.16		3.67	1.52	K0.528	3.67	18.35
PCB-50/53	0.6 UB		1.92	0.575	0.252	1.92	9.6
PCB-52	2.66 UB		<0.565	3.82	1.48	3.82	19.1
PCB-54	<0.504	103	K1.88	K0.125	<0.0084	0	0
PCB-55	<0.735		<1.20	<0.173	<0.0457	0	0
PCB-56	K0.785		K1.97	K0.662	0.34	0.34	1.7
PCB-57	<0.720		<1.14	<0.168	<0.0448	0	0
PCB-58	<0.681		<1.12	<0.162	<0.0429	0	0
PCB-59/62/75	K0.424		<0.449	K0.436	K0.093	0	0
PCB-60	<0.755		<1.15	K0.343	K0.198	0	0
PCB-61/70/74/76	K2.99		7.77	3.2	K1.10	7.77	38.85
PCB-63	<0.687		<1.08	<0.161	<0.0425	0	0
PCB-64	0.975 UB		K2.17	0.798	0.364	0.798	3.99
PCB-66	1.37 UB		5.16	1.94	K0.549	5.16	25.8
PCB-67	<0.659		<1.04	<0.151	<0.0394	0	0
PCB-68	<0.674		<1.08	K0.255	0.075	0.075	0.375
PCB-72	<0.677		<1.11	<0.158	<0.0413	0	0
PCB-73	<0.353		<0.699	K0.022	K0.022	0	0
PCB-77	K0.830	102	K1.73	K0.525	K0.076	0	0
PCB-78	<0.768		<1.15	<0.177	<0.0501	0	0
PCB-79	<0.656		<0.966	<0.137	<0.0408	0	0
PCB-80	<0.682		<1.02	<0.159	<0.0426	0	0
PCB-81	<0.772	105	<1.14	<0.191	K0.101	0	0

**Table C-9
Raw Data and EPA Qualification Workgroup 10490**

TYPE	Field Sample	Matrix Spike	Lab Blank	Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Barker Road	N/AP	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-12SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-16	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-82	<0.388		<0.897	K0.287	K0.097	0	0
PCB-83/99	1.46 UB		K2.82	K1.58	0.343	0.343	1.715
PCB-84	K0.705		<0.926	K0.622	K0.168	0	0
PCB-85/116/117	K0.732		K1.32	K0.347	K0.088	0	0
PCB-86/87/97/108/119/125	2.76 UB		3.9	1.75	K0.607	3.9	19.5
PCB-88/91	<0.335		<0.807	K0.207	K0.066	0	0
PCB-89	<0.361		<0.851	K0.092	<0.0156	0	0
PCB-90/101/113	K2.75		4.71	2.03	0.609	4.71	23.55
PCB-92	K0.361		<0.820	0.335	K0.213	0.335	1.675
PCB-93/95/98/100/102	2.15 UB		<0.789	2.02	<0.0138	2.02	10.1
PCB-94	<0.353		<0.851	K0.047	K0.028	0	0
PCB-96	K0.137		K0.340	K0.024	K0.028	0	0
PCB-103	<0.308		<0.751	K0.080	<0.0131	0	0
PCB-104	K0.285	102	<0.437	K0.151	K0.023	0	0
PCB-105	K1.53	99.7	1.7	K0.467	K0.261	1.7	8.5
PCB-106	<0.266		<0.945	<0.0814	<0.0126	0	0
PCB-107/124	K0.606		<0.992	<0.0866	K0.023	0	0
PCB-109	0.446		<0.936	<0.0875	<0.0131	0	0
PCB-110/115	2.93 UB		4.17	1.67	K0.565	4.17	20.85
PCB-111	<0.262		<0.596	K0.033	K0.036	0	0
PCB-112	<0.259		<0.632	<0.0139	K0.032	0	0
PCB-114	0.525	99.2	<1.03	K0.223	K0.028	0	0
PCB-118	2.99 UB	96	4.61	1.86	K0.541	4.61	23.05
PCB-120	<0.255		<0.563	K0.019	<0.0114	0	0
PCB-121	<0.257		<0.608	0.015	0.015	0.015	0.075
PCB-122	<0.306		<1.07	K0.096	<0.0142	0	0
PCB-123	K0.345	97.6	<1.04	K0.224	K0.097	0	0
PCB-126	K0.842	98.9	<1.09	K0.092	K0.069	0	0
PCB-127	K0.296		<0.951	<0.0827	K0.038	0	0
PCB-128/166	2.31		<0.610	K0.173	K0.204	0	0
PCB-129/138/160/163	4.84 UB		K4.95	1.63	0.449	1.63	8.15
PCB-130	0.63		<0.795	K0.066	<0.0232	0	0

**Table C-9
Raw Data and EPA Qualification Workgroup 10490**

TYPE	Field Sample	Matrix Spike	Lab Blank	Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Barker Road	N/AP	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-12SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-16	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-131	<0.325		<0.784	K0.055	K0.045	0	0
PCB-132	0.944 UB		1.76	K0.469	<0.0215	1.76	8.8
PCB-133	<0.299		<0.764	<0.0235	K0.072	0	0
PCB-134/143	<0.309		<0.803	K0.131	K0.053	0	0
PCB-135/151/154	K1.32		K0.885	0.948	K0.078	0.948	4.74
PCB-136	K0.471		K0.384	0.339	<0.0149	0.339	1.695
PCB-137	K0.371		<0.723	K0.117	<0.0218	0	0
PCB-139/140	0.311		<0.703	K0.048	<0.0196	0	0
PCB-141	K0.566		K1.30	0.245	K0.060	0.245	1.225
PCB-142	<0.302		<0.793	<0.0240	<0.0210	0	0
PCB-144	0.192		K0.552	K0.054	<0.0218	0	0
PCB-145	0.112		K0.328	K0.060	<0.0162	0	0
PCB-146	K0.733		1.47	K0.393	K0.085	1.47	7.35
PCB-147/149	2.33		K3.66	K1.61	K0.415	0	0
PCB-148	K0.166		<0.277	K0.043	<0.0220	0	0
PCB-150	0.117		K0.339	<0.0187	<0.0151	0	0
PCB-152	K0.076		<0.194	<0.0168	<0.0135	0	0
PCB-153/168	3.63 UB		4.78	2.04	K0.439	4.78	23.9
PCB-155	K0.454	99.8	K0.402	0.106	K0.042	0.106	0.53
PCB-156/157	1.38 UB	102	1.24	K0.496	K0.088	1.24	6.2
PCB-158	<0.205		<0.499	K0.248	K0.052	0	0
PCB-159	K0.403		<0.519	<0.0159	K0.024	0	0
PCB-161	<0.205		<0.538	<0.0168	<0.0151	0	0
PCB-162	K0.282		<0.523	<0.0163	K0.032	0	0
PCB-164	K0.556		<0.543	K0.078	K0.023	0	0
PCB-165	<0.231		<0.585	K0.031	K0.046	0	0
PCB-167	K0.813	104	<0.408	K0.161	K0.067	0	0
PCB-169	K0.795	103	0.589	<0.0970	<0.102	0.589	2.945
PCB-170	1.25		K1.39	K0.429	K0.079	0	0
PCB-171/173	K0.560		<0.166	<0.0290	<0.0279	0	0
PCB-172	0.493		K0.213	K0.080	K0.040	0	0
PCB-174	K0.911		K0.750	0.468	K0.154	0.468	2.34

**Table C-9
Raw Data and EPA Qualification Workgroup 10490**

TYPE	Field Sample	Matrix Spike	Lab Blank	Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Barker Road	N/AP	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-12SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-16	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-175	K0.070		<0.159	<0.0252	K0.033	0	0
PCB-176	0.329		K0.287	<0.0206	<0.0202	0	0
PCB-177	K0.785		K1.04	K0.296	K0.074	0	0
PCB-178	0.496		K0.434	<0.0248	K0.031	0	0
PCB-179	K0.410		K0.319	<0.0201	K0.042	0	0
PCB-180/193	K2.58		K3.10	K1.25	0.342	0.342	1.71
PCB-181	0.222		<0.153	<0.0252	0.037	0.037	0.185
PCB-182	K0.101		<0.159	0.077	<0.0283	0.077	0.385
PCB-183/185	K0.647		K0.289	K0.474	<0.0272	0	0
PCB-184	<0.0376		<0.117	K0.064	<0.0181	0	0
PCB-186	K0.186		0.152	<0.0203	<0.0198	0.152	0.76
PCB-187	3.42		K1.75	0.631	K0.196	0.631	3.155
PCB-188	K0.158	103	K0.461	<0.0177	K0.141	0	0
PCB-189	0.52	98.2	<0.514	K0.098	K0.066	0	0
PCB-190	0.584		K0.356	K0.070	<0.0196	0	0
PCB-191	K0.444		<0.116	<0.0207	<0.0203	0	0
PCB-192	K0.308		K0.192	<0.0229	0.101	0.101	0.505
PCB-194	K1.04		1.08	K0.112	K0.082	1.08	5.4
PCB-195	K0.431		K0.513	K0.047	K0.021	0	0
PCB-196	0.752		K0.517	K0.309	K0.074	0	0
PCB-197/200	K0.774		<0.171	K0.062	<0.0267	0	0
PCB-198/199	K1.13		K1.11	<0.0314	<0.0338	0	0
PCB-201	K0.269		0.184	K0.042	<0.0278	0.184	0.92
PCB-202	0.585	103	K0.514	<0.0309	K0.068	0	0
PCB-203	0.872		K0.928	<0.0295	<0.0322	0	0
PCB-204	K0.168		<0.176	<0.0263	<0.0273	0	0
PCB-205	0.674	109	K0.326	K0.079	K0.049	0	0
PCB-206	<1.64	92.5	<2.42	<0.282	<0.128	0	0
PCB-207	<1.02		<2.29	<0.257	<0.127	0	0
PCB-208	<1.03	99.1	<2.50	<0.266	<0.128	0	0
PCB-209	0.825 UB	91.7	1.14	0.491	K0.307	1.14	5.7
Total Monochloro Biphenyls	0.00				0.831		

**Table C-9
Raw Data and EPA Qualification Workgroup 10490**

TYPE	Field Sample	Matrix Spike	Lab Blank	Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Barker Road	N/AP	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-12SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-16	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	% REC	pg/L	pg/L	pg/L		
Total Dichloro Biphenyls	0.00				6.02		
Total Trichloro Biphenyls	0.00				1.88		
Total Tetrachloro Biphenyls	0.00				4.01		
Total Pentachloro Biphenyls	0.97				0.967		
Total Hexachloro Biphenyls	6.00				0.449		
Total Heptachloro Biphenyls	7.31				0.48		
Total Octachloro Biphenyls	2.88				<0.0364		
Total Nonachloro Biphenyls	0.00				<0.128		
Decachloro Biphenyl	0.00				<0.0175		
TOTAL PCBs	17.17				14.6		

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

K = target compound could not be confirmed by satisfying al

UB = not detected, detected in associated blank

U = not detected

Table C-10
Raw Data and EPA Qualification for Workgroup 10229

TYPE	Field Sample	Field Sample			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Plante's Ferry	Forebay - Shallow			N/AP	Trip Blank		
CLIENT ID	AN-01SW-030902	AN-03ASW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-7	L6133-12	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-1	K2.01	K2.45	104	<2.06	0.999	0.831	0.999	4.995
PCB-2	<0.863	<0.784		<2.34	K0.799	K0.641	0	0
PCB-3	K1.85	1.9 UB	106	K3.72	1.69	K1.71	1.69	8.45
PCB-4	5.82 UB	4.31 UB	98.7	<12.5	1.76	<1.33	1.76	8.8
PCB-5	<0.989	<0.637		<8.50	<1.18	<1.03	0	0
PCB-6	2.78	2.14		<8.22	K1.32	<0.956	0	0
PCB-7	11.8 UB	2.13 UB		<7.93	37.1	3.05	37.1	185.5
PCB-8	4.53 UB	4.19 UB		<7.85	4.91	K1.98	4.91	24.55
PCB-9	<0.914	<0.589		<8.03	<1.02	<0.922	0	0
PCB-10	<0.956	<0.616		<8.24	<1.08	<0.930	0	0
PCB-11	5.96 UB	77		<8.68	8.09	2.97	8.09	40.45
PCB-12/13	<1.04	<0.671		<8.55	<1.18	<1.05	0	0
PCB-14	<0.978	<0.630		<8.32	<1.12	<1.04	0	0
PCB-15	2.9 UB	3.22 UB	101	<9.85	3.05	<1.47	3.05	15.25
PCB-16	2.64 UB	2.85 UB		<2.47	1.63	0.338	1.63	8.15
PCB-17	3.08 UB	1.3 UB		K2.20	2.15	0.45	2.15	10.75
PCB-18/30	6.36 UB	5.52 UB		2.45	4.14	K1.04	4.14	20.7
PCB-19	3.8 UB	2.35 UB	103	4.34	0.568	<0.289	4.34	21.7
PCB-20/28	10.5 UB	10 UB		6.05	6.78	1.09	6.78	33.9
PCB-21/33	2.34 UB	2.88 UB		2.66	1.95	K0.614	2.66	13.3
PCB-22	3.53 UB	3.43 UB		K2.59	1.24	K0.511	1.24	6.2
PCB-23	<0.501	<0.486		<1.77	<0.169	<0.198	0	0
PCB-24	<0.460	<0.397		<1.53	<0.161	<0.189	0	0
PCB-25	1.2 UB	0.875 UB		<1.54	0.277	<0.175	0.277	1.385
PCB-26/29	K3.06	2.19 UB		<1.70	0.751	K0.298	0.751	3.755
PCB-27	K1.40	0.937		<1.56	K0.279	<0.188	0	0
PCB-31	9.32 UB	8.47 UB		5.57	3.25	K1.01	5.57	27.85
PCB-32	3.36 UB	2.08 UB		K2.02	1.02	K0.336	1.02	5.1
PCB-34	<0.511	<0.496		<1.71	<0.173	<0.196	0	0
PCB-35	<0.603	<0.585		<1.77	<0.199	<0.242	0	0
PCB-36	<0.503	<0.488		<1.59	<0.180	<0.210	0	0
PCB-37	1.39 UB	2.28 UB	106	1.96	K1.30	<0.280	1.96	9.8

Table C-10
Raw Data and EPA Qualification for Workgroup 10229

TYPE	Field Sample	Field Sample			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Plante's Ferry	Forebay - Shallow			N/AP	Trip Blank		
CLIENT ID	AN-01SW-030902	AN-03ASW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-7	L6133-12	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-38	<0.534	<0.518		<1.58	<0.188	<0.218	0	0
PCB-39	<0.514	<0.499		<1.57	<0.180	<0.206	0	0
PCB-40/41/71	3.76 UB	4.56 UB		3.83	K1.09	K0.432	3.83	19.15
PCB-42	1.83 UB	K2.52		<0.670	0.511	0.21	0.511	2.555
PCB-43	<0.547	0.549		<0.699	K0.114	K0.036	0	0
PCB-44/47/65	6.82 UB	8.85 UB		K6.99	5.01	1.21	5.01	25.05
PCB-45/51	1.99 UB	K1.99		3.13	0.722	K0.158	3.13	15.65
PCB-46	K0.713	K0.795		<0.732	K0.235	0.08	0.08	0.4
PCB-48	1.33	1.35		K1.33	K0.413	K0.193	0	0
PCB-49/69	K4.64	5.05 UB		3.67	1.52	K0.528	3.67	18.35
PCB-50/53	1.99 UB	K1.98		1.92	0.575	0.252	1.92	9.6
PCB-52	9.23 UB	10.8 UB		<0.565	3.82	1.48	3.82	19.1
PCB-54	<0.535	K0.352	103	K1.88	K0.125	<0.0084	0	0
PCB-55	<0.649	<0.816		<1.20	<0.173	<0.0457	0	0
PCB-56	2.34	3.51		K1.97	K0.662	0.34	0.34	1.7
PCB-57	<0.636	<0.799		<1.14	<0.168	<0.0448	0	0
PCB-58	<0.602	<0.756		<1.12	<0.162	<0.0429	0	0
PCB-59/62/75	K0.781	1.34		<0.449	K0.436	K0.093	0	0
PCB-60	K1.19	1.45		<1.15	K0.343	K0.198	0	0
PCB-61/70/74/76	6.78 UB	12.6 UB		7.77	3.2	K1.10	7.77	38.85
PCB-63	<0.607	<0.762		<1.08	<0.161	<0.0425	0	0
PCB-64	3.54 UB	4.42		K2.17	0.798	0.364	0.798	3.99
PCB-66	4.04 UB	8.61 UB		5.16	1.94	K0.549	5.16	25.8
PCB-67	<0.582	<0.732		<1.04	<0.151	<0.0394	0	0
PCB-68	<0.596	<0.748		<1.08	K0.255	0.075	0.075	0.375
PCB-72	<0.598	<0.752		<1.11	<0.158	<0.0413	0	0
PCB-73	<0.385	0.386		<0.699	K0.022	K0.022	0	0
PCB-77	0.78	1.37	102	K1.73	K0.525	K0.076	0	0
PCB-78	<0.678	<0.852		<1.15	<0.177	<0.0501	0	0
PCB-79	<0.580	<0.728		<0.966	<0.137	<0.0408	0	0
PCB-80	<0.603	<0.757		<1.02	<0.159	<0.0426	0	0
PCB-81	<0.692	<0.876	105	<1.14	<0.191	K0.101	0	0

Table C-10
Raw Data and EPA Qualification for Workgroup 10229

TYPE	Field Sample	Field Sample			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Plante's Ferry	Forebay - Shallow			N/AP	Trip Blank		
CLIENT ID	AN-01SW-030902	AN-03ASW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-7	L6133-12	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-82	K0.830	K0.928		<0.897	K0.287	K0.097	0	0
PCB-83/99	1.56 UB	4.04		K2.82	K1.58	0.343	0.343	1.715
PCB-84	0.893	1.72		<0.926	K0.622	K0.168	0	0
PCB-85/116/117	K0.896	2.36		K1.32	K0.347	K0.088	0	0
PCB-86/87/97/108/119/125	2.5 UB	4.64 UB		3.9	1.75	K0.607	3.9	19.5
PCB-88/91	K0.745	K1.30		<0.807	K0.207	K0.066	0	0
PCB-89	<0.271	<0.340		<0.851	K0.092	<0.0156	0	0
PCB-90/101/113	2.65 UB	5.05 UB		4.71	2.03	0.609	4.71	23.55
PCB-92	K0.541	K1.06		<0.820	0.335	K0.213	0.335	1.675
PCB-93/95/98/100/102	2.74 UB	5.06 UB		<0.789	2.02	<0.0138	2.02	10.1
PCB-94	<0.265	<0.332		<0.851	K0.047	K0.028	0	0
PCB-96	K0.165	K0.149		K0.340	K0.024	K0.028	0	0
PCB-103	<0.231	<0.290		<0.751	K0.080	<0.0131	0	0
PCB-104	K0.147	K0.474	102	<0.437	K0.151	K0.023	0	0
PCB-105	K1.42	2.67 UB	99.7	1.7	K0.467	K0.261	1.7	8.5
PCB-106	<0.341	<0.319		<0.945	<0.0814	<0.0126	0	0
PCB-107/124	0.397	0.556		<0.992	<0.0866	K0.023	0	0
PCB-109	<0.340	0.59		<0.936	<0.0875	<0.0131	0	0
PCB-110/115	2.96 UB	6.87 UB		4.17	1.67	K0.565	4.17	20.85
PCB-111	<0.197	<0.247		<0.596	K0.033	K0.036	0	0
PCB-112	<0.195	<0.244		<0.632	<0.0139	K0.032	0	0
PCB-114	0.388	0.42	99.2	<1.03	K0.223	K0.028	0	0
PCB-118	K2.40	5.16 UB	96	4.61	1.86	K0.541	4.61	23.05
PCB-120	<0.192	K0.248		<0.563	K0.019	<0.0114	0	0
PCB-121	<0.193	<0.242		<0.608	0.015	0.015	0.015	0.075
PCB-122	<0.392	<0.367		<1.07	K0.096	<0.0142	0	0
PCB-123	<0.373	K0.452	97.6	<1.04	K0.224	K0.097	0	0
PCB-126	<0.416	<0.373	98.9	<1.09	K0.092	K0.069	0	0
PCB-127	<0.373	<0.349		<0.951	<0.0827	K0.038	0	0
PCB-128/166	K0.614	K0.917		<0.610	K0.173	K0.204	0	0
PCB-129/138/160/163	2.52 UB	4.64 UB		K4.95	1.63	0.449	1.63	8.15
PCB-130	<0.353	<0.482		<0.795	K0.066	<0.0232	0	0

Table C-10
Raw Data and EPA Qualification for Workgroup 10229

TYPE	Field Sample	Field Sample			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Plante's Ferry	Forebay - Shallow			N/AP	Trip Blank		
CLIENT ID	AN-01SW-030902	AN-03ASW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-7	L6133-12	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-131	<0.352	<0.480		<0.784	K0.055	K0.045	0	0
PCB-132	0.424 UB	1.03 UB		1.76	K0.469	<0.0215	1.76	8.8
PCB-133	<0.323	<0.442		<0.764	<0.0235	K0.072	0	0
PCB-134/143	<0.334	<0.456		<0.803	K0.131	K0.053	0	0
PCB-135/151/154	K0.899	1.4 UB		K0.885	0.948	K0.078	0.948	4.74
PCB-136	K0.292	K0.510		K0.384	0.339	<0.0149	0.339	1.695
PCB-137	<0.313	<0.428		<0.723	K0.117	<0.0218	0	0
PCB-139/140	<0.297	<0.405		<0.703	K0.048	<0.0196	0	0
PCB-141	K0.594	0.767 UB		K1.30	0.245	K0.060	0.245	1.225
PCB-142	<0.327	<0.446		<0.793	<0.0240	<0.0210	0	0
PCB-144	K0.167	0.338		K0.552	K0.054	<0.0218	0	0
PCB-145	<0.0418	K0.128		K0.328	K0.060	<0.0162	0	0
PCB-146	K0.364	K0.847		1.47	K0.393	K0.085	1.47	7.35
PCB-147/149	1.16	2.76		K3.66	K1.61	K0.415	0	0
PCB-148	0.576	K0.181		<0.277	K0.043	<0.0220	0	0
PCB-150	K0.098	<0.0339		K0.339	<0.0187	<0.0151	0	0
PCB-152	K0.072	K0.229		<0.194	<0.0168	<0.0135	0	0
PCB-153/168	K2.16	3.52 UB		4.78	2.04	K0.439	4.78	23.9
PCB-155	K0.192	K0.359	99.8	K0.402	0.106	K0.042	0.106	0.53
PCB-156/157	0.841 UB	0.982 UB	102	1.24	K0.496	K0.088	1.24	6.2
PCB-158	K0.397	<0.303		<0.499	K0.248	K0.052	0	0
PCB-159	<0.236	<0.322		<0.519	<0.0159	K0.024	0	0
PCB-161	<0.222	<0.303		<0.538	<0.0168	<0.0151	0	0
PCB-162	<0.238	<0.325		<0.523	<0.0163	K0.032	0	0
PCB-164	K0.267	<0.341		<0.543	K0.078	K0.023	0	0
PCB-165	<0.249	<0.341		<0.585	K0.031	K0.046	0	0
PCB-167	K0.306	K0.401	104	<0.408	K0.161	K0.067	0	0
PCB-169	0.526 UB	<0.300	103	0.589	<0.0970	<0.102	0.589	2.945
PCB-170	K0.679	1.38		K1.39	K0.429	K0.079	0	0
PCB-171/173	K0.480	0.488		<0.166	<0.0290	<0.0279	0	0
PCB-172	K0.198	<0.161		K0.213	K0.080	K0.040	0	0
PCB-174	0.496 UB	K0.739		K0.750	0.468	K0.154	0.468	2.34

Table C-10
Raw Data and EPA Qualification for Workgroup 10229

TYPE	Field Sample	Field Sample			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Plante's Ferry	Forebay - Shallow			N/AP	Trip Blank		
CLIENT ID	AN-01SW-030902	AN-03ASW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-7	L6133-12	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-175	K0.212	<0.146		<0.159	<0.0252	K0.033	0	0
PCB-176	K0.129	<0.116		K0.287	<0.0206	<0.0202	0	0
PCB-177	K0.248	0.541		K1.04	K0.296	K0.074	0	0
PCB-178	K0.236	K0.243		K0.434	<0.0248	K0.031	0	0
PCB-179	K0.252	K0.386		K0.319	<0.0201	K0.042	0	0
PCB-180/193	K1.75	K2.21		K3.10	K1.25	0.342	0.342	1.71
PCB-181	K0.092	<0.150		<0.153	<0.0252	0.037	0.037	0.185
PCB-182	K0.099	<0.147		<0.159	0.077	<0.0283	0.077	0.385
PCB-183/185	K0.372	K0.824		K0.289	K0.474	<0.0272	0	0
PCB-184	K0.072	K0.178		<0.117	K0.064	<0.0181	0	0
PCB-186	K0.062	<0.116		0.152	<0.0203	<0.0198	0.152	0.76
PCB-187	K0.937	K1.57		K1.75	0.631	K0.196	0.631	3.155
PCB-188	K0.171	K0.224	103	K0.461	<0.0177	K0.141	0	0
PCB-189	K0.338	0.336	98.2	<0.514	K0.098	K0.066	0	0
PCB-190	K0.270	K0.374		K0.356	K0.070	<0.0196	0	0
PCB-191	2.82	0.177		<0.116	<0.0207	<0.0203	0	0
PCB-192	K0.077	K0.142		K0.192	<0.0229	0.101	0.101	0.505
PCB-194	K0.316	0.508 UB		1.08	K0.112	K0.082	1.08	5.4
PCB-195	K0.216	<0.273		K0.513	K0.047	K0.021	0	0
PCB-196	K0.304	0.426		K0.517	K0.309	K0.074	0	0
PCB-197/200	K0.044	<0.0452		<0.171	K0.062	<0.0267	0	0
PCB-198/199	K0.400	K0.769		K1.11	<0.0314	<0.0338	0	0
PCB-201	K0.079	0.185 UB		0.184	K0.042	<0.0278	0.184	0.92
PCB-202	K0.248	K0.283	103	K0.514	<0.0309	K0.068	0	0
PCB-203	K0.290	K0.593		K0.928	<0.0295	<0.0322	0	0
PCB-204	K0.076	K0.111		<0.176	<0.0263	<0.0273	0	0
PCB-205	0.279	<0.268	109	K0.326	K0.079	K0.049	0	0
PCB-206	<1.74	<1.45	92.5	<2.42	<0.282	<0.128	0	0
PCB-207	<1.07	<0.912		<2.29	<0.257	<0.127	0	0
PCB-208	<1.08	<0.938	99.1	<2.50	<0.266	<0.128	0	0
PCB-209	K0.455	K0.405	91.7	1.14	0.491	K0.307	1.14	5.7
Total Monochloro Biphenyls	0.00	0.00						

**Table C-10
Raw Data and EPA Qualification for Workgroup 10229**

TYPE	Field Sample	Field Sample			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Plante's Ferry	Forebay - Shallow			N/AP	Trip Blank		
CLIENT ID	AN-01SW-030902	AN-03ASW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYS ID	L6133-7	L6133-12	WG10490-102	WG10490-101 i	L6133-14	L6133-2		
WORKGROUP	WG10490	WG10490	WG10490	WG10490	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
Total Dichloro Biphenyls	2.78	79.14						
Total Trichloro Biphenyls	0.00	0.94						
Total Tetrachloro Biphenyls	4.45	14.38						
Total Pentachloro Biphenyls	1.68	9.69						
Total Hexachloro Biphenyls	1.74	3.10						
Total Heptachloro Biphenyls	2.82	2.92						
Total Octachloro Biphenyls	0.28	0.43						
Total Nonachloro Biphenyls	0.00	0.00						
Decachloro Biphenyl	0.00	0.00						
TOTAL PCBs	13.74	110.58						

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

K = target compound could not be confirmed by satisfying all method criteria

UB = not detected, detected in associated blank

U = not detected

Table C-11
Raw Data and EPA Qualification for Workgroup 10228

TYPE	Field Sample	Field QC			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Boulder - Shallow	Plante's Ferry			N/AP	Trip Blank		
CLIENT ID	AN-02ASW-030902	AN-51SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYSD	L6133-9	L6133-8	WG10228-102	WG10228-101	L6133-14	L6133-2		
WORKGROUP	WG10228	WG10228	WG10228	WG10228	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-1	1.32 UB	1.15 UB	105	K0.417	0.999	0.831	0.999	4.995
PCB-2	0.942 UB	0.482 UB		0.471	K0.799	K0.641	0.471	2.355
PCB-3	0.945 UB	1.1 UB	105	K1.10	1.69	K1.71	1.69	8.45
PCB-4	3.76 UB	5.43 UB	113	<1.17	1.76	<1.33	1.76	8.8
PCB-5	<1.46	<0.850		<0.995	<1.18	<1.03	0	0
PCB-6	1.62	2.4		<0.925	K1.32	<0.956	0	0
PCB-7	<1.37	1.57 UB		1.49	37.1	3.05	37.1	185.5
PCB-8	3.4 UB	3.91 UB		<0.876	4.91	K1.98	4.91	24.55
PCB-9	<1.38	<0.794		<0.892	<1.02	<0.922	0	0
PCB-10	<1.44	<0.819		<0.900	<1.08	<0.930	0	0
PCB-11	79.1	3.21 UB		1.79	8.09	2.97	8.09	40.45
PCB-12/13	<1.45	<0.814		<1.02	<1.18	<1.05	0	0
PCB-14	<1.43	<0.815		<1.00	<1.12	<1.04	0	0
PCB-15	2.73 UB	K2.53	115	<1.53	3.05	<1.47	3.05	15.25
PCB-16	2.11 UB	K2.22		K0.282	1.63	0.338	1.63	8.15
PCB-17	K1.27	2.65 UB		K0.380	2.15	0.45	2.15	10.75
PCB-18/30	5.29 UB	6 UB		K0.535	4.14	K1.04	4.14	20.7
PCB-19	2.77 UB	2.67 UB	100	K0.203	0.568	<0.289	0.568	2.84
PCB-20/28	9.29 UB	9.69 UB		K0.620	6.78	1.09	6.78	33.9
PCB-21/33	2.57 UB	1.86 UB		0.403	1.95	K0.614	1.95	9.75
PCB-22	2.82 UB	3.47 UB		0.403	1.24	K0.511	1.24	6.2
PCB-23	<0.362	<0.107		<0.190	<0.169	<0.198	0	0
PCB-24	<0.227	0.163		<0.125	<0.161	<0.189	0	0
PCB-25	0.832 UB	K0.887		<0.168	0.277	<0.175	0.277	1.385
PCB-26/29	K2.34	K2.38		<0.186	0.751	K0.298	0.751	3.755
PCB-27	0.828	1.17		<0.125	K0.279	<0.188	0	0
PCB-31	8.77 UB	7.81 UB		0.697	3.25	K1.01	3.25	16.25
PCB-32	1.98 UB	3.18 UB		<0.172	1.02	K0.336	1.02	5.1
PCB-34	<0.364	<0.105		<0.188	<0.173	<0.196	0	0
PCB-35	<0.399	K0.150		<0.231	<0.199	<0.242	0	0
PCB-36	<0.363	<0.100		<0.201	<0.180	<0.210	0	0
PCB-37	1.91	K1.41	118	<0.288	K1.30	<0.280	0	0

Table C-11
Raw Data and EPA Qualification for Workgroup 10228

TYPE	Field Sample	Field QC			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Boulder - Shallow	Plante's Ferry			N/AP	Trip Blank		
CLIENT ID	AN-02ASW-030902	AN-51SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYSD	L6133-9	L6133-8	WG10228-102	WG10228-101	L6133-14	L6133-2		
WORKGROUP	WG10228	WG10228	WG10228	WG10228	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-38	<0.371	<0.103		<0.209	<0.188	<0.218	0	0
PCB-39	<0.362	<0.0975		<0.197	<0.180	<0.206	0	0
PCB-40/41/71	4.09	3.95		0.335	K1.09	K0.432	0.335	1.675
PCB-42	2.38 UB	1.97 UB		K0.150	0.511	0.21	0.511	2.555
PCB-43	0.389	<0.0053		<0.0138	K0.114	K0.036	0	0
PCB-44/47/65	8.85 UB	7.6 UB		K0.681	5.01	1.21	5.01	25.05
PCB-45/51	2.21 UB	K2.24		K0.054	0.722	K0.158	0.722	3.61
PCB-46	0.817	0.731		K0.020	K0.235	0.08	0.08	0.4
PCB-48	0.998	1.21		K0.124	K0.413	K0.193	0	0
PCB-49/69	5.11 UB	4.79 UB		0.416	1.52	K0.528	1.52	7.6
PCB-50/53	1.94 UB	1.8 UB		K0.240	0.575	0.252	0.575	2.875
PCB-52	10.7 UB	9.57 UB		1.43	3.82	1.48	3.82	19.1
PCB-54	0.134	0.039	102	K0.020	K0.125	<0.0084	0	0
PCB-55	<0.428	<0.0478		<0.0128	<0.173	<0.0457	0	0
PCB-56	3.9	K1.98		K0.181	K0.662	0.34	0.34	1.7
PCB-57	<0.412	<0.0473		K0.015	<0.168	<0.0448	0	0
PCB-58	<0.408	<0.0465		<0.0120	<0.162	<0.0429	0	0
PCB-59/62/75	0.966	0.639		<0.0093	K0.436	K0.093	0	0
PCB-60	1.62	1.15		K0.126	K0.343	K0.198	0	0
PCB-61/70/74/76	12.8 UB	6.69 UB		0.787	3.2	K1.10	3.2	16
PCB-63	0.459	K0.197		<0.0119	<0.161	<0.0425	0	0
PCB-64	4.1	3.48 UB		K0.236	0.798	0.364	0.798	3.99
PCB-66	8.1 UB	3.7 UB		K0.237	1.94	K0.549	1.94	9.7
PCB-67	<0.382	0.135		<0.0110	<0.151	<0.0394	0	0
PCB-68	<0.385	<0.0453		0.11	K0.255	0.075	0.11	0.55
PCB-72	<0.413	<0.0454		<0.0115	<0.158	<0.0413	0	0
PCB-73	<0.0844	K0.148		K0.046	K0.022	K0.022	0	0
PCB-77	1.21	0.375	111	K0.226	K0.525	K0.076	0	0
PCB-78	<0.433	<0.0478		<0.0140	<0.177	<0.0501	0	0
PCB-79	<0.373	<0.0402		K0.067	<0.137	<0.0408	0	0
PCB-80	<0.397	<0.0438		<0.0119	<0.159	<0.0426	0	0
PCB-81	<0.371	<0.0528	114	K0.066	<0.191	K0.101	0	0

Table C-11
Raw Data and EPA Qualification for Workgroup 10228

TYPE	Field Sample	Field QC			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Boulder - Shallow	Plante's Ferry			N/AP	Trip Blank		
CLIENT ID	AN-02ASW-030902	AN-51SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYSD	L6133-9	L6133-8	WG10228-102	WG10228-101	L6133-14	L6133-2		
WORKGROUP	WG10228	WG10228	WG10228	WG10228	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-82	1.08	0.336		K0.045	K0.287	K0.097	0	0
PCB-83/99	3.92	K1.21		K0.181	K1.58	0.343	0.343	1.715
PCB-84	1.66	1.06		K0.106	K0.622	K0.168	0	0
PCB-85/116/117	2.13	K0.625		K0.076	K0.347	K0.088	0	0
PCB-86/87/97/108/119/125	4.18 UB	1.85 UB		<0.0168	1.75	K0.607	1.75	8.75
PCB-88/91	<0.233	0.636		K0.075	K0.207	K0.066	0	0
PCB-89	<0.249	<0.0067		<0.0206	K0.092	<0.0156	0	0
PCB-90/101/113	4.87 UB	K1.97		K0.368	2.03	0.609	2.03	10.15
PCB-92	1.01 UB	0.413 UB		K0.077	0.335	K0.213	0.335	1.675
PCB-93/95/98/100/102	4.77 UB	2.48 UB		K0.111	2.02	<0.0138	2.02	10.1
PCB-94	<0.247	<0.0066		<0.0202	K0.047	K0.028	0	0
PCB-96	<0.0976	K0.095		K0.024	K0.024	K0.028	0	0
PCB-103	<0.211	K0.035		<0.0173	K0.080	<0.0131	0	0
PCB-104	<0.130	K0.017	95.4	K0.014	K0.151	K0.023	0	0
PCB-105	1.83	0.944	110	<0.115	K0.467	K0.261	0	0
PCB-106	<0.194	<0.0325		<0.0924	<0.0814	<0.0126	0	0
PCB-107/124	K0.423	K0.090		<0.101	<0.0866	K0.023	0	0
PCB-109	0.564	<0.0346		<0.0962	<0.0875	<0.0131	0	0
PCB-110/115	6.11 UB	2.49 UB		K0.375	1.67	K0.565	1.67	8.35
PCB-111	<0.177	K0.013		<0.0145	K0.033	K0.036	0	0
PCB-112	<0.171	<0.0048		0.017	<0.0139	K0.032	0.017	0.085
PCB-114	K0.252	<0.0369	106	<0.0985	K0.223	K0.028	0	0
PCB-118	3.51 UB	1.76 UB	111	0.47	1.86	K0.541	1.86	9.3
PCB-120	<0.171	0.013		K0.033	K0.019	<0.0114	0	0
PCB-121	<0.176	<0.0047		K0.045	0.015	0.015	0.015	0.075
PCB-122	<0.229	<0.0377		<0.104	K0.096	<0.0142	0	0
PCB-123	K0.204	K0.071	111	K0.121	K0.224	K0.097	0	0
PCB-126	<0.208	K0.043	108	K0.235	K0.092	K0.069	0	0
PCB-127	<0.212	<0.0367		<0.0991	<0.0827	K0.038	0	0
PCB-128/166	0.874	K0.254		0.079	K0.173	K0.204	0.079	0.395
PCB-129/138/160/163	3.63 UB	1.03 UB		<0.0254	1.63	0.449	1.63	8.15
PCB-130	K0.312	K0.071		<0.0314	K0.066	<0.0232	0	0

**Table C-11
Raw Data and EPA Qualification for Workgroup 10228**

TYPE	Field Sample	Field QC			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Boulder - Shallow	Plante's Ferry			N/AP	Trip Blank		
CLIENT ID	AN-02ASW-030902	AN-51SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYSD	L6133-9	L6133-8	WG10228-102	WG10228-101	L6133-14	L6133-2		
WORKGROUP	WG10228	WG10228	WG10228	WG10228	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-131	<0.167	K0.041		<0.0287	K0.055	K0.045	0	0
PCB-132	1.17	K0.510		<0.0291	K0.469	<0.0215	0	0
PCB-133	<0.163	0.012		<0.0285	<0.0235	K0.072	0	0
PCB-134/143	<0.163	K0.032		<0.0309	K0.131	K0.053	0	0
PCB-135/151/154	K1.20	K0.389		0.063	0.948	K0.078	0.948	4.74
PCB-136	0.399 UB	K0.097		K0.045	0.339	<0.0149	0.339	1.695
PCB-137	K0.233	K0.085		<0.0294	K0.117	<0.0218	0	0
PCB-139/140	<0.146	<0.0059		K0.071	K0.048	<0.0196	0	0
PCB-141	0.754 UB	K0.197		<0.0293	0.245	K0.060	0.245	1.225
PCB-142	<0.164	<0.0064		<0.0284	<0.0240	<0.0210	0	0
PCB-144	K0.088	K0.014		<0.0344	K0.054	<0.0218	0	0
PCB-145	<0.0126	K0.016		<0.0256	K0.060	<0.0162	0	0
PCB-146	0.664	K0.135		<0.0242	K0.393	K0.085	0	0
PCB-147/149	2.53	0.692		K0.367	K1.61	K0.415	0	0
PCB-148	<0.0164	<0.0097		<0.0348	K0.043	<0.0220	0	0
PCB-150	K0.037	<0.0070		K0.024	<0.0187	<0.0151	0	0
PCB-152	K0.050	K0.012		<0.0213	<0.0168	<0.0135	0	0
PCB-153/168	3.01 UB	K0.911		0.365	2.04	K0.439	2.04	10.2
PCB-155	K0.058	K0.021	96.2	K0.063	0.106	K0.042	0.106	0.53
PCB-156/157	0.636	0.168	100	K0.117	K0.496	K0.088	0	0
PCB-158	K0.315	K0.112		<0.0207	K0.248	K0.052	0	0
PCB-159	<0.121	<0.0048		<0.0226	<0.0159	K0.024	0	0
PCB-161	<0.121	K0.014		<0.0204	<0.0168	<0.0151	0	0
PCB-162	<0.117	K0.009		<0.0230	<0.0163	K0.032	0	0
PCB-164	K0.294	K0.055		K0.057	K0.078	K0.023	0	0
PCB-165	<0.127	0.008		<0.0228	K0.031	K0.046	0	0
PCB-167	0.295	K0.089	101	<0.0178	K0.161	K0.067	0	0
PCB-169	K0.228	K0.018	104	<0.107	<0.0970	<0.102	0	0
PCB-170	K0.816	K0.213		K0.044	K0.429	K0.079	0	0
PCB-171/173	K0.308	<0.0080		0.046	<0.0290	<0.0279	0.046	0.23
PCB-172	K0.247	<0.0081		<0.0291	K0.080	K0.040	0	0
PCB-174	K0.880	<0.0076		<0.0287	0.468	K0.154	0.468	2.34

Table C-11
Raw Data and EPA Qualification for Workgroup 10228

TYPE	Field Sample	Field QC			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Boulder - Shallow	Plante's Ferry			N/AP	Trip Blank		
CLIENT ID	AN-02ASW-030902	AN-51SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYSD	L6133-9	L6133-8	WG10228-102	WG10228-101	L6133-14	L6133-2		
WORKGROUP	WG10228	WG10228	WG10228	WG10228	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
PCB-175	K0.050	<0.0075		<0.0300	<0.0252	K0.033	0	0
PCB-176	K0.154	K0.022		<0.0201	<0.0206	<0.0202	0	0
PCB-177	0.549	<0.0076		K0.066	K0.296	K0.074	0	0
PCB-178	K0.244	K0.096		<0.0292	<0.0248	K0.031	0	0
PCB-179	K0.354	K0.128		K0.065	<0.0201	K0.042	0	0
PCB-180/193	1.58 UB	<0.0064		<0.0213	K1.25	0.342	0.342	1.71
PCB-181	K0.076	<0.0074		<0.0256	<0.0252	0.037	0.037	0.185
PCB-182	<0.0153	<0.0073		<0.0282	0.077	<0.0283	0.077	0.385
PCB-183/185	0.594	<0.0072		<0.0271	K0.474	<0.0272	0	0
PCB-184	<0.0114	<0.0053		<0.0181	K0.064	<0.0181	0	0
PCB-186	K0.038	0.018		<0.0197	<0.0203	<0.0198	0	0
PCB-187	0.938 UB	K0.397		K0.261	0.631	K0.196	0.631	3.155
PCB-188	K0.044	K0.021	92.6	<0.0162	<0.0177	K0.141	0	0
PCB-189	K0.136	K0.025	112	<0.0238	K0.098	K0.066	0	0
PCB-190	K0.219	<0.0057		K0.054	K0.070	<0.0196	0	0
PCB-191	K0.024	<0.0059		<0.0203	<0.0207	<0.0203	0	0
PCB-192	K0.023	K0.014		<0.0224	<0.0229	0.101	0.101	0.505
PCB-194	K0.374	K0.190		K0.031	K0.112	K0.082	0	0
PCB-195	K0.189	K0.024		<0.0255	K0.047	K0.021	0	0
PCB-196	K0.239	K0.040		<0.0304	K0.309	K0.074	0	0
PCB-197/200	K0.057	<0.0081		<0.0224	K0.062	<0.0267	0	0
PCB-198/199	0.416	K0.266		K0.073	<0.0314	<0.0338	0	0
PCB-201	K0.113	0.02		<0.0233	K0.042	<0.0278	0	0
PCB-202	0.206	K0.116	99.7	<0.0281	<0.0309	K0.068	0	0
PCB-203	K0.327	<0.0100		<0.0270	<0.0295	<0.0322	0	0
PCB-204	K0.058	<0.0081		<0.0229	<0.0263	<0.0273	0	0
PCB-205	K0.138	K0.032	101	<0.0178	K0.079	K0.049	0	0
PCB-206	<0.629	K0.146	97.6	K0.049	<0.282	<0.128	0	0
PCB-207	<0.487	<0.105		<0.0380	<0.257	<0.127	0	0
PCB-208	<0.491	K0.259	95.2	K0.088	<0.266	<0.128	0	0
PCB-209	0.459 UB	K0.275	90.8	K0.373	0.491	K0.307	0.491	2.455
Total Monochloro Biphenyls	0.00	0.00						

**Table C-11
Raw Data and EPA Qualification for Workgroup 10228**

TYPE	Field Sample	Field QC			Field Blank	Field QC	Calculation Maximum Blank	Calculation 5x Max Blank
LOCATION	Boulder - Shallow	Plante's Ferry			N/AP	Trip Blank		
CLIENT ID	AN-02ASW-030902	AN-51SW-030902	SPIKED MATRIX	LAB BLANK	AN-00SWRB-030902	Trip Blank		
AXYSD	L6133-9	L6133-8	WG10228-102	WG10228-101	L6133-14	L6133-2		
WORKGROUP	WG10228	WG10228	WG10228	WG10228	WG10229	WG10228		
UNITS	pg/L	pg/L	% REC	pg/L	pg/L	pg/L		
Total Dichloro Biphenyls	80.72	2.40						
Total Trichloro Biphenyls	2.74	1.33						
Total Tetrachloro Biphenyls	18.68	8.23						
Total Pentachloro Biphenyls	11.18	2.99						
Total Hexachloro Biphenyls	6.17	0.88						
Total Heptachloro Biphenyls	1.14	0.02						
Total Octachloro Biphenyls	0.62	0.02						
Total Nonachloro Biphenyls	0.00	0.00						
Decachloro Biphenyl	0.00	0.00						
TOTAL PCBs	121.26	15.87						

pg/L = picograms / liter

< = not detected at value listed

% REC = percent recovery of spike congener

K = target compound could not be confirmed by satisfying all method criteria

UB = not detected, detected in associated blank

U = not detected

Table C-12
Raw Data and EPA Qualification for Workgroup 11825

Type	Field	Field	Field	Field	Lab QC	Field Blank	Field QC		
Location	Monroe St	Monroe St	Riverside	Riverside	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-13SW-030902	AN-13SW-030902	AN-14SW-030902	AN-14SW-030902	LAB BLANK	AN-00SWRB-030902	Trip Blank		SPIKED MATRIX
Axys ID	L6133-17	L6133-17	L6133-18	L6133-18	WG11825-101	L6133-14	L6133-2	5x Maximum	WG11825-102
WORKGROUP	WG11825	WG11825	WG11825	WG11825	WG11825	WG10229	WG10228	Blank	WG11825
UNITS	pg/L	EPA Qual.	pg/L	EPA Qual.	pg/L	pg/L	pg/L	pg/L	% REC
PCB-1	1.02	UB	K1.33	U	0.524	0.999	0.831	5.00	106
PCB-2	K0.665	U	1.24	1.24	K0.356	K0.799	K0.641	0.00	
PCB-3	K1.32	U	K1.61	U	K0.993	1.69	K1.71	8.45	109
PCB-4	K1.99	U	5.13	UB	<0.563	1.76	<1.33	8.80	99.5
PCB-5	<0.988	U	<0.548	U	<0.453	<1.18	<1.03	0.00	
PCB-6	<0.960	U	1.13	1.13	<0.440	K1.32	<0.956	0.00	
PCB-7	2.68	UB	3.21	UB	<0.423	37.1	3.05	185.50	
PCB-8	2.32	UB	3.66	UB	K0.669	4.91	K1.98	24.55	
PCB-9	<0.926	U	<0.513	U	<0.424	<1.02	<0.922	0.00	
PCB-10	<0.941	U	<0.521	U	<0.431	<1.08	<0.930	0.00	
PCB-11	50.9	50.9	75.9	75.9	K5.27	8.09	2.97	40.45	
PCB-12/13	<0.986	U	K1.40	U	<0.452	<1.18	<1.05	0.00	
PCB-14	<0.949	U	<0.526	U	<0.435	<1.12	<1.04	0.00	
PCB-15	2.09	UB	3.53	UB	<0.565	3.05	<1.47	15.25	105
PCB-16	1.73	UB	4.11	UB	K0.519	1.63	0.338	8.15	
PCB-17	1.88	UB	4	UB	K0.614	2.15	0.45	10.75	
PCB-18/30	4.08	UB	10.3	UB	K1.04	4.14	K1.04	20.70	
PCB-19	1.25	UB	2.23	UB	<0.188	0.568	<0.289	2.84	109
PCB-20/28	6.07	UB	11.2	UB	1.22	6.78	1.09	33.90	
PCB-21/33	1.83	UB	3.87	UB	0.622	1.95	K0.614	9.75	
PCB-22	1.88	UB	3.78	UB	0.363	1.24	K0.511	6.20	
PCB-23	<0.253	U	<0.193	U	<0.209	<0.169	<0.198	0.00	
PCB-24	<0.152	U	K0.216	U	<0.119	<0.161	<0.189	0.00	
PCB-25	K0.380	U	K0.703	U	<0.187	0.277	<0.175	1.39	
PCB-26/29	1.05	UB	2.27	UB	K0.233	0.751	K0.298	3.76	
PCB-27	0.539	0.539	0.908	0.908	<0.116	K0.279	<0.188	0.00	
PCB-31	4.72	UB	10.1	UB	K1.17	3.25	K1.01	16.25	
PCB-32	0.94	UB	2.64	UB	0.29	1.02	K0.336	5.10	
PCB-34	<0.256	U	<0.195	U	<0.212	<0.173	<0.196	0.00	
PCB-35	<0.268	U	K0.529	U	<0.222	<0.199	<0.242	0.00	
PCB-36	<0.239	U	0.279	0.279	<0.198	<0.180	<0.210	0.00	
PCB-37	0.992	0.992	2.03	2.03	K0.375	K1.30	<0.280	0.00	100
PCB-38	<0.257	U	<0.196	U	<0.212	<0.188	<0.218	0.00	
PCB-39	<0.246	U	<0.188	U	<0.204	<0.180	<0.206	0.00	
PCB-40/41/71	3.44	3.44	5.2	5.2	0.462	K1.09	K0.432	2.31	
PCB-42	1.71	UB	2.31	UB	0.178	0.511	0.21	2.56	
PCB-43	K0.224	U	K0.677	U	<0.107	K0.114	K0.036	0.00	
PCB-44/47/65	7.73	UB	12.3	UB	1.26	5.01	1.21	25.05	
PCB-45/51	1.48	UB	2.21	UB	K0.251	0.722	K0.158	3.61	
PCB-46	K0.725	U	0.828	0.828	<0.105	K0.235	0.08	0.40	
PCB-48	1.35	1.35	1.86	1.86	K0.183	K0.413	K0.193	0.00	
PCB-49/69	4.88	UB	6.74	UB	K0.608	1.52	K0.528	7.60	
PCB-50/53	1.66	UB	1.76	UB	K0.247	0.575	0.252	2.88	
PCB-52	11.5	UB	20.6	20.6	1.34	3.82	1.48	19.10	
PCB-54	K0.125	U	<0.0660	U	K0.068	K0.125	<0.0084	0.00	107
PCB-55	<0.427	U	<0.295	U	<0.293	<0.173	<0.0457	0.00	
PCB-56	1.95	UB	3.25	3.25	0.443	K0.662	0.34	2.22	

Table C-12
Raw Data and EPA Qualification for Workgroup 11825

Type	Field	Field	Field	Field	Lab QC	Field Blank	Field QC		
Location	Monroe St	Monroe St	Riverside	Riverside	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-13SW-030902	AN-13SW-030902	AN-14SW-030902	AN-14SW-030902	LAB BLANK	AN-00SWRB-030902	Trip Blank		SPIKED MATRIX
Axys ID	L6133-17	L6133-17	L6133-18	L6133-18	WG11825-101	L6133-14	L6133-2	5x Maximum	WG11825-102
WORKGROUP	WG11825	WG11825	WG11825	WG11825	WG11825	WG10229	WG10228	Blank	WG11825
UNITS	pg/L	EPA Qual.	pg/L	EPA Qual.	pg/L	pg/L	pg/L	pg/L	% REC
PCB-57	<0.451	U	<0.311	U	<0.310	<0.168	<0.0448	0.00	
PCB-58	<0.451	U	<0.311	U	<0.310	<0.162	<0.0429	0.00	
PCB-59/62/75	K0.680	U	0.874	0.874	K0.138	K0.436	K0.093	0.00	
PCB-60	K0.606	U	1.67	1.67	<0.301	K0.343	K0.198	0.00	
PCB-61/70/74/76	8.72	UB	15.7	UB	1.3	3.2	K1.10	16.00	
PCB-63	<0.415	U	<0.287	U	<0.285	<0.161	<0.0425	0.00	
PCB-64	3.31	UB	4.89	4.89	K0.296	0.798	0.364	3.99	
PCB-66	4.78	UB	6.83	UB	K0.439	1.94	K0.549	9.70	
PCB-67	<0.389	U	<0.268	U	<0.267	<0.151	<0.0394	0.00	
PCB-68	<0.424	U	<0.292	U	<0.291	K0.255	0.075	0.38	
PCB-72	<0.435	U	<0.300	U	<0.299	<0.158	<0.0413	0.00	
PCB-73	<0.0555	U	<0.0589	U	<0.0654	K0.022	K0.022	0.00	
PCB-77	K0.732	U	0.838	0.838	K0.351	K0.525	K0.076	0.00	107
PCB-78	<0.451	U	<0.312	U	<0.310	<0.177	<0.0501	0.00	
PCB-79	<0.374	U	<0.258	U	<0.257	<0.137	<0.0408	0.00	
PCB-80	<0.404	U	<0.279	U	<0.277	<0.159	<0.0426	0.00	
PCB-81	<0.426	U	<0.304	U	<0.302	<0.191	K0.101	0.00	101
PCB-82	K0.892	U	2.68	2.68	<0.377	K0.287	K0.097	0.00	
PCB-83/99	3.7	3.7	8.99	8.99	0.39	K1.58	0.343	1.95	
PCB-84	2.26	2.26	6.01	6.01	<0.374	K0.622	K0.168	0.00	
PCB-85/116/117	1.53	1.53	3.5	3.5	<0.279	K0.347	K0.088	0.00	
PCB-86/87/97/108/119/125	4.77	UB	15.1	15.1	0.879	1.75	K0.607	8.75	
PCB-88/91	1.5	1.5	2.78	2.78	<0.323	K0.207	K0.066	0.00	
PCB-89	<0.286	U	<0.262	U	<0.347	K0.092	<0.0156	0.00	
PCB-90/101/113	7.52	UB	20.1	20.1	0.953	2.03	0.609	10.15	
PCB-92	1.56	UB	3.64	3.64	<0.332	0.335	K0.213	1.68	
PCB-93/95/98/100/102	12	12	20.5	20.5	0.635	2.02	<0.0138	10.10	
PCB-94	<0.280	U	<0.256	U	<0.339	K0.047	K0.028	0.00	
PCB-96	<0.141	U	0.137	0.137	<0.0480	K0.024	K0.028	0.00	
PCB-103	<0.240	U	<0.220	U	<0.290	K0.080	<0.0131	0.00	
PCB-104	<0.119	U	<0.0756	U	0.158	K0.151	K0.023	0.79	97.4
PCB-105	2.53	2.53	5.78	5.78	K0.466	K0.467	K0.261	0.00	99.1
PCB-106	<0.330	U	<0.303	U	<0.276	<0.0814	<0.0126	0.00	
PCB-107/124	<0.339	U	K0.599	U	<0.284	<0.0866	K0.023	0.00	
PCB-109	K0.423	U	1.02	1.02	<0.268	<0.0875	<0.0131	0.00	
PCB-110/115	8.5	8.5	21.9	21.9	K0.839	1.67	K0.565	8.35	
PCB-111	<0.207	U	<0.190	U	<0.251	K0.033	K0.036	0.00	
PCB-112	<0.217	U	<0.199	U	<0.262	<0.0139	K0.032	0.00	
PCB-114	K0.443	U	0.536	0.536	<0.288	K0.223	K0.028	0.00	102
PCB-118	5.26	UB	13.1	13.1	K0.656	1.86	K0.541	9.30	104
PCB-120	<0.202	U	<0.185	U	<0.245	K0.019	<0.0114	0.00	
PCB-121	<0.201	U	<0.184	U	<0.243	0.015	0.015	0.08	
PCB-122	<0.368	U	<0.338	U	<0.307	K0.096	<0.0142	0.00	
PCB-123	<0.368	U	1.08	1.08	<0.293	K0.224	K0.097	0.00	117
PCB-126	<0.403	U	<0.402	U	<0.385	K0.092	K0.069	0.00	107
PCB-127	<0.352	U	<0.324	U	<0.294	<0.0827	K0.038	0.00	
PCB-128/166	0.774	0.774	2.58	2.58	<0.281	K0.173	K0.204	0.00	

Table C-12
Raw Data and EPA Qualification for Workgroup 11825

Type	Field	Field	Field	Field	Lab QC	Field Blank	Field QC		
Location	Monroe St	Monroe St	Riverside	Riverside	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-13SW-030902	AN-13SW-030902	AN-14SW-030902	AN-14SW-030902	LAB BLANK	AN-00SWRB-030902	Trip Blank		SPIKED MATRIX
Axys ID	L6133-17	L6133-17	L6133-18	L6133-18	WG11825-101	L6133-14	L6133-2	5x Maximum	WG11825-102
WORKGROUP	WG11825	WG11825	WG11825	WG11825	WG11825	WG10229	WG10228	Blank	WG11825
UNITS	pg/L	EPA Qual.	pg/L	EPA Qual.	pg/L	pg/L	pg/L	pg/L	% REC
PCB-129/138/160/163	5.57	UB	17	17	0.726	1.63	0.449	8.15	
PCB-130	K0.403	U	1.17	1.17	<0.352	K0.066	<0.0232	0.00	
PCB-131	K0.066	U	<0.301	U	<0.319	K0.055	K0.045	0.00	
PCB-132	2.26	2.26	7.02	7.02	<0.322	K0.469	<0.0215	0.00	
PCB-133	K0.142	U	<0.295	U	<0.313	<0.0235	K0.072	0.00	
PCB-134/143	<0.0136	U	<0.301	U	<0.318	K0.131	K0.053	0.00	
PCB-135/151/154	3.06	UB	7.61	7.61	K0.372	0.948	K0.078	4.74	
PCB-136	1.34	UB	3.41	3.41	K0.157	0.339	<0.0149	1.70	
PCB-137	K0.277	U	0.875	0.875	<0.323	K0.117	<0.0218	0.00	
PCB-139/140	K0.183	U	0.557	0.557	<0.288	K0.048	<0.0196	0.00	
PCB-141	1.26	1.26	3.32	3.32	<0.317	0.245	K0.060	1.23	
PCB-142	<0.0137	U	<0.304	U	<0.322	<0.0240	<0.0210	0.00	
PCB-144	K0.402	U	1.01	1.01	0.046	K0.054	<0.0218	0.23	
PCB-145	<0.0183	U	<0.0147	U	<0.0179	K0.060	<0.0162	0.00	
PCB-146	0.966	0.966	K2.63	U	<0.280	K0.393	K0.085	0.00	
PCB-147/149	5.97	5.97	17.9	17.9	K0.783	K1.61	K0.415	0.00	
PCB-148	<0.0243	U	K0.054	U	<0.0239	K0.043	<0.0220	0.00	
PCB-150	K0.036	U	0.066	0.066	K0.070	<0.0187	<0.0151	0.00	
PCB-152	K0.021	U	<0.0138	U	<0.0168	<0.0168	<0.0135	0.00	
PCB-153/168	4.3	UB	13.1	13.1	K1.04	2.04	K0.439	10.20	
PCB-155	K0.100	U	K0.288	U	0.164	0.106	K0.042	0.82	107
PCB-156/157	K0.826	U	1.81	UB	0.797	K0.496	K0.088	3.99	106
PCB-158	K0.544	U	1.58	1.58	<0.228	K0.248	K0.052	0.00	
PCB-159	K0.053	U	<0.228	U	<0.242	<0.0159	K0.024	0.00	
PCB-161	<0.0098	U	<0.218	U	<0.231	<0.0168	<0.0151	0.00	
PCB-162	K0.032	U	<0.226	U	<0.239	<0.0163	K0.032	0.00	
PCB-164	K0.408	U	1.11	1.11	<0.234	K0.078	K0.023	0.00	
PCB-165	K0.019	U	<0.233	U	<0.247	K0.031	K0.046	0.00	
PCB-167	K0.313	U	K0.678	U	K0.255	K0.161	K0.067	0.00	103
PCB-169	K0.234	U	<0.279	U	K0.424	<0.0970	<0.102	0.00	104
PCB-170	K0.932	U	K2.19	U	K0.340	K0.429	K0.079	0.00	
PCB-171/173	0.283	0.283	0.693	0.693	K0.102	<0.0290	<0.0279	0.00	
PCB-172	K0.179	U	K0.569	U	K0.069	K0.080	K0.040	0.00	
PCB-174	K1.10	U	2.5	2.5	K0.123	0.468	K0.154	2.34	
PCB-175	K0.044	U	K0.155	U	<0.0187	<0.0252	K0.033	0.00	
PCB-176	K0.220	U	0.521	0.521	<0.0141	<0.0206	<0.0202	0.00	
PCB-177	K0.765	U	1.61	1.61	0.037	K0.296	K0.074	0.19	
PCB-178	K0.211	U	0.665	0.665	K0.141	<0.0248	K0.031	0.00	
PCB-179	0.669	0.669	K1.79	U	K0.047	<0.0201	K0.042	0.00	
PCB-180/193	1.94	1.94	5.23	5.23	K0.620	K1.25	0.342	1.71	
PCB-181	<0.0193	U	K0.069	U	<0.0196	<0.0252	0.037	0.19	
PCB-182	K0.041	U	K0.114	U	K0.172	0.077	<0.0283	0.39	
PCB-183/185	<0.0187	U	2.2	2.2	0.063	K0.474	<0.0272	0.32	
PCB-184	K0.034	U	<0.0154	U	<0.0134	K0.064	<0.0181	0.00	
PCB-186	<0.0142	U	K0.021	U	0.025	<0.0203	<0.0198	0.13	
PCB-187	1.43	UB	4	4	K0.307	0.631	K0.196	3.16	
PCB-188	K0.023	U	K0.037	U	K0.038	<0.0177	K0.141	0.00	109

**Table C-12
Raw Data and EPA Qualification for Workgroup 11825**

Type	Field	Field	Field	Field	Lab QC	Field Blank	Field QC		
Location	Monroe St	Monroe St	Riverside	Riverside	N/AP	N/AP	Trip Blank		
CLIENT ID	AN-13SW-030902	AN-13SW-030902	AN-14SW-030902	AN-14SW-030902	LAB BLANK	AN-00SWRB-030902	Trip Blank		SPIKED MATRIX
Axys ID	L6133-17	L6133-17	L6133-18	L6133-18	WG11825-101	L6133-14	L6133-2	5x Maximum	WG11825-102
WORKGROUP	WG11825	WG11825	WG11825	WG11825	WG11825	WG10229	WG10228	Blank	WG11825
UNITS	pg/L	EPA Qual.	pg/L	EPA Qual.	pg/L	pg/L	pg/L	pg/L	% REC
PCB-189	K0.144	U	K0.101	U	K0.419	K0.098	K0.066	0.00	106
PCB-190	K0.229	U	0.615	0.615	K0.030	K0.070	<0.0196	0.00	
PCB-191	K0.053	U	K0.068	U	K0.112	<0.0207	<0.0203	0.00	
PCB-192	0.02	UB	K0.021	U	K0.043	<0.0229	0.101	0.51	
PCB-194	0.474	0.474	K1.22	U	K0.054	K0.112	K0.082	0.00	
PCB-195	K0.230	U	0.502	0.502	K0.043	K0.047	K0.021	0.00	
PCB-196	K0.233	U	K0.640	U	K0.112	K0.309	K0.074	0.00	
PCB-197/200	K0.043	U	K0.248	U	K0.047	K0.062	<0.0267	0.00	
PCB-198/199	K0.272	U	K1.47	U	K0.050	<0.0314	<0.0338	0.00	
PCB-201	K0.056	U	K0.253	U	<0.0216	K0.042	<0.0278	0.00	
PCB-202	K0.187	U	0.786	0.786	<0.0232	<0.0309	K0.068	0.00	102
PCB-203	K0.226	U	K1.13	U	0.114	<0.0295	<0.0322	0.57	
PCB-204	<0.0228	U	K0.026	U	K0.037	<0.0263	<0.0273	0.00	
PCB-205	K0.170	U	K0.085	U	K0.173	K0.079	K0.049	0.00	103
PCB-206	<0.582	U	1.6	1.6	<0.682	<0.282	<0.128	0.00	106
PCB-207	<0.430	U	<0.351	U	<0.517	<0.257	<0.127	0.00	
PCB-208	<0.473	U	K0.632	U	<0.582	<0.266	<0.128	0.00	104
PCB-209	K0.414	U	K0.805	U	K0.560	0.491	K0.307	2.46	108
Total Monochloro Biphenyls	1.02	0.00	1.24	1.24	0.524				
Total Dichloro Biphenyls	58	50.90	92.6	77.03	<0.565				
Total Trichloro Biphenyls	27	1.53	57.8	3.22	2.49				
Total Tetrachloro Biphenyls	52.5	4.79	87.9	40.01	4.98				
Total Pentachloro Biphenyls	51.1	32.02	127	126.85	3.01				
Total Hexachloro Biphenyls	25.5	11.23	80.1	78.31	1.73				
Total Heptachloro Biphenyls	4.34	2.89	18	18.03	<0.180				
Total Octachloro Biphenyls	0.474	0.47	1.29	1.29	0.114				
Total Nonachloro Biphenyls	<0.582	0.00	1.6	1.60	<0.682				
Decachloro Biphenyl	<0.0212	0.00	<0.0181	0.00	<0.350				
TOTAL PCBs	220	103.84	467	347.58	12.9				

pg/L = picograms / liter
 < = not detected at value listed
 % REC = percent recovery of spike concentration
 K = target compound could not be confirmed
 UB = not detected, detected in associated sample
 U = not detected

Table C-13
Total PCBs Blank Corrected - December 2003

WATER - Surface & Deep	Plante's Ferry (s, g)	Boulder Beach (s, g)	Boulder Beach (d, p)	Boulder Beach (d, p)	Dam Forebay (s, g)	Dam Forebay (s, g)	Dam Forebay (s, p)	Dam Forebay (d, p)	Monroe St (s, g)	Riverside (s, g)
Depth	Surface	Surface	Deep	Deep	Surface	Surface	Surface	Deep	Surface	Surface
Sample ID	AN-01A-031217	AN-02A-031217	AN-02B1-031217	AN-02B2-031217	AN-03A-031217	AN-53A-031217	AN-03AP-031217	AN-03B-031217	AN-13-031217	AN-14-031217
Date	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003
Collection Method	Grab	Grab	Pump/tubing	Pump/tubing	Grab	Grab	Pump	Pump	Grab	Grab
Type	Field	Field	Field	Field	Field	Field Duplicate	Field Duplicate	Field Duplicate	Field	Field
Units	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
Monochlorobiphenyls	0.21	0.00	0.00	13.80	1.78	0.00	0.00	2.37	2.57	0.69
Dichlorobiphenyls	0.00	0.00	1.10	21.03	0.00	0.00	3.05	5.35	1.32	5.96
Trichlorobiphenyls	17.32	6.98	8.99	20.98	8.12	7.30	7.28	11.88	17.19	32.48
Tetrachlorobiphenyls	12.53	13.51	66.17	269.55	20.08	14.10	36.53	14.36	31.09	43.08
Pentachlorobiphenyls	9.08	3.38	7.64	14.27	8.58	10.31	6.26	6.27	41.98	47.14
Hexachlorobiphenyls	5.47	2.81	5.36	14.86	2.69	3.17	2.75	4.77	34.90	19.15
Heptachlorobiphenyls	2.56	0.22	0.60	4.66	0.98	3.38	0.86	0.80	15.30	8.83
Octochlorobiphenyls	0.06	0.05	0.00	0.54	0.27	0.74	0.00	0.00	0.53	1.12
Nonachlorobiphenyls	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Decachlorobiphenyls	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total PCBs	47.23	26.94	89.86	359.68	42.49	39.00	56.72	45.80	144.88	158.44

s= shallow
d = deep
g = grab
p = pumped
pg/L = picograms / liter

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location		Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay
Type		Field	Field	Field	Field	Field	Field	Field	Field	Field	Field	Field
Depth		Surface	Surface	Surface	Surface	Deep	Deep	Deep	Deep	Surface	Surface	Surface
Collection Method		Grab	Grab	Grab	Grab	Pump/tubing	Pump/tubing	Pump/tubing	Pump/tubing	Grab	Grab	Grab
CLIENT ID		AN-01A-031217	AN-01A-031217	AN-02A-031217	AN-02A-031217	AN-02B1-031217	AN-02B1-031217	AN-02B2-031217	AN-02B2-031217	AN-03A-031217	AN-03A-031217	AN-03A-031217
Axys ID		L6436-1	L6436-1	L6436-4	L6436-4	L6436-2	L6436-2	L6436-3	L6436-3	L6436-10	L6436-10	L6436-10
WORKGROUP		WG11035	Blank Corrected*	WG11035	Blank Corrected*	WG11035	Blank Corrected**	WG11035	Blank Corrected**	WG11035	Blank Corrected*	Blank Corrected*
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-1	2 - MoCB	0.675	UB	0.473	UB	K0.796	U	5.75	4.864	K1.22	U	U
PCB-2	3 - MoCB	0.584	0.211	K0.429	U	K0.944	U	K10.6	U	K1.43	U	U
PCB-3	4 - MoCB	K1.23	U	K0.826	U	K1.35	U	10.1	8.94	2.71	1.7765	U
PCB-4	2,2' - DiCB	K2.61	U	1.55	UB	<2.54	U	2.92	2.92	<2.39	U	U
PCB-5	2,3' - DiCB	<1.70	U	<0.830	U	<2.05	U	<1.64	U	<1.96	U	U
PCB-6	2,3' - DiCB	<1.61	U	<0.794	U	<1.94	U	<1.55	U	<1.88	U	U
PCB-7	2,4' - DiCB	K2.18	U	1.52	UB	14.2	1.1	10.9	UB	4.9	UB	UB
PCB-8	2,4' - DiCB	2.67	UB	K1.46	U	K2.28	U	4.29	4.29	K2.30	U	U
PCB-9	2,5' - DiCB	<1.57	U	<0.777	U	<1.89	U	<1.51	U	<1.83	U	U
PCB-10	2,6' - DiCB	<1.67	U	<0.818	U	<2.01	U	<1.60	U	<1.93	U	U
PCB-11	3,3' - DiCB	4.19	UB	3.44	UB	5.25	UB	15.6	10.14	K4.76	U	U
PCB-12/13	3,4' - DiCB	<1.64	U	<0.831	U	<1.97	U	<1.57	U	<1.96	U	U
PCB-14	3,5' - DiCB	<1.63	U	<0.817	U	<1.97	U	<1.57	U	<1.93	U	U
PCB-15	4,4' - DiCB	<1.71	U	<0.861	U	<2.15	U	3.68	3.68	<2.17	U	U
PCB-16	2,2',3 - TriCB	2.03	1.06	1.08	0.11	K1.67	U	2.04	1.234	1.18	0.21	U
PCB-17	2,2',4 - TriCB	2.13	2.13	K1.17	U	2.36	0.96	4.19	2.79	1.63	1.63	U
PCB-18/30	2,2',5 - TriCB	4.94	4.94	2.82	2.82	4.43	2.03	<0.125	U	<0.0831	U	U
PCB-19	2,2',6 - TriCB	1.42	0.753	0.686	0.019	K0.920	U	K1.28	U	K1.02	U	U
PCB-20/28	2,3,3' - TriCB	4.77	3.26	3.29	1.78	4.25	1.605	7.46	4.815	4.46	2.95	U
PCB-21/33	2,3,4 - TriCB	K1.86	U	K1.01	U	1.56	UB	4.43	2.21	1.36	0.55	U
PCB-22	2,3,4' - TriCB	1.47	0.9445	0.778	0.2525	1.23	0.3375	1.85	0.9575	1.11	0.5845	U
PCB-23	2,3,5 - TriCB	K0.067	U	<0.0245	U	<0.378	U	<0.163	U	<0.0923	U	U
PCB-24	2,3,6 - TriCB	<0.0711	U	<0.0789	U	K0.166	U	0.112	0.112	<0.0728	U	U
PCB-25	2,3',4 - TriCB	K0.336	U	0.225	0.225	K0.486	U	0.864	0.864	K0.338	U	U
PCB-26/29	2,3',5 - TriCB	0.988	0.699	0.641	0.352	0.964	0.487	1.5	1.023	0.793	0.504	U
PCB-27	2,3',6 - TriCB	0.404	0.207	0.216	0.019	K0.445	U	K0.568	U	K0.391	U	U
PCB-31	2,4',5 - TriCB	4.08	2.62	2.72	1.26	4.13	1.84	6.18	3.89	3.15	1.69	U
PCB-32	2,4',6 - TriCB	1.24	0.705	<0.0229	U	0.761	0.761	1.52	1.52	K0.890	U	U
PCB-34	2',3,5 - TriCB	<0.0639	U	<0.0239	U	<0.379	U	<0.164	U	<0.0901	U	U
PCB-35	3,3',4 - TriCB	<0.0645	U	0.142	0.142	<0.383	U	K0.282	U	K0.113	U	U
PCB-36	3,3',5 - TriCB	<0.0605	U	<0.0231	U	<0.359	U	<0.155	U	<0.0872	U	U
PCB-37	3,4,4' - TriCB	K0.732	U	0.636	UB	0.972	0.972	1.56	1.56	K0.841	U	U
PCB-38	3,4,5 - TriCB	<0.0623	U	<0.0235	U	<0.370	U	<0.160	U	<0.0886	U	U
PCB-39	3,4',5 - TriCB	<0.0590	U	K0.029	U	<0.350	U	<0.151	U	<0.0844	U	U
PCB-40/41/71	2,2',3,3' - TeCB	1.5	1.5	1.39	1.39	1.85	1.164	2.81	2.124	1.4	1.4	U
PCB-42	2,2',3,4' - TeCB	0.866	0.666	K0.596	U	<0.230	U	K0.349	U	K0.737	U	U
PCB-43	2,2',3,5 - TeCB	<0.126	U	K0.291	U	0.467	0.467	<0.179	U	K0.167	U	U
PCB-44/47/65	2,2',3,5' - TeCB	3.38	3.38	3.19	3.19	76	42.85	223	189.85	6.45	6.45	U
PCB-45/51	2,2',3,6 - TeCB	K0.806	U	0.87	0.87	14.6	UB	42.5	17.9	K1.45	U	U
PCB-46	2,2',3,6' - TeCB	K0.210	U	K0.244	U	<0.259	U	K0.478	U	<0.128	U	U
PCB-48	2,2',4,5 - TeCB	0.707	0.707	<0.0764	U	<0.217	U	<0.156	U	K0.771	U	U
PCB-49/69	2,2',4,5' - TeCB	2.18	1.5	<0.0674	U	<0.191	U	6.05	4.82	2.32	1.64	U
PCB-50/53	2,2',4,6 - TeCB	K1.11	U	0.612	0.612	K0.919	U	1.24	1.24	K0.697	U	U
PCB-52	2,2',5,5' - TeCB	K5.31	U	4.36	2.705	5.36	2.34	7.75	4.73	4.73	3.075	U
PCB-54	2,2',6,6' - TeCB	<0.102	U	<0.0602	U	<0.203	U	K0.235	U	K0.135	U	U

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location		Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay
Type		Field	Field	Field	Field	Field	Field	Field	Field	Field	Field	Field
Depth		Surface	Surface	Surface	Surface	Deep	Deep	Deep	Deep	Surface	Surface	Surface
Collection Method		Grab	Grab	Grab	Grab	Pump/tubing	Pump/tubing	Pump/tubing	Pump/tubing	Grab	Grab	Grab
CLIENT ID		AN-01A-031217	AN-01A-031217	AN-02A-031217	AN-02A-031217	AN-02B1-031217	AN-02B1-031217	AN-02B2-031217	AN-02B2-031217	AN-03A-031217	AN-03A-031217	AN-03A-031217
Axys ID		L6436-1	L6436-1	L6436-4	L6436-4	L6436-2	L6436-2	L6436-3	L6436-3	L6436-10	L6436-10	L6436-10
WORKGROUP		WG11035	Blank Corrected*	WG11035	Blank Corrected*	WG11035	Blank Corrected**	WG11035	Blank Corrected**	WG11035	Blank Corrected*	Blank Corrected*
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-55	2,3,3',4 - TeCB	<0.311	U	<0.310	U	<0.490	U	<0.523	U	<0.336	U	U
PCB-56	2,3,3',4' - TeCB	K1.03	U	0.863	0.405	K1.01	U	1.29	1.29	1.14	0.682	0.682
PCB-57	2,3,3',5 - TeCB	<0.308	U	<0.292	U	<0.484	U	<0.518	U	<0.318	U	U
PCB-58	2,3,3',5' - TeCB	<0.304	U	<0.296	U	<0.478	U	<0.511	U	<0.321	U	U
PCB-59/62/75	2,3,3',6 - TeCB	K0.155	U	K0.167	U	K0.281	U	K0.938	U	<0.0827	U	U
PCB-60	2,3,4,4' - TeCB	0.632	0.632	K0.666	U	<0.495	U	0.806	0.806	0.708	0.708	0.708
PCB-61/70/74/76	2,3,4,5 - TeCB	3.75	1.805	3.84	1.895	4.13	4.13	6.16	6.16	4.7	2.755	2.755
PCB-63	2,3,4',5 - TeCB	<0.287	U	<0.306	U	<0.452	U	<0.483	U	<0.333	U	U
PCB-64	2,3,4',6 - TeCB	1.47	1.47	1.24	1.24	1.36	0.711	<0.117	U	1.55	1.55	1.55
PCB-66	2,3',4,4' - TeCB	1.9	0.87	2.23	1.2	2.67	2.67	4.09	4.09	2.85	1.82	1.82
PCB-67	2,3',4,5 - TeCB	<0.280	U	<0.276	U	<0.440	U	<0.471	U	<0.300	U	U
PCB-68	2,3',4,5' - TeCB	<0.279	U	<0.266	U	23.7	11.835	48.4	36.535	K0.804	U	U
PCB-72	2,3',5,5' - TeCB	<0.293	U	<0.278	U	<0.461	U	<0.493	U	<0.302	U	U
PCB-73	2,3',5',6 - TeCB	<0.0834	U	<0.0578	U	<0.165	U	<0.119	U	<0.0808	U	U
PCB-77	3,3',4,4' - TeCB	0.302	UB	0.368	UB	<0.458	U	<0.563	U	K0.616	U	U
PCB-78	3,3',4,5 - TeCB	<0.315	U	<0.312	U	<0.495	U	<0.530	U	<0.339	U	U
PCB-79	3,3',4,5' - TeCB	<0.273	U	<0.259	U	<0.429	U	<0.459	U	<0.282	U	U
PCB-80	3,3',5,5' - TeCB	<0.293	U	<0.287	U	<0.461	U	<0.493	U	<0.312	U	U
PCB-81	3,4,4',5 - TeCB	<0.300	U	<0.296	U	<0.459	U	<0.493	U	<0.333	U	U
PCB-82	2,2',3,3',4 - PeCB	<0.0682	U	0.134	0.134	<0.171	U	K0.438	U	0.363	0.363	0.363
PCB-83/99	2,2',3,3',5 - PeCB	1.16	UB	K1.15	U	1.38	0.831	K1.95	U	K1.68	U	U
PCB-84	2,2',3,3',6 - PeCB	0.871	0.452	K0.583	U	0.738	0.738	1.05	1.05	K0.756	U	U
PCB-85/116/117	2,2',3,4,4' - PeCB	K0.568	U	0.577	0.057	K0.827	U	0.82	0.82	0.614	0.094	0.094
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	1.8	1.8	K1.89	U	K1.80	U	2.58	1.949	2.03	2.03	2.03
PCB-88/91	2,2',3,4,6 - PeCB	0.55	0.446	0.355	0.251	K0.421	U	K0.656	U	K0.504	U	U
PCB-89	2,2',3,4,6' - PeCB	K0.073	U	<0.0642	U	K0.289	U	<0.145	U	K0.059	U	U
PCB-90/101/113	2,2',3,4,5 - PeCB	2.73	0.7555	2.43	0.4555	K2.34	U	4.47	3.557	3.16	1.1855	1.1855
PCB-92	2,2',3,5,5' - PeCB	0.48	UB	K0.535	U	K0.499	U	K0.800	U	K0.710	U	U
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	2.4	2.4	1.88	1.88	1.84	1.84	3.38	3.38	2.35	2.35	2.35
PCB-94	2,2',3,5,6' - PeCB	<0.0631	U	<0.0619	U	<0.158	U	<0.142	U	K0.030	U	U
PCB-96	2,2',3,6,6' - PeCB	K0.041	U	K0.053	U	<0.0626	U	K0.065	U	K0.084	U	U
PCB-103	2,2',4,5,6 - PeCB	<0.0537	U	<0.0535	U	<0.135	U	<0.121	U	K0.045	U	U
PCB-104	2,2',4,6,6' - PeCB	K0.035	U	K0.114	U	K0.079	U	K0.112	U	K0.152	U	U
PCB-105	2,3,3',4,4' - PeCB	1.07	0.591	1.08	0.601	1.15	0.31	K1.89	U	K1.49	U	U
PCB-106	2,3,3',4,5 - PeCB	<0.0579	U	<0.0077	U	<0.177	U	K0.054	U	K0.123	U	U
PCB-107/124	2,3,3',4,5 - PeCB	K0.146	U	K0.114	U	<0.187	U	K0.199	U	<0.0139	U	U
PCB-109	2,3,3',4,6 - PeCB	K0.246	U	<0.0070	U	<0.173	U	K0.216	U	0.201	0.201	0.201
PCB-110/115	2,3,3',4,6 - PeCB	3.04	2.634	K2.14	U	2.34	1.313	K4.15	U	2.76	2.354	2.354
PCB-111	2,3,3',5,5' - PeCB	<0.0453	U	<0.0451	U	<0.114	U	<0.102	U	<0.0106	U	U
PCB-112	2,3,3',5,6 - PeCB	<0.0484	U	K0.069	U	<0.122	U	<0.109	U	K0.021	U	U
PCB-114	2,3,4,4',5 - PeCB	K0.243	U	K0.136	U	K0.197	U	K0.379	U	K0.263	U	U
PCB-118	2,3',4,4',5 - PeCB	2.11	UB	K2.10	U	2.61	2.61	3.51	3.51	2.43	UB	UB
PCB-120	2,3',4,5,5' - PeCB	<0.0438	U	<0.0434	U	K0.238	U	<0.0987	U	<0.0102	U	U
PCB-121	2,3',4,5',6 - PeCB	<0.0459	U	<0.0451	U	<0.115	U	<0.103	U	<0.0106	U	U
PCB-122	2',3,3',4,5 - PeCB	<0.0669	U	K0.056	U	<0.205	U	K0.143	U	K0.073	U	U

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location		Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay
Type		Field	Field	Field	Field	Field	Field	Field	Field	Field	Field	Field
Depth		Surface	Surface	Surface	Surface	Deep	Deep	Deep	Deep	Surface	Surface	Surface
Collection Method		Grab	Grab	Grab	Grab	Pump/tubing	Pump/tubing	Pump/tubing	Pump/tubing	Grab	Grab	Grab
CLIENT ID		AN-01A-031217	AN-01A-031217	AN-02A-031217	AN-02A-031217	AN-02B1-031217	AN-02B1-031217	AN-02B2-031217	AN-02B2-031217	AN-03A-031217	AN-03A-031217	AN-03A-031217
Axys ID		L6436-1	L6436-1	L6436-4	L6436-4	L6436-2	L6436-2	L6436-3	L6436-3	L6436-10	L6436-10	L6436-10
WORKGROUP		WG11035	Blank Corrected*	WG11035	Blank Corrected*	WG11035	Blank Corrected**	WG11035	Blank Corrected**	WG11035	Blank Corrected*	Blank Corrected*
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-123	2',3,4,4',5' - PeCB	K0.141	U	K0.074	U	<0.178	U	K0.166	U	K0.120	U	U
PCB-126	3,3',4,4',5' - PeCB	K0.106	U	K0.187	U	<0.204	U	<0.0102	U	K0.088	U	U
PCB-127	3,3',4,5,5' - PeCB	<0.0583	U	<0.0078	U	<0.178	U	K0.028	U	<0.0136	U	U
PCB-128/166	2,2',3,3',4,4' - HxCB	0.354	0.299	0.343	0.288	K0.373	U	K0.635	U	K0.369	U	U
PCB-129/138/160/163	2,2',3,3',4,5' - HxCB	2.25	UB	2.4	UB	2.22	1.711	4.33	3.821	2.67	0.13	
PCB-130	2,2',3,3',4,5' - HxCB	<0.124	U	K0.332	U	K0.253	U	K0.245	U	K0.183	U	U
PCB-131	2,2',3,3',4,6' - HxCB	<0.118	U	K0.108	U	<0.0105	U	<0.0155	U	K0.070	U	U
PCB-132	2,2',3,3',4,6' - HxCB	0.764	0.764	0.601	0.601	K0.492	U	K1.15	U	K0.634	U	U
PCB-133	2,2',3,3',5,5' - HxCB	<0.116	U	K0.056	U	K0.042	U	K0.074	U	<0.0152	U	U
PCB-134/143	2,2',3,3',5,6' - HxCB	<0.121	U	K0.067	U	<0.0109	U	K0.063	U	<0.0159	U	U
PCB-135/151/154	2,2',3,3',5,6' - HxCB	1.14	0.7685	K0.798	U	K0.899	U	1.44	1.44	0.832	0.4605	
PCB-136	2,2',3,3',6,6' - HxCB	0.338	0.338	K0.192	U	K0.232	U	0.425	0.425	K0.272	U	U
PCB-137	2,2',3,4,4',5' - HxCB	<0.111	U	K0.102	U	0.143	0.143	K0.129	U	K0.140	U	U
PCB-139/140	2,2',3,4,4',6' - HxCB	<0.111	U	K0.131	U	K0.032	U	K0.094	U	K0.064	U	U
PCB-141	2,2',3,4,5,5' - HxCB	0.415	0.415	0.366	0.366	K0.461	U	K1.03	U	0.181	0.181	
PCB-142	2,2',3,4,5,6' - HxCB	<0.123	U	<0.0119	U	K0.013	U	0.021	0.021	<0.0163	U	U
PCB-144	2,2',3,4,5',6' - HxCB	K0.120	U	K0.117	U	K0.113	U	K0.107	U	K0.064	U	U
PCB-145	2,2',3,4,6,6' - HxCB	<0.0088	U	<0.0077	U	<0.0110	U	<0.0122	U	<0.0105	U	U
PCB-146	2,2',3,4',5,5' - HxCB	0.365	0.365	K0.309	U	K0.279	U	0.868	0.74	K0.605	U	U
PCB-147/149	2,2',3,4',5,6' - HxCB	2.05	2.05	1.55	1.55	1.7	1.7	3.28	3.28	1.83	1.83	
PCB-148	2,2',3,4',5,6' - HxCB	K0.030	U	<0.0102	U	0.016	0.016	K0.038	U	K0.059	U	U
PCB-150	2,2',3,4',6,6' - HxCB	<0.0082	U	<0.0073	U	<0.0103	U	K0.026	U	<0.0099	U	U
PCB-152	2,2',3,5,6,6' - HxCB	<0.0082	U	<0.0072	U	<0.0103	U	<0.0114	U	<0.0098	U	U
PCB-153/168	2,2',4,4',5,5' - HxCB	2.11	UB	1.86	UB	2.19	1.194	4.61	3.614	2.65	0.06	
PCB-155	2,2',4,4',6,6' - HxCB	K0.089	U	K0.075	U	K0.141	U	K0.115	U	K0.236	U	U
PCB-156/157	2,3,3',4,4',5' - HxCB	0.468	0.468	K0.633	U	0.599	0.599	1.05	1.05	K0.771	U	U
PCB-158	2,3,3',4,4',6' - HxCB	K0.173	U	K0.209	U	K0.195	U	K0.399	U	K0.262	U	U
PCB-159	2,3,3',4,5,5' - HxCB	<0.0870	U	<0.0083	U	K0.034	U	<0.0115	U	K0.033	U	U
PCB-161	2,3,3',4,5',6' - HxCB	<0.0830	U	K0.030	U	<0.0074	U	<0.0109	U	K0.028	U	U
PCB-162	2,3,3',4',5,5' - HxCB	<0.0861	U	K0.013	U	K0.083	U	K0.022	U	K0.019	U	U
PCB-164	2,3,3',4',5,6' - HxCB	<0.0881	U	K0.221	U	K0.099	U	K0.294	U	0.199	0.024	
PCB-165	2,3,3',5,5',6' - HxCB	<0.0912	U	K0.028	U	<0.0082	U	<0.0120	U	K0.064	U	U
PCB-167	2,3',4,4',5,5' - HxCB	K0.135	U	K0.285	U	<0.0073	U	0.464	0.464	K0.286	U	U
PCB-169	3,3',4,4',5,5' - HxCB	<0.0871	U	<0.0750	U	<0.0780	U	<0.215	U	<0.131	U	U
PCB-170	2,2',3,3',4,4',5' - HpCB	K0.657	U	K0.414	U	0.476	0.124	K1.21	U	K0.473	U	U
PCB-171/173	2,2',3,3',4,4',6' - HpCB	K0.179	U	K0.156	U	K0.217	U	<0.0179	U	0.223	0.223	
PCB-172	2,2',3,3',4,5,5' - HpCB	K0.127	U	K0.038	U	K0.114	U	K0.170	U	K0.117	U	U
PCB-174	2,2',3,3',4,5,6' - HpCB	K0.640	U	K0.405	U	<0.0147	U	1.08	0.815	K0.626	U	U
PCB-175	2,2',3,3',4,5',6' - HpCB	K0.031	U	<0.0120	U	K0.109	U	K0.017	U	K0.017	U	U
PCB-176	2,2',3,3',4,6,6' - HpCB	K0.098	U	K0.062	U	K0.112	U	K0.063	U	<0.0105	U	U
PCB-177	2,2',3,3',4',5,6' - HpCB	K0.437	U	K0.282	U	0.474	0.474	0.604	0.604	K0.490	U	U
PCB-178	2,2',3,3',5,5',6' - HpCB	0.142	0.142	K0.190	U	K0.052	U	0.395	0.395	K0.137	U	U
PCB-179	2,2',3,3',5,6,6' - HpCB	0.384	0.384	<0.0089	U	<0.0106	U	0.425	0.425	K0.257	U	U
PCB-180/193	2,2',3,4,4',5,5' - HpCB	1.39	1.026	K1.06	U	K1.23	U	K2.32	U	1.11	0.746	
PCB-181	2,2',3,4,4',5,6' - HpCB	<0.0093	U	K0.070	U	K26.2	U	K0.245	U	<0.0141	U	U

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location	PCB ID	Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay	
Type		Field	Field	Field	Field	Field	Field	Field	Field	Field	Field	
Depth		Surface	Surface	Surface	Surface	Deep	Deep	Deep	Deep	Surface	Surface	
Collection Method		Grab	Grab	Grab	Grab	Pump/tubing	Pump/tubing	Pump/tubing	Pump/tubing	Grab	Grab	
CLIENT ID		AN-01A-031217	AN-01A-031217	AN-02A-031217	AN-02A-031217	AN-02B1-031217	AN-02B1-031217	AN-02B2-031217	AN-02B2-031217	AN-03A-031217	AN-03A-031217	
Axys ID		L6436-1	L6436-1	L6436-4	L6436-4	L6436-2	L6436-2	L6436-3	L6436-3	L6436-10	L6436-10	
WORKGROUP		WG11035	Blank Corrected*	WG11035	Blank Corrected*	WG11035	Blank Corrected**	WG11035	Blank Corrected**	WG11035	Blank Corrected*	
UNITS		pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	
PCB-182		2,2',3,4,4',5,6' - HpCB	K0.098	U	K0.095	U	K0.073	U	<0.0165	U	K0.067	U
PCB-183/185		2,2',3,4,4',5',6 - HpCB	K0.431	U	K0.241	U	K0.434	U	0.918	0.918	K0.449	U
PCB-184	2,2',3,4,4',6,6' - HpCB	K0.033	U	K0.061	U	K0.061	U	K0.047	U	K0.013	U	
PCB-186	2,2',3,4,5,6,6' - HpCB	<0.0071	U	<0.0093	U	K0.027	U	<0.0124	U	0.015	0.015	
PCB-187	2,2',3,4',5,5',6 - HpCB	1.01	1.01	K0.685	U	K0.863	U	1.5	1.5	K1.10	U	
PCB-188	2,2',3,4',5,6,6' - HpCB	<0.0070	U	K0.042	U	K0.080	U	K0.096	U	K0.059	U	
PCB-189	2,3,3',4,4',5,5' - HpCB	K0.103	U	K0.175	U	K0.100	U	K0.201	U	K0.174	U	
PCB-190	2,3,3',4,4',5,6 - HpCB	K0.055	U	0.216	0.216	K0.136	U	K0.276	U	K0.108	U	
PCB-191	2,3,3',4,4',5',6 - HpCB	K0.068	U	K0.041	U	K0.048	U	K0.041	U	K0.022	U	
PCB-192	2,3,3',4,5,5',6 - HpCB	<0.0081	U	<0.0108	U	<0.0126	U	<0.0142	U	<0.0123	U	
PCB-194	2,2',3,3',4,4',5,5' - OcCB	K0.360	U	K0.258	U	K0.224	U	K0.328	U	K0.163	U	
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K0.133	U	K0.157	U	K0.043	U	K0.172	U	K0.018	U	
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K0.144	U	0.052	0.052	K0.204	U	K0.207	U	<0.0205	U	
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K0.033	U	K0.022	U	<0.0138	U	<0.0138	U	K0.038	U	
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	K0.320	U	K0.340	U	K0.207	U	0.508	0.364	0.268	0.268	
PCB-201	2,2',3,3',4,5',6,6' - OcCB	0.064	0.064	K0.032	U	K0.090	U	K0.095	U	K0.081	U	
PCB-202	2,2',3,3',5,5',6,6' - OcCB	K0.225	U	K0.069	U	K0.108	U	0.179	0.179	K0.266	U	
PCB-203	2,2',3,4,4',5,5',6 - OcCB	K0.161	U	K0.163	U	<0.0177	U	K0.279	U	<0.0189	U	
PCB-204	2,2',3,4,4',5,6,6' - OcCB	<0.0086	U	<0.0125	U	<0.0140	U	K0.071	U	K0.040	U	
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K0.054	U	K0.086	U	K0.061	U	K0.082	U	0.159	UB	
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	<0.723	U	<0.836	U	<0.923	U	<1.11	U	<0.863	U	
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<0.579	U	<0.650	U	<0.720	U	<0.852	U	<0.669	U	
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<0.625	U	<0.702	U	<0.758	U	<0.889	U	<0.721	U	
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	K0.514	U	K0.497	U	0.276	UB	K0.592	U	K0.488	U	
Total Monochloro Biphenyls		1.26	0.21	0.473	0.00	<0.277	0.00	15.9	13.80	2.71	1.78	
Total Dichloro Biphenyls		6.86	0.00	6.5	0.00	19.5	1.10	37.3	21.03	4.9	0.00	
Total Trichloro Biphenyls		23.5	17.32	13.2	6.98	20.7	8.99	31.7	20.98	13.7	8.12	
Total Tetrachloro Biphenyls		16.7	12.53	19	13.51	130	66.17	344	269.55	25.8	20.08	
Total Pentachloro Biphenyls		16.2	9.08	6.46	3.38	10.1	7.64	15.8	14.27	13.9	8.58	
Total Hexachloro Biphenyls		10.2	5.47	7.12	2.81	6.88	5.36	16.5	14.86	8.36	2.69	
Total Heptachloro Biphenyls		2.92	2.56	0.216	0.22	0.95	0.60	4.92	4.66	1.35	0.98	
Total Octachloro Biphenyls		0.064	0.06	0.052	0.05	<0.0190	0.00	0.687	0.54	0.427	0.27	
Total Nonachloro Biphenyls		<0.723	0.00	<0.836	0.00	<0.923	0.00	<1.11	0.00	<0.863	0.00	
Decachloro Biphenyl		<0.0111	0.00	<0.0128	0.00	0.276	0.00	<0.0164	0.00	<0.0158	0.00	
TOTAL PCBs		77.7	47.23	53	26.94	188	89.86	467	359.68	71.2	42.49	

* Corrected for the average of the trip blank and the associated method blank

** Corrected for the average of the equipment blank and the tubing proof

U = not detected

UB = detected result was less than the associated blank

< = less than detection limit

K = not detected due to mass spectral match

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location		Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay					
Type		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate					
Depth		Surface	Surface	Surface	Surface	Deep	Deep					
Collection Method		Grab	Grab	Pump	Pump	Pump	Pump					
CLIENT ID		AN-53A-031217	AN-53A-031217	AN-03AP-031217	AN-03AP-031217	AN-03B-031217	AN-03B-031217	Tubing Proof	AN-03EB-031217		AN-03TB-031217	LAB BLANK
Axys ID		L6436-12	L6436-12	L6436-11	L6436-11	L6436-9	L6436-9	L6395-2	L6436-14	Average of	L6436-13	WG11035-101
WORKGROUP		WG11030	Blank Corrected*	WG11035	Blank Corrected**	WG11035	Blank Corrected**	WG11030	WG11030	-2 and -14	WG11030	WG11035
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L		pg/L	pg/L
PCB-1	2 - MoCB	0.505	UB	0.55	UB	3.26	2.374	1.03	0.742	0.886	1.31	K0.372
PCB-2	3 - MoCB	K0.460	U	K0.577	U	K2.69	U	K0.708	0.531	0.531	K0.575	0.373
PCB-3	4 - MoCB	K0.973	U	K1.44	U	K4.02	U	K1.60	1.16	1.16	1.2	0.667
PCB-4	2,2' - DiCB	K2.16	U	K2.13	U	2.72	2.72	<3.14	<2.05	0	3.21	<2.33
PCB-5	2,3 - DiCB	<1.19	U	<1.71	U	<1.42	U	<2.37	<1.51	0	<1.03	<1.71
PCB-6	2,3' - DiCB	<1.12	U	<1.64	U	<1.36	U	<2.23	<1.42	0	K1.79	<1.61
PCB-7	2,4 - DiCB	<1.10	U	12.7	UB	5.61	UB	<2.20	13.1	13.1	8.52	<1.59
PCB-8	2,4' - DiCB	<1.07	U	2.49	2.49	2.63	2.63	K2.46	K2.92	0	5.08	<1.55
PCB-9	2,5 - DiCB	<1.08	U	<1.60	U	<1.33	U	<2.16	<1.37	0	<0.943	<1.57
PCB-10	2,6 - DiCB	<1.18	U	<1.69	U	<1.40	U	<2.36	<1.50	0	<1.03	<1.67
PCB-11	3,3' - DiCB	5.16	UB	6.02	0.56	K8.11	U	K9.01	5.46	5.46	5.51	K2.38
PCB-12/13	3,4 - DiCB	<1.12	U	<1.72	U	<1.43	U	<2.23	<1.42	0	<0.972	<1.64
PCB-14	3,5 - DiCB	<1.14	U	<1.69	U	<1.40	U	<2.28	<1.45	0	<0.993	<1.64
PCB-15	4,4' - DiCB	<1.12	U	<1.91	U	K1.91	U	<2.27	<1.42	0	<1.03	<1.68
PCB-16	2,2',3 - TriCB	K1.07	U	K1.96	U	1.93	1.124	0.807	0.805	0.806	1.19	0.75
PCB-17	2,2',4 - TriCB	1.39	1.39	2.41	1.01	2.13	0.73	1.4	K1.47	1.4	K1.37	K0.711
PCB-18/30	2,2',5 - TriCB	<0.106	U	4.98	2.58	<0.0510	U	K1.64	2.4	2.4	<0.0756	K1.42
PCB-19	2,2',6 - TriCB	K0.809	U	K1.07	U	1.27	1.27	K0.418	K0.358	0	0.667	K0.271
PCB-20/28	2,3,3' - TriCB	4.14	2.63	4.43	1.785	5.61	2.965	2.56	2.73	2.645	1.8	1.22
PCB-21/33	2,3,4 - TriCB	1.42	0.61	2	UB	2.15	UB	K1.28	2.22	2.22	0.99	0.63
PCB-22	2,3,4' - TriCB	K1.15	U	1.22	0.3275	1.7	0.8075	0.913	0.872	0.8925	0.532	0.519
PCB-23	2,3,5 - TriCB	<0.0910	U	K0.111	U	0.117	0.117	<0.116	<0.151	0	<0.0790	<0.141
PCB-24	2,3,6 - TriCB	<0.0984	U	<0.0988	U	<0.0447	U	<0.115	<0.0883	0	<0.0705	<0.0797
PCB-25	2,3',4 - TriCB	0.314	0.314	K0.524	U	0.45	0.45	K0.326	K0.387	0	<0.0693	K0.130
PCB-26/29	2,3',5 - TriCB	K0.722	U	1.07	0.593	1.17	0.693	0.501	0.453	0.477	K0.338	0.289
PCB-27	2,3',6 - TriCB	K0.307	U	K0.503	U	K0.412	U	0.173	K0.145	0.173	0.197	K0.091
PCB-31	2,4',5 - TriCB	3.4	1.94	K3.85	U	4.85	2.56	2.1	2.48	2.29	1.46	K1.09
PCB-32	2,4',6 - TriCB	0.938	0.403	K1.25	U	K1.07	U	K0.547	K0.695	0	0.666	0.404
PCB-34	2',3,5 - TriCB	K0.098	U	K0.062	U	K0.113	U	<0.115	<0.149	0	<0.0782	<0.141
PCB-35	3,3',4 - TriCB	K0.208	U	K0.090	U	K0.111	U	<0.118	<0.154	0	K0.197	<0.143
PCB-36	3,3',5 - TriCB	<0.0873	U	<0.0497	U	<0.0668	U	<0.111	<0.145	0	<0.0757	<0.134
PCB-37	3,4,4' - TriCB	1.03	0.01	0.987	0.987	1.16	1.16	K0.478	K0.607	0	1.02	K0.362
PCB-38	3,4,5 - TriCB	<0.0906	U	K0.053	U	K0.068	U	<0.115	<0.150	0	<0.0785	<0.138
PCB-39	3,4',5 - TriCB	<0.0844	U	<0.0481	U	<0.0646	U	<0.107	<0.140	0	<0.0732	<0.130
PCB-40/41/71	2,2',3,3' - TeCB	1.68	1.68	1.17	0.484	1.77	1.084	K0.716	0.686	0.686	K0.139	K0.379
PCB-42	2,2',3,4' - TeCB	K0.127	U	0.906	0.392	1.05	0.536	K0.415	0.514	0.514	0.2	K0.174
PCB-43	2,2',3,5 - TeCB	<0.0987	U	<0.181	U	<0.126	U	<0.226	<0.208	0	<0.111	<0.167
PCB-44/47/65	2,2',3,5' - TeCB	4.21	4.21	51.9	18.75	22.3	UB	11.2	55.1	33.15	K1.65	K1.30
PCB-45/51	2,2',3,6 - TeCB	K0.882	U	11.4	UB	5.05	UB	K6.00	24.6	24.6	<0.0931	<0.145
PCB-46	2,2',3,6' - TeCB	K0.364	U	K0.238	U	0.247	0.247	<0.225	<0.207	0	<0.110	<0.173
PCB-48	2,2',4,5 - TeCB	<0.0821	U	<0.154	U	0.84	0.84	<0.188	<0.173	0	<0.0920	<0.146
PCB-49/69	2,2',4,5' - TeCB	2.4	1.72	2.59	1.36	2.5	1.27	1.23	<0.153	1.23	0.68	K0.486
PCB-50/53	2,2',4,6 - TeCB	K0.723	U	0.883	0.883	0.933	0.933	K0.249	K0.569	0	K0.404	K0.177
PCB-52	2,2',5,5' - TeCB	5.27	3.615	K4.81	U	5.16	2.14	3.02	K2.65	3.02	2.1	1.21
PCB-54	2,2',6,6' - TeCB	K0.086	U	<0.142	U	K0.228	U	0.158	<0.141	0.158	<0.0683	<0.127

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location		Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay					
Type		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate					
Depth		Surface	Surface	Surface	Surface	Deep	Deep					
Collection Method		Grab	Grab	Pump	Pump	Pump	Pump					
CLIENT ID		AN-53A-031217	AN-53A-031217	AN-03AP-031217	AN-03AP-031217	AN-03B-031217	AN-03B-031217	Tubing Proof	AN-03EB-031217		AN-03TB-031217	LAB BLANK
Axys ID		L6436-12	L6436-12	L6436-11	L6436-11	L6436-9	L6436-9	L6395-2	L6436-14	Average of	L6436-13	WG11035-101
WORKGROUP		WG11030	Blank Corrected*	WG11035	Blank Corrected**	WG11035	Blank Corrected**	WG11030	WG11030	-2 and -14	WG11030	WG11035
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L		pg/L	pg/L
PCB-55	2,3,3',4 - TeCB	<0.259	U	<0.483	U	<0.231	U	<0.638	<0.321	0	<0.231	<0.310
PCB-56	2,3,3',4' - TeCB	1.26	0.802	K0.883	U	1.58	1.58	<0.640	<0.322	0	0.458	<0.319
PCB-57	2,3,3',5 - TeCB	<0.255	U	<0.457	U	<0.218	U	<0.626	<0.315	0	<0.227	<0.307
PCB-58	2,3,3',5' - TeCB	<0.255	U	<0.462	U	<0.221	U	<0.627	<0.316	0	<0.227	<0.303
PCB-59/62/75	2,3,3',6 - TeCB	K0.263	U	K0.197	U	K0.300	U	<0.145	<0.134	0	<0.0712	<0.112
PCB-60	2,3,4,4' - TeCB	K0.689	U	0.598	0.598	K0.668	U	<0.635	<0.320	0	K0.400	<0.313
PCB-61/70/74/76	2,3,4,5 - TeCB	K5.32	U	4.94	4.94	4.87	4.87	K2.57	K1.83	0	2.8	1.09
PCB-63	2,3,4',5 - TeCB	<0.243	U	<0.478	U	<0.229	U	<0.597	<0.301	0	<0.216	<0.286
PCB-64	2,3,4',6 - TeCB	K1.59	U	1.35	0.701	1.51	0.861	<0.142	0.649	0.649	K0.466	<0.109
PCB-66	2,3',4,4' - TeCB	3.1	2.07	2.59	2.59	K2.72	U	K1.30	K1.20	0	1.03	K0.565
PCB-67	2,3',4,5 - TeCB	<0.232	U	<0.431	U	<0.206	U	<0.572	<0.288	0	<0.207	<0.279
PCB-68	2,3',4,5' - TeCB	<0.238	U	17.7	5.835	4.11	UB	2.63	21.1	11.865	<0.213	<0.278
PCB-72	2,3',5,5' - TeCB	<0.245	U	<0.433	U	<0.207	U	<0.602	<0.303	0	<0.218	<0.292
PCB-73	2,3',5',6 - TeCB	<0.0627	U	<0.116	U	<0.0809	U	<0.143	<0.132	0	<0.0702	<0.111
PCB-77	3,3',4,4' - TeCB	K0.538	U	<0.426	U	K0.394	U	<0.618	<0.306	0	3.22	K0.509
PCB-78	3,3',4,5 - TeCB	<0.265	U	<0.488	U	<0.233	U	<0.651	<0.328	0	<0.236	<0.314
PCB-79	3,3',4,5' - TeCB	<0.228	U	<0.405	U	<0.194	U	<0.560	<0.282	0	<0.203	<0.272
PCB-80	3,3',5,5' - TeCB	<0.239	U	<0.448	U	<0.214	U	<0.588	<0.296	0	<0.213	<0.292
PCB-81	3,4,4',5 - TeCB	<0.243	U	<0.444	U	<0.214	U	<0.602	<0.302	0	<0.228	<0.303
PCB-82	2,2',3,3',4 - PeCB	0.404	0.404	0.211	0.211	K0.357	U	<0.137	<0.114	0	K0.338	<0.0782
PCB-83/99	2,2',3,3',5 - PeCB	1.53	0.16	1.18	0.631	1.59	1.041	0.549	K0.638	0.549	1.37	K0.362
PCB-84	2,2',3,3',6 - PeCB	K0.763	U	K0.803	U	K0.811	U	<0.136	<0.113	0	0.419	K0.105
PCB-85/116/117	2,2',3,4,4' - PeCB	0.571	0.051	K0.543	U	0.509	0.509	K0.204	K0.285	0	0.52	<0.0589
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	2.67	2.67	K1.61	U	1.76	1.129	0.649	0.613	0.631	K2.12	K0.584
PCB-88/91	2,2',3,4,6 - PeCB	0.45	0.346	K0.412	U	K0.424	U	<0.118	0.145	0.145	K0.302	0.104
PCB-89	2,2',3,4,6' - PeCB	<0.122	U	<0.0750	U	<0.0573	U	<0.125	<0.104	0	<0.0826	<0.0740
PCB-90/101/113	2,2',3,4',5 - PeCB	2.88	0.9055	K2.47	U	K2.65	U	K1.06	0.913	0.913	3.39	0.559
PCB-92	2,2',3,5,5' - PeCB	K0.423	U	K0.570	U	K0.373	U	K0.258	<0.101	0	0.48	<0.0709
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	2.28	2.28	1.91	1.91	K2.37	U	K1.01	K0.819	0	K0.887	<0.0667
PCB-94	2,2',3,5,6' - PeCB	<0.123	U	<0.0723	U	K0.062	U	<0.126	<0.105	0	<0.0829	<0.0723
PCB-96	2,2',3,6,6' - PeCB	K0.026	U	K0.059	U	K0.040	U	K0.050	K0.019	0	K0.018	K0.061
PCB-103	2,2',4,5',6 - PeCB	<0.104	U	<0.0625	U	<0.0478	U	<0.106	<0.0883	0	<0.0700	<0.0616
PCB-104	2,2',4,6,6' - PeCB	K0.062	U	K0.035	U	K0.173	U	K0.136	K0.080	0	K0.033	K0.110
PCB-105	2,3,3',4,4' - PeCB	1.02	0.541	K1.08	U	0.977	0.137	0.84	K0.426	0.84	K1.12	0.479
PCB-106	2,3,3',4,5 - PeCB	<0.0757	U	<0.0727	U	<0.0092	U	<0.0878	<0.0968	0	<0.0620	<0.0839
PCB-107/124	2,3,3',4',5 - PeCB	K0.238	U	K0.142	U	K0.128	U	K0.254	<0.106	0	K0.223	K0.089
PCB-109	2,3,3',4,6 - PeCB	K0.264	U	0.153	0.153	K0.204	U	K0.230	<0.0996	0	K0.343	<0.0817
PCB-110/115	2,3,3',4',6 - PeCB	3.36	2.954	2.23	1.203	2.51	1.483	1.25	0.804	1.027	K2.98	0.406
PCB-111	2,3,3',5,5' - PeCB	<0.0869	U	<0.0527	U	<0.0403	U	<0.0893	<0.0742	0	<0.0589	<0.0519
PCB-112	2,3,3',5,6 - PeCB	<0.0919	U	<0.0514	U	<0.0393	U	K0.214	<0.0784	0	<0.0622	<0.0555
PCB-114	2,3,4,4',5 - PeCB	<0.0827	U	K0.239	U	K0.162	U	K0.392	<0.104	0	<0.0676	K0.189
PCB-118	2,3',4,4',5 - PeCB	K2.99	U	2.15	2.15	1.97	1.97	K1.66	K1.07	0	3.06	K1.05
PCB-120	2,3',4,5,5' - PeCB	<0.0862	U	<0.0507	U	<0.0387	U	<0.0886	<0.0736	0	<0.0584	<0.0503
PCB-121	2,3',4,5',6 - PeCB	<0.0864	U	<0.0527	U	<0.0403	U	<0.0887	<0.0737	0	<0.0585	<0.0526
PCB-122	2',3,3',4,5 - PeCB	<0.0855	U	K0.159	U	<0.0100	U	<0.0991	<0.109	0	<0.0700	<0.0969

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location		Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay					
Type		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate					
Depth		Surface	Surface	Surface	Surface	Deep	Deep					
Collection Method		Grab	Grab	Pump	Pump	Pump	Pump					
CLIENT ID		AN-53A-031217	AN-53A-031217	AN-03AP-031217	AN-03AP-031217	AN-03B-031217	AN-03B-031217	Tubing Proof	AN-03EB-031217		AN-03TB-031217	LAB BLANK
Axys ID		L6436-12	L6436-12	L6436-11	L6436-11	L6436-9	L6436-9	L6395-2	L6436-14	Average of	L6436-13	WG11035-101
WORKGROUP		WG11030	Blank Corrected*	WG11035	Blank Corrected**	WG11035	Blank Corrected**	WG11030	WG11030	-2 and -14	WG11030	WG11035
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L		pg/L	pg/L
PCB-123	2',3,4,4',5 - PeCB	K0.144	U	K0.089	U	K0.099	U	K0.120	<0.111	0	<0.0722	K0.208
PCB-126	3,3',4,4',5 - PeCB	<0.0916	U	<0.0807	U	<0.0093	U	K0.519	K0.121	0	K0.488	K0.303
PCB-127	3,3',4,5,5' - PeCB	<0.0792	U	<0.0732	U	K0.019	U	<0.0918	<0.101	0	K0.094	<0.0843
PCB-128/166	2,2',3,3',4,4' - HxCB	K0.310	U	K0.394	U	0.455	0.455	K0.134	K0.122	0	K0.319	0.055
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	2.73	0.19	K2.48	U	2.14	1.631	K1.14	0.509	0.509	2.54	K0.361
PCB-130	2,2',3,3',4,5' - HxCB	K0.125	U	0.069	0.069	K0.105	U	<0.0812	K0.066	0	K0.195	K0.078
PCB-131	2,2',3,3',4,6 - HxCB	<0.104	U	<0.0121	U	<0.0725	U	<0.0789	0.028	0.028	K0.084	<0.0102
PCB-132	2,2',3,3',4,6' - HxCB	0.877	0.877	<0.0125	U	K0.587	U	K0.360	K0.288	0	K0.622	K0.064
PCB-133	2,2',3,3',5,5' - HxCB	<0.0997	U	K0.027	U	<0.0717	U	<0.0756	K0.043	0	<0.0079	K0.027
PCB-134/143	2,2',3,3',5,6 - HxCB	<0.104	U	<0.0124	U	<0.0747	U	<0.0787	K0.031	0	<0.0082	K0.020
PCB-135/151/154	2,2',3,3',5,6' - HxCB	K0.841	U	0.728	0.728	0.987	0.987	K0.033	K0.274	0	0.538	0.205
PCB-136	2,2',3,3',6,6' - HxCB	<0.0087	U	K0.257	U	K0.215	U	<0.0126	<0.0086	0	<0.0085	<0.0077
PCB-137	2,2',3,4,4',5 - HxCB	<0.101	U	K0.299	U	<0.0677	U	<0.0762	K0.118	0	K0.257	K0.057
PCB-139/140	2,2',3,4,4',6 - HxCB	<0.0945	U	K0.103	U	<0.0674	U	K0.131	K0.071	0	K0.051	K0.069
PCB-141	2,2',3,4,5,5' - HxCB	0.394	0.394	K0.455	U	0.416	0.416	K0.119	K0.119	0	K0.544	K0.120
PCB-142	2,2',3,4,5,6 - HxCB	<0.105	U	K0.052	U	<0.0768	U	K0.121	<0.0111	0	K0.013	<0.0106
PCB-144	2,2',3,4,5',6 - HxCB	K0.151	U	0.085	0.085	K0.058	U	<0.0172	K0.053	0	K0.081	<0.0101
PCB-145	2,2',3,4,6,6' - HxCB	<0.0092	U	K0.010	U	<0.0090	U	<0.0133	K0.009	0	K0.011	K0.027
PCB-146	2,2',3,4',5,5' - HxCB	K0.519	U	0.392	0.264	K0.419	U	K0.193	0.128	0.128	K0.507	<0.0086
PCB-147/149	2,2',3,4',5,6 - HxCB	1.71	1.71	K1.91	U	K1.49	U	K0.855	K0.562	0	K1.49	K0.334
PCB-148	2,2',3,4',5,6' - HxCB	K0.030	U	<0.0125	U	<0.0119	U	<0.0178	<0.0121	0	<0.0120	K0.017
PCB-150	2,2',3,4',6,6' - HxCB	<0.0085	U	K0.015	U	<0.0085	U	<0.0122	K0.012	0	<0.0083	K0.014
PCB-152	2,2',3,5,6,6' - HxCB	<0.0086	U	<0.0088	U	K0.039	U	<0.0124	<0.0084	0	<0.0084	<0.0074
PCB-153/168	2,2',4,4',5,5' - HxCB	2.47	UB	2.35	1.354	2.05	1.054	1.32	0.672	0.996	2.59	K0.431
PCB-155	2,2',4,4',6,6' - HxCB	<0.0076	U	K0.081	U	K0.133	U	K0.226	K0.062	0	K0.199	K0.088
PCB-156/157	2,3,3',4,4',5 - HxCB	K0.695	U	K0.451	U	K0.734	U	K0.855	K0.342	0	K0.629	K0.866
PCB-158	2,3,3',4,4',6 - HxCB	K0.340	U	0.246	0.246	0.224	0.224	K0.138	K0.067	0	K0.254	<0.0070
PCB-159	2,3,3',4,5,5' - HxCB	K0.129	U	K0.068	U	K0.098	U	<0.0561	<0.0079	0	K0.017	K0.021
PCB-161	2,3,3',4,5',6 - HxCB	<0.0727	U	K0.048	U	<0.0500	U	<0.0551	<0.0077	0	K0.008	<0.0071
PCB-162	2,3,3',4',5,5' - HxCB	<0.0730	U	K0.017	U	<0.0528	U	<0.0553	<0.0077	0	<0.0058	K0.075
PCB-164	2,3,3',4',5',6 - HxCB	<0.0737	U	<0.0094	U	K0.092	U	<0.0559	0.032	0.032	0.175	K0.009
PCB-165	2,3,3',5,5',6 - HxCB	<0.0797	U	<0.0095	U	<0.0571	U	<0.0604	K0.037	0	K0.016	K0.024
PCB-167	2,3',4,4',5,5' - HxCB	K0.354	U	K0.124	U	K0.318	U	K0.429	K0.272	0	0.427	K0.431
PCB-169	3,3',4,4',5,5' - HxCB	<0.130	U	<0.130	U	<0.0990	U	K0.415	<0.0880	0	<0.105	<0.258
PCB-170	2,2',3,3',4,4',5 - HpCB	K0.851	U	K0.417	U	K0.592	U	0.352	K0.269	0.352	K0.194	K0.256
PCB-171/173	2,2',3,3',4,4',6 - HpCB	K0.196	U	<0.0111	U	K0.135	U	K0.045	K0.102	0	K0.116	K0.142
PCB-172	2,2',3,3',4,5,5' - HpCB	K0.136	U	K0.066	U	K0.138	U	K0.099	K0.038	0	K0.083	<0.0103
PCB-174	2,2',3,3',4,5,6' - HpCB	K0.667	U	0.505	0.24	<0.0122	U	0.265	<0.0119	0.265	K0.115	<0.0096
PCB-175	2,2',3,3',4,5',6 - HpCB	K0.017	U	K0.052	U	K0.038	U	K0.063	K0.018	0	<0.0105	K0.046
PCB-176	2,2',3,3',4,6,6' - HpCB	<0.0088	U	<0.0076	U	K0.085	U	K0.059	K0.036	0	K0.049	K0.018
PCB-177	2,2',3,3',4',5,6 - HpCB	0.487	0.487	<0.0110	U	K0.205	U	K0.175	K0.127	0	K0.159	K0.072
PCB-178	2,2',3,3',5,5',6 - HpCB	0.229	0.229	K0.155	U	K0.112	U	K0.096	K0.068	0	K0.115	<0.0095
PCB-179	2,2',3,3',5,6,6' - HpCB	0.313	0.313	K0.218	U	<0.0086	U	<0.0117	K0.090	0	<0.0080	K0.066
PCB-180/193	2,2',3,4,4',5,5' - HpCB	1.85	1.486	1.33	0.615	1.35	0.635	0.715	<0.0100	0.715	K0.610	0.364
PCB-181	2,2',3,4,4',5,6 - HpCB	<0.0118	U	K0.066	U	K0.189	U	K0.337	K2.14	0	K0.075	K0.435

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location	PCB ID	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay					
Type		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate					
Depth		Surface	Surface	Surface	Surface	Deep	Deep					
Collection Method		Grab	Grab	Pump	Pump	Pump	Pump					
CLIENT ID		AN-53A-031217	AN-53A-031217	AN-03AP-031217	AN-03AP-031217	AN-03B-031217	AN-03B-031217	Tubing Proof	AN-03EB-031217		AN-03TB-031217	LAB BLANK
Axys ID		L6436-12	L6436-12	L6436-11	L6436-11	L6436-9	L6436-9	L6395-2	L6436-14	Average of	L6436-13	WG11035-101
WORKGROUP		WG11030	Blank Corrected*	WG11035	Blank Corrected**	WG11035	Blank Corrected**	WG11030	WG11030	-2 and -14	WG11030	WG11035
UNITS		pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L		pg/L	pg/L
PCB-182	2,2',3,4,4',5,6' - HpCB	<0.0119	U	<0.0102	U	K0.095	U	K0.036	K0.016	0	K0.034	K0.154
PCB-183/185	2,2',3,4,4',5',6 - HpCB	0.565	0.565	K0.221	U	<0.0115	U	K0.063	K0.124	0	K0.135	<0.0094
PCB-184	2,2',3,4,4',6,6' - HpCB	K0.025	U	<0.0070	U	K0.026	U	K0.012	<0.0080	0	K0.055	<0.0065
PCB-186	2,2',3,4,5,6,6' - HpCB	<0.0090	U	<0.0077	U	<0.0090	U	<0.0119	<0.0087	0	K0.029	<0.0072
PCB-187	2,2',3,4',5,5',6 - HpCB	K1.29	U	K0.911	U	K0.875	U	K0.553	K0.238	0	K0.268	K0.271
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.029	U	K0.064	U	K0.095	U	K0.232	K0.059	0	K0.042	<0.0070
PCB-189	2,3,3',4,4',5,5' - HpCB	K0.123	U	K0.100	U	K0.135	U	K0.311	K0.185	0	<0.0860	K0.165
PCB-190	2,3,3',4,4',5,6 - HpCB	0.206	0.206	K0.034	U	0.169	0.169	K0.016	K0.064	0	K0.043	K0.139
PCB-191	2,3,3',4,4',5',6 - HpCB	0.096	0.096	<0.0085	U	<0.0099	U	K0.044	K0.059	0	K0.066	K0.030
PCB-192	2,3,3',4,5,5',6 - HpCB	K0.032	U	<0.0089	U	<0.0104	U	K0.014	<0.0098	0	<0.0093	K0.028
PCB-194	2,2',3,3',4,4',5,5' - OcCB	K0.550	U	K0.258	U	K0.201	U	K0.179	<0.0134	0	K0.062	K0.154
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K0.149	U	<0.0125	U	K0.094	U	K0.035	<0.0158	0	<0.0107	0.029
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K0.176	U	K0.115	U	K0.262	U	K0.080	K0.062	0	K0.091	K0.044
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	0.139	0.139	K0.059	U	K0.056	U	<0.0134	<0.0115	0	<0.0101	<0.0105
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	K0.599	U	K0.595	U	K0.319	U	0.144	K0.032	0.144	<0.0139	K0.163
PCB-201	2,2',3,3',4,5',6,6' - OcCB	0.164	0.164	K0.053	U	<0.0111	U	K0.059	<0.0114	0	<0.0101	K0.045
PCB-202	2,2',3,3',5,5',6,6' - OcCB	K0.208	U	K0.229	U	K0.145	U	K0.217	<0.0120	0	0.126	K0.057
PCB-203	2,2',3,4,4',5,5',6 - OcCB	0.438	0.438	K0.251	U	K0.310	U	K0.042	K0.050	0	K0.036	K0.028
PCB-204	2,2',3,4,4',5,6,6' - OcCB	<0.0093	U	<0.0133	U	<0.0114	U	0.051	<0.0117	0.051	K6.50	K0.030
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K0.029	U	K0.062	U	<0.0088	U	K0.147	K0.058	0	<0.0084	0.181
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	<0.832	U	<1.05	U	<0.943	U	<1.35	<1.10	0	<0.712	<0.951
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<0.659	U	<0.815	U	<0.726	U	<1.07	<0.852	0	<0.567	<0.754
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<0.700	U	<0.876	U	<0.778	U	<1.14	<0.889	0	<0.604	<0.807
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	K0.453	U	K0.426	U	K0.561	U	K0.596	0.445	0.445	K0.392	K0.395
Total Monochloro Biphenyls		0.505	0.00	0.55	0.00	3.26	2.37	1.03	2.43	2.58	2.52	1.04
Total Dichloro Biphenyls		5.16	0.00	21.2	3.05	11	5.35	<3.14	18.5	18.56	22.3	<2.33
Total Trichloro Biphenyls		12.6	7.30	17.1	7.28	22.5	11.88	8.46	12	13.30	8.51	3.81
Total Tetrachloro Biphenyls		17.9	14.10	96	36.53	51.9	14.36	18.2	103	75.87	10.5	2.31
Total Pentachloro Biphenyls		15.2	10.31	7.83	6.26	9.31	6.27	3.29	2.48	4.11	9.23	1.55
Total Hexachloro Biphenyls		8.18	3.17	3.87	2.75	6.27	4.77	1.32	1.37	1.69	6.27	0.26
Total Heptachloro Biphenyls		3.75	3.38	1.84	0.86	1.52	0.80	1.33	<0.0136	1.33	<0.0860	0.364
Total Octachloro Biphenyls		0.741	0.74	<0.0178	0.00	<0.0152	0.00	0.195	<0.0158	0.20	0.126	0.21
Total Nonachloro Biphenyls		<0.832	0.00	<1.05	0.00	<0.943	0.00	<1.35	<1.10	0.00	<0.712	<0.951
Decachloro Biphenyl		<0.0133	0.00	<0.0157	0.00	<0.0157	0.00	<0.0153	0.445	0.45	<0.0097	<0.0147
TOTAL PCBs		64	39.00	148	56.72	106	45.80	33.9	140	118.08	59.5	9.54

* Corrected for the average of the trip blank and the associated method

** Corrected for the average of the equipment blank and the tubing pro

U = not detected

UB = detected result was less than the associated blank

< = less than detection limit

K = not detected due to mass spectral match

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location						
Type						
Depth						
Collection Method						
CLIENT ID			LAB BLANK		SPIKED MATRIX	SPIKED MATRIX
Axys ID		Average of	WG11030-101	Average of	WG11030-102	WG11035-102
WORKGROUP		-13 and -101	WG11030	-13 and -101a	WG11030	WG11035
UNITS	PCB ID	pg/L	pg/L		% REC	% REC
PCB-1	2 - MoCB	1.31	0.949	1.1295	92.5	97
PCB-2	3 - MoCB	0.373	K0.769	0		
PCB-3	4 - MoCB	0.9335	K1.38	1.2	90.2	94.8
PCB-4	2,2' - DiCB	3.21	<1.24	3.21	91	97.5
PCB-5	2,3 - DiCB	0	<1.07	0		
PCB-6	2,3' - DiCB	0	<1.01	0		
PCB-7	2,4 - DiCB	8.52	4.92	6.72		
PCB-8	2,4' - DiCB	5.08	K2.49	5.08		
PCB-9	2,5 - DiCB	0	<0.977	0		
PCB-10	2,6 - DiCB	0	<1.07	0		
PCB-11	3,3' - DiCB	5.51	3.94	4.725		
PCB-12/13	3,4 - DiCB	0	<1.01	0		
PCB-14	3,5 - DiCB	0	<1.03	0		
PCB-15	4,4' - DiCB	0	1.33	1.33	89.5	93.2
PCB-16	2,2',3 - TriCB	0.97	0.91	1.05		
PCB-17	2,2',4 - TriCB	0	K1.19	0		
PCB-18/30	2,2',5 - TriCB	0	2.18	2.18		
PCB-19	2,2',6 - TriCB	0.667	K0.553	0.667	101	105
PCB-20/28	2,3,3' - TriCB	1.51	2.06	1.93		
PCB-21/33	2,3,4 - TriCB	0.81	1.09	1.04		
PCB-22	2,3,4' - TriCB	0.5255	K0.686	0.532		
PCB-23	2,3,5 - TriCB	0	<0.0337	0		
PCB-24	2,3,6 - TriCB	0	<0.0808	0		
PCB-25	2,3',4 - TriCB	0	K0.174	0		
PCB-26/29	2,3',5 - TriCB	0.289	K0.343	0		
PCB-27	2,3',6 - TriCB	0.197	K0.286	0.197		
PCB-31	2,4',5 - TriCB	1.46	K1.91	1.46		
PCB-32	2,4',6 - TriCB	0.535	0.646	0.656		
PCB-34	2',3,5 - TriCB	0	<0.0334	0		
PCB-35	3,3',4 - TriCB	0	K0.141	0		
PCB-36	3,3',5 - TriCB	0	<0.0323	0		
PCB-37	3,4,4' - TriCB	1.02	0.53	0.775	91.4	93.7
PCB-38	3,4,5 - TriCB	0	<0.0335	0		
PCB-39	3,4',5 - TriCB	0	<0.0313	0		
PCB-40/41/71	2,2',3,3' - TeCB	0	K0.671	0		
PCB-42	2,2',3,4' - TeCB	0.2	K0.303	0.2		
PCB-43	2,2',3,5 - TeCB	0	<0.104	0		
PCB-44/47/65	2,2',3,5' - TeCB	0	K2.16	0		
PCB-45/51	2,2',3,6 - TeCB	0	0.66	0.66		
PCB-46	2,2',3,6' - TeCB	0	<0.103	0		
PCB-48	2,2',4,5 - TeCB	0	K0.291	0		
PCB-49/69	2,2',4,5' - TeCB	0.68	K0.717	0.68		
PCB-50/53	2,2',4,6 - TeCB	0	K0.277	0		
PCB-52	2,2',5,5' - TeCB	1.655	1.38	1.74		
PCB-54	2,2',6,6' - TeCB	0	<0.0622	0	101	113

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location						
Type						
Depth						
Collection Method						
CLIENT ID			LAB BLANK		SPIKED MATRIX	SPIKED MATRIX
Axys ID		Average of	WG11030-101	Average of	WG11030-102	WG11035-102
WORKGROUP		-13 and -101	WG11030	-13 and -101a	WG11030	WG11035
UNITS	PCB ID	pg/L	pg/L		% REC	% REC
PCB-55	2,3,3',4 - TeCB	0	<0.234	0		
PCB-56	2,3,3',4' - TeCB	0.458	K0.459	0.458		
PCB-57	2,3,3',5 - TeCB	0	<0.230	0		
PCB-58	2,3,3',5' - TeCB	0	<0.230	0		
PCB-59/62/75	2,3,3',6 - TeCB	0	K0.116	0		
PCB-60	2,3,4,4' - TeCB	0	0.234	0.234		
PCB-61/70/74/76	2,3,4,5 - TeCB	1.945	K1.58	2.8		
PCB-63	2,3,4',5 - TeCB	0	<0.219	0		
PCB-64	2,3,4',6 - TeCB	0	0.455	0.455		
PCB-66	2,3',4,4' - TeCB	1.03	0.795	0.9125		
PCB-67	2,3',4,5 - TeCB	0	<0.210	0		
PCB-68	2,3',4,5' - TeCB	0	<0.215	0		
PCB-72	2,3',5,5' - TeCB	0	<0.221	0		
PCB-73	2,3',5',6 - TeCB	0	<0.0661	0		
PCB-77	3,3',4,4' - TeCB	3.22	0.484	1.852	89.2	92.4
PCB-78	3,3',4,5 - TeCB	0	<0.239	0		
PCB-79	3,3',4,5' - TeCB	0	<0.205	0		
PCB-80	3,3',5,5' - TeCB	0	<0.215	0		
PCB-81	3,4,4',5 - TeCB	0	K0.273	0	89.9	94.6
PCB-82	2,2',3,3',4 - PeCB	0	<0.0440	0		
PCB-83/99	2,2',3,3',5 - PeCB	1.37	0.452	0.911		
PCB-84	2,2',3,3',6 - PeCB	0.419	K0.262	0.419		
PCB-85/116/117	2,2',3,4,4' - PeCB	0.52	K0.121	0.52		
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	0	0.535	0.535		
PCB-88/91	2,2',3,4,6 - PeCB	0.104	<0.0379	0		
PCB-89	2,2',3,4,6' - PeCB	0	K0.049	0		
PCB-90/101/113	2,2',3,4',5 - PeCB	1.9745	K0.736	3.39		
PCB-92	2,2',3,5,5' - PeCB	0.48	0.133	0.3065		
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	0	0.589	0.589		
PCB-94	2,2',3,5,6' - PeCB	0	<0.0405	0		
PCB-96	2,2',3,6,6' - PeCB	0	K0.021	0		
PCB-103	2,2',4,5',6 - PeCB	0	<0.0342	0		
PCB-104	2,2',4,6,6' - PeCB	0	K0.055	0	97.2	100
PCB-105	2,3,3',4,4' - PeCB	0.479	0.477	0.477	96.7	97.2
PCB-106	2,3,3',4,5 - PeCB	0	<0.0741	0		
PCB-107/124	2,3,3',4',5 - PeCB	0	0.143	0.143		
PCB-109	2,3,3',4,6 - PeCB	0	K0.198	0		
PCB-110/115	2,3,3',4',6 - PeCB	0.406	K0.636	0		
PCB-111	2,3,3',5,5' - PeCB	0	<0.0287	0		
PCB-112	2,3,3',5,6 - PeCB	0	<0.0304	0		
PCB-114	2,3,4,4',5 - PeCB	0	K0.171	0	99.3	93.9
PCB-118	2,3',4,4',5 - PeCB	3.06	K1.00	3.06	93.2	92.7
PCB-120	2,3',4,5,5' - PeCB	0	<0.0285	0		
PCB-121	2,3',4,5',6 - PeCB	0	<0.0286	0		
PCB-122	2',3,3',4,5 - PeCB	0	<0.0836	0		

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location						
Type						
Depth						
Collection Method						
CLIENT ID			LAB BLANK		SPIKED MATRIX	SPIKED MATRIX
Axys ID		Average of	WG11030-101	Average of	WG11030-102	WG11035-102
WORKGROUP		-13 and -101	WG11030	-13 and -101a	WG11030	WG11035
UNITS	PCB ID	pg/L	pg/L		% REC	% REC
PCB-123	2',3,4,4',5 - PeCB	0	<0.0832	0	98.3	97.6
PCB-126	3,3',4,4',5 - PeCB	0	K0.277	0	96.1	94.3
PCB-127	3,3',4,5,5' - PeCB	0	K0.078	0		
PCB-128/166	2,2',3,3',4,4' - HxCB	0.055	K0.103	0		
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	2.54	0.616	1.578		
PCB-130	2,2',3,3',4,5' - HxCB	0	K0.029	0		
PCB-131	2,2',3,3',4,6 - HxCB	0	<0.0096	0		
PCB-132	2,2',3,3',4,6' - HxCB	0	K0.120	0		
PCB-133	2,2',3,3',5,5' - HxCB	0	K0.038	0		
PCB-134/143	2,2',3,3',5,6 - HxCB	0	<0.0095	0		
PCB-135/151/154	2,2',3,3',5,6' - HxCB	0.3715	K0.146	0.538		
PCB-136	2,2',3,3',6,6' - HxCB	0	<0.0084	0		
PCB-137	2,2',3,4,4',5 - HxCB	0	K0.024	0		
PCB-139/140	2,2',3,4,4',6 - HxCB	0	K0.051	0		
PCB-141	2,2',3,4,5,5' - HxCB	0	K0.063	0		
PCB-142	2,2',3,4,5,6 - HxCB	0	<0.0096	0		
PCB-144	2,2',3,4,5',6 - HxCB	0	K0.030	0		
PCB-145	2,2',3,4,6,6' - HxCB	0	<0.0088	0		
PCB-146	2,2',3,4',5,5' - HxCB	0	K0.137	0		
PCB-147/149	2,2',3,4',5,6 - HxCB	0	K0.479	0		
PCB-148	2,2',3,4',5,6' - HxCB	0	K0.013	0		
PCB-150	2,2',3,4',6,6' - HxCB	0	<0.0081	0		
PCB-152	2,2',3,5,6,6' - HxCB	0	<0.0082	0		
PCB-153/168	2,2',4,4',5,5' - HxCB	2.59	0.482	1.536		
PCB-155	2,2',4,4',6,6' - HxCB	0	K0.098	0	94.9	101
PCB-156/157	2,3,3',4,4',5 - HxCB	0	0.606	0.606	97.1	105
PCB-158	2,3,3',4,4',6 - HxCB	0	K0.116	0		
PCB-159	2,3,3',4,5,5' - HxCB	0	K0.069	0		
PCB-161	2,3,3',4,5',6 - HxCB	0	K0.027	0		
PCB-162	2,3,3',4',5,5' - HxCB	0	K0.021	0		
PCB-164	2,3,3',4',5,6 - HxCB	0.175	K0.040	0.175		
PCB-165	2,3,3',5,5',6 - HxCB	0	K0.015	0		
PCB-167	2,3',4,4',5,5' - HxCB	0.427	K0.180	0.427	98.2	105
PCB-169	3,3',4,4',5,5' - HxCB	0	0.333	0.333	97.7	106
PCB-170	2,2',3,3',4,4',5 - HpCB	0	K0.198	0		
PCB-171/173	2,2',3,3',4,4',6 - HpCB	0	<0.0121	0		
PCB-172	2,2',3,3',4,5,5' - HpCB	0	K0.041	0		
PCB-174	2,2',3,3',4,5,6' - HpCB	0	K0.051	0		
PCB-175	2,2',3,3',4,5',6 - HpCB	0	K0.014	0		
PCB-176	2,2',3,3',4,6,6' - HpCB	0	<0.0083	0		
PCB-177	2,2',3,3',4',5,6 - HpCB	0	<0.0119	0		
PCB-178	2,2',3,3',5,5',6 - HpCB	0	K0.028	0		
PCB-179	2,2',3,3',5,6,6' - HpCB	0	0.052	0.052		
PCB-180/193	2,2',3,4,4',5,5' - HpCB	0.364	K0.356	0		
PCB-181	2,2',3,4,4',5,6 - HpCB	0	K3.06	0		

Table C-14
Raw Data and Blank Correction Calculations - December 2003 Site Results

Location						
Type						
Depth						
Collection Method						
CLIENT ID			LAB BLANK		SPIKED MATRIX	SPIKED MATRIX
Axys ID		Average of	WG11030-101	Average of	WG11030-102	WG11035-102
WORKGROUP		-13 and -101	WG11030	-13 and -101a	WG11030	WG11035
UNITS	PCB ID	pg/L	pg/L		% REC	% REC
PCB-182	2,2',3,4,4',5,6' - HpCB	0	K0.044	0		
PCB-183/185	2,2',3,4,4',5',6' - HpCB	0	K0.076	0		
PCB-184	2,2',3,4,4',6,6' - HpCB	0	<0.0078	0		
PCB-186	2,2',3,4,5,6,6' - HpCB	0	K0.011	0		
PCB-187	2,2',3,4',5,5',6' - HpCB	0	0.177	0.177		
PCB-188	2,2',3,4',5,6,6' - HpCB	0	K0.056	0	96.4	101
PCB-189	2,3,3',4,4',5,5' - HpCB	0	K0.283	0	93.3	98.3
PCB-190	2,3,3',4,4',5,6' - HpCB	0	K0.036	0		
PCB-191	2,3,3',4,4',5',6' - HpCB	0	K0.029	0		
PCB-192	2,3,3',4,5,5',6' - HpCB	0	K0.039	0		
PCB-194	2,2',3,3',4,4',5,5' - OcCB	0	K0.140	0		
PCB-195	2,2',3,3',4,4',5,6' - OcCB	0.029	0.027	0.027		
PCB-196	2,2',3,3',4,4',5,6' - OcCB	0	K0.016	0		
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	0	K0.097	0		
PCB-198/199	2,2',3,3',4,5,5',6' - OcCB	0	K0.045	0		
PCB-201	2,2',3,3',4,5',6,6' - OcCB	0	K0.048	0		
PCB-202	2,2',3,3',5,5',6,6' - OcCB	0.126	K0.018	0.126	96.6	99.9
PCB-203	2,2',3,4,4',5,5',6' - OcCB	0	0.024	0.024		
PCB-204	2,2',3,4,4',5,6,6' - OcCB	0	<0.0098	0		
PCB-205	2,3,3',4,4',5,5',6' - OcCB	0.181	K0.161	0	96.5	102
PCB-206	2,2',3,3',4,4',5,5',6' - NoCB	0	<0.714	0	96.9	102
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	0	<0.569	0		
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	0	<0.609	0	95.1	97.6
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	0	K0.330	0	93.5	97
Total Monochloro Biphenyls		2.62	0.949	2.33		
Total Dichloro Biphenyls		22.32	10.2	21.07		
Total Trichloro Biphenyls		7.98	7.41	10.49		
Total Tetrachloro Biphenyls		9.19	4.01	9.99		
Total Pentachloro Biphenyls		8.81	2.33	10.35		
Total Hexachloro Biphenyls		6.16	2.04	5.19		
Total Heptachloro Biphenyls		0.36	0.229	0.23		
Total Octachloro Biphenyls		0.34	0.051	0.18		
Total Nonachloro Biphenyls		0.00	<0.714	0.00		
Decachloro Biphenyl		0.00	<0.0111	0.00		
TOTAL PCBs		57.78	27.2	59.82		

* Corrected for the average of the trip blank and the associated method
 ** Corrected for the average of the equipment blank and the tubing pro
 U = not detected
 UB = detected result was less than the associated blank
 < = less than detection limit
 K = not detected due to mass spectral match

Table C-15
Raw Data and Blank Correction Calculations - December 2003 Expanded Area Results

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-1	0.918	0.00	0.682	UB	0.524	1.31	0.917	106
PCB-2	0.93	0.93	0.687	0.69	K0.356	K0.575	0	
PCB-3	2.84	1.64	K1.77	U	K0.993	1.2	1.2	109
PCB-4	K2.48	U	K2.90	U	<0.563	3.21	3.21	99.5
PCB-5	<0.591	U	<0.499	U	<0.453	<1.03	0	
PCB-6	K0.612	U	0.582	0.58	<0.440	K1.79	0	
PCB-7	3.3	UB	1.25	UB	<0.423	8.52	8.52	
PCB-8	1.69	UB	1.93	UB	K0.669	5.08	5.08	
PCB-9	0.659	0.66	<0.459	U	<0.424	<0.943	0	
PCB-10	<0.568	U	<0.480	U	<0.431	<1.03	0	
PCB-11	K8.02	U	8.46	2.95	K5.27	5.51	5.51	
PCB-12/13	0.663	0.66	<0.519	U	<0.452	<0.972	0	
PCB-14	<0.592	U	<0.500	U	<0.435	<0.993	0	
PCB-15	K2.15	U	2.43	2.43	<0.565	<1.03	0	105
PCB-16	K1.98	U	K2.91	U	K0.519	1.19	1.19	
PCB-17	K1.87	U	2.93	2.93	K0.614	K1.37	0	
PCB-18/30	5.27	5.27	7.14	7.14	K1.04	<0.0756	0	
PCB-19	K1.47	U	1.64	0.97	<0.188	0.667	0.667	109
PCB-20/28	6.07	4.56	8.88	7.37	1.22	1.8	1.51	
PCB-21/33	2.23	1.42	3.06	2.25	0.622	0.99	0.806	
PCB-22	1.5	1.05	2.06	1.61	0.363	0.532	0.4475	
PCB-23	<0.155	U	<0.145	U	<0.209	<0.0790	0	
PCB-24	0.178	0.18	K0.159	U	<0.119	<0.0705	0	
PCB-25	0.564	0.56	0.566	0.57	<0.187	<0.0693	0	
PCB-26/29	K1.23	U	K1.85	U	K0.233	K0.338	0	
PCB-27	K0.504	U	0.675	0.48	<0.116	0.197	0.197	
PCB-31	5.12	3.66	8.34	6.88	K1.17	1.46	1.46	
PCB-32	0.963	0.49	1.75	1.27	0.29	0.666	0.478	
PCB-34	<0.158	U	<0.148	U	<0.212	<0.0782	0	
PCB-35	K0.466	U	0.211	0.21	<0.222	K0.197	0	

Table C-15
Raw Data and Blank Correction Calculations - December 2003 Expanded Area Results

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-36	<0.152	U	<0.142	U	<0.198	<0.0757	0	
PCB-37	K1.99	U	1.81	0.79	K0.375	1.02	1.02	100
PCB-38	<0.163	U	<0.153	U	<0.212	<0.0785	0	
PCB-39	<0.159	U	<0.149	U	<0.204	<0.0732	0	
PCB-40/41/71	2.39	1.93	3.07	2.61	0.462	K0.139	0.462	
PCB-42	K1.14	U	1.66	1.47	0.178	0.2	0.189	
PCB-43	K0.078	U	K0.296	U	<0.107	<0.111	0	
PCB-44/47/65	6.01	4.75	7.16	5.90	1.26	K1.65	1.26	
PCB-45/51	K1.46	U	1.31	1.31	K0.251	<0.0931	0	
PCB-46	K0.343	U	K0.506	U	<0.105	<0.110	0	
PCB-48	1.01	1.01	K1.45	U	K0.183	<0.0920	0	
PCB-49/69	3.11	2.43	4.11	3.43	K0.608	0.68	0.68	
PCB-50/53	1.05	1.05	K1.22	U	K0.247	K0.404	0	
PCB-52	7.26	5.54	10.7	8.98	1.34	2.1	1.72	
PCB-54	K0.044	U	K0.147	U	K0.068	<0.0683	0	107
PCB-55	<0.303	U	<0.209	U	<0.293	<0.231	0	
PCB-56	K2.43	U	2.37	1.92	0.443	0.458	0.4505	
PCB-57	<0.291	U	<0.200	U	<0.310	<0.227	0	
PCB-58	<0.290	U	<0.199	U	<0.310	<0.227	0	
PCB-59/62/75	K0.496	U	K0.645	U	K0.138	<0.0712	0	
PCB-60	1.51	1.51	1.28	1.28	<0.301	K0.400	0	
PCB-61/70/74/76	8.21	6.16	10.9	8.85	1.3	2.8	2.05	
PCB-63	<0.284	U	K0.281	U	<0.285	<0.216	0	
PCB-64	2.66	2.66	3.12	3.12	K0.296	K0.466	0	
PCB-66	5.08	4.05	4.97	3.94	K0.439	1.03	1.03	
PCB-67	<0.263	U	0.271	0.27	<0.267	<0.207	0	
PCB-68	<0.266	U	<0.183	U	<0.291	<0.213	0	
PCB-72	<0.270	U	<0.186	U	<0.299	<0.218	0	
PCB-73	<0.0387	U	<0.0452	U	<0.0654	<0.0702	0	
PCB-77	1.07	UB	0.536	UB	K0.351	3.22	3.22	107

Table C-15
Raw Data and Blank Correction Calculations - December 2003 Expanded Area Results

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-78	<0.308	U	<0.212	U	<0.310	<0.236	0	
PCB-79	<0.253	U	<0.174	U	<0.257	<0.203	0	
PCB-80	<0.286	U	<0.197	U	<0.277	<0.213	0	
PCB-81	<0.294	U	<0.201	U	<0.302	<0.228	0	101
PCB-82	K1.09	U	1.14	1.14	<0.377	K0.338	0	
PCB-83/99	4.78	3.90	4.91	4.03	0.39	1.37	0.88	
PCB-84	K1.99	U	2.84	2.42	<0.374	0.419	0.419	
PCB-85/116/117	1.91	1.39	1.61	1.09	<0.279	0.52	0.52	
PCB-86/87/97/108/119/125	5.95	5.07	6.34	5.46	0.879	K2.12	0.879	
PCB-88/91	1.16	1.16	1.18	1.18	<0.323	K0.302	0	
PCB-89	<0.223	U	K0.137	U	<0.347	<0.0826	0	
PCB-90/101/113	7.58	5.41	9.02	6.85	0.953	3.39	2.1715	
PCB-92	1.4	0.92	1.56	1.08	<0.332	0.48	0.48	
PCB-93/95/98/100/102	6.35	5.72	8.19	7.56	0.635	K0.887	0.635	
PCB-94	<0.219	U	K0.094	U	<0.339	<0.0829	0	
PCB-96	<0.0827	U	K0.078	U	<0.0480	K0.018	0	
PCB-103	<0.188	U	K0.104	U	<0.290	<0.0700	0	
PCB-104	<0.107	U	0.098	UB	0.158	K0.033	0.158	97.4
PCB-105	3.99	3.99	2.76	2.76	K0.466	K1.12	0	99.1
PCB-106	<0.234	U	<0.195	U	<0.276	<0.0620	0	
PCB-107/124	0.28	0.28	0.338	0.34	<0.284	K0.223	0	
PCB-109	K0.639	U	0.535	0.54	<0.268	K0.343	0	
PCB-110/115	9.83	9.83	9.4	9.40	K0.839	K2.98	0	
PCB-111	<0.164	U	<0.0496	U	<0.251	<0.0589	0	
PCB-112	<0.161	U	<0.0485	U	<0.262	<0.0622	0	
PCB-114	K0.380	U	K0.246	U	<0.288	<0.0676	0	102
PCB-118	7.38	4.32	6.36	3.30	K0.656	3.06	3.06	104
PCB-120	<0.164	U	<0.0496	U	<0.245	<0.0584	0	
PCB-121	<0.159	U	<0.0479	U	<0.243	<0.0585	0	
PCB-122	<0.254	U	<0.212	U	<0.307	<0.0700	0	

**Table C-15
Raw Data and Blank Correction Calculations - December 2003 Expanded Area Results**

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-123	<0.237	U	K0.438	U	<0.293	<0.0722	0	117
PCB-126	<0.262	U	<0.214	U	<0.385	K0.488	0	107
PCB-127	<0.244	U	<0.204	U	<0.294	K0.094	0	
PCB-128/166	K1.94	U	1.22	1.22	<0.281	K0.319	0	
PCB-129/138/160/163	11	9.37	7.95	6.32	0.726	2.54	1.633	
PCB-130	0.738	0.74	0.448	0.45	<0.352	K0.195	0	
PCB-131	<0.303	U	<0.242	U	<0.319	K0.084	0	
PCB-132	3.25	3.25	2.7	2.70	<0.322	K0.622	0	
PCB-133	<0.296	U	<0.236	U	<0.313	<0.0079	0	
PCB-134/143	K0.449	U	K0.329	U	<0.318	<0.0082	0	
PCB-135/151/154	3.69	3.15	K2.91	U	K0.372	0.538	0.538	
PCB-136	K1.10	U	1.29	1.29	K0.157	<0.0085	0	
PCB-137	K0.716	U	K0.493	U	<0.323	K0.257	0	
PCB-139/140	K0.327	U	<0.219	U	<0.288	K0.051	0	
PCB-141	1.94	1.94	K1.66	U	<0.317	K0.544	0	
PCB-142	<0.306	U	<0.244	U	<0.322	K0.013	0	
PCB-144	0.438	0.39	K0.376	U	0.046	K0.081	0.046	
PCB-145	<0.0176	U	K0.023	U	<0.0179	K0.011	0	
PCB-146	1.43	1.43	K1.09	U	<0.280	K0.507	0	
PCB-147/149	7.32	7.32	6.22	6.22	K0.783	K1.49	0	
PCB-148	<0.0236	U	K0.022	U	<0.0239	<0.0120	0	
PCB-150	K0.040	U	<0.0134	U	K0.070	<0.0083	0	
PCB-152	<0.0168	U	<0.0135	U	<0.0168	<0.0084	0	
PCB-153/168	8.02	5.43	K6.11	U	K1.04	2.59	2.59	
PCB-155	K0.153	U	K0.137	U	0.164	K0.199	0.164	107
PCB-156/157	1.52	0.72	0.919	0.12	0.797	K0.629	0.797	106
PCB-158	1.05	1.05	0.831	0.83	<0.228	K0.254	0	
PCB-159	<0.232	U	<0.185	U	<0.242	K0.017	0	
PCB-161	<0.219	U	<0.175	U	<0.231	K0.008	0	
PCB-162	<0.231	U	<0.184	U	<0.239	<0.0058	0	

**Table C-15
Raw Data and Blank Correction Calculations - December 2003 Expanded Area Results**

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-164	K0.896	U	K0.531	U	<0.234	0.175	0.175	
PCB-165	<0.240	U	<0.191	U	<0.247	K0.016	0	
PCB-167	0.53	0.10	K0.300	U	K0.255	0.427	0.427	103
PCB-169	<0.256	U	<0.194	U	K0.424	<0.105	0	104
PCB-170	1.91	1.91	K1.38	U	K0.340	K0.194	0	
PCB-171/173	K0.754	U	0.408	0.41	K0.102	K0.116	0	
PCB-172	K0.345	U	K0.195	U	K0.069	K0.083	0	
PCB-174	K2.13	U	1.85	1.85	K0.123	K0.115	0	
PCB-175	0.152	0.15	K0.148	U	<0.0187	<0.0105	0	
PCB-176	0.398	0.40	K0.259	U	<0.0141	K0.049	0	
PCB-177	1.51	1.47	0.989	0.95	0.037	K0.159	0.037	
PCB-178	0.642	0.64	K0.362	U	K0.141	K0.115	0	
PCB-179	1.09	1.09	0.771	0.77	K0.047	<0.0080	0	
PCB-180/193	4.66	4.66	3.56	3.56	K0.620	K0.610	0	
PCB-181	K0.068	U	<0.0209	U	<0.0196	K0.075	0	
PCB-182	K0.022	U	K0.075	U	K0.172	K0.034	0	
PCB-183/185	1.62	1.56	1.19	1.13	0.063	K0.135	0.063	
PCB-184	K0.015	U	K0.074	U	<0.0134	K0.055	0	
PCB-186	<0.0153	U	<0.0152	U	0.025	K0.029	0.025	
PCB-187	3.07	3.07	K2.04	U	K0.307	K0.268	0	
PCB-188	0.047	0.05	K0.038	U	K0.038	K0.042	0	109
PCB-189	0.297	0.30	0.165	0.17	K0.419	<0.0860	0	106
PCB-190	K0.484	U	K0.241	U	K0.030	K0.043	0	
PCB-191	<0.0175	U	K0.065	U	K0.112	K0.066	0	
PCB-192	K0.118	U	<0.0182	U	K0.043	<0.0093	0	
PCB-194	K1.05	U	0.87	0.87	K0.054	K0.062	0	
PCB-195	K0.483	U	K0.228	U	K0.043	<0.0107	0	
PCB-196	K0.581	U	K0.290	U	K0.112	K0.091	0	
PCB-197/200	0.315	0.32	K0.104	U	K0.047	<0.0101	0	
PCB-198/199	K1.23	U	K1.32	U	K0.050	<0.0139	0	

**Table C-15
Raw Data and Blank Correction Calculations - December 2003 Expanded Area Results**

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-201	K0.200	U	K0.215	U	<0.0216	<0.0101	0	
PCB-202	K0.399	U	0.374	0.25	<0.0232	0.126	0.126	102
PCB-203	K0.876	U	K0.892	U	0.114	K0.036	0.114	
PCB-204	<0.0222	U	<0.0235	U	K0.037	K6.50	0	
PCB-205	0.211	0.21	K0.071	U	K0.173	<0.0084	0	103
PCB-206	<0.664	U	K0.578	U	<0.682	<0.712	0	106
PCB-207	<0.498	U	<0.429	U	<0.517	<0.567	0	
PCB-208	<0.543	U	<0.467	U	<0.582	<0.604	0	104
PCB-209	K1.03	U	K0.625	U	K0.560	K0.392	0	108
Total Monochloro Biphenyls	4.69	2.57	1.37	0.69	0.524	2.52	2.12	
Total Dichloro Biphenyls	6.31	1.32	14.7	5.96	<0.565	22.3	22.32	
Total Trichloro Biphenyls	21.9	17.19	39.1	32.48	2.49	8.51	7.78	
Total Tetrachloro Biphenyls	39.4	31.09	51.5	43.08	4.98	10.5	11.06	
Total Pentachloro Biphenyls	50.6	41.98	56.3	47.14	3.01	9.23	9.20	
Total Hexachloro Biphenyls	41	34.90	21.6	19.15	1.73	6.27	6.37	
Total Heptachloro Biphenyls	15.4	15.30	8.93	8.83	<0.180	<0.0860	0.13	
Total Octachloro Biphenyls	0.526	0.53	1.24	1.12	0.114	0.126	0.24	
Total Nonachloro Biphenyls	<0.664	0.00	<0.571	0.00	<0.682	<0.712	0.00	
Decachloro Biphenyl	<0.0307	0.00	<0.0289	0.00	<0.350	<0.0097	0.00	
TOTAL PCBs	180	144.88	195	158.44	12.9	59.5	59.21	

U = not detected

UB = detected result was less than th

< = less than detection limit

K = not detected due to mass spectra

**Table C-16
Total PCBs - Qualified per EPA Region X Guidance - December 2003 Results**

WATER - Surface & Deep	Plante's Ferry (s, g)	Boulder Beach (s, g)	Boulder Beach (d, p)	Boulder Beach (d, p)	Dam Forebay (s, g)	Dam Forebay (s, g)	Dam Forebay (s, p)	Dam Forebay (d, p)	Monroe St (s, g)	Riverside (s, g)
Depth	Surface	Surface	Deep	Deep	Surface	Surface	Surface	Deep	Surface	Surface
Sample ID	AN-01A-031217	AN-02A-031217	AN-02B1-031217	AN-02B2-031217	AN-03A-031217	AN-53A-031217	AN-03AP-031217	AN-03B-031217	AN-13-031217	AN-14-031217
Date	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003
Collection Method	Grab	Grab	Pump/tubing	Pump/tubing	Grab	Grab	Pump	Pump	Grab	Grab
Type	Field	Field	Field	Field	Field	Field Duplicate	Field Duplicate	Field Duplicate	Field	Field
Units	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
Monochlorobiphenyls	0.00	0.00	0.00	10.10	0.00	0.00	0.00	0.00	0.93	0.687
Dichlorobiphenyls	0.00	0.00	0.00	3.68	0.00	0.00	0.00	0.00	1.32	3.012
Trichlorobiphenyls	7.07	3.19	0.00	0.98	1.63	1.70	0.00	0.57	6.01	19.187
Tetrachlorobiphenyls	7.69	7.30	0.47	2.05	10.11	5.89	1.48	2.02	8.62	35.051
Pentachlorobiphenyls	7.79	2.01	1.84	3.38	7.70	8.71	2.27	0.00	27.56	32.723
Hexachlorobiphenyls	4.75	2.86	2.46	5.64	2.01	2.98	0.40	1.10	19.86	12.709
Heptachlorobiphenyls	1.54	0.22	0.47	3.84	0.24	3.75	0.00	0.17	15.40	8.933
Octochlorobiphenyls	0.06	0.05	0.00	0.00	0.27	0.74	0.00	0.00	0.53	0.87
Nonachlorobiphenyls	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Decachlorobiphenyls	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
Total PCBs	28.90	15.63	5.24	29.67	21.96	23.78	4.16	3.85	80.22	113.172
Sum of Penta & Up	14.14	5.14	4.77	12.87	10.22	16.18	2.67	1.26	63.34	55.24

s= shallow
d = deep
g = grab
p = pumped
pg/L = picograms / liter

Table C-17
Raw Data and EPA Qualification of Site Results

Location		Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay
Type		Field	Field	Field	Field	Field	Field	Field	Field	Field	Field
Depth		Surface	Surface	Surface	Surface	Deep	Deep	Deep	Deep	Surface	Surface
Collection Method		Grab	Grab	Grab	Grab	Pump/tubing	Pump/tubing	Pump/tubing	Pump/tubing	Grab	Grab
CLIENT ID		AN-01A-031217	AN-01A-031217	AN-02A-031217	AN-02A-031217	AN-02B1-031217	AN-02B1-031217	AN-02B2-031217	AN-02B2-031217	AN-03A-031217	AN-03A-031217
Axys ID		L6436-1	L6436-1	L6436-4	L6436-4	L6436-2	L6436-2	L6436-3	L6436-3	L6436-10	L6436-10
WORKGROUP		WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-1	2 - MoCB	0.675	UB	0.473	UB	K0.796	U	5.75	UB	K1.22	U
PCB-2	3 - MoCB	0.584	UB	K0.429	U	K0.944	U	K10.6	U	K1.43	U
PCB-3	4 - MoCB	K1.23	U	K0.826	U	K1.35	U	10.1	10.1	2.71	UB
PCB-4	2,2' - DiCB	K2.61	U	1.55	UB	<2.54	U	2.92	UB	<2.39	U
PCB-5	2,3 - DiCB	<1.70	U	<0.830	U	<2.05	U	<1.64	U	<1.96	U
PCB-6	2,3' - DiCB	<1.61	U	<0.794	U	<1.94	U	<1.55	U	<1.88	U
PCB-7	2,4 - DiCB	K2.18	U	1.52	UB	14.2	UB	10.9	UB	4.9	UB
PCB-8	2,4' - DiCB	2.67	UB	K1.46	U	K2.28	U	4.29	UB	K2.30	U
PCB-9	2,5 - DiCB	<1.57	U	<0.777	U	<1.89	U	<1.51	U	<1.83	U
PCB-10	2,6 - DiCB	<1.67	U	<0.818	U	<2.01	U	<1.60	U	<1.93	U
PCB-11	3,3' - DiCB	4.19	UB	3.44	UB	5.25	UB	15.6	UB	K4.76	U
PCB-12/13	3,4 - DiCB	<1.64	U	<0.831	U	<1.97	U	<1.57	U	<1.96	U
PCB-14	3,5 - DiCB	<1.63	U	<0.817	U	<1.97	U	<1.57	U	<1.93	U
PCB-15	4,4' - DiCB	<1.71	U	<0.861	U	<2.15	U	3.68	3.68	<2.17	U
PCB-16	2,2',3 - TriCB	2.03	UB	1.08	UB	K1.67	U	2.04	UB	1.18	UB
PCB-17	2,2',4 - TriCB	2.13	2.13	K1.17	U	2.36	UB	4.19	UB	1.63	1.63
PCB-18/30	2,2',5 - TriCB	4.94	4.94	2.82	2.82	4.43	UB	<0.125	U	<0.0831	U
PCB-19	2,2',6 - TriCB	1.42	UB	0.686	UB	K0.920	U	K1.28	U	K1.02	U
PCB-20/28	2,3,3' - TriCB	4.77	UB	3.29	UB	4.25	UB	7.46	UB	4.46	UB
PCB-21/33	2,3,4 - TriCB	K1.86	U	K1.01	U	1.56	UB	4.43	UB	1.36	UB
PCB-22	2,3,4' - TriCB	1.47	UB	0.778	UB	1.23	UB	1.85	UB	1.11	UB
PCB-23	2,3,5 - TriCB	K0.067	U	<0.0245	U	<0.378	U	<0.163	U	<0.0923	U
PCB-24	2,3,6 - TriCB	<0.0711	U	<0.0789	U	K0.166	U	0.112	0.112	<0.0728	U
PCB-25	2,3',4 - TriCB	K0.336	U	0.225	0.225	K0.486	U	0.864	0.864	K0.338	U
PCB-26/29	2,3',5 - TriCB	0.988	UB	0.641	UB	0.964	UB	1.5	UB	0.793	UB
PCB-27	2,3',6 - TriCB	0.404	UB	0.216	UB	K0.445	U	K0.568	U	K0.391	U
PCB-31	2,4',5 - TriCB	4.08	UB	2.72	UB	4.13	UB	6.18	UB	3.15	UB
PCB-32	2,4',6 - TriCB	1.24	UB	<0.0229	U	0.761	UB	1.52	UB	K0.890	U
PCB-34	2',3,5 - TriCB	<0.0639	U	<0.0239	U	<0.379	U	<0.164	U	<0.0901	U
PCB-35	3,3',4 - TriCB	<0.0645	U	0.142	0.142	<0.383	U	K0.282	U	K0.113	U
PCB-36	3,3',5 - TriCB	<0.0605	U	<0.0231	U	<0.359	U	<0.155	U	<0.0872	U
PCB-37	3,4,4' - TriCB	K0.732	U	0.636	UB	0.972	UB	1.56	UB	K0.841	U
PCB-38	3,4,5 - TriCB	<0.0623	U	<0.0235	U	<0.370	U	<0.160	U	<0.0886	U
PCB-39	3,4',5 - TriCB	<0.0590	U	K0.029	U	<0.350	U	<0.151	U	<0.0844	U
PCB-40/41/71	2,2',3,3' - TeCB	1.5	1.5	1.39	1.39	1.85	UB	2.81	UB	1.4	1.4
PCB-42	2,2',3,4' - TeCB	0.866	UB	K0.596	U	<0.230	U	K0.349	U	K0.737	U
PCB-43	2,2',3,5 - TeCB	<0.126	U	K0.291	U	0.467	0.467	<0.179	U	K0.167	U
PCB-44/47/65	2,2',3,5' - TeCB	3.38	3.38	3.19	3.19	76	UB	223	UB	6.45	6.45
PCB-45/51	2,2',3,6 - TeCB	K0.806	U	0.87	0.87	14.6	UB	42.5	UB	K1.45	U
PCB-46	2,2',3,6' - TeCB	K0.210	U	K0.244	U	<0.259	U	K0.478	U	<0.128	U
PCB-48	2,2',4,5 - TeCB	0.707	0.707	<0.0764	U	<0.217	U	<0.156	U	K0.771	U
PCB-49/69	2,2',4,5' - TeCB	2.18	UB	<0.0674	U	<0.191	U	6.05	UB	2.32	UB
PCB-50/53	2,2',4,6 - TeCB	K1.11	U	0.612	0.612	K0.919	U	1.24	1.24	K0.697	U
PCB-52	2,2',5,5' - TeCB	K5.31	U	4.36	UB	5.36	UB	7.75	UB	4.73	UB
PCB-54	2,2',6,6' - TeCB	<0.102	U	<0.0602	U	<0.203	U	K0.235	U	K0.135	U
PCB-55	2,3,3',4 - TeCB	<0.311	U	<0.310	U	<0.490	U	<0.523	U	<0.336	U

Table C-17
Raw Data and EPA Qualification of Site Results

Location		Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay
Type		Field	Field	Field	Field	Field	Field	Field	Field	Field	Field
Depth		Surface	Surface	Surface	Surface	Deep	Deep	Deep	Deep	Surface	Surface
Collection Method		Grab	Grab	Grab	Grab	Pump/tubing	Pump/tubing	Pump/tubing	Pump/tubing	Grab	Grab
CLIENT ID		AN-01A-031217	AN-01A-031217	AN-02A-031217	AN-02A-031217	AN-02B1-031217	AN-02B1-031217	AN-02B2-031217	AN-02B2-031217	AN-03A-031217	AN-03A-031217
Axys ID		L6436-1	L6436-1	L6436-4	L6436-4	L6436-2	L6436-2	L6436-3	L6436-3	L6436-10	L6436-10
WORKGROUP		WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-56	2,3,3',4' - TeCB	K1.03	U	0.863	UB	K1.01	U	1.29	UB	1.14	UB
PCB-57	2,3,3',5' - TeCB	<0.308	U	<0.292	U	<0.484	U	<0.518	U	<0.318	U
PCB-58	2,3,3',5' - TeCB	<0.304	U	<0.296	U	<0.478	U	<0.511	U	<0.321	U
PCB-59/62/75	2,3,3',6' - TeCB	K0.155	U	K0.167	U	K0.281	U	K0.938	U	<0.0827	U
PCB-60	2,3,4,4' - TeCB	0.632	0.632	K0.666	U	<0.495	U	0.806	0.806	0.708	0.708
PCB-61/70/74/76	2,3,4,5' - TeCB	3.75	UB	3.84	UB	4.13	UB	6.16	UB	4.7	UB
PCB-63	2,3,4',5' - TeCB	<0.287	U	<0.306	U	<0.452	U	<0.483	U	<0.333	U
PCB-64	2,3,4',6' - TeCB	1.47	1.47	1.24	1.24	1.36	UB	<0.117	U	1.55	1.55
PCB-66	2,3',4,4' - TeCB	1.9	UB	2.23	UB	2.67	UB	4.09	UB	2.85	UB
PCB-67	2,3',4,5' - TeCB	<0.280	U	<0.276	U	<0.440	U	<0.471	U	<0.300	U
PCB-68	2,3',4,5' - TeCB	<0.279	U	<0.266	U	23.7	UB	48.4	UB	K0.804	U
PCB-72	2,3',5,5' - TeCB	<0.293	U	<0.278	U	<0.461	U	<0.493	U	<0.302	U
PCB-73	2,3',5',6' - TeCB	<0.0834	U	<0.0578	U	<0.165	U	<0.119	U	<0.0808	U
PCB-77	3,3',4,4' - TeCB	0.302	UB	0.368	UB	<0.458	U	<0.563	U	K0.616	U
PCB-78	3,3',4,5' - TeCB	<0.315	U	<0.312	U	<0.495	U	<0.530	U	<0.339	U
PCB-79	3,3',4,5' - TeCB	<0.273	U	<0.259	U	<0.429	U	<0.459	U	<0.282	U
PCB-80	3,3',5,5' - TeCB	<0.293	U	<0.287	U	<0.461	U	<0.493	U	<0.312	U
PCB-81	3,4,4',5' - TeCB	<0.300	U	<0.296	U	<0.459	U	<0.493	U	<0.333	U
PCB-82	2,2',3,3',4' - PeCB	<0.0682	U	0.134	0.134	<0.171	U	K0.438	U	0.363	0.363
PCB-83/99	2,2',3,3',5' - PeCB	1.16	UB	K1.15	U	1.38	UB	K1.95	U	K1.68	U
PCB-84	2,2',3,3',6' - PeCB	0.871	UB	K0.583	U	0.738	UB	1.05	UB	K0.756	U
PCB-85/116/117	2,2',3,4,4' - PeCB	K0.568	U	0.577	UB	K0.827	U	0.82	UB	0.614	UB
PCB-86/87/97/108/119/125	2,2',3,4,5' - PeCB	1.8	1.8	K1.89	U	K1.80	U	2.58	UB	2.03	2.03
PCB-88/91	2,2',3,4,6' - PeCB	0.55	0.55	0.355	UB	K0.421	U	K0.656	U	K0.504	U
PCB-89	2,2',3,4,6' - PeCB	K0.073	U	<0.0642	U	K0.289	U	<0.145	U	K0.059	U
PCB-90/101/113	2,2',3,4',5' - PeCB	2.73	UB	2.43	UB	K2.34	U	4.47	UB	3.16	UB
PCB-92	2,2',3,5,5' - PeCB	0.48	UB	K0.535	U	K0.499	U	K0.800	U	K0.710	U
PCB-93/95/98/100/102	2,2',3,5,6' - PeCB	2.4	2.4	1.88	1.88	1.84	1.84	3.38	3.38	2.35	2.35
PCB-94	2,2',3,5,6' - PeCB	<0.0631	U	<0.0619	U	<0.158	U	<0.142	U	K0.030	U
PCB-96	2,2',3,6,6' - PeCB	K0.041	U	K0.053	U	<0.0626	U	K0.065	U	K0.084	U
PCB-103	2,2',4,5',6' - PeCB	<0.0537	U	<0.0535	U	<0.135	U	<0.121	U	K0.045	U
PCB-104	2,2',4,6,6' - PeCB	K0.035	U	K0.114	U	K0.079	U	K0.112	U	K0.152	U
PCB-105	2,3,3',4,4' - PeCB	1.07	UB	1.08	UB	1.15	UB	K1.89	U	K1.49	U
PCB-106	2,3,3',4,5' - PeCB	<0.0579	U	<0.0077	U	<0.177	U	K0.054	U	K0.123	U
PCB-107/124	2,3,3',4',5' - PeCB	K0.146	U	K0.114	U	<0.187	U	K0.199	U	<0.0139	U
PCB-109	2,3,3',4,6' - PeCB	K0.246	U	<0.0070	U	<0.173	U	K0.216	U	0.201	0.201
PCB-110/115	2,3,3',4',6' - PeCB	3.04	3.04	K2.14	U	2.34	UB	K4.15	U	2.76	2.76
PCB-111	2,3,3',5,5' - PeCB	<0.0453	U	<0.0451	U	<0.114	U	<0.102	U	<0.0106	U
PCB-112	2,3,3',5,6' - PeCB	<0.0484	U	K0.069	U	<0.122	U	<0.109	U	K0.021	U
PCB-114	2,3,4,4',5' - PeCB	K0.243	U	K0.136	U	K0.197	U	K0.379	U	K0.263	U
PCB-118	2,3',4,4',5' - PeCB	2.11	UB	K2.10	U	2.61	UB	3.51	UB	2.43	UB
PCB-120	2,3',4,5,5' - PeCB	<0.0438	U	<0.0434	U	K0.238	U	<0.0987	U	<0.0102	U
PCB-121	2,3',4,5',6' - PeCB	<0.0459	U	<0.0451	U	<0.115	U	<0.103	U	<0.0106	U
PCB-122	2',3,3',4,5' - PeCB	<0.0669	U	K0.056	U	<0.205	U	K0.143	U	K0.073	U
PCB-123	2',3,4,4',5' - PeCB	K0.141	U	K0.074	U	<0.178	U	K0.166	U	K0.120	U
PCB-126	3,3',4,4',5' - PeCB	K0.106	U	K0.187	U	<0.204	U	<0.0102	U	K0.088	U

Table C-17
Raw Data and EPA Qualification of Site Results

Location		Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay
Type		Field	Field	Field	Field	Field	Field	Field	Field	Field	Field
Depth		Surface	Surface	Surface	Surface	Deep	Deep	Deep	Deep	Surface	Surface
Collection Method		Grab	Grab	Grab	Grab	Pump/tubing	Pump/tubing	Pump/tubing	Pump/tubing	Grab	Grab
CLIENT ID		AN-01A-031217	AN-01A-031217	AN-02A-031217	AN-02A-031217	AN-02B1-031217	AN-02B1-031217	AN-02B2-031217	AN-02B2-031217	AN-03A-031217	AN-03A-031217
Axys ID		L6436-1	L6436-1	L6436-4	L6436-4	L6436-2	L6436-2	L6436-3	L6436-3	L6436-10	L6436-10
WORKGROUP		WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-127	3,3',4,5,5' - PeCB	<0.0583	U	<0.0078	U	<0.178	U	K0.028	U	<0.0136	U
PCB-128/166	2,2',3,3',4,4' - HxCB	0.354	0.354	0.343	0.343	K0.373	U	K0.635	U	K0.369	U
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	2.25	UB	2.4	UB	2.22	UB	4.33	UB	2.67	UB
PCB-130	2,2',3,3',4,5' - HxCB	<0.124	U	K0.332	U	K0.253	U	K0.245	U	K0.183	U
PCB-131	2,2',3,3',4,6 - HxCB	<0.118	U	K0.108	U	<0.0105	U	<0.0155	U	K0.070	U
PCB-132	2,2',3,3',4,6' - HxCB	0.764	0.764	0.601	0.601	K0.492	U	K1.15	U	K0.634	U
PCB-133	2,2',3,3',5,5' - HxCB	<0.116	U	K0.056	U	K0.042	U	K0.074	U	<0.0152	U
PCB-134/143	2,2',3,3',5,6 - HxCB	<0.121	U	K0.067	U	<0.0109	U	K0.063	U	<0.0159	U
PCB-135/151/154	2,2',3,3',5,6' - HxCB	1.14	UB	K0.798	U	K0.899	U	1.44	UB	0.832	UB
PCB-136	2,2',3,3',6,6' - HxCB	0.338	0.338	K0.192	U	K0.232	U	0.425	0.425	K0.272	U
PCB-137	2,2',3,4,4',5 - HxCB	<0.111	U	K0.102	U	0.143	0.143	K0.129	U	K0.140	U
PCB-139/140	2,2',3,4,4',6 - HxCB	<0.111	U	K0.131	U	K0.032	U	K0.094	U	K0.064	U
PCB-141	2,2',3,4,5,5' - HxCB	0.415	0.415	0.366	0.366	K0.461	U	K1.03	U	0.181	0.181
PCB-142	2,2',3,4,5,6 - HxCB	<0.123	U	<0.0119	U	K0.013	U	0.021	0.021	<0.0163	U
PCB-144	2,2',3,4,5,6 - HxCB	K0.120	U	K0.117	U	K0.113	U	K0.107	U	K0.064	U
PCB-145	2,2',3,4,6,6' - HxCB	<0.0088	U	<0.0077	U	<0.0110	U	<0.0122	U	<0.0105	U
PCB-146	2,2',3,4',5,5' - HxCB	0.365	0.365	K0.309	U	K0.279	U	0.868	0.868	K0.605	U
PCB-147/149	2,2',3,4',5,6 - HxCB	2.05	2.05	1.55	1.55	1.7	1.7	3.28	3.28	1.83	1.83
PCB-148	2,2',3,4',5,6' - HxCB	K0.030	U	<0.0102	U	0.016	0.016	K0.038	U	K0.059	U
PCB-150	2,2',3,4',6,6' - HxCB	<0.0082	U	<0.0073	U	<0.0103	U	K0.026	U	<0.0099	U
PCB-152	2,2',3,5,6,6' - HxCB	<0.0082	U	<0.0072	U	<0.0103	U	<0.0114	U	<0.0098	U
PCB-153/168	2,2',4,4',5,5' - HxCB	2.11	UB	1.86	UB	2.19	UB	4.61	UB	2.65	UB
PCB-155	2,2',4,4',6,6' - HxCB	K0.089	U	K0.075	U	K0.141	U	K0.115	U	K0.236	U
PCB-156/157	2,3,3',4,4',5 - HxCB	0.468	0.468	K0.633	U	0.599	0.599	1.05	1.05	K0.771	U
PCB-158	2,3,3',4,4',6 - HxCB	K0.173	U	K0.209	U	K0.195	U	K0.399	U	K0.262	U
PCB-159	2,3,3',4,5,5' - HxCB	<0.0870	U	<0.0083	U	K0.034	U	<0.0115	U	K0.033	U
PCB-161	2,3,3',4,5,6 - HxCB	<0.0830	U	K0.030	U	<0.0074	U	<0.0109	U	K0.028	U
PCB-162	2,3,3',4',5,5' - HxCB	<0.0861	U	K0.013	U	K0.083	U	K0.022	U	K0.019	U
PCB-164	2,3,3',4',5',6 - HxCB	<0.0881	U	K0.221	U	K0.099	U	K0.294	U	0.199	UB
PCB-165	2,3,3',5,5',6 - HxCB	<0.0912	U	K0.028	U	<0.0082	U	<0.0120	U	K0.064	U
PCB-167	2,3',4,4',5,5' - HxCB	K0.135	U	K0.285	U	<0.0073	U	0.464	UB	K0.286	U
PCB-169	3,3',4,4',5,5' - HxCB	<0.0871	U	<0.0750	U	<0.0780	U	<0.215	U	<0.131	U
PCB-170	2,2',3,3',4,4',5 - HpCB	K0.657	U	K0.414	U	0.476	UB	K1.21	U	K0.473	U
PCB-171/173	2,2',3,3',4,4',6 - HpCB	K0.179	U	K0.156	U	K0.217	U	<0.0179	U	0.223	0.223
PCB-172	2,2',3,3',4,5,5' - HpCB	K0.127	U	K0.038	U	K0.114	U	K0.170	U	K0.117	U
PCB-174	2,2',3,3',4,5,6' - HpCB	K0.640	U	K0.405	U	<0.0147	U	1.08	UB	K0.626	U
PCB-175	2,2',3,3',4,5',6 - HpCB	K0.031	U	<0.0120	U	K0.109	U	K0.017	U	K0.017	U
PCB-176	2,2',3,3',4,6,6' - HpCB	K0.098	U	K0.062	U	K0.112	U	K0.063	U	<0.0105	U
PCB-177	2,2',3,3',4',5,6 - HpCB	K0.437	U	K0.282	U	0.474	0.474	0.604	0.604	K0.490	U
PCB-178	2,2',3,3',5,5',6 - HpCB	0.142	0.142	K0.190	U	K0.052	U	0.395	0.395	K0.137	U
PCB-179	2,2',3,3',5,6,6' - HpCB	0.384	0.384	<0.0089	U	<0.0106	U	0.425	0.425	K0.257	U
PCB-180/193	2,2',3,4,4',5,5' - HpCB	1.39	UB	K1.06	U	K1.23	U	K2.32	U	1.11	UB
PCB-181	2,2',3,4,4',5,6 - HpCB	<0.0093	U	K0.070	U	K26.2	U	K0.245	U	<0.0141	U
PCB-182	2,2',3,4,4',5,6' - HpCB	K0.098	U	K0.095	U	K0.073	U	<0.0165	U	K0.067	U
PCB-183/185	2,2',3,4,4',5',6 - HpCB	K0.431	U	K0.241	U	K0.434	U	0.918	0.918	K0.449	U
PCB-184	2,2',3,4,4',6,6' - HpCB	K0.033	U	K0.061	U	K0.061	U	K0.047	U	K0.013	U

**Table C-17
Raw Data and EPA Qualification of Site Results**

Location	PCB ID	Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay	
Type		Field	Field	Field	Field	Field	Field	Field	Field	Field	Field	
Depth		Surface	Surface	Surface	Surface	Deep	Deep	Deep	Deep	Surface	Surface	
Collection Method		Grab	Grab	Grab	Grab	Pump/tubing	Pump/tubing	Pump/tubing	Pump/tubing	Grab	Grab	
CLIENT ID		AN-01A-031217	AN-01A-031217	AN-02A-031217	AN-02A-031217	AN-02B1-031217	AN-02B1-031217	AN-02B2-031217	AN-02B2-031217	AN-03A-031217	AN-03A-031217	
Axys ID		L6436-1	L6436-1	L6436-4	L6436-4	L6436-2	L6436-2	L6436-3	L6436-3	L6436-10	L6436-10	
WORKGROUP		WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	
UNITS		pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	
PCB-186		2,2',3,4,5,6,6' - HpCB	<0.0071	U	<0.0093	U	K0.027	U	<0.0124	U	0.015	0.015
PCB-187		2,2',3,4',5,5',6 - HpCB	1.01	1.01	K0.685	U	K0.863	U	1.5	1.5	K1.10	U
PCB-188	2,2',3,4',5,6,6' - HpCB	<0.0070	U	K0.042	U	K0.080	U	K0.096	U	K0.059	U	
PCB-189	2,3,3',4,4',5,5' - HpCB	K0.103	U	K0.175	U	K0.100	U	K0.201	U	K0.174	U	
PCB-190	2,3,3',4,4',5,6 - HpCB	K0.055	U	0.216	0.216	K0.136	U	K0.276	U	K0.108	U	
PCB-191	2,3,3',4,4',5,6 - HpCB	K0.068	U	K0.041	U	K0.048	U	K0.041	U	K0.022	U	
PCB-192	2,3,3',4,5,5',6 - HpCB	<0.0081	U	<0.0108	U	<0.0126	U	<0.0142	U	<0.0123	U	
PCB-194	2,2',3,3',4,4',5,5' - OcCB	K0.360	U	K0.258	U	K0.224	U	K0.328	U	K0.163	U	
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K0.133	U	K0.157	U	K0.043	U	K0.172	U	K0.018	U	
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K0.144	U	0.052	0.052	K0.204	U	K0.207	U	<0.0205	U	
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K0.033	U	K0.022	U	<0.0138	U	<0.0138	U	K0.038	U	
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	K0.320	U	K0.340	U	K0.207	U	0.508	UB	0.268	0.268	
PCB-201	2,2',3,3',4,5,6,6' - OcCB	0.064	0.064	K0.032	U	K0.090	U	K0.095	U	K0.081	U	
PCB-202	2,2',3,3',5,5',6,6' - OcCB	K0.225	U	K0.069	U	K0.108	U	0.179	UB	K0.266	U	
PCB-203	2,2',3,4,4',5,5',6 - OcCB	K0.161	U	K0.163	U	<0.0177	U	K0.279	U	<0.0189	U	
PCB-204	2,2',3,4,4',5,6,6' - OcCB	<0.0086	U	<0.0125	U	<0.0140	U	K0.071	U	K0.040	U	
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K0.054	U	K0.086	U	K0.061	U	K0.082	U	0.159	UB	
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	<0.723	U	<0.836	U	<0.923	U	<1.11	U	<0.863	U	
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<0.579	U	<0.650	U	<0.720	U	<0.852	U	<0.669	U	
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<0.625	U	<0.702	U	<0.758	U	<0.889	U	<0.721	U	
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	K0.514	U	K0.497	U	0.276	UB	K0.592	U	K0.488	U	
Total Monochloro Biphenyls		1.26	0.00	0.473	0.00	<0.277	0.00	15.9	10.10	2.71	0.00	
Total Dichloro Biphenyls		6.86	0.00	6.5	0.00	19.5	0.00	37.3	3.68	4.9	0.00	
Total Trichloro Biphenyls		23.5	7.07	13.2	3.19	20.7	0.00	31.7	0.98	13.7	1.63	
Total Tetrachloro Biphenyls		16.7	7.69	19	7.30	130	0.47	344	2.05	25.8	10.11	
Total Pentachloro Biphenyls		16.2	7.79	6.46	2.01	10.1	1.84	15.8	3.38	13.9	7.70	
Total Hexachloro Biphenyls		10.2	4.75	7.12	2.86	6.88	2.46	16.5	5.64	8.36	2.01	
Total Heptachloro Biphenyls		2.92	1.54	0.216	0.22	0.95	0.47	4.92	3.84	1.35	0.24	
Total Octachloro Biphenyls		0.064	0.06	0.052	0.05	<0.0190	0.00	0.687	0.00	0.427	0.27	
Total Nonachloro Biphenyls		<0.723	0.00	<0.836	0.00	<0.923	0.00	<1.11	0.00	<0.863	0.00	
Decachloro Biphenyl		<0.0111	0.00	<0.0128	0.00	0.276	0.00	<0.0164	0.00	<0.0158	0.00	
TOTAL PCBs		77.7	28.90	53	15.63	188	5.24	467	29.67	71.2	21.96	

* Corrected for the average of the trip blank and the associated method blank

** Corrected for the average of the equipment blank and the tubing proof

U = not detected

UB = detected result was less than the associated blank

< = less than detection limit

K = not detected due to mass spectral match

Table C-17
Raw Data and EPA Qualification of Site Results

Location		Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay				
Type		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate				
Depth		Surface	Surface	Surface	Surface	Deep	Deep				
Collection Method		Grab	Grab	Pump	Pump	Pump	Pump				
CLIENT ID		AN-53A-031217	AN-53A-031217	AN-03AP-031217	AN-03AP-031217	AN-03B-031217	AN-03B-031217	Tubing Proof	AN-03EB-031217	AN-03TB-031217	LAB BLANK
Axys ID		L6436-12	L6436-12	L6436-11	L6436-11	L6436-9	L6436-9	L6395-2	L6436-14	L6436-13	WG11035-101
WORKGROUP		WG11030	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11030	WG11030	WG11030	WG11035
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-1	2 - MoCB	0.505	UB	0.55	UB	3.26	UB	1.03	0.742	1.31	K0.372
PCB-2	3 - MoCB	K0.460	U	K0.577	U	K2.69	U	K0.708	0.531	K0.575	0.373
PCB-3	4 - MoCB	K0.973	U	K1.44	U	K4.02	U	K1.60	1.16	1.2	0.667
PCB-4	2,2' - DiCB	K2.16	U	K2.13	U	2.72	UB	<3.14	<2.05	3.21	<2.33
PCB-5	2,3 - DiCB	<1.19	U	<1.71	U	<1.42	U	<2.37	<1.51	<1.03	<1.71
PCB-6	2,3' - DiCB	<1.12	U	<1.64	U	<1.36	U	<2.23	<1.42	K1.79	<1.61
PCB-7	2,4 - DiCB	<1.10	U	12.7	UB	5.61	UB	<2.20	13.1	8.52	<1.59
PCB-8	2,4' - DiCB	<1.07	U	2.49	UB	2.63	UB	K2.46	K2.92	5.08	<1.55
PCB-9	2,5 - DiCB	<1.08	U	<1.60	U	<1.33	U	<2.16	<1.37	<0.943	<1.57
PCB-10	2,6 - DiCB	<1.18	U	<1.69	U	<1.40	U	<2.36	<1.50	<1.03	<1.67
PCB-11	3,3' - DiCB	5.16	UB	6.02	UB	K8.11	U	K9.01	5.46	5.51	K2.38
PCB-12/13	3,4 - DiCB	<1.12	U	<1.72	U	<1.43	U	<2.23	<1.42	<0.972	<1.64
PCB-14	3,5 - DiCB	<1.14	U	<1.69	U	<1.40	U	<2.28	<1.45	<0.993	<1.64
PCB-15	4,4' - DiCB	<1.12	U	<1.91	U	K1.91	U	<2.27	<1.42	<1.03	<1.68
PCB-16	2,2',3 - TriCB	K1.07	U	K1.96	U	1.93	UB	0.807	0.805	1.19	0.75
PCB-17	2,2',4 - TriCB	1.39	1.39	2.41	UB	2.13	UB	1.4	K1.47	K1.37	K0.711
PCB-18/30	2,2',5 - TriCB	<0.106	U	4.98	UB	<0.0510	U	K1.64	2.4	<0.0756	K1.42
PCB-19	2,2',6 - TriCB	K0.809	U	K1.07	U	1.27	UB	K0.418	K0.358	0.667	K0.271
PCB-20/28	2,3,3' - TriCB	4.14	UB	4.43	UB	5.61	UB	2.56	2.73	1.8	1.22
PCB-21/33	2,3,4 - TriCB	1.42	UB	2	UB	2.15	UB	K1.28	2.22	0.99	0.63
PCB-22	2,3,4' - TriCB	K1.15	U	1.22	UB	1.7	UB	0.913	0.872	0.532	0.519
PCB-23	2,3,5 - TriCB	<0.0910	U	K0.111	U	0.117	0.117	<0.116	<0.151	<0.0790	<0.141
PCB-24	2,3,6 - TriCB	<0.0984	U	<0.0988	U	<0.0447	U	<0.115	<0.0883	<0.0705	<0.0797
PCB-25	2,3',4 - TriCB	0.314	0.314	K0.524	U	0.45	0.45	K0.326	K0.387	<0.0693	K0.130
PCB-26/29	2,3',5 - TriCB	K0.722	U	1.07	UB	1.17	UB	0.501	0.453	K0.338	0.289
PCB-27	2,3',6 - TriCB	K0.307	U	K0.503	U	K0.412	U	0.173	K0.145	0.197	K0.091
PCB-31	2,4',5 - TriCB	3.4	UB	K3.85	U	4.85	UB	2.1	2.48	1.46	K1.09
PCB-32	2,4',6 - TriCB	0.938	UB	K1.25	U	K1.07	U	K0.547	K0.695	0.666	0.404
PCB-34	2',3,5 - TriCB	K0.098	U	K0.062	U	K0.113	U	<0.115	<0.149	<0.0782	<0.141
PCB-35	3,3',4 - TriCB	K0.208	U	K0.090	U	K0.111	U	<0.118	<0.154	K0.197	<0.143
PCB-36	3,3',5 - TriCB	<0.0873	U	<0.0497	U	<0.0668	U	<0.111	<0.145	<0.0757	<0.134
PCB-37	3,4,4' - TriCB	1.03	UB	0.987	UB	1.16	UB	K0.478	K0.607	1.02	K0.362
PCB-38	3,4,5 - TriCB	<0.0906	U	K0.053	U	K0.068	U	<0.115	<0.150	<0.0785	<0.138
PCB-39	3,4',5 - TriCB	<0.0844	U	<0.0481	U	<0.0646	U	<0.107	<0.140	<0.0732	<0.130
PCB-40/41/71	2,2',3,3' - TeCB	1.68	1.68	1.17	UB	1.77	UB	K0.716	0.686	K0.139	K0.379
PCB-42	2,2',3,4' - TeCB	K0.127	U	0.906	UB	1.05	UB	K0.415	0.514	0.2	K0.174
PCB-43	2,2',3,5 - TeCB	<0.0987	U	<0.181	U	<0.126	U	<0.226	<0.208	<0.111	<0.167
PCB-44/47/65	2,2',3,5' - TeCB	4.21	4.21	51.9	UB	22.3	UB	11.2	55.1	K1.65	K1.30
PCB-45/51	2,2',3,6 - TeCB	K0.882	U	11.4	UB	5.05	UB	K6.00	24.6	<0.0931	<0.145
PCB-46	2,2',3,6' - TeCB	K0.364	U	K0.238	U	0.247	0.247	<0.225	<0.207	<0.110	<0.173
PCB-48	2,2',4,5 - TeCB	<0.0821	U	<0.154	U	0.84	0.84	<0.188	<0.173	<0.0920	<0.146
PCB-49/69	2,2',4,5' - TeCB	2.4	UB	2.59	UB	2.5	UB	1.23	<0.153	0.68	K0.486
PCB-50/53	2,2',4,6 - TeCB	K0.723	U	0.883	0.883	0.933	0.933	K0.249	K0.569	K0.404	K0.177
PCB-52	2,2',5,5' - TeCB	5.27	UB	K4.81	U	5.16	UB	3.02	K2.65	2.1	1.21
PCB-54	2,2',6,6' - TeCB	K0.086	U	<0.142	U	K0.228	U	0.158	<0.141	<0.0683	<0.127
PCB-55	2,3,3',4 - TeCB	<0.259	U	<0.483	U	<0.231	U	<0.638	<0.321	<0.231	<0.310

Table C-17
Raw Data and EPA Qualification of Site Results

Location		Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay				
Type		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate				
Depth		Surface	Surface	Surface	Surface	Deep	Deep				
Collection Method		Grab	Grab	Pump	Pump	Pump	Pump				
CLIENT ID		AN-53A-031217	AN-53A-031217	AN-03AP-031217	AN-03AP-031217	AN-03B-031217	AN-03B-031217	Tubing Proof	AN-03EB-031217	AN-03TB-031217	LAB BLANK
Axys ID		L6436-12	L6436-12	L6436-11	L6436-11	L6436-9	L6436-9	L6395-2	L6436-14	L6436-13	WG11035-101
WORKGROUP		WG11030	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11030	WG11030	WG11030	WG11035
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-56	2,3,3',4' - TeCB	1.26	UB	K0.883	U	1.58	UB	<0.640	<0.322	0.458	<0.319
PCB-57	2,3,3',5' - TeCB	<0.255	U	<0.457	U	<0.218	U	<0.626	<0.315	<0.227	<0.307
PCB-58	2,3,3',5' - TeCB	<0.255	U	<0.462	U	<0.221	U	<0.627	<0.316	<0.227	<0.303
PCB-59/62/75	2,3,3',6' - TeCB	K0.263	U	K0.197	U	K0.300	U	<0.145	<0.134	<0.0712	<0.112
PCB-60	2,3,4,4' - TeCB	K0.689	U	0.598	0.598	K0.668	U	<0.635	<0.320	K0.400	<0.313
PCB-61/70/74/76	2,3,4,5' - TeCB	K5.32	U	4.94	UB	4.87	UB	K2.57	K1.83	2.8	1.09
PCB-63	2,3,4',5' - TeCB	<0.243	U	<0.478	U	<0.229	U	<0.597	<0.301	<0.216	<0.286
PCB-64	2,3,4',6' - TeCB	K1.59	U	1.35	UB	1.51	UB	<0.142	0.649	K0.466	<0.109
PCB-66	2,3',4,4' - TeCB	3.1	UB	2.59	UB	K2.72	U	K1.30	K1.20	1.03	K0.565
PCB-67	2,3',4,5' - TeCB	<0.232	U	<0.431	U	<0.206	U	<0.572	<0.288	<0.207	<0.279
PCB-68	2,3',4,5' - TeCB	<0.238	U	17.7	UB	4.11	UB	2.63	21.1	<0.213	<0.278
PCB-72	2,3',5,5' - TeCB	<0.245	U	<0.433	U	<0.207	U	<0.602	<0.303	<0.218	<0.292
PCB-73	2,3',5',6' - TeCB	<0.0627	U	<0.116	U	<0.0809	U	<0.143	<0.132	<0.0702	<0.111
PCB-77	3,3',4,4' - TeCB	K0.538	U	<0.426	U	K0.394	U	<0.618	<0.306	3.22	K0.509
PCB-78	3,3',4,5' - TeCB	<0.265	U	<0.488	U	<0.233	U	<0.651	<0.328	<0.236	<0.314
PCB-79	3,3',4,5' - TeCB	<0.228	U	<0.405	U	<0.194	U	<0.560	<0.282	<0.203	<0.272
PCB-80	3,3',5,5' - TeCB	<0.239	U	<0.448	U	<0.214	U	<0.588	<0.296	<0.213	<0.292
PCB-81	3,4,4',5' - TeCB	<0.243	U	<0.444	U	<0.214	U	<0.602	<0.302	<0.228	<0.303
PCB-82	2,2',3,3',4' - PeCB	0.404	0.404	0.211	0.211	K0.357	U	<0.137	<0.114	K0.338	<0.0782
PCB-83/99	2,2',3,3',5' - PeCB	1.53	UB	1.18	UB	1.59	UB	0.549	K0.638	1.37	K0.362
PCB-84	2,2',3,3',6' - PeCB	K0.763	U	K0.803	U	K0.811	U	<0.136	<0.113	0.419	K0.105
PCB-85/116/117	2,2',3,4,4' - PeCB	0.571	UB	K0.543	U	0.509	UB	K0.204	K0.285	0.52	<0.0589
PCB-86/87/97/108/119/125	2,2',3,4,5' - PeCB	2.67	2.67	K1.61	U	1.76	UB	0.649	0.613	K2.12	K0.584
PCB-88/91	2,2',3,4,6' - PeCB	0.45	UB	K0.412	U	K0.424	U	<0.118	0.145	K0.302	0.104
PCB-89	2,2',3,4,6' - PeCB	<0.122	U	<0.0750	U	<0.0573	U	<0.125	<0.104	<0.0826	<0.0740
PCB-90/101/113	2,2',3,4,5' - PeCB	2.88	UB	K2.47	U	K2.65	U	K1.06	0.913	3.39	0.559
PCB-92	2,2',3,5,5' - PeCB	K0.423	U	K0.570	U	K0.373	U	K0.258	<0.101	0.48	<0.0709
PCB-93/95/98/100/102	2,2',3,5,6' - PeCB	2.28	2.28	1.91	1.91	K2.37	U	K1.01	K0.819	K0.887	<0.0667
PCB-94	2,2',3,5,6' - PeCB	<0.123	U	<0.0723	U	K0.062	U	<0.126	<0.105	<0.0829	<0.0723
PCB-96	2,2',3,6,6' - PeCB	K0.026	U	K0.059	U	K0.040	U	K0.050	K0.019	K0.018	K0.061
PCB-103	2,2',4,5,6' - PeCB	<0.104	U	<0.0625	U	<0.0478	U	<0.106	<0.0883	<0.0700	<0.0616
PCB-104	2,2',4,6,6' - PeCB	K0.062	U	K0.035	U	K0.173	U	K0.136	K0.080	K0.033	K0.110
PCB-105	2,3,3',4,4' - PeCB	1.02	UB	K1.08	U	0.977	UB	0.84	K0.426	K1.12	0.479
PCB-106	2,3,3',4,5' - PeCB	<0.0757	U	<0.0727	U	<0.0092	U	<0.0878	<0.0968	<0.0620	<0.0839
PCB-107/124	2,3,3',4,5' - PeCB	K0.238	U	K0.142	U	K0.128	U	K0.254	<0.106	K0.223	K0.089
PCB-109	2,3,3',4,6' - PeCB	K0.264	U	0.153	0.153	K0.204	U	K0.230	<0.0996	K0.343	<0.0817
PCB-110/115	2,3,3',4,6' - PeCB	3.36	3.36	2.23	UB	2.51	UB	1.25	0.804	K2.98	0.406
PCB-111	2,3,3',5,5' - PeCB	<0.0869	U	<0.0527	U	<0.0403	U	<0.0893	<0.0742	<0.0589	<0.0519
PCB-112	2,3,3',5,6' - PeCB	<0.0919	U	<0.0514	U	<0.0393	U	K0.214	<0.0784	<0.0622	<0.0555
PCB-114	2,3,4,4,5' - PeCB	<0.0827	U	K0.239	U	K0.162	U	K0.392	<0.104	<0.0676	K0.189
PCB-118	2,3',4,4,5' - PeCB	K2.99	U	2.15	UB	1.97	UB	K1.66	K1.07	3.06	K1.05
PCB-120	2,3',4,5,5' - PeCB	<0.0862	U	<0.0507	U	<0.0387	U	<0.0886	<0.0736	<0.0584	<0.0503
PCB-121	2,3',4,5,6' - PeCB	<0.0864	U	<0.0527	U	<0.0403	U	<0.0887	<0.0737	<0.0585	<0.0526
PCB-122	2',3,3',4,5' - PeCB	<0.0855	U	K0.159	U	<0.0100	U	<0.0991	<0.109	<0.0700	<0.0969
PCB-123	2',3,4,4,5' - PeCB	K0.144	U	K0.089	U	K0.099	U	K0.120	<0.111	<0.0722	K0.208
PCB-126	3,3',4,4,5' - PeCB	<0.0916	U	<0.0807	U	<0.0093	U	K0.519	K0.121	K0.488	K0.303

Table C-17
Raw Data and EPA Qualification of Site Results

Location		Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay				
Type		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate				
Depth		Surface	Surface	Surface	Surface	Deep	Deep				
Collection Method		Grab	Grab	Pump	Pump	Pump	Pump				
CLIENT ID		AN-53A-031217	AN-53A-031217	AN-03AP-031217	AN-03AP-031217	AN-03B-031217	AN-03B-031217	Tubing Proof	AN-03EB-031217	AN-03TB-031217	LAB BLANK
Axys ID		L6436-12	L6436-12	L6436-11	L6436-11	L6436-9	L6436-9	L6395-2	L6436-14	L6436-13	WG11035-101
WORKGROUP		WG11030	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11030	WG11030	WG11030	WG11035
UNITS	PCB ID	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-127	3,3',4,5,5' - PeCB	<0.0792	U	<0.0732	U	K0.019	U	<0.0918	<0.101	K0.094	<0.0843
PCB-128/166	2,2',3,3',4,4' - HxCB	K0.310	U	K0.394	U	0.455	0.455	K0.134	K0.122	K0.319	0.055
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	2.73	UB	K2.48	U	2.14	UB	K1.14	0.509	2.54	K0.361
PCB-130	2,2',3,3',4,5' - HxCB	K0.125	U	0.069	0.069	K0.105	U	<0.0812	K0.066	K0.195	K0.078
PCB-131	2,2',3,3',4,6 - HxCB	<0.104	U	<0.0121	U	<0.0725	U	<0.0789	0.028	K0.084	<0.0102
PCB-132	2,2',3,3',4,6' - HxCB	0.877	0.877	<0.0125	U	K0.587	U	K0.360	K0.288	K0.622	K0.064
PCB-133	2,2',3,3',5,5' - HxCB	<0.0997	U	K0.027	U	<0.0717	U	<0.0756	K0.043	<0.0079	K0.027
PCB-134/143	2,2',3,3',5,6 - HxCB	<0.104	U	<0.0124	U	<0.0747	U	<0.0787	K0.031	<0.0082	K0.020
PCB-135/151/154	2,2',3,3',5,6' - HxCB	K0.841	U	0.728	UB	0.987	UB	K0.033	K0.274	0.538	0.205
PCB-136	2,2',3,3',6,6' - HxCB	<0.0087	U	K0.257	U	K0.215	U	<0.0126	<0.0086	<0.0085	<0.0077
PCB-137	2,2',3,4,4',5 - HxCB	<0.101	U	K0.299	U	<0.0677	U	<0.0762	K0.118	K0.257	K0.057
PCB-139/140	2,2',3,4,4',6 - HxCB	<0.0945	U	K0.103	U	<0.0674	U	K0.131	K0.071	K0.051	K0.069
PCB-141	2,2',3,4,5,5' - HxCB	0.394	0.394	K0.455	U	0.416	0.416	K0.119	K0.119	K0.544	K0.120
PCB-142	2,2',3,4,5,6 - HxCB	<0.105	U	K0.052	U	<0.0768	U	K0.121	<0.0111	K0.013	<0.0106
PCB-144	2,2',3,4,5',6 - HxCB	K0.151	U	0.085	0.085	K0.058	U	<0.0172	K0.053	K0.081	<0.0101
PCB-145	2,2',3,4,6,6' - HxCB	<0.0092	U	K0.010	U	<0.0090	U	<0.0133	K0.009	K0.011	K0.027
PCB-146	2,2',3,4',5,5' - HxCB	K0.519	U	0.392	UB	K0.419	U	K0.193	0.128	K0.507	<0.0086
PCB-147/149	2,2',3,4',5,6 - HxCB	1.71	1.71	K1.91	U	K1.49	U	K0.855	K0.562	K1.49	K0.334
PCB-148	2,2',3,4',5,6' - HxCB	K0.030	U	<0.0125	U	<0.0119	U	<0.0178	<0.0121	<0.0120	K0.017
PCB-150	2,2',3,4',6,6' - HxCB	<0.0085	U	K0.015	U	<0.0085	U	<0.0122	K0.012	<0.0083	K0.014
PCB-152	2,2',3,5,6,6' - HxCB	<0.0086	U	<0.0088	U	K0.039	U	<0.0124	<0.0084	<0.0084	<0.0074
PCB-153/168	2,2',4,4',5,5' - HxCB	2.47	UB	2.35	UB	2.05	UB	1.32	0.672	2.59	K0.431
PCB-155	2,2',4,4',6,6' - HxCB	<0.0076	U	K0.081	U	K0.133	U	K0.226	K0.062	K0.199	K0.088
PCB-156/157	2,3,3',4,4',5 - HxCB	K0.695	U	K0.451	U	K0.734	U	K0.855	K0.342	K0.629	K0.866
PCB-158	2,3,3',4,4',6 - HxCB	K0.340	U	0.246	0.246	0.224	0.224	K0.138	K0.067	K0.254	<0.0070
PCB-159	2,3,3',4,5,5' - HxCB	K0.129	U	K0.068	U	K0.098	U	<0.0561	<0.0079	K0.017	K0.021
PCB-161	2,3,3',4,5',6 - HxCB	<0.0727	U	K0.048	U	<0.0500	U	<0.0551	<0.0077	K0.008	<0.0071
PCB-162	2,3,3',4',5,5' - HxCB	<0.0730	U	K0.017	U	<0.0528	U	<0.0553	<0.0077	<0.0058	K0.075
PCB-164	2,3,3',4',5',6 - HxCB	<0.0737	U	<0.0094	U	K0.092	U	<0.0559	0.032	0.175	K0.009
PCB-165	2,3,3',5,5',6 - HxCB	<0.0797	U	<0.0095	U	<0.0571	U	<0.0604	K0.037	K0.016	K0.024
PCB-167	2,3',4,4',5,5' - HxCB	K0.354	U	K0.124	U	K0.318	U	K0.429	K0.272	0.427	K0.431
PCB-169	3,3',4,4',5,5' - HxCB	<0.130	U	<0.130	U	<0.0990	U	K0.415	<0.0880	<0.105	<0.258
PCB-170	2,2',3,3',4,4',5 - HpCB	K0.851	U	K0.417	U	K0.592	U	0.352	K0.269	K0.194	K0.256
PCB-171/173	2,2',3,3',4,4',6 - HpCB	K0.196	U	<0.0111	U	K0.135	U	K0.045	K0.102	K0.116	K0.142
PCB-172	2,2',3,3',4,5,5' - HpCB	K0.136	U	K0.066	U	K0.138	U	K0.099	K0.038	K0.083	<0.0103
PCB-174	2,2',3,3',4,5,6' - HpCB	K0.667	U	0.505	UB	<0.0122	U	0.265	<0.0119	K0.115	<0.0096
PCB-175	2,2',3,3',4,5',6 - HpCB	K0.017	U	K0.052	U	K0.038	U	K0.063	K0.018	<0.0105	K0.046
PCB-176	2,2',3,3',4,6,6' - HpCB	<0.0088	U	<0.0076	U	K0.085	U	K0.059	K0.036	K0.049	K0.018
PCB-177	2,2',3,3',4',5,6 - HpCB	0.487	0.487	<0.0110	U	K0.205	U	K0.175	K0.127	K0.159	K0.072
PCB-178	2,2',3,3',5,5',6 - HpCB	0.229	0.229	K0.155	U	K0.112	U	K0.096	K0.068	K0.115	<0.0095
PCB-179	2,2',3,3',5,6,6' - HpCB	0.313	0.313	K0.218	U	<0.0086	U	<0.0117	K0.090	<0.0080	K0.066
PCB-180/193	2,2',3,4,4',5,5' - HpCB	1.85	1.85	1.33	UB	1.35	UB	0.715	<0.0100	K0.610	0.364
PCB-181	2,2',3,4,4',5,6 - HpCB	<0.0118	U	K0.066	U	K0.189	U	K0.337	K2.14	K0.075	K0.435
PCB-182	2,2',3,4,4',5,6' - HpCB	<0.0119	U	<0.0102	U	K0.095	U	K0.036	K0.016	K0.034	K0.154
PCB-183/185	2,2',3,4,4',5',6 - HpCB	0.565	0.565	K0.221	U	<0.0115	U	K0.063	K0.124	K0.135	<0.0094
PCB-184	2,2',3,4,4',6,6' - HpCB	K0.025	U	<0.0070	U	K0.026	U	K0.012	<0.0080	K0.055	<0.0065

**Table C-17
Raw Data and EPA Qualification of Site Results**

Location	PCB ID	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay	Dam Forebay					
Type		Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate	Field Duplicate					
Depth		Surface	Surface	Surface	Surface	Deep	Deep					
Collection Method		Grab	Grab	Pump	Pump	Pump	Pump					
CLIENT ID		AN-53A-031217	AN-53A-031217	AN-03AP-031217	AN-03AP-031217	AN-03B-031217	AN-03B-031217	Tubing Proof	AN-03EB-031217	AN-03TB-031217	LAB BLANK	
Axys ID		L6436-12	L6436-12	L6436-11	L6436-11	L6436-9	L6436-9	L6395-2	L6436-14	L6436-13	WG11035-101	
WORKGROUP		WG11030	EPA Qualified*	WG11035	EPA Qualified*	WG11035	EPA Qualified*	WG11030	WG11030	WG11030	WG11035	
UNITS		pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	
PCB-186		2,2',3,4,5,6,6' - HpCB	<0.0090	U	<0.0077	U	<0.0090	U	<0.0119	<0.0087	K0.029	<0.0072
PCB-187		2,2',3,4',5,5',6 - HpCB	K1.29	U	K0.911	U	K0.875	U	K0.553	K0.238	K0.268	K0.271
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.029	U	K0.064	U	K0.095	U	K0.232	K0.059	K0.042	<0.0070	
PCB-189	2,3,3',4,4',5,5' - HpCB	K0.123	U	K0.100	U	K0.135	U	K0.311	K0.185	<0.0860	K0.165	
PCB-190	2,3,3',4,4',5,6 - HpCB	0.206	0.206	K0.034	U	0.169	0.169	K0.016	K0.064	K0.043	K0.139	
PCB-191	2,3,3',4,4',5',6 - HpCB	0.096	0.096	<0.0085	U	<0.0099	U	K0.044	K0.059	K0.066	K0.030	
PCB-192	2,3,3',4,5,5',6 - HpCB	K0.032	U	<0.0089	U	<0.0104	U	K0.014	<0.0098	<0.0093	K0.028	
PCB-194	2,2',3,3',4,4',5,5' - OcCB	K0.550	U	K0.258	U	K0.201	U	K0.179	<0.0134	K0.062	K0.154	
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K0.149	U	<0.0125	U	K0.094	U	K0.035	<0.0158	<0.0107	0.029	
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K0.176	U	K0.115	U	K0.262	U	K0.080	K0.062	K0.091	K0.044	
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	0.139	0.139	K0.059	U	K0.056	U	<0.0134	<0.0115	<0.0101	<0.0105	
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	K0.599	U	K0.595	U	K0.319	U	0.144	K0.032	<0.0139	K0.163	
PCB-201	2,2',3,3',4,5',6,6' - OcCB	0.164	0.164	K0.053	U	<0.0111	U	K0.059	<0.0114	<0.0101	K0.045	
PCB-202	2,2',3,3',5,5',6,6' - OcCB	K0.208	U	K0.229	U	K0.145	U	K0.217	<0.0120	0.126	K0.057	
PCB-203	2,2',3,4,4',5,5',6 - OcCB	0.438	0.438	K0.251	U	K0.310	U	K0.042	K0.050	K0.036	K0.028	
PCB-204	2,2',3,4,4',5,6,6' - OcCB	<0.0093	U	<0.0133	U	<0.0114	U	0.051	<0.0117	K6.50	K0.030	
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K0.029	U	K0.062	U	<0.0088	U	K0.147	K0.058	<0.0084	0.181	
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	<0.832	U	<1.05	U	<0.943	U	<1.35	<1.10	<0.712	<0.951	
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<0.659	U	<0.815	U	<0.726	U	<1.07	<0.852	<0.567	<0.754	
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<0.700	U	<0.876	U	<0.778	U	<1.14	<0.889	<0.604	<0.807	
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	K0.453	U	K0.426	U	K0.561	U	K0.596	0.445	K0.392	K0.395	
Total Monochloro Biphenyls		0.505	0.00	0.55	0.00	3.26	0.00	1.03	2.43	2.52	1.04	
Total Dichloro Biphenyls		5.16	0.00	21.2	0.00	11	0.00	<3.14	18.5	22.3	<2.33	
Total Trichloro Biphenyls		12.6	1.70	17.1	0.00	22.5	0.57	8.46	12	8.51	3.81	
Total Tetrachloro Biphenyls		17.9	5.89	96	1.48	51.9	2.02	18.2	103	10.5	2.31	
Total Pentachloro Biphenyls		15.2	8.71	7.83	2.27	9.31	0.00	3.29	2.48	9.23	1.55	
Total Hexachloro Biphenyls		8.18	2.98	3.87	0.40	6.27	1.10	1.32	1.37	6.27	0.26	
Total Heptachloro Biphenyls		3.75	3.75	1.84	0.00	1.52	0.17	1.33	<0.0136	<0.0860	0.364	
Total Octachloro Biphenyls		0.741	0.74	<0.0178	0.00	<0.0152	0.00	0.195	<0.0158	0.126	0.21	
Total Nonachloro Biphenyls		<0.832	0.00	<1.05	0.00	<0.943	0.00	<1.35	<1.10	<0.712	<0.951	
Decachloro Biphenyl		<0.0133	0.00	<0.0157	0.00	<0.0157	0.00	<0.0153	0.445	<0.0097	<0.0147	
TOTAL PCBs		64	23.78	148	4.16	106	3.85	33.9	140	59.5	9.54	

* Corrected for the average of the trip blank and the associated method blank

** Corrected for the average of the equipment blank and the tubing proof

U = not detected

UB = detected result was less than the associated blank

< = less than detection limit

K = not detected due to mass spectral match

Table C-17
Raw Data and EPA Qualification of Site Results

Location									
Type									
Depth									
Collection Method									
CLIENT ID			AN-03TB-031217	LAB BLANK		LAB BLANK		SPIKED MATRIX	SPIKED MATRIX
Axys ID		5x Max of	L6436-13	WG11035-101	5x Max of	WG11030-101	5x Max of	WG11030-102	WG11035-102
WORKGROUP		-2,-14,-13 and-101	WG11030	WG11035	-13 and -101	WG11030	-13 and -101a	WG11030	WG11035
UNITS	PCB ID		pg/L	pg/L	pg/L	pg/L		% REC	% REC
PCB-1	2 - MoCB	6.55	1.31	K0.372	6.55	0.949	6.55	92.5	97
PCB-2	3 - MoCB	2.655	K0.575	0.373	1.865	K0.769	0		
PCB-3	4 - MoCB	6	1.2	0.667	6	K1.38	6	90.2	94.8
PCB-4	2,2' - DiCB	16.05	3.21	<2.33	16.05	<1.24	16.05	91	97.5
PCB-5	2,3 - DiCB	0	<1.03	<1.71	0	<1.07	0		
PCB-6	2,3' - DiCB	0	K1.79	<1.61	0	<1.01	0		
PCB-7	2,4 - DiCB	65.5	8.52	<1.59	42.6	4.92	42.6		
PCB-8	2,4' - DiCB	25.4	5.08	<1.55	25.4	K2.49	25.4		
PCB-9	2,5 - DiCB	0	<0.943	<1.57	0	<0.977	0		
PCB-10	2,6 - DiCB	0	<1.03	<1.67	0	<1.07	0		
PCB-11	3,3' - DiCB	27.55	5.51	K2.38	27.55	3.94	27.55		
PCB-12/13	3,4 - DiCB	0	<0.972	<1.64	0	<1.01	0		
PCB-14	3,5 - DiCB	0	<0.993	<1.64	0	<1.03	0		
PCB-15	4,4' - DiCB	0	<1.03	<1.68	0	1.33	6.65	89.5	93.2
PCB-16	2,2',3 - TriCB	5.95	1.19	0.75	5.95	0.91	5.95		
PCB-17	2,2',4 - TriCB	7	K1.37	K0.711	0	K1.19	0		
PCB-18/30	2,2',5 - TriCB	12	<0.0756	K1.42	0	2.18	10.9		
PCB-19	2,2',6 - TriCB	3.335	0.667	K0.271	3.335	K0.553	3.335	101	105
PCB-20/28	2,3,3' - TriCB	13.65	1.8	1.22	9	2.06	10.3		
PCB-21/33	2,3,4 - TriCB	11.1	0.99	0.63	4.95	1.09	5.45		
PCB-22	2,3,4' - TriCB	4.565	0.532	0.519	2.66	K0.686	2.66		
PCB-23	2,3,5 - TriCB	0	<0.0790	<0.141	0	<0.0337	0		
PCB-24	2,3,6 - TriCB	0	<0.0705	<0.0797	0	<0.0808	0		
PCB-25	2,3',4 - TriCB	0	<0.0693	K0.130	0	K0.174	0		
PCB-26/29	2,3',5 - TriCB	2.505	K0.338	0.289	1.445	K0.343	0		
PCB-27	2,3',6 - TriCB	0.985	0.197	K0.091	0.985	K0.286	0.985		
PCB-31	2,4',5 - TriCB	12.4	1.46	K1.09	7.3	K1.91	7.3		
PCB-32	2,4',6 - TriCB	3.33	0.666	0.404	3.33	0.646	3.33		
PCB-34	2',3,5 - TriCB	0	<0.0782	<0.141	0	<0.0334	0		
PCB-35	3,3',4 - TriCB	0	K0.197	<0.143	0	K0.141	0		
PCB-36	3,3',5 - TriCB	0	<0.0757	<0.134	0	<0.0323	0		
PCB-37	3,4,4' - TriCB	5.1	1.02	K0.362	5.1	0.53	5.1	91.4	93.7
PCB-38	3,4,5 - TriCB	0	<0.0785	<0.138	0	<0.0335	0		
PCB-39	3,4',5 - TriCB	0	<0.0732	<0.130	0	<0.0313	0		
PCB-40/41/71	2,2',3,3' - TeCB	3.43	K0.139	K0.379	0	K0.671	0		
PCB-42	2,2',3,4' - TeCB	2.57	0.2	K0.174	1	K0.303	1		
PCB-43	2,2',3,5 - TeCB	0	<0.111	<0.167	0	<0.104	0		
PCB-44/47/65	2,2',3,5' - TeCB	275.5	K1.65	K1.30	0	K2.16	0		
PCB-45/51	2,2',3,6 - TeCB	123	<0.0931	<0.145	0	0.66	3.3		
PCB-46	2,2',3,6' - TeCB	0	<0.110	<0.173	0	<0.103	0		
PCB-48	2,2',4,5 - TeCB	0	<0.0920	<0.146	0	K0.291	0		
PCB-49/69	2,2',4,5' - TeCB	6.15	0.68	K0.486	3.4	K0.717	3.4		
PCB-50/53	2,2',4,6 - TeCB	0	K0.404	K0.177	0	K0.277	0		
PCB-52	2,2',5,5' - TeCB	15.1	2.1	1.21	10.5	1.38	10.5		
PCB-54	2,2',6,6' - TeCB	0.79	<0.0683	<0.127	0	<0.0622	0	101	113
PCB-55	2,3,3',4 - TeCB	0	<0.231	<0.310	0	<0.234	0		

Table C-17
Raw Data and EPA Qualification of Site Results

Location									
Type									
Depth									
Collection Method									
CLIENT ID			AN-03TB-031217	LAB BLANK		LAB BLANK		SPIKED MATRIX	SPIKED MATRIX
Axys ID		5x Max of	L6436-13	WG11035-101	5x Max of	WG11030-101	5x Max of	WG11030-102	WG11035-102
WORKGROUP		-2,-14,-13 and-101	WG11030	WG11035	-13 and -101	WG11030	-13 and -101a	WG11030	WG11035
UNITS	PCB ID		pg/L	pg/L	pg/L	pg/L		% REC	% REC
PCB-56	2,3,3',4' - TeCB	2.29	0.458	<0.319	2.29	K0.459	2.29		
PCB-57	2,3,3',5' - TeCB	0	<0.227	<0.307	0	<0.230	0		
PCB-58	2,3,3',5' - TeCB	0	<0.227	<0.303	0	<0.230	0		
PCB-59/62/75	2,3,3',6' - TeCB	0	<0.0712	<0.112	0	K0.116	0		
PCB-60	2,3,4,4' - TeCB	0	K0.400	<0.313	0	0.234	1.17		
PCB-61/70/74/76	2,3,4,5' - TeCB	14	2.8	1.09	14	K1.58	14		
PCB-63	2,3,4',5' - TeCB	0	<0.216	<0.286	0	<0.219	0		
PCB-64	2,3,4',6' - TeCB	3.245	K0.466	<0.109	0	0.455	2.275		
PCB-66	2,3',4,4' - TeCB	5.15	1.03	K0.565	5.15	0.795	5.15		
PCB-67	2,3',4,5' - TeCB	0	<0.207	<0.279	0	<0.210	0		
PCB-68	2,3',4,5' - TeCB	105.5	<0.213	<0.278	0	<0.215	0		
PCB-72	2,3',5,5' - TeCB	0	<0.218	<0.292	0	<0.221	0		
PCB-73	2,3',5,6' - TeCB	0	<0.0702	<0.111	0	<0.0661	0		
PCB-77	3,3',4,4' - TeCB	16.1	3.22	K0.509	16.1	0.484	16.1	89.2	92.4
PCB-78	3,3',4,5' - TeCB	0	<0.236	<0.314	0	<0.239	0		
PCB-79	3,3',4,5' - TeCB	0	<0.203	<0.272	0	<0.205	0		
PCB-80	3,3',5,5' - TeCB	0	<0.213	<0.292	0	<0.215	0		
PCB-81	3,4,4',5' - TeCB	0	<0.228	<0.303	0	K0.273	0	89.9	94.6
PCB-82	2,2',3,3',4' - PeCB	0	K0.338	<0.0782	0	<0.0440	0		
PCB-83/99	2,2',3,3',5' - PeCB	6.85	1.37	K0.362	6.85	0.452	6.85		
PCB-84	2,2',3,3',6' - PeCB	2.095	0.419	K0.105	2.095	K0.262	2.095		
PCB-85/116/117	2,2',3,4,4' - PeCB	2.6	0.52	<0.0589	2.6	K0.121	2.6		
PCB-86/87/97/108/119/125	2,2',3,4,5' - PeCB	3.245	K2.12	K0.584	0	0.535	2.675		
PCB-88/91	2,2',3,4,6' - PeCB	0.725	K0.302	0.104	0.52	<0.0379	0		
PCB-89	2,2',3,4,6' - PeCB	0	<0.0826	<0.0740	0	K0.049	0		
PCB-90/101/113	2,2',3,4,5' - PeCB	16.95	3.39	0.559	16.95	K0.736	16.95		
PCB-92	2,2',3,5,5' - PeCB	2.4	0.48	<0.0709	2.4	0.133	2.4		
PCB-93/95/98/100/102	2,2',3,5,6' - PeCB	0	K0.887	<0.0667	0	0.589	2.945		
PCB-94	2,2',3,5,6' - PeCB	0	<0.0829	<0.0723	0	<0.0405	0		
PCB-96	2,2',3,6,6' - PeCB	0	K0.018	K0.061	0	K0.021	0		
PCB-103	2,2',4,5',6' - PeCB	0	<0.0700	<0.0616	0	<0.0342	0		
PCB-104	2,2',4,6,6' - PeCB	0	K0.033	K0.110	0	K0.055	0	97.2	100
PCB-105	2,3,3',4,4' - PeCB	4.2	K1.12	0.479	2.395	0.477	2.385	96.7	97.2
PCB-106	2,3,3',4,5' - PeCB	0	<0.0620	<0.0839	0	<0.0741	0		
PCB-107/124	2,3,3',4',5' - PeCB	0	K0.223	K0.089	0	0.143	0.715		
PCB-109	2,3,3',4,6' - PeCB	0	K0.343	<0.0817	0	K0.198	0		
PCB-110/115	2,3,3',4',6' - PeCB	6.25	K2.98	0.406	2.03	K0.636	0		
PCB-111	2,3,3',5,5' - PeCB	0	<0.0589	<0.0519	0	<0.0287	0		
PCB-112	2,3,3',5,6' - PeCB	0	<0.0622	<0.0555	0	<0.0304	0		
PCB-114	2,3,4,4',5' - PeCB	0	<0.0676	K0.189	0	K0.171	0	99.3	93.9
PCB-118	2,3',4,4',5' - PeCB	15.3	3.06	K1.05	15.3	K1.00	15.3	93.2	92.7
PCB-120	2,3',4,5,5' - PeCB	0	<0.0584	<0.0503	0	<0.0285	0		
PCB-121	2,3',4,5',6' - PeCB	0	<0.0585	<0.0526	0	<0.0286	0		
PCB-122	2',3,3',4,5' - PeCB	0	<0.0700	<0.0969	0	<0.0836	0		
PCB-123	2',3,4,4',5' - PeCB	0	<0.0722	K0.208	0	<0.0832	0	98.3	97.6
PCB-126	3,3',4,4',5' - PeCB	0	K0.488	K0.303	0	K0.277	0	96.1	94.3

Table C-17
Raw Data and EPA Qualification of Site Results

Location									
Type									
Depth									
Collection Method									
CLIENT ID			AN-03TB-031217	LAB BLANK		LAB BLANK		SPIKED MATRIX	SPIKED MATRIX
Axys ID		5x Max of	L6436-13	WG11035-101	5x Max of	WG11030-101	5x Max of	WG11030-102	WG11035-102
WORKGROUP		-2,-14,-13 and-101	WG11030	WG11035	-13 and -101	WG11030	-13 and -101a	WG11030	WG11035
UNITS	PCB ID		pg/L	pg/L	pg/L	pg/L		% REC	% REC
PCB-127	3,3',4,5,5' - PeCB	0	K0.094	<0.0843	0	K0.078	0		
PCB-128/166	2,2',3,3',4,4' - HxCB	0.275	K0.319	0.055	0.275	K0.103	0		
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	12.7	2.54	K0.361	12.7	0.616	12.7		
PCB-130	2,2',3,3',4,5' - HxCB	0	K0.195	K0.078	0	K0.029	0		
PCB-131	2,2',3,3',4,6 - HxCB	0.14	K0.084	<0.0102	0	<0.0096	0		
PCB-132	2,2',3,3',4,6' - HxCB	0	K0.622	K0.064	0	K0.120	0		
PCB-133	2,2',3,3',5,5' - HxCB	0	<0.0079	K0.027	0	K0.038	0		
PCB-134/143	2,2',3,3',5,6 - HxCB	0	<0.0082	K0.020	0	<0.0095	0		
PCB-135/151/154	2,2',3,3',5,6' - HxCB	2.69	0.538	0.205	2.69	K0.146	2.69		
PCB-136	2,2',3,3',6,6' - HxCB	0	<0.0085	<0.0077	0	<0.0084	0		
PCB-137	2,2',3,4,4',5 - HxCB	0	K0.257	K0.057	0	K0.024	0		
PCB-139/140	2,2',3,4,4',6 - HxCB	0	K0.051	K0.069	0	K0.051	0		
PCB-141	2,2',3,4,5,5' - HxCB	0	K0.544	K0.120	0	K0.063	0		
PCB-142	2,2',3,4,5,6 - HxCB	0	K0.013	<0.0106	0	<0.0096	0		
PCB-144	2,2',3,4,5,6' - HxCB	0	K0.081	<0.0101	0	K0.030	0		
PCB-145	2,2',3,4,6,6' - HxCB	0	K0.011	K0.027	0	<0.0088	0		
PCB-146	2,2',3,4',5,5' - HxCB	0.64	K0.507	<0.0086	0	K0.137	0		
PCB-147/149	2,2',3,4',5,6 - HxCB	0	K1.49	K0.334	0	K0.479	0		
PCB-148	2,2',3,4',5,6' - HxCB	0	<0.0120	K0.017	0	K0.013	0		
PCB-150	2,2',3,4',6,6' - HxCB	0	<0.0083	K0.014	0	<0.0081	0		
PCB-152	2,2',3,5,6,6' - HxCB	0	<0.0084	<0.0074	0	<0.0082	0		
PCB-153/168	2,2',4,4',5,5' - HxCB	12.95	2.59	K0.431	12.95	0.482	12.95		
PCB-155	2,2',4,4',6,6' - HxCB	0	K0.199	K0.088	0	K0.098	0	94.9	101
PCB-156/157	2,3,3',4,4',5 - HxCB	0	K0.629	K0.866	0	0.606	3.03	97.1	105
PCB-158	2,3,3',4,4',6 - HxCB	0	K0.254	<0.0070	0	K0.116	0		
PCB-159	2,3,3',4,5,5' - HxCB	0	K0.017	K0.021	0	K0.069	0		
PCB-161	2,3,3',4,5,6 - HxCB	0	K0.008	<0.0071	0	K0.027	0		
PCB-162	2,3,3',4',5,5' - HxCB	0	<0.0058	K0.075	0	K0.021	0		
PCB-164	2,3,3',4',5,6 - HxCB	0.875	0.175	K0.009	0.875	K0.040	0.875		
PCB-165	2,3,3',5,5',6 - HxCB	0	K0.016	K0.024	0	K0.015	0		
PCB-167	2,3',4,4',5,5' - HxCB	2.135	0.427	K0.431	2.135	K0.180	2.135	98.2	105
PCB-169	3,3',4,4',5,5' - HxCB	0	<0.105	<0.258	0	0.333	1.665	97.7	106
PCB-170	2,2',3,3',4,4',5 - HpCB	1.76	K0.194	K0.256	0	K0.198	0		
PCB-171/173	2,2',3,3',4,4',6 - HpCB	0	K0.116	K0.142	0	<0.0121	0		
PCB-172	2,2',3,3',4,5,5' - HpCB	0	K0.083	<0.0103	0	K0.041	0		
PCB-174	2,2',3,3',4,5,6' - HpCB	1.325	K0.115	<0.0096	0	K0.051	0		
PCB-175	2,2',3,3',4,5',6 - HpCB	0	<0.0105	K0.046	0	K0.014	0		
PCB-176	2,2',3,3',4,6,6' - HpCB	0	K0.049	K0.018	0	<0.0083	0		
PCB-177	2,2',3,3',4',5,6 - HpCB	0	K0.159	K0.072	0	<0.0119	0		
PCB-178	2,2',3,3',5,5',6 - HpCB	0	K0.115	<0.0095	0	K0.028	0		
PCB-179	2,2',3,3',5,6,6' - HpCB	0	<0.0080	K0.066	0	0.052	0.26		
PCB-180/193	2,2',3,4,4',5,5' - HpCB	3.575	K0.610	0.364	1.82	K0.356	0		
PCB-181	2,2',3,4,4',5,6 - HpCB	0	K0.075	K0.435	0	K3.06	0		
PCB-182	2,2',3,4,4',5,6' - HpCB	0	K0.034	K0.154	0	K0.044	0		
PCB-183/185	2,2',3,4,4',5',6 - HpCB	0	K0.135	<0.0094	0	K0.076	0		
PCB-184	2,2',3,4,4',6,6' - HpCB	0	K0.055	<0.0065	0	<0.0078	0		

**Table C-17
Raw Data and EPA Qualification of Site Results**

Location									
Type									
Depth									
Collection Method									
CLIENT ID			AN-03TB-031217	LAB BLANK		LAB BLANK		SPIKED MATRIX	SPIKED MATRIX
Axys ID		5x Max of	L6436-13	WG11035-101	5x Max of	WG11030-101	5x Max of	WG11030-102	WG11035-102
WORKGROUP		-2,-14,-13 and-101	WG11030	WG11035	-13 and -101	WG11030	-13 and -101a	WG11030	WG11035
UNITS	PCB ID		pg/L	pg/L	pg/L	pg/L		% REC	% REC
PCB-186	2,2',3,4,5,6,6' - HpCB	0	K0.029	<0.0072	0	K0.011	0		
PCB-187	2,2',3,4',5,5',6 - HpCB	0	K0.268	K0.271	0	0.177	0.885		
PCB-188	2,2',3,4',5,6,6' - HpCB	0	K0.042	<0.0070	0	K0.056	0	96.4	101
PCB-189	2,3,3',4,4',5,5' - HpCB	0	<0.0860	K0.165	0	K0.283	0	93.3	98.3
PCB-190	2,3,3',4,4',5,6 - HpCB	0	K0.043	K0.139	0	K0.036	0		
PCB-191	2,3,3',4,4',5',6 - HpCB	0	K0.066	K0.030	0	K0.029	0		
PCB-192	2,3,3',4,5,5',6 - HpCB	0	<0.0093	K0.028	0	K0.039	0		
PCB-194	2,2',3,3',4,4',5,5' - OcCB	0	K0.062	K0.154	0	K0.140	0		
PCB-195	2,2',3,3',4,4',5,6 - OcCB	0.145	<0.0107	0.029	0.145	0.027	0.135		
PCB-196	2,2',3,3',4,4',5,6' - OcCB	0	K0.091	K0.044	0	K0.016	0		
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	0	<0.0101	<0.0105	0	K0.097	0		
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	0.72	<0.0139	K0.163	0	K0.045	0		
PCB-201	2,2',3,3',4,5,6,6' - OcCB	0	<0.0101	K0.045	0	K0.048	0		
PCB-202	2,2',3,3',5,5',6,6' - OcCB	0.63	0.126	K0.057	0.63	K0.018	0.63	96.6	99.9
PCB-203	2,2',3,4,4',5,5',6 - OcCB	0	K0.036	K0.028	0	0.024	0.12		
PCB-204	2,2',3,4,4',5,6,6' - OcCB	0.255	K6.50	K0.030	0	<0.0098	0		
PCB-205	2,3,3',4,4',5,5',6 - OcCB	0.905	<0.0084	0.181	0.905	K0.161	0	96.5	102
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	0	<0.712	<0.951	0	<0.714	0	96.9	102
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	0	<0.567	<0.754	0	<0.569	0		
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	0	<0.604	<0.807	0	<0.609	0	95.1	97.6
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	2.225	K0.392	K0.395	0	K0.330	0	93.5	97
Total Monochloro Biphenyls		15.21	2.52	1.04	14.42	0.949	12.55		
Total Dichloro Biphenyls		134.50	22.3	<2.33	111.60	10.2	118.25		
Total Trichloro Biphenyls		81.92	8.51	3.81	44.06	7.41	55.31		
Total Tetrachloro Biphenyls		572.83	10.5	2.31	52.44	4.01	59.19		
Total Pentachloro Biphenyls		60.62	9.23	1.55	51.14	2.33	54.92		
Total Hexachloro Biphenyls		32.41	6.27	0.26	31.63	2.04	36.05		
Total Heptachloro Biphenyls		6.66	<0.0860	0.364	1.82	0.229	1.15		
Total Octachloro Biphenyls		2.66	0.126	0.21	1.68	0.051	0.89		
Total Nonachloro Biphenyls		0.00	<0.712	<0.951	0.00	<0.714	0.00		
Decachloro Biphenyl		2.23	<0.0097	<0.0147	0.00	<0.0111	0.00		
TOTAL PCBs		909.01	59.5	9.54	308.78	27.2	338.29		

* Corrected for the average of the trip blank and the associated method blank

** Corrected for the average of the equipment blank and the tubing proof

U = not detected

UB = detected result was less than the associated blank

< = less than detection limit

K = not detected due to mass spectral match

Table C-18
Raw Data and EPA Qualification for Expanded Area Results

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-1	0.918	UB	0.682	UB	0.524	1.31	6.55	106
PCB-2	0.93	0.93	0.687	0.687	K0.356	K0.575	0	
PCB-3	2.84	UB	K1.77	U	K0.993	1.2	6	109
PCB-4	K2.48	U	K2.90	U	<0.563	3.21	16.05	99.5
PCB-5	<0.591	U	<0.499	U	<0.453	<1.03	0	
PCB-6	K0.612	U	0.582	0.582	<0.440	K1.79	0	
PCB-7	3.3	UB	1.25	UB	<0.423	8.52	42.6	
PCB-8	1.69	UB	1.93	UB	K0.669	5.08	25.4	
PCB-9	0.659	0.659	<0.459	U	<0.424	<0.943	0	
PCB-10	<0.568	U	<0.480	U	<0.431	<1.03	0	
PCB-11	K8.02	U	8.46	UB	K5.27	5.51	27.55	
PCB-12/13	0.663	0.663	<0.519	U	<0.452	<0.972	0	
PCB-14	<0.592	U	<0.500	U	<0.435	<0.993	0	
PCB-15	K2.15	U	2.43	2.43	<0.565	<1.03	0	105
PCB-16	K1.98	U	K2.91	U	K0.519	1.19	5.95	
PCB-17	K1.87	U	2.93	2.93	K0.614	K1.37	0	
PCB-18/30	5.27	5.27	7.14	7.14	K1.04	<0.0756	0	
PCB-19	K1.47	U	1.64	UB	<0.188	0.667	3.335	109
PCB-20/28	6.07	UB	8.88	UB	1.22	1.8	9	
PCB-21/33	2.23	UB	3.06	UB	0.622	0.99	4.95	
PCB-22	1.5	UB	2.06	UB	0.363	0.532	2.66	
PCB-23	<0.155	U	<0.145	U	<0.209	<0.0790	0	
PCB-24	0.178	0.178	K0.159	U	<0.119	<0.0705	0	
PCB-25	0.564	0.564	0.566	0.566	<0.187	<0.0693	0	
PCB-26/29	K1.23	U	K1.85	U	K0.233	K0.338	0	
PCB-27	K0.504	U	0.675	UB	<0.116	0.197	0.985	
PCB-31	5.12	UB	8.34	8.34	K1.17	1.46	7.3	
PCB-32	0.963	UB	1.75	UB	0.29	0.666	3.33	
PCB-34	<0.158	U	<0.148	U	<0.212	<0.0782	0	
PCB-35	K0.466	U	0.211	0.211	<0.222	K0.197	0	
PCB-36	<0.152	U	<0.142	U	<0.198	<0.0757	0	

Table C-18
Raw Data and EPA Qualification for Expanded Area Results

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-37	K1.99	U	1.81	UB	K0.375	1.02	5.1	100
PCB-38	<0.163	U	<0.153	U	<0.212	<0.0785	0	
PCB-39	<0.159	U	<0.149	U	<0.204	<0.0732	0	
PCB-40/41/71	2.39	2.39	3.07	3.07	0.462	K0.139	2.31	
PCB-42	K1.14	U	1.66	1.66	0.178	0.2	1	
PCB-43	K0.078	U	K0.296	U	<0.107	<0.111	0	
PCB-44/47/65	6.01	UB	7.16	7.16	1.26	K1.65	6.3	
PCB-45/51	K1.46	U	1.31	1.31	K0.251	<0.0931	0	
PCB-46	K0.343	U	K0.506	U	<0.105	<0.110	0	
PCB-48	1.01	1.01	K1.45	U	K0.183	<0.0920	0	
PCB-49/69	3.11	UB	4.11	4.11	K0.608	0.68	3.4	
PCB-50/53	1.05	1.05	K1.22	U	K0.247	K0.404	0	
PCB-52	7.26	UB	10.7	10.7	1.34	2.1	10.5	
PCB-54	K0.044	U	K0.147	U	K0.068	<0.0683	0	107
PCB-55	<0.303	U	<0.209	U	<0.293	<0.231	0	
PCB-56	K2.43	U	2.37	2.37	0.443	0.458	2.29	
PCB-57	<0.291	U	<0.200	U	<0.310	<0.227	0	
PCB-58	<0.290	U	<0.199	U	<0.310	<0.227	0	
PCB-59/62/75	K0.496	U	K0.645	U	K0.138	<0.0712	0	
PCB-60	1.51	1.51	1.28	1.28	<0.301	K0.400	0	
PCB-61/70/74/76	8.21	UB	10.9	UB	1.3	2.8	14	
PCB-63	<0.284	U	K0.281	U	<0.285	<0.216	0	
PCB-64	2.66	2.66	3.12	3.12	K0.296	K0.466	0	
PCB-66	5.08	UB	4.97	UB	K0.439	1.03	5.15	
PCB-67	<0.263	U	0.271	0.271	<0.267	<0.207	0	
PCB-68	<0.266	U	<0.183	U	<0.291	<0.213	0	
PCB-72	<0.270	U	<0.186	U	<0.299	<0.218	0	
PCB-73	<0.0387	U	<0.0452	U	<0.0654	<0.0702	0	
PCB-77	1.07	UB	0.536	UB	K0.351	3.22	16.1	107
PCB-78	<0.308	U	<0.212	U	<0.310	<0.236	0	
PCB-79	<0.253	U	<0.174	U	<0.257	<0.203	0	

Table C-18
Raw Data and EPA Qualification for Expanded Area Results

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-80	<0.286	U	<0.197	U	<0.277	<0.213	0	
PCB-81	<0.294	U	<0.201	U	<0.302	<0.228	0	101
PCB-82	K1.09	U	1.14	1.14	<0.377	K0.338	0	
PCB-83/99	4.78	UB	4.91	UB	0.39	1.37	6.85	
PCB-84	K1.99	U	2.84	2.84	<0.374	0.419	2.095	
PCB-85/116/117	1.91	UB	1.61	UB	<0.279	0.52	2.6	
PCB-86/87/97/108/119/125	5.95	5.95	6.34	6.34	0.879	K2.12	4.395	
PCB-88/91	1.16	1.16	1.18	1.18	<0.323	K0.302	0	
PCB-89	<0.223	U	K0.137	U	<0.347	<0.0826	0	
PCB-90/101/113	7.58	UB	9.02	UB	0.953	3.39	16.95	
PCB-92	1.4	UB	1.56	UB	<0.332	0.48	2.4	
PCB-93/95/98/100/102	6.35	6.35	8.19	8.19	0.635	K0.887	3.175	
PCB-94	<0.219	U	K0.094	U	<0.339	<0.0829	0	
PCB-96	<0.0827	U	K0.078	U	<0.0480	K0.018	0	
PCB-103	<0.188	U	K0.104	U	<0.290	<0.0700	0	
PCB-104	<0.107	U	0.098	UB	0.158	K0.033	0.79	97.4
PCB-105	3.99	3.99	2.76	2.76	K0.466	K1.12	0	99.1
PCB-106	<0.234	U	<0.195	U	<0.276	<0.0620	0	
PCB-107/124	0.28	0.28	0.338	0.338	<0.284	K0.223	0	
PCB-109	K0.639	U	0.535	0.535	<0.268	K0.343	0	
PCB-110/115	9.83	9.83	9.4	9.4	K0.839	K2.98	0	
PCB-111	<0.164	U	<0.0496	U	<0.251	<0.0589	0	
PCB-112	<0.161	U	<0.0485	U	<0.262	<0.0622	0	
PCB-114	K0.380	U	K0.246	U	<0.288	<0.0676	0	102
PCB-118	7.38	UB	6.36	UB	K0.656	3.06	15.3	104
PCB-120	<0.164	U	<0.0496	U	<0.245	<0.0584	0	
PCB-121	<0.159	U	<0.0479	U	<0.243	<0.0585	0	
PCB-122	<0.254	U	<0.212	U	<0.307	<0.0700	0	
PCB-123	<0.237	U	K0.438	U	<0.293	<0.0722	0	117
PCB-126	<0.262	U	<0.214	U	<0.385	K0.488	0	107
PCB-127	<0.244	U	<0.204	U	<0.294	K0.094	0	

Table C-18
Raw Data and EPA Qualification for Expanded Area Results

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-128/166	K1.94	U	1.22	1.22	<0.281	K0.319	0	
PCB-129/138/160/163	11	UB	7.95	UB	0.726	2.54	12.7	
PCB-130	0.738	0.738	0.448	0.448	<0.352	K0.195	0	
PCB-131	<0.303	U	<0.242	U	<0.319	K0.084	0	
PCB-132	3.25	3.25	2.7	2.7	<0.322	K0.622	0	
PCB-133	<0.296	U	<0.236	U	<0.313	<0.0079	0	
PCB-134/143	K0.449	U	K0.329	U	<0.318	<0.0082	0	
PCB-135/151/154	3.69	3.69	K2.91	U	K0.372	0.538	2.69	
PCB-136	K1.10	U	1.29	1.29	K0.157	<0.0085	0	
PCB-137	K0.716	U	K0.493	U	<0.323	K0.257	0	
PCB-139/140	K0.327	U	<0.219	U	<0.288	K0.051	0	
PCB-141	1.94	1.94	K1.66	U	<0.317	K0.544	0	
PCB-142	<0.306	U	<0.244	U	<0.322	K0.013	0	
PCB-144	0.438	0.438	K0.376	U	0.046	K0.081	0.23	
PCB-145	<0.0176	U	K0.023	U	<0.0179	K0.011	0	
PCB-146	1.43	1.43	K1.09	U	<0.280	K0.507	0	
PCB-147/149	7.32	7.32	6.22	6.22	K0.783	K1.49	0	
PCB-148	<0.0236	U	K0.022	U	<0.0239	<0.0120	0	
PCB-150	K0.040	U	<0.0134	U	K0.070	<0.0083	0	
PCB-152	<0.0168	U	<0.0135	U	<0.0168	<0.0084	0	
PCB-153/168	8.02	UB	K6.11	U	K1.04	2.59	12.95	
PCB-155	K0.153	U	K0.137	U	0.164	K0.199	0.82	107
PCB-156/157	1.52	UB	0.919	UB	0.797	K0.629	3.985	106
PCB-158	1.05	1.05	0.831	0.831	<0.228	K0.254	0	
PCB-159	<0.232	U	<0.185	U	<0.242	K0.017	0	
PCB-161	<0.219	U	<0.175	U	<0.231	K0.008	0	
PCB-162	<0.231	U	<0.184	U	<0.239	<0.0058	0	
PCB-164	K0.896	U	K0.531	U	<0.234	0.175	0.875	
PCB-165	<0.240	U	<0.191	U	<0.247	K0.016	0	
PCB-167	0.53	UB	K0.300	U	K0.255	0.427	2.135	103
PCB-169	<0.256	U	<0.194	U	K0.424	<0.105	0	104

Table C-18
Raw Data and EPA Qualification for Expanded Area Results

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-170	1.91	1.91	K1.38	U	K0.340	K0.194	0	
PCB-171/173	K0.754	U	0.408	0.408	K0.102	K0.116	0	
PCB-172	K0.345	U	K0.195	U	K0.069	K0.083	0	
PCB-174	K2.13	U	1.85	1.85	K0.123	K0.115	0	
PCB-175	0.152	0.152	K0.148	U	<0.0187	<0.0105	0	
PCB-176	0.398	0.398	K0.259	U	<0.0141	K0.049	0	
PCB-177	1.51	1.51	0.989	0.989	0.037	K0.159	0.185	
PCB-178	0.642	0.642	K0.362	U	K0.141	K0.115	0	
PCB-179	1.09	1.09	0.771	0.771	K0.047	<0.0080	0	
PCB-180/193	4.66	4.66	3.56	3.56	K0.620	K0.610	0	
PCB-181	K0.068	U	<0.0209	U	<0.0196	K0.075	0	
PCB-182	K0.022	U	K0.075	U	K0.172	K0.034	0	
PCB-183/185	1.62	1.62	1.19	1.19	0.063	K0.135	0.315	
PCB-184	K0.015	U	K0.074	U	<0.0134	K0.055	0	
PCB-186	<0.0153	U	<0.0152	U	0.025	K0.029	0.125	
PCB-187	3.07	3.07	K2.04	U	K0.307	K0.268	0	
PCB-188	0.047	0.047	K0.038	U	K0.038	K0.042	0	109
PCB-189	0.297	0.297	0.165	0.165	K0.419	<0.0860	0	106
PCB-190	K0.484	U	K0.241	U	K0.030	K0.043	0	
PCB-191	<0.0175	U	K0.065	U	K0.112	K0.066	0	
PCB-192	K0.118	U	<0.0182	U	K0.043	<0.0093	0	
PCB-194	K1.05	U	0.87	0.87	K0.054	K0.062	0	
PCB-195	K0.483	U	K0.228	U	K0.043	<0.0107	0	
PCB-196	K0.581	U	K0.290	U	K0.112	K0.091	0	
PCB-197/200	0.315	0.315	K0.104	U	K0.047	<0.0101	0	
PCB-198/199	K1.23	U	K1.32	U	K0.050	<0.0139	0	
PCB-201	K0.200	U	K0.215	U	<0.0216	<0.0101	0	
PCB-202	K0.399	U	0.374	UB	<0.0232	0.126	0.63	102
PCB-203	K0.876	U	K0.892	U	0.114	K0.036	0.57	
PCB-204	<0.0222	U	<0.0235	U	K0.037	K6.50	0	
PCB-205	0.211	0.211	K0.071	U	K0.173	<0.0084	0	103

**Table C-18
Raw Data and EPA Qualification for Expanded Area Results**

Location	Monroe St	Monroe St	Riverside	Riverside				
Type	Field	Field	Field	Field	Lab QC	Field QC		
Depth	Surface	Surface	Surface	Surface		Trip Blank		
Collection Method	Grab	Grab	Grab	Grab				
CLIENT ID	AN-13-031217	AN-13-031217	AN-14-031217	AN-14-031217	LAB BLANK	AN-03TB-031217		SPIKED MATRIX
Axys ID	L6436-7	L6436-7	L6436-8	L6436-8	WG11825-101	L6436-13	Average of	WG11825-102
WORKGROUP	WG11825	Blank Corr.	WG11825	Blank Corr.	WG11825	WG11030	-101 and -13	WG11825
UNITS	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	% REC
PCB-206	<0.664	U	K0.578	U	<0.682	<0.712	0	106
PCB-207	<0.498	U	<0.429	U	<0.517	<0.567	0	
PCB-208	<0.543	U	<0.467	U	<0.582	<0.604	0	104
PCB-209	K1.03	U	K0.625	U	K0.560	K0.392	0	108
Total Monochloro Biphenyls	4.69	0.93	1.37	0.69	0.524	2.52	12.55	
Total Dichloro Biphenyls	6.31	1.32	14.7	3.01	<0.565	22.3	111.60	
Total Trichloro Biphenyls	21.9	6.01	39.1	19.19	2.49	8.51	42.61	
Total Tetrachloro Biphenyls	39.4	8.62	51.5	35.05	4.98	10.5	61.05	
Total Pentachloro Biphenyls	50.6	27.56	56.3	32.72	3.01	9.23	54.56	
Total Hexachloro Biphenyls	41	19.86	21.6	12.71	1.73	6.27	36.39	
Total Heptachloro Biphenyls	15.4	15.40	8.93	8.93	<0.180	<0.0860	0.63	
Total Octachloro Biphenyls	0.526	0.53	1.24	0.87	0.114	0.126	1.20	
Total Nonachloro Biphenyls	<0.664	0.00	<0.571	0.00	<0.682	<0.712	0.00	
Decachloro Biphenyl	<0.0307	0.00	<0.0289	0.00	<0.350	<0.0097	0.00	
TOTAL PCBs	180	80.22	195	113.17	12.9	59.5	320.58	

U = not detected

UB = detected result was less than the associated blank

< = less than detection limit

K = not detected due to mass spectral match

Table C-19
Kaiser - Spokane River
Conventional and Field Measurements

Location ID	AN-01	AN-02	AN-02	AN-03	AN-03	AN-01	AN-02	AN-03
Sample ID	AN-01A-031217	AN-02A-031217	AN-02B-031217	AN-03A-031217	AN-03B-031217	AN-01W-030902	AN-02W-030902	AN-03W-030902
Sample Date	12/17/2003	12/17/2003	12/17/2003	12/17/2003	12/17/2003	9/2/2003	9/2/2003	9/2/2003
Conventionals								
Conductivity (umhos/cm)	--				--	265	285	290
pH	--				--	8.01	8.42	8.59
Total Suspended Solids (mg/L)	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Turbidity (ntu)	--	--	--	--	--	0.3	1.4	1.1
Dissolved organic carbon (mg/L)	1.4	1.5	1.5	1.5	1.6	0.6	1.7	1.8
Total Organic Carbon (mg/L)	1.4	1.5	1.6	1.4	1.5	0.5 U	1.2	1.5

mg/L = milligrams / liter

ntu = nephelometric turbidity units

umhos/cm = micro ohms per centimeter

U = not detected

Table C-20
Water Column Stratification Data
8/4/04

Depth (m)	TDS (g/L)	ORP (mV)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Diss. Oxygen (mg/L)	Temp. (C)	Notes
Dam Forebay								
8.4	0.15	204	7.84	0.229	73	8.2	16.60	
8.2	0.15	208	7.73	0.229	56	8.2	16.60	
7.4	0.15	208	7.69	0.229	44	8.2	16.60	
6.9	0.15	207	7.72	0.228	36	8.1	16.60	
6.5	0.15	208	7.68	0.229	31	8.1	16.60	
5.9	0.15	206	7.70	0.228	24	8	16.70	
5.5	0.15	206	7.71	0.228	22	7.9	16.70	
5.1	0.15	203	7.73	0.228	19	7.9	16.80	
4.5	0.15	202	7.74	0.227	15	7.8	16.85	
4.0	0.15	205	7.69	0.227	12	7.8	16.90	
3.5	0.15	202	7.73	0.227	11	7.8	16.92	
3.0	0.15	201	7.74	0.226	10	7.8	16.97	
2.5	0.15	200	7.74	0.224	9	7.7	17.18	
2.0	0.14	199	7.77	0.222	4	7.9	17.50	
1.5	0.14	196	7.82	0.212	19	7.9	18.90	
1.7	0.14	193	7.83	0.213	0	8	18.33	
1.0	0.14	190	7.90	0.21	15	8.1	20.20	
0.5	0.14	186	7.92	0.209	0	8.1	20.63	
0.0	0.14	183	7.96	0.21	1	8.05	21.30	
8.1	0.15	190	7.83	0.231	90	8.29	16.66	duplicate measurement
Boulder Beach								
8.0	0.15	201	7.80	0.231	93	7.97	15.60	
7.5	0.15	200	7.81	0.231	83	7.83	15.59	
7.0	0.15	201	7.76	0.232	76	7.83	15.59	
6.5	0.15	198	7.78	0.231	67	7.8	15.59	
6.0	0.15	198	7.78	0.232	59	7.76	15.58	
5.5	0.15	200	7.76	0.232	51	7.82	15.61	
5.0	0.15	196	7.79	0.232	46	7.78	15.63	
4.5	0.15	194	7.82	0.232	40	7.78	15.66	
4.0	0.15	194	7.82	0.232	36	7.79	15.65	
3.5	0.15	193	7.79	0.231	34	7.74	15.67	
3.0	0.15	193	7.82	0.231	29	7.79	15.71	
2.5	0.15	195	7.82	0.231	18	8.12	15.84	
2.0	0.15	182	7.94	0.228	17	8.17	16.19	
1.5	0.15	186	7.95	0.226	13	8.18	16.80	
1.7	0.15	184	7.97	0.227	7	8.21	16.67	
1.0	0.15	188	7.91	0.226	5	8.23	16.95	
0.5	0.14	183	7.94	0.215	24	8.08	18.26	
0.7	0.14	180	7.95	0.217	5	8.09	18.13	
0.0	0.14	178	7.93	0.208	23	7.64	21.53	
~1/4 Mile W of Donkey Island								
6.9	0.15	208	7.92	0.222	88	8.41	15.49	
6.5	0.14	209	7.92	0.222	82	8.41	15.49	
6.0	0.14	207	7.89	0.222	78	8.34	15.50	
5.5	0.14	206	7.90	0.222	69	8.31	15.62	
5.0	0.14	206	7.91	0.221	59	8.41	15.78	
4.5	0.14	203	7.92	0.222	44	8.56	16.19	

Table C-20
Water Column Stratification Data
8/4/04

Depth (m)	TDS (g/L)	ORP (mV)	pH	Conductivity (mS/cm)	Turbidity (NTU)	Diss. Oxygen (mg/L)	Temp. (C)	Notes
4.0	0.14	200	8.00	0.222	34	8.61	16.59	
3.5	0.14	196	8.06	0.222	20	8.73	16.73	
3.0	0.14	195	8.05	0.222	17	8.73	16.77	
2.5	0.14	194	8.05	0.222	15	8.69	16.67	
2.0	0.14	194	8.04	0.222	16	8.69	16.78	
1.5	0.14	191	8.08	0.222	13	8.69	16.78	
1.0	0.14	190	8.08	0.222	12	8.69	16.80	
0.5	0.14	190	8.09	0.222	11	8.67	16.85	
0.0	0.14	187	8.11	0.221	11	8.54	17.29	
Plante's Ferry								
0.2	0.15	230	7.77	0.227	130	7.9	15.80	

m = meters

TDS (g/L) = total dissolved solids (grams / liter)

ORP (mV) = oxidation reduction potential (millivolts)

mS/cm = milli siemens per centimeter

NTU = nephelometric turbidity units

mg/L = milligrams / liter

APPENDIX D

SPMD RESULTS AND DATA

This appendix presents estimated results for SPMDs on both a blank-corrected and an EPA-qualified basis. The procedures for blank correction and EPA-qualification are described in Section 5.3.6. In addition, Kaiser elected to deploy SPMDs upstream and downstream from the Upriver Dam Site. Sampling locations were selected to provide further information about PCB loadings across the entire river system. These sampling locations are shown on Figure D-1. Two locations upstream of the Upriver Dam Site were sampled (State Line and Barker Road), and were two locations downstream. The downstream stations were located below Monroe Street in downtown Spokane and further downstream at Riverside State Park.

SPMD – CALCULATIONS FOR ESTIMATION OF DISSOLVED WATER CONCENTRATIONS

Because the SPMD results are estimates of dissolved water concentrations based upon PCB congeners extracted from each SPMD, the calculations are presented below. Two sets of interrelated calculations were used: 1) using an empirical model based upon published uptake rates for each chemical; and 2) adjusting the empirical model using exposure adjustment factors (EAFs) which are based upon partitioning (loss) of chemicals spiked into the SPMD prior to deployment. The chemicals spiked into the SPMDs are termed performance reference compounds (PRCs) and the model that incorporates these chemicals is termed the PRC-based estimation model in the discussion below.

As mentioned above, two sets of calculations are required, first an EAF is calculated based upon the recovery of the PRC and then the average dissolved water concentration is estimated using this result.

Calculation of Exposure Adjustment Factor (EAF) for each Deuterated PAH

Equations from API publication #4690 (2002) were used to calculate an EAF. The EAF provides an estimate of the observed sampling efficiency relative to the sampling efficiency under calibration conditions using the recovery of the performance reference compound (PRC). The applicable PRCs for this study are deuterated PAHs (fluorene, anthracene, and benzo(a)pyrene) and an average EAF was calculated using all three PAH PRCs.

$$\text{EAF} = \text{Ke PRC} / \text{Ke PRC cal}$$

$$\text{Ke PRC} = (\ln(\text{Cspmd initial} / \text{Cspmd final})) / t$$

$$\text{Ke PRC cal} = \text{SPMD K1} / (\text{Kspmd} * \text{Vspmd} * \text{Dspmd})$$

Where:

Ke PRC = measured performance reference compound (PRC) loss constant (assumed to be linear)

Ke PRC cal = PRC loss constant under calibration conditions

Cspmd = Concentration of chemical in SPMD at beginning or end of sampling (initial or final) (pg/SPMD) Note that SPMD extracts were split between Axys (PCB congeners) and Columbia (PAHs). Therefore, a factor of 2 is used to adjust these results to a mass/SPMD basis.

t = time in days

SPMD K1 = SPMD uptake rate constant

Kspmd = SPMD-water partitioning coefficient

Vspmd = volume of SPMD; 0.0047 L for a standard SPMD

Dspmd = density of SPMD; 0.957 for a standard SPMD

Estimation of Dissolved Water Concentration using EAF

Dissolved water concentrations were estimated using the following calculation:

$$\text{Cwd} = ((\text{Cspmd} * 2 / \text{Ms}) / ((\text{Rs} / \text{Ms}) * \text{EAF} * t))$$

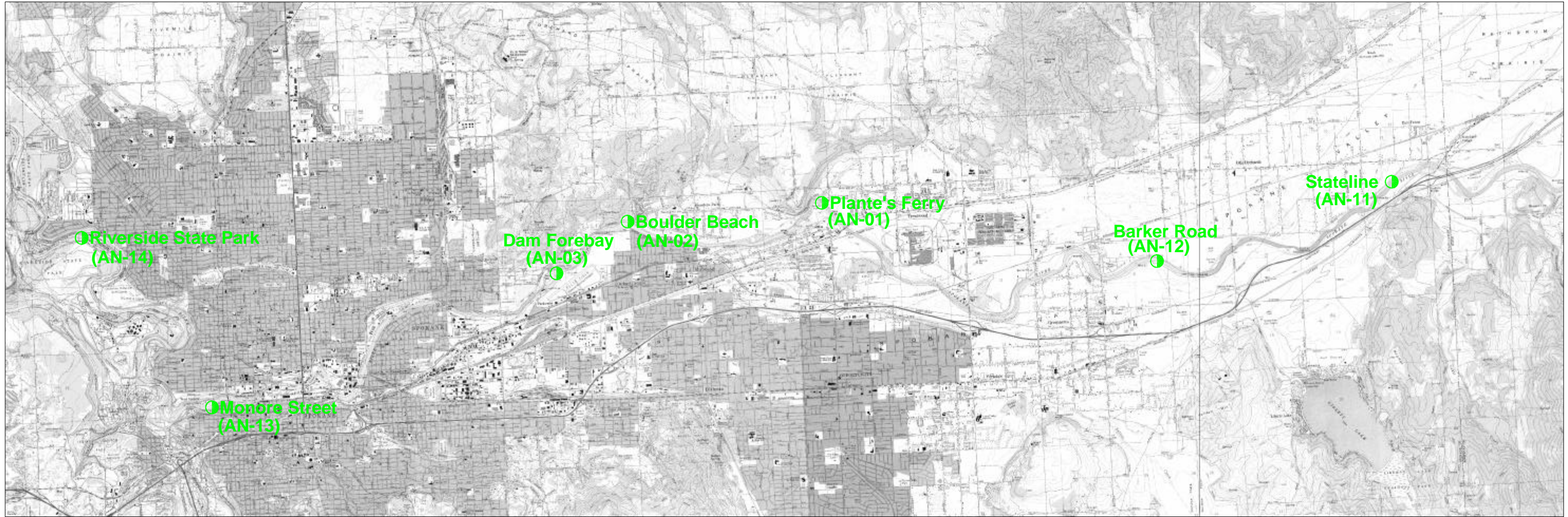
Where:

Rs = sampling rate in liters/day (from API 2002)

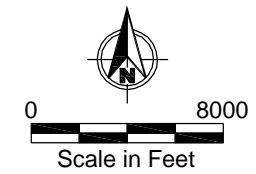
Ms = mass of SPMD (layflat tube and triolein); 4.5 g for standard SPMD
(other variables are defined above)

2 = Axys analyzed ½ the SPMD extract and reported results as ng/extract; this converts these results to ng/SPMD

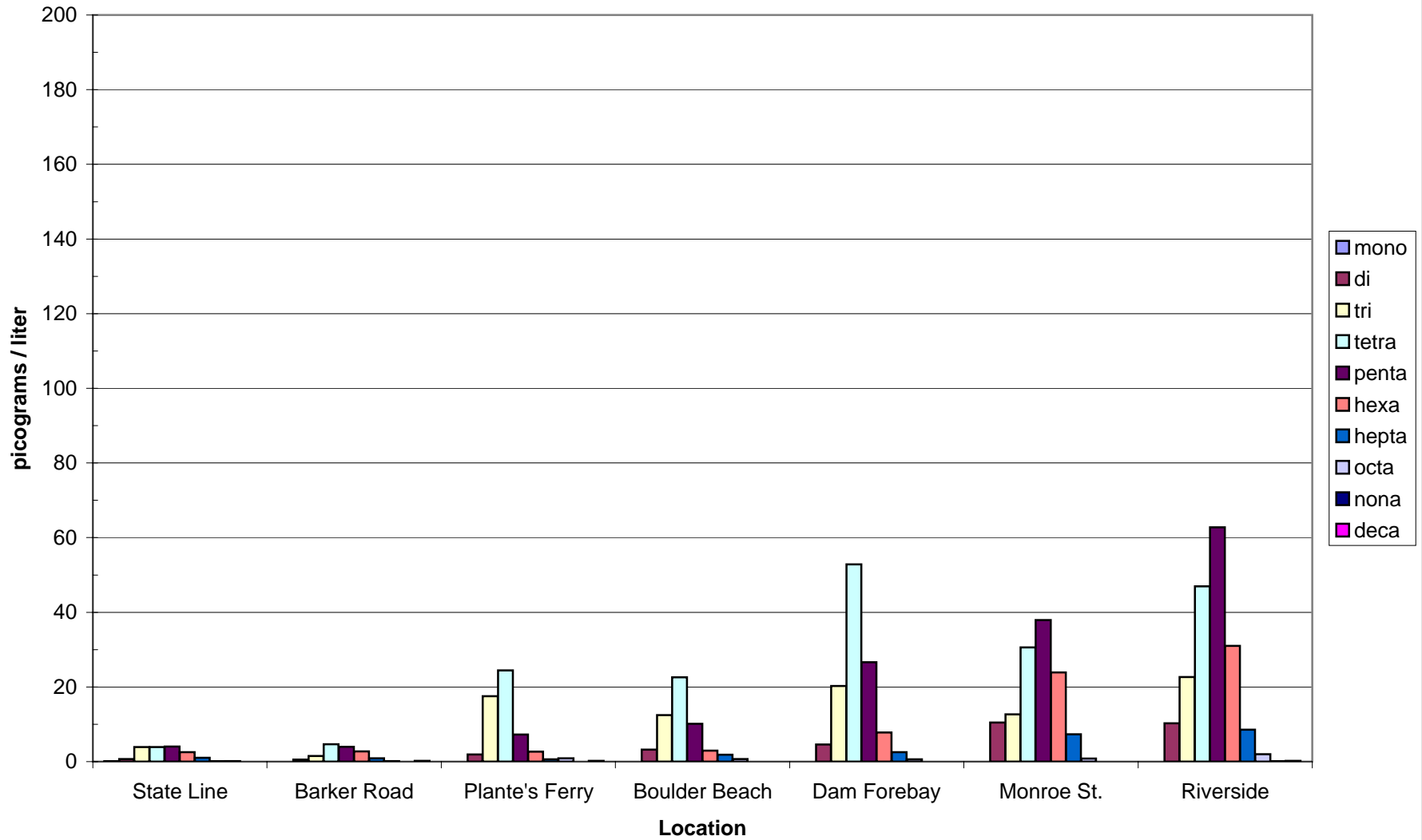
Nov 23, 2004 7:34am cdavidson K:\Jobs\020073-Upriver\02007301\02007301-27.dwg FIG D.1



● Plante's Ferry (AN-01) SPMD and Water Sample Location and Number



**PCB Homologues by Station
August 2003 SPMD Data
Blank Corrected**



**Total PCBs and PCB Homologues by Station
August 2003 SPMD Data
Blank Corrected**

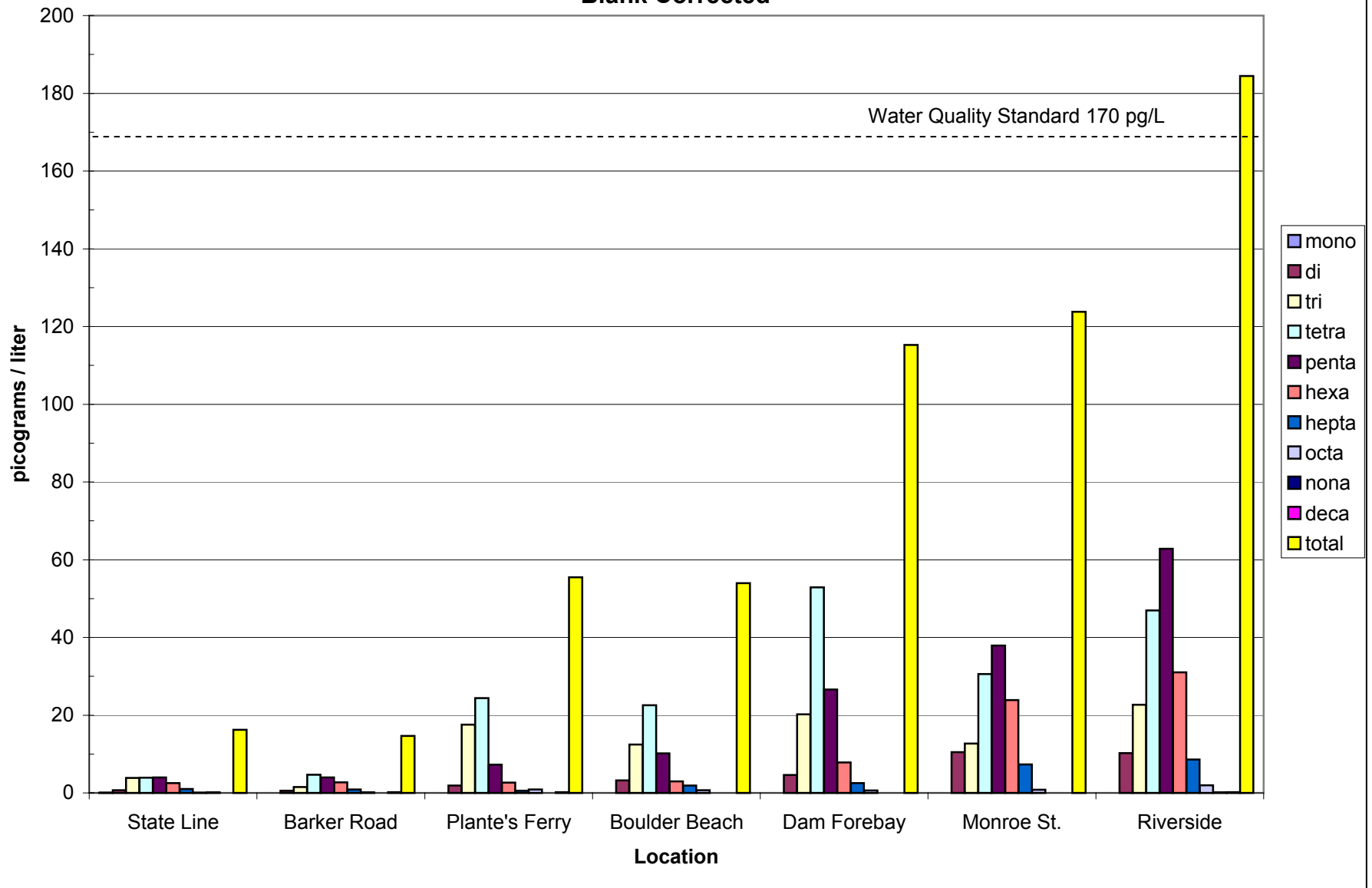
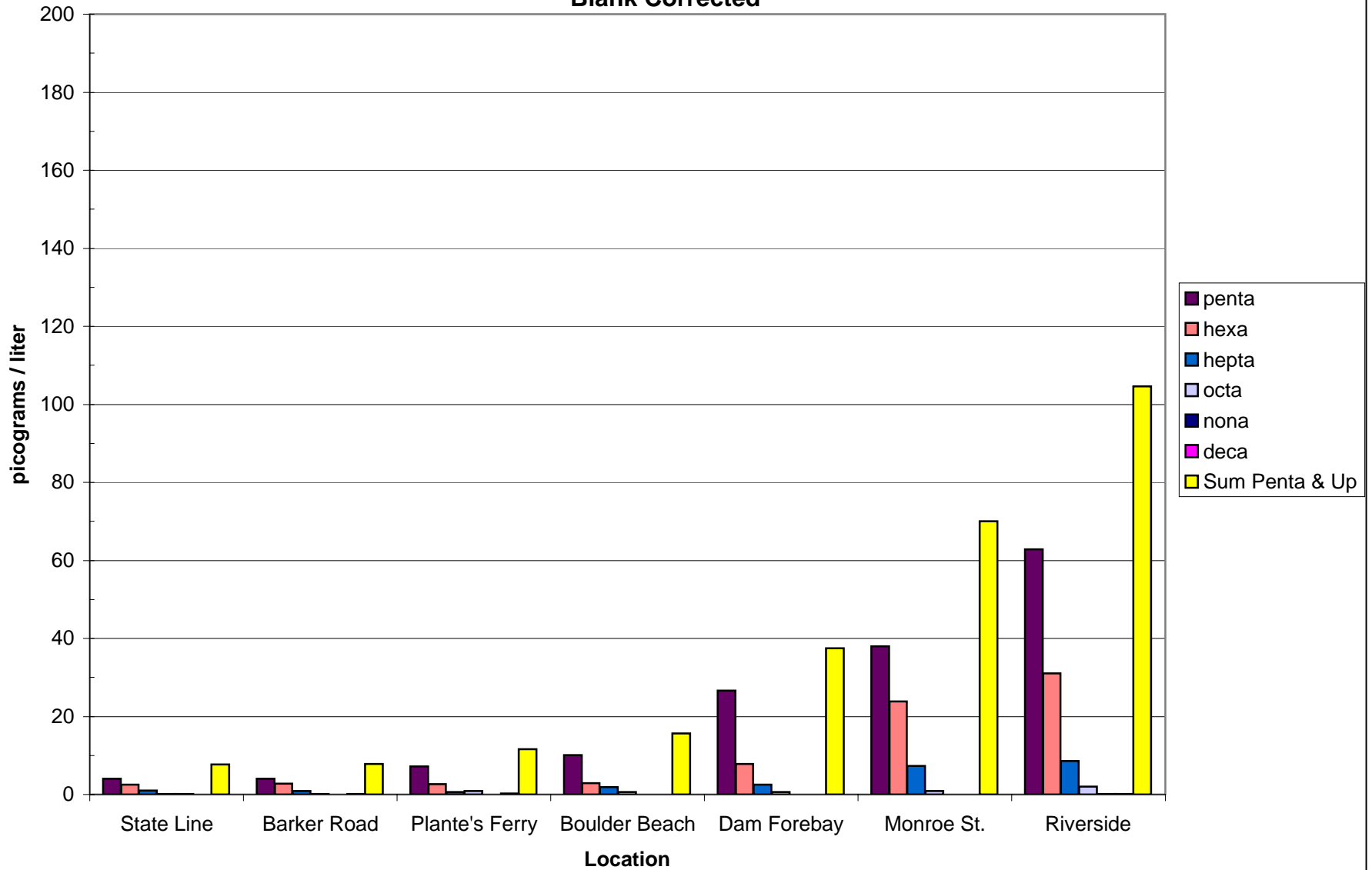


Figure D-3
Total PCBs and PCB Homologues by Station August 2003 SPMD Data
Blank Corrected

**PCB Homologues - Pentachlorobiphenyl and Greater
August 2003 SPMD Data
Blank Corrected**



**PCB Homologues by Station
August 2003 SPMD Data
Qualified Per EPA Region X Guidelines**

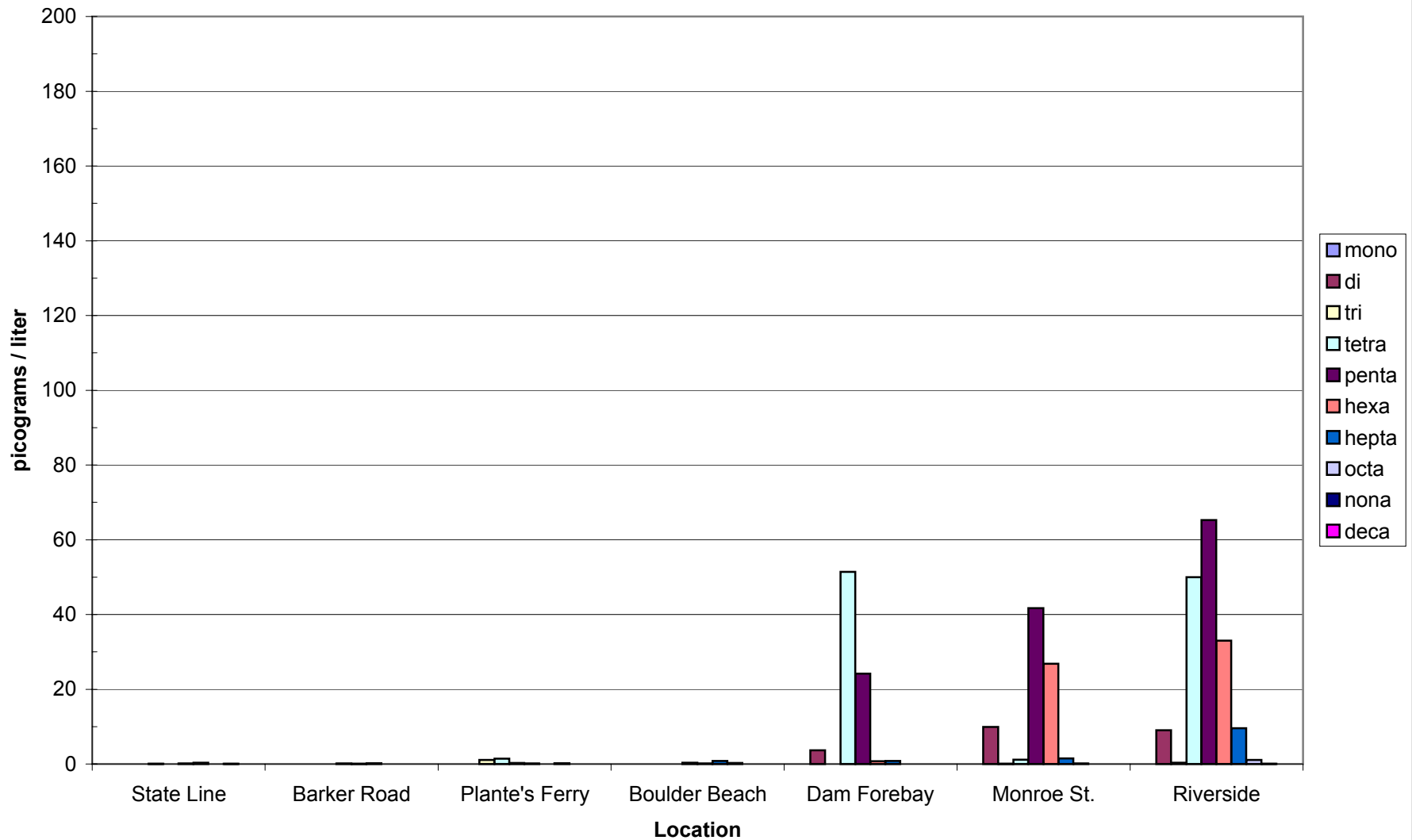


Figure D-5

PCB Homologues by Station August 2003 SPMD Data
Qualified per EPA Region X Guidelines



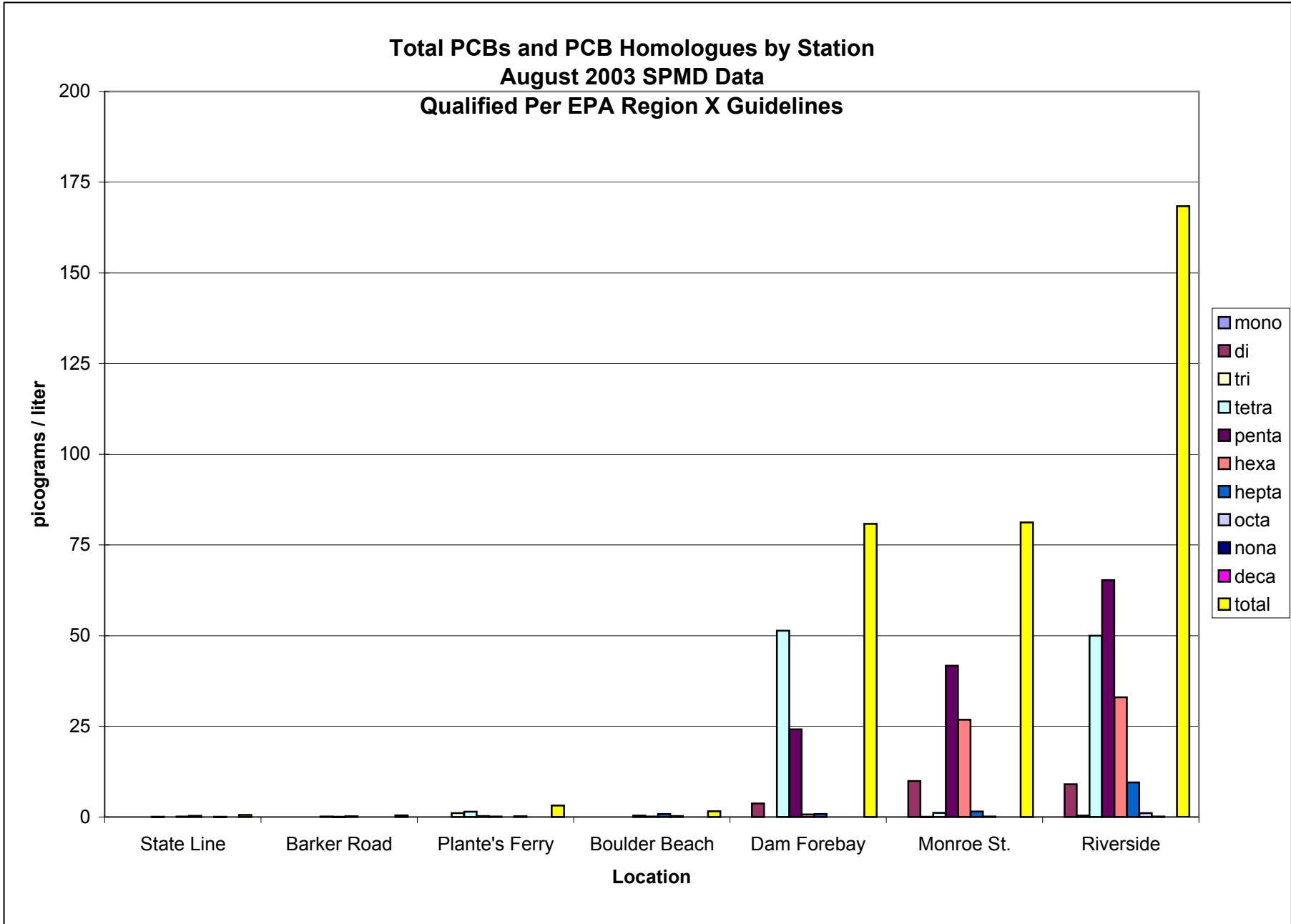
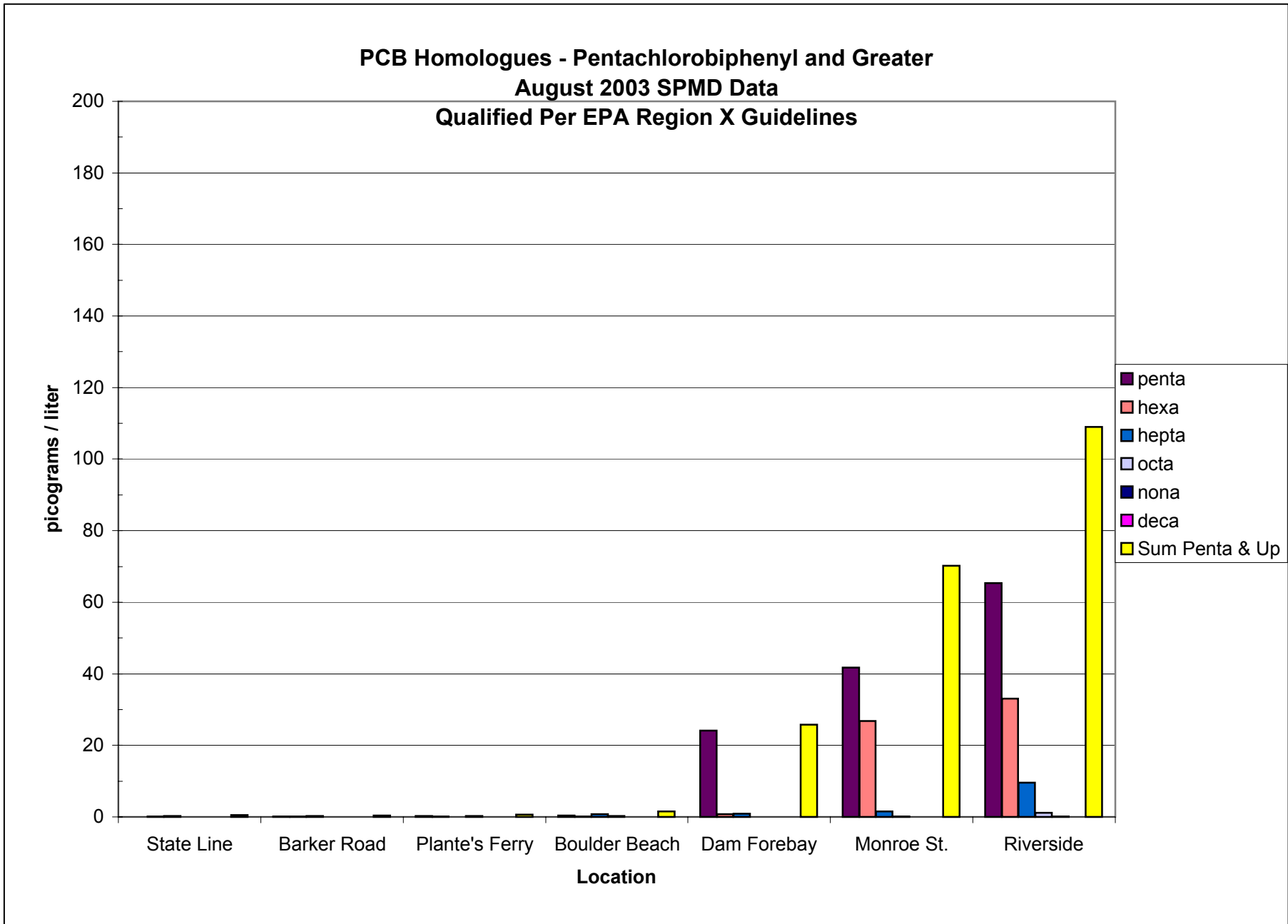
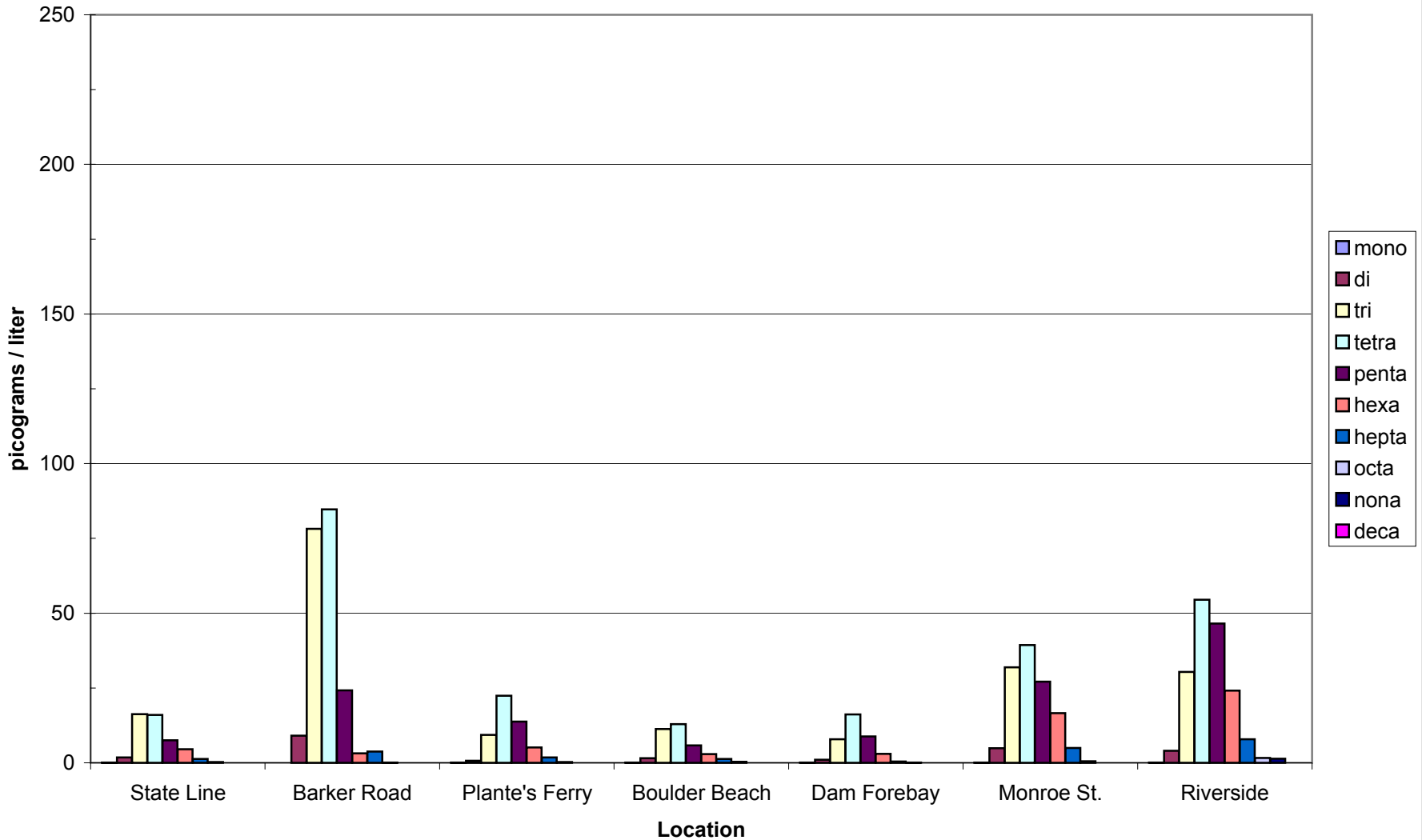
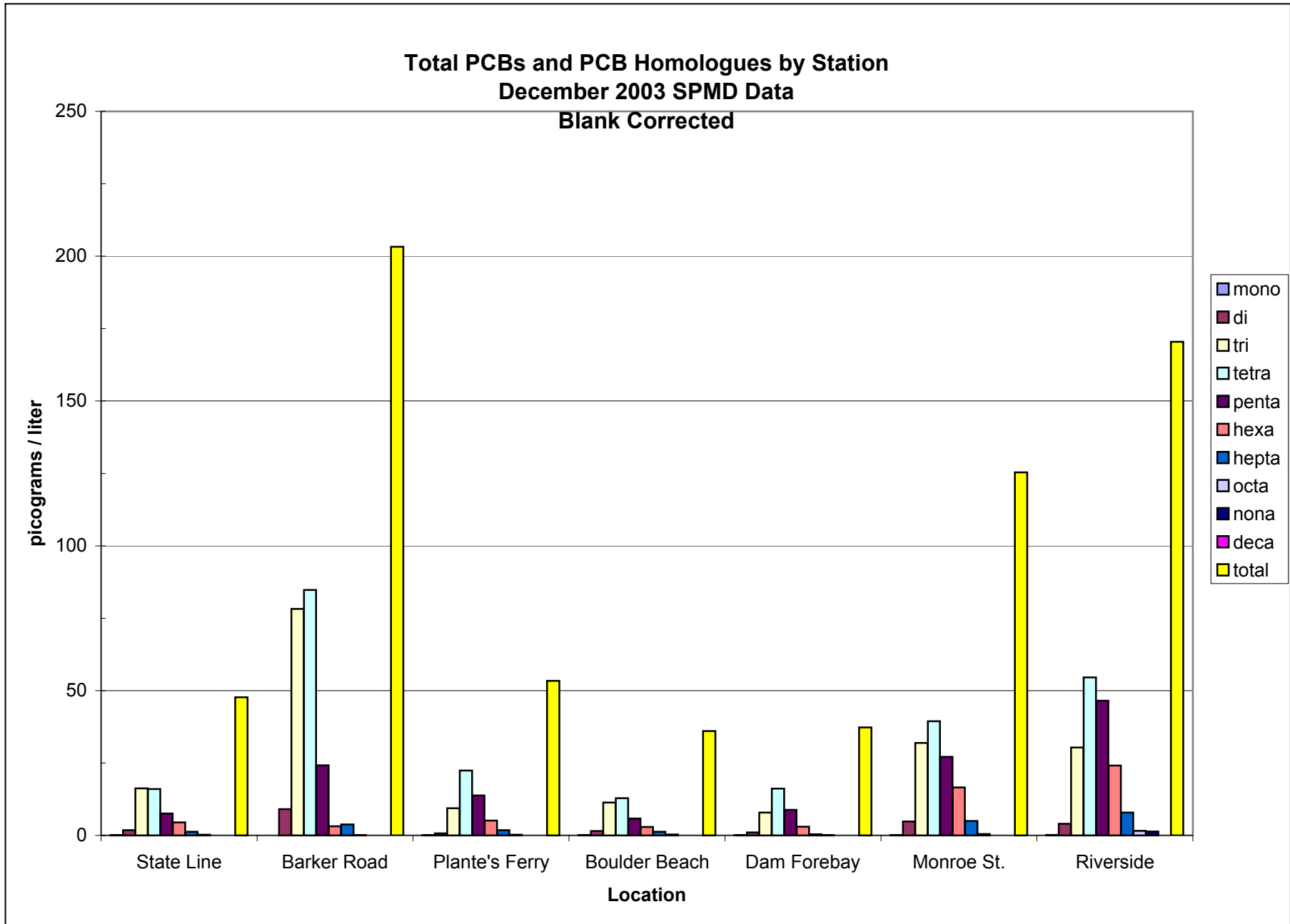


Figure D-6
Total PCBs and PCB Homologues by Station August 2003 SPMD Data
Qualified per EPA Region X Guidelines

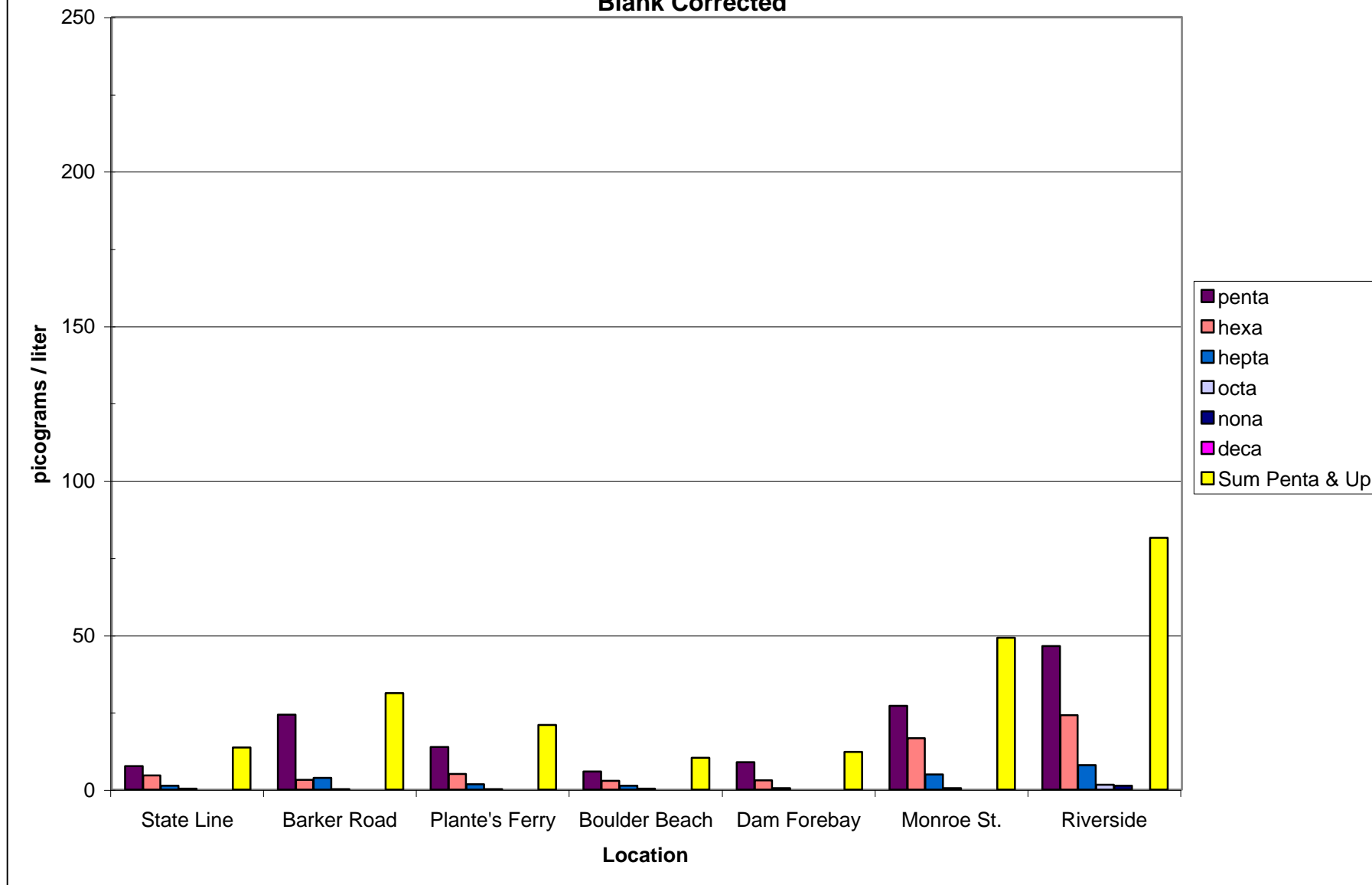


**PCB Homologues by Station
December 2003 SPMD Data
Blank Corrected**

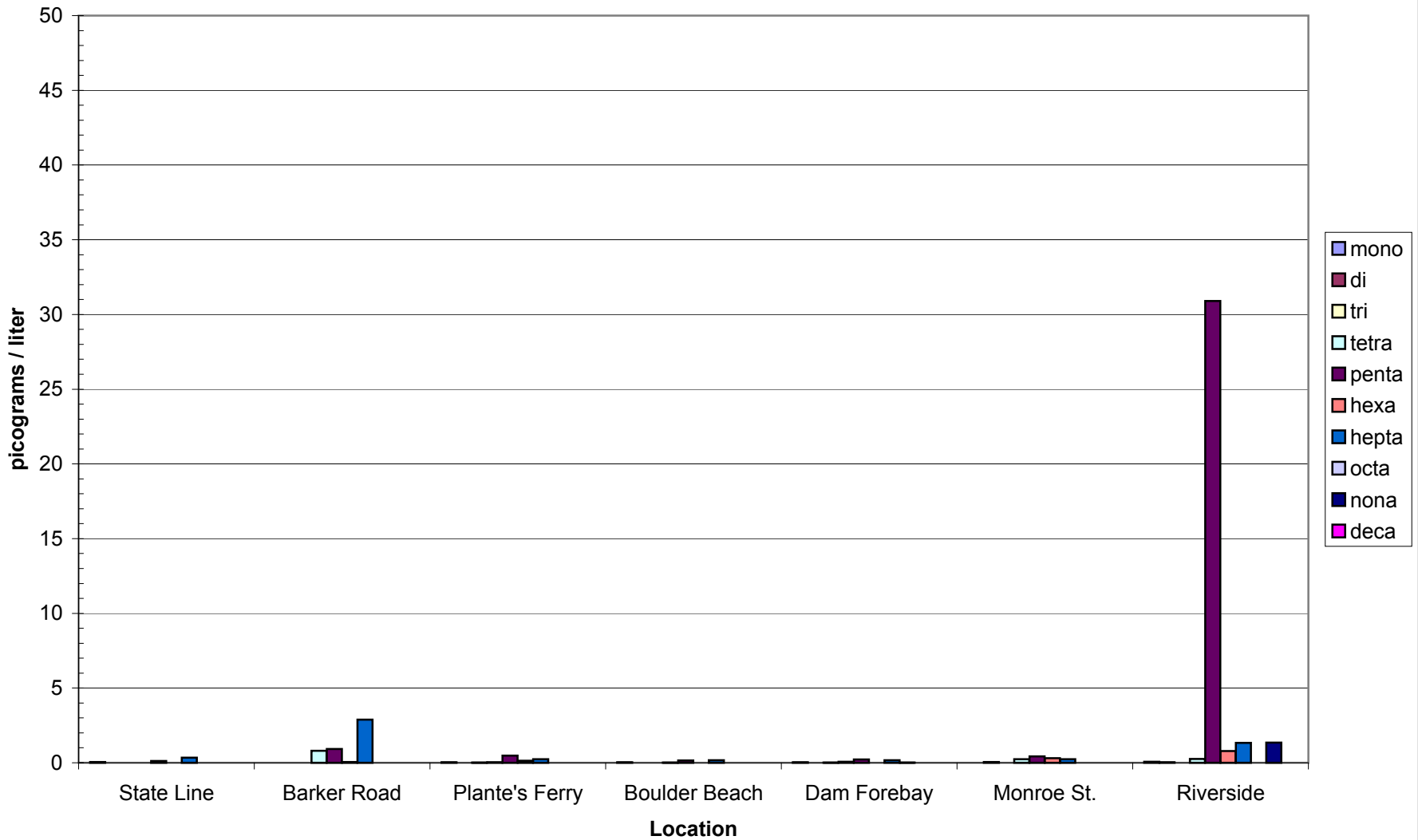




**PCB Homologues - Pentachlorobiphenyl and Greater
December 2003 SPMD Data
Blank Corrected**



**PCB Homologues by Station
December 2003 SPMD Data
Qualified per EPA Region X Guidelines**

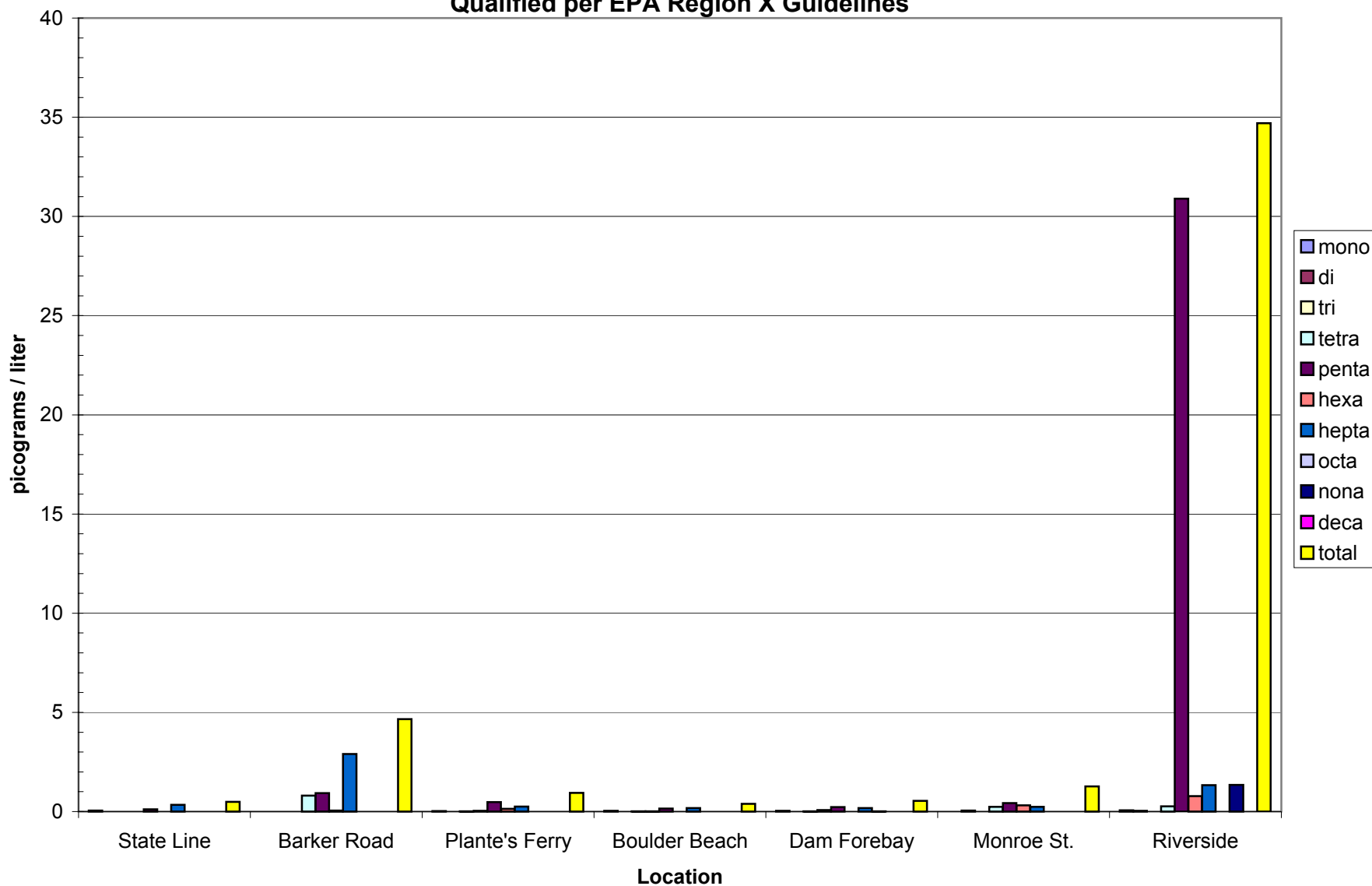


Note: Calculations use Normalized EAF



Figure D-11
PCB Homologues by Station
December 2003 SPMD Data Qualified per EPA Region X Guidelines

**Total PCBs and PCB Homologues by Station
December 2003 SPMD Data
Qualified per EPA Region X Guidelines**



**PCB Homologues - Pentachlorobiphenyl and Greater
December 2003 SPMD Data
Qualified per EPA Region X Guidelines**

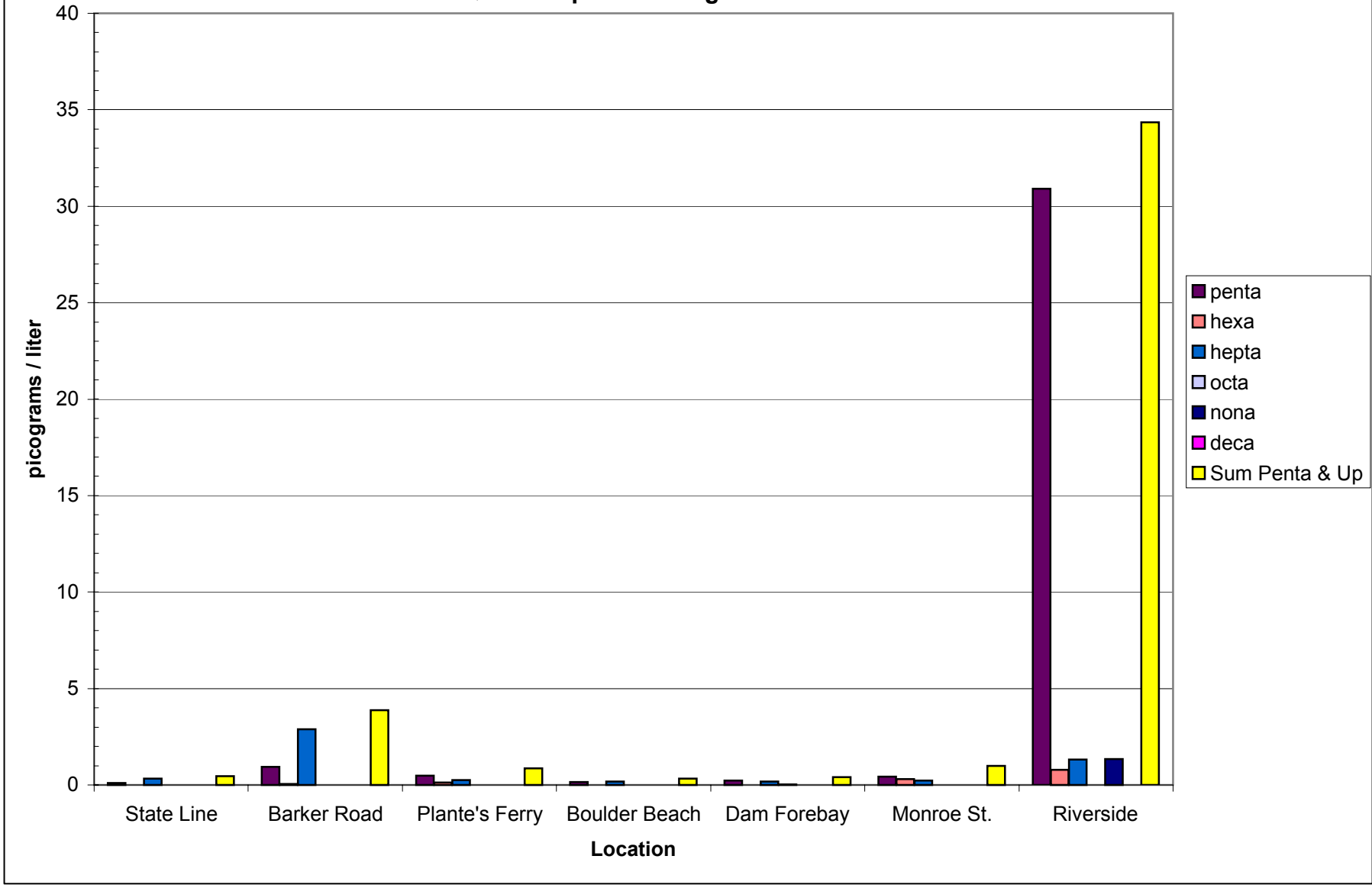


Figure D-13

PCB Homologues - Pentachlorobiphenyl and Greater
December 2003 SPMD Data Qualified per EPA Region X Guidelines



**Table D-1
Total PCBs - Blank Corrected - August 2003 Data**

SPMDs	State Line pg/L	Barker Road pg/L	Plante's Ferry pg/L	Boulder Beach pg/L	Dam Forebay pg/L	Monroe St. pg/L	Riverside pg/L
Total Monochloro Biphenyls	0.04	0.00	0.03	0.01	0.00	0.02	0.02
Total Dichloro Biphenyls	0.66	0.58	1.90	3.23	4.62	10.48	10.24
Total Trichloro Biphenyls	3.88	1.53	17.55	12.45	20.23	12.69	22.66
Total Tetrachloro Biphenyls	3.91	4.68	24.42	22.59	52.86	30.60	46.93
Total Pentachloro Biphenyls	4.01	3.98	7.25	10.15	26.61	37.94	62.79
Total Hexachloro Biphenyls	2.52	2.73	2.68	2.96	7.82	23.87	31.01
Total Heptachloro Biphenyls	1.02	0.87	0.59	1.88	2.51	7.32	8.58
Total Octachloro Biphenyls	0.08	0.13	0.86	0.69	0.61	0.85	1.96
Total Nonachloro Biphenyls	0.14	0.00	0.00	0.00	0.00	0.00	0.10
Decachloro Biphenyl	0.00	0.17	0.20	0.00	0.00	0.00	0.18
TOTAL PCBs (pg/L)	16.25	14.67	55.49	53.96	115.24	123.77	184.47
Sum of Penta & Greater	7.76	7.88	11.58	15.68	37.54	69.98	104.61

pg/L = picograms / liter

Results Calculated Using All Three PAHs

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/sample	Plante's Ferry AN-01LPA Blank Corr pg/sample	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	Boulder Beach AN-02LPA Blank Corr pg/sample	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	Dam Forebay AN-03LPA Blank Corr pg/sample	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	Barker Road AN-12LPA Blank Corr pg/sample	LAB BLANK WG10490-101 i WG10490 pg/sample	State Line AN-11LP L6286-6 WG10754 pg/sample	State Line AN-11LP Blank Corr pg/sample	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	Monroe St. AN-13LP Blank Corr pg/sample	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	
PCB-1	30.2	4.2	23		20.5		14.8		<2.06	32.4	6.4	23		22.9	
PCB-2	6.89	3.135	6.21	2.455	k6.2		4.59	k	0.835	4.45	0.695	7.55	3.795	7.47	
PCB-3	19.8	2.9	14.4		15.5		13.3		k3.72	k	28.1	11.2	20	3.1	21.9
PCB-4	193	105.65	133	45.65	148	60.65	62.2		<12.5	107	19.65	117	29.65	209	
PCB-5	6.8	1.59	k5.51		k	6.37	1.16		<8.50	6.57	1.36	6.67	1.46	6.86	
PCB-6	144	91.6	91.8	39.4	104	51.6	48		<8.22	59.8	7.4	77	24.6	82.2	
PCB-7	19.7	4.2	14.3		17.6	2.1	13.4		<7.93	16	0.5	16.9	1.4	20.1	
PCB-8	394	130.5	296	32.5	329	65.5	220		<7.85	307	43.5	320	56.5	368	
PCB-9	24.5	6.3	18.3	0.1	22	3.8	15.6		<8.03	20.3	2.1	22.3	4.1	30.8	
PCB-10	12.5	8.485	8.19	4.175	8.47	4.455	3.65		<8.24	5.33	1.315	6.42	2.405	13.3	
PCB-11	192	89.9	498	395.9	1040	937.9	307	204.9	<8.68	230	127.9	3160	3057.9	4330	
PCB-12/13	57.9	41.65	29.6	13.35	55	38.75	22.9	6.65	<8.55	24.8	8.55	56.7	40.45	75.6	
PCB-14	<1.57		<3.46		<1.57		<1.96		<8.32	<1.65		<1.06		<1.86	
PCB-15	305	180	182	57	259	134	147	22	<9.85	204	79	258	133	480	
PCB-16	230	112.5	164	46.5	234	116.5	136	18.5	<2.47	171	53.5	215	97.5	389	
PCB-17	288	143	205	60	313	168	156	11	k2.2	k	202	57	258	113	491
PCB-18/30	600	332.5	422	154.5	657	389.5	299	31.5	2.45	387	119.5	501	233.5	1080	
PCB-19	158	127.3	84	53.3	121	90.3	33.6	2.9	4.34	46.9	16.2	66.3	35.6	116	
PCB-20/28	1300	832	762	294	1300	832	555	87	6.05	694	226	1050	582	1880	
PCB-21/33	438	197.5	319	78.5	431	190.5	288	47.5	2.66	330	89.5	411	170.5	575	
PCB-22	419	267.5	244	92.5	363	211.5	168	16.5	k2.59	k	212	60.5	335	183.5	559
PCB-23	k1.68		k	<2.87		<1.80		<1.70	<1.77		6.76	6.76	K1.24		2.21
PCB-24	16.7	12.17	11.4	6.87	15	10.47	k6.45		k	<1.53	6.91	2.38	9.89	5.36	19
PCB-25	99	65.35	57.8	24.15	87.5	53.85	40.5	6.85	<1.54	47.1	13.45	72.7	39.05	125	
PCB-26/29	249	165.45	140	56.45	220	136.45	98.4	14.85	<1.70	116	32.45	170	86.45	331	
PCB-27	88	66.7	49	27.7	73.1	51.8	28.1	6.8	<1.56	30.4	9.1	50.7	29.4	85.4	
PCB-31	1080	668.5	655	243.5	1070	658.5	480	68.5	5.57	589	177.5	875	463.5	1830	
PCB-32	323	230.35	155	62.35	216	123.35	99.5	6.85	k2.02	k	126	33.35	156	63.35	298
PCB-34	4.96	2.52	2.96	0.52	6.2	3.76	k2.3		k	<1.71	10.3	7.86	4.13	1.69	7.01
PCB-35	19.3	14.34	k10.1		k	15.7	10.74	9.82	4.86		K9.17		24	19.04	64.8
PCB-36	<1.47		<2.88		<1.91		<1.80		<1.59	K0.805		7.76	7.76	25.2	
PCB-37	199	117.65	133	51.65	223	141.65	102	20.65	1.96	130	48.65	209	127.65	403	
PCB-38	k1.99		k	<3.06		2.15	2.15	<1.79	<1.58	K0.875		<0.930		<1.30	
PCB-39	k6.89		k	<2.95		k6.81		k	k2.27	k	K2.26		5.17	3.585	K8.82
PCB-40/41/71	389	275.5	232	118.5	493	379.5	180	66.5	3.83	166	52.5	338	224.5	626	
PCB-42	202	144.15	120	62.15	277	219.15	84.8	26.95	<0.670	82.3	24.45	190	132.15	316	
PCB-43	33.6	22.7	25.1	14.2	55.6	44.7	18.6	7.7	<0.699	15.3	4.4	33.1	22.2	64.2	
PCB-44/47/65	744	552.5	425	233.5	1030	838.5	319	127.5	k6.99	k	301	109.5	724	532.5	1460
PCB-45/51	209	162.5	108	61.5	229	182.5	72.4	25.9	3.13	72.1	25.6	135	88.5	228	
PCB-46	62.7	47.9	33.7	18.9	71.5	56.7	24.5	9.7	<0.732	24	9.2	47.3	32.5	77.1	
PCB-48	152	96.85	97.3	42.15	224	168.85	83.8	28.65	k1.33	k	78.6	23.45	144	88.85	276
PCB-49/69	498	369	278	149	753	624	207	78	3.67	194	65	484	355	916	
PCB-50/53	171	138.55	79.3	46.85	185	152.55	51.6	19.15	1.92	51.3	18.85	113	80.55	186	
PCB-52	948	726	514	292	1230	1008	377	155	<0.565	367	145	1060	838	2470	
PCB-54	5.34	4.548	2.73	1.938	4.6	3.808	1.6	0.808		k	6.27	5.478	2.01	1.218	3.36
PCB-55	k10		k	k14.8		k	23.3	18.22		k	<1.20	K5.65		K23.2	
PCB-56	195	138.55	142	85.55	367	310.55	78.3	21.85	k1.97	k	85.9	29.45	254	197.55	474
PCB-57	3.26	3.26	<3.60		4.74	4.74	<1.79		<1.14	1.63	1.63	2.92	2.92	5.17	

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/sample	Plante's Ferry AN-01LPA Blank Corr pg/sample	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	Boulder Beach AN-02LPA Blank Corr pg/sample	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	Dam Forebay AN-03LPA Blank Corr pg/sample	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	Barker Road AN-12LPA Blank Corr pg/sample	LAB BLANK WG10490-101 i WG10490 pg/sample	State Line AN-11LP L6286-6 WG10754 pg/sample	State Line AN-11LP Blank Corr pg/sample	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	Monroe St. AN-13LP Blank Corr pg/sample	Riverside Park AN-14LP L6286-9 WG10754 pg/sample
PCB-58	<2.31		<3.41		k2.69		<1.73	k	<1.12	<0.925		34.9	31.31	<1.77
PCB-59/62/75	79.6	58.05	52.7	31.15	116	94.45	36.5		<0.449	33.6	12.05	67	45.45	114
PCB-60	108	70.55	81.6	44.15	182	144.55	52		<1.15	56.6	19.15	137	99.55	274
PCB-61/70/74/76	768	515.5	550	297.5	1480	1227.5	388		7.77	376	123.5	1180	927.5	2690
PCB-63	23.6	17.18	14.3	7.88	48.5	42.08	11.2		<1.08	9.28	2.86	27.1	20.68	50.9
PCB-64	365	279.25	224	138.25	525	439.25	140		k2.17	k	141	55.25	358	272.25
PCB-66	430	306.5	367	243.5	975	851.5	192		5.16	181	57.5	634	510.5	1090
PCB-67	17.4	10.915	10.5	4.015	26.5	20.015	9.98		<1.04	9.16	2.675	17.9	11.415	36.2
PCB-68	k3.22		<3.38		6.62	5.56	k2.54		<1.08	2	0.94	3.65	2.59	8.55
PCB-72	4.15	4.15	<3.39		8.8	8.8	1.97	1.97	<1.11	K1.64		5.28	5.28	7.82
PCB-73	<1.12		<1.78		<1.09		<0.798		<0.699	<0.205		<0.146		<0.327
PCB-77	30.2	22.81	25.7	18.31	66.3	58.91	16.6	9.21	k1.73	k	18	10.61	53.6	46.21
PCB-78	<2.61		<3.84		<2.74		<1.82		<1.15	<0.975		<0.864		<1.86
PCB-79	4.72	4.72	k3.68		k	8.18	8.18	3.11	<0.966	K2.86		8.76	8.76	23.7
PCB-80	<2.32		<3.41		<2.51		<1.68		<1.02	<0.900		<0.798		<1.72
PCB-81	<2.79		<4.09		k4.24		k2.3		<1.14	K4.33		K1.50		5.32
PCB-82	29.5	21.1	24.4	16	71.1	62.7	19.5	11.1	<0.897	18.9	10.5	92.3	83.9	214
PCB-83/99	131	87.45	111	67.45	374	330.45	89.1	45.55	k2.82	k	97.9	54.35	471	427.45
PCB-84	70.5	46.7	49.6	25.8	139	115.2	43.4	19.6	<0.926	52.2	28.4	206	182.2	527
PCB-85/116/117	57.4	43.5	48.6	34.7	164	150.1	33.8	19.9	k1.32	k	33.6	19.7	170	156.1
PCB-86/87/97/108/119/12	155	103.05	133	81.05	346	294.05	127	75.05	3.9	139	87.05	533	481.05	1410
PCB-88/91	48.5	35.2	33.1	19.8	106	92.7	25.9	12.6	<0.807	27	13.7	122	108.7	244
PCB-89	k6.28		k2.8		k	12.6	11.05	1.65	<0.851	3.09	1.54	10.8	9.25	16.8
PCB-90/101/113	226	127.6	172	73.6	474	375.6	198	99.6	4.71	207	108.6	912	813.6	2210
PCB-92	41.7	25.6	30.6	14.5	98.3	82.2	36	19.9	<0.820	38.3	22.2	166	149.9	383
PCB-93/95/98/100/102	251	164.45	160	73.45	439	352.45	179	92.45	<0.789	190	103.45	789	702.45	1790
PCB-94	3.58	3.58	2.96	2.96	6.3	6.3	<1.14		<0.851	1.69	1.69	K4.00		8.92
PCB-96	5.42	4.581	2.77	1.931	k9.56		k1.91		k	k0.34	k	2.18	1.341	5.4
PCB-103	2.92	2.023	<2.19		6.02	5.123	k1.78		k	<0.751		K1.46		9.81
PCB-104	k0.418		<1.90		k0.76		k0.377		k	<0.437		K4.00		K0.444
PCB-105	74.6	56.75	72.3	54.45	192	174.15	50.6	32.75	1.7	53.4	35.55	270	252.15	585
PCB-106	3.22	3.22	k2.79		k	<1.56	14	14	<0.945	K10.4		<1.05		55.1
PCB-107/124	7.77	5.86	6.73	4.82	17.3	15.39	5.82	3.91	<0.992	K5.31		25.2	23.29	66.4
PCB-109	12.2	12.2	11.9	11.9	37.7	37.7	k10.8		k	<0.936		<0.970	46.3	46.3
PCB-110/115	221	151.7	201	131.7	545	475.7	185	115.7	4.17	211	141.7	928	858.7	2160
PCB-111	<1.06		<1.87		<1.82		<0.856		<0.596	<0.495		<0.594		<1.07
PCB-112	<1.05		<1.85		<1.78		<0.840		<0.632	<0.508		<0.609		<1.10
PCB-114	k7.39		k5.75		k	14.1	14.1	3.27	<1.03	K5.55		15.7	15.7	37.1
PCB-118	151	104.65	149	102.65	396	349.65	128	81.65	4.61	132	85.65	648	601.65	1530
PCB-120	<1.03		<1.82		<1.76		<0.831		<0.563	<0.485		K1.01		K2.53
PCB-121	<1.04		<1.83		<1.76		<0.829		<0.608	<0.484		<0.580		<1.04
PCB-122	k3.66		4.02	4.02	9.64	9.64	k2.06		k	<1.07		K2.06	8.24	8.24
PCB-123	5.26	5.26	4.63	4.63	12.7	12.7	2.06	2.06	<1.04	K4.01		K16.7		K23.4
PCB-126	1.48	1.48	<2.14		3.03	3.03	k2.17		k	<1.09		K1.30	K2.81	4.02
PCB-127	<1.13		<1.74		<1.74		<0.875		<0.951	<0.963		<1.09		<1.54
PCB-128/166	17.8	11.49	16.3	9.99	35.3	28.99	18.6	12.29	<0.610	19.8	13.49	80.8	74.49	146
PCB-129/138/160/163	121	67.9	105	51.9	229	175.9	147	93.9	k4.95	k	140	86.9	550	496.9
PCB-130	9.08	9.08	7.01	7.01	15.6	15.6	9.2	9.2	<0.795	8.59	8.59	36.1	36.1	65.4

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/sample	Plante's Ferry AN-01LPA Blank Corr pg/sample	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	Boulder Beach AN-02LPA Blank Corr pg/sample	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	Dam Forebay AN-03LPA Blank Corr pg/sample	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	Barker Road AN-12LPA Blank Corr pg/sample	LAB BLANK WG10490-101 i WG10490 pg/sample	State Line AN-11LP L6286-6 WG10754 pg/sample	State Line AN-11LP Blank Corr pg/sample	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	Monroe St. AN-13LP Blank Corr pg/sample	Riverside Park AN-14LP L6286-9 WG10754 pg/sample
PCB-131	2.98	2.98	<2.48		k3.19		k1.94		<0.784	2.14	2.14	K7.13		15.7
PCB-132	40.5	20.2	33.3	13	66.9	46.6	43.5	23.2	1.76	48.2	27.9	194	173.7	374
PCB-133	2.86	1.955	<2.28		k4.22		<1.67		<0.764	K2.92		8.15	7.245	K17.5
PCB-134/143	7.5	3.28	7.71	3.49	14.1	9.88	k8.35		<0.803	K7.90		33.7	29.48	68
PCB-135/151/154	64.7	26.75	50.1	12.15	92.2	54.25	60.7	22.75	k0.885	k 74.5	36.55	313	275.05	501
PCB-136	26.1	11.7	17.7	3.3	29.9	15.5	k23		k0.384	k 24.6	10.2	114	99.6	180
PCB-137	6.14	4.345	4.26	2.465	11.4	9.605	k5		<0.723	5.1	3.305	26	24.205	50.5
PCB-139/140	k2.96		<2.09		k5.61		k2.61		<0.703	2.59	2.59	8.96	8.96	21.1
PCB-141	24.9	8.8	20.4	4.3	38.6	22.5	27.3	11.2	k1.3	k 26.1	10	119	102.9	212
PCB-142	<1.04		<2.30		<1.30		<1.79		<0.793	<0.984		<1.26		<1.38
PCB-144	8.53	1.84	6.08	-0.61	12.4	5.71	8.52	1.83	k0.552	k 9.73	3.04	K37.0		69.5
PCB-145	k0.362		k0.3		k0.355		k0.24		k0.328	k <0.0561		K0.199		K0.737
PCB-146	21.5	11.56	17.8	7.86	38.5	28.56	26.9	16.96	1.47	23.9	13.96	83.9	73.96	160
PCB-147/149	118	44	96	22	183	109	138	64	k3.66	k 141	67	635	561	1070
PCB-148	k0.239		k0.253		<0.200		k0.382		<0.277	K0.197		K0.416		1.5
PCB-150	k0.448		<0.153		k0.739		k0.364		k0.339	k K0.094		K0.436		K1.40
PCB-152	k0.755		0.317	0.22	k0.527		<0.131		<0.194	K0.119		K0.387		K0.949
PCB-153/168	118	53.65	96.5	32.15	203	138.65	141	76.65	4.78	131	66.65	522	457.65	955
PCB-155	k0.615		k0.631		k0.344		<0.113		k0.402	k 2.61	2.24	K0.233		K2.05
PCB-156/157	13.7	8.69	k10.9		23.7	18.69	11.9	6.89	1.24	12.7	7.69	51.9	46.89	103
PCB-158	12.3	6.57	k10.7		22.2	16.47	13.9	8.17	<0.499	K12.6		52.5	46.77	107
PCB-159	k2.11		<1.66		2.81	2.81	<1.25		<0.519	K0.994		K3.96		5.74
PCB-161	<0.705		<1.56		<0.867		<1.20		<0.538	<0.681		<0.874		<0.957
PCB-162	k1.12		<1.68		<0.923		<1.28		<0.523	<0.705		K1.47		2.98
PCB-164	k10.6		8.26	4.47	16.5	12.71	11	7.21	<0.543	K11.1		38.5	34.71	73
PCB-165	<0.793		<1.76		<0.971		<1.34		<0.585	<0.746		<0.957		<1.05
PCB-167	5.39	3.97	4.06	2.64	k8.81		k5.05		<0.408	4.62	3.2	16.6	15.18	33.6
PCB-169	2.01	2.01	<1.72		k1.42		<1.34		0.589	<0.710		<0.947		<1.08
PCB-170	k15.7		19	19	25	25	k19.6		k1.39	k 19.2	19.2	43	43	75.4
PCB-171/173	k7.47		k7.84		10.6	10.6	7.35	7.35	<0.166	K7.54		19.6	19.6	33
PCB-172	k5.26		k4.21		k6.59		k4.73		k0.213	k 4.4	1.96	K11.5		K19.2
PCB-174	26.5	8.5	25.5	7.5	35.5	17.5	28.3	10.3	k0.75	k 31	13	88.7	70.7	128
PCB-175	k1.71		k1.46		2.21	2.21	1.67	1.67	<0.159	1.53	1.53	4.46	4.46	K6.43
PCB-176	5.41	0.76	k5.62		k5.63		5.93	1.28	k0.287	k K5.14		15.5	10.85	20.5
PCB-177	k13.4		15.7	5.68	k20.9		16.6	6.58	k1.04	k 16.7	6.68	43	32.98	66.4
PCB-178	k8.64		8.05	8.05	11.8	11.8	8.78	8.78	k0.434	k 8.23	8.23	24.4	24.4	35.1
PCB-179	19.4	4.6	17.3	2.5	21.2	6.4	18.2	3.4	k0.319	k 19.7	4.9	60.5	45.7	86.3
PCB-180/193	45.4	13.95	45.6	14.15	68.7	37.25	47	15.55	k3.1	k 49	17.55	131	99.55	247
PCB-181	<0.148		<0.148		k0.381		<0.149		<0.153	K0.280		K0.851		K2.32
PCB-182	k0.438		k0.624		k0.875		k0.779		<0.159	K0.947		K0.513		K0.669
PCB-183/185	21.6	5.35	18.5	2.25	29.5	13.25	21.5	5.25	k0.289	k 22.4	6.15	61.9	45.65	102
PCB-184	k0.533		k0.236		<0.106		k0.313		<0.117	K0.212		K0.192		2.19
PCB-186	k0.655		<0.115		<0.115		<0.116		0.152	<0.0625		<0.0531		K0.100
PCB-187	43	11.95	41.6	10.55	61.8	30.75	48.7	17.65	k1.75	k 47.2	16.15	128	96.95	203
PCB-188	<0.113		k0.333		k0.36		k0.355		k0.461	k K0.844		K0.270		K0.086
PCB-189	k1.91		<0.967		k1.82		<1.18		<0.514	0.885		K1.71		K2.98
PCB-190	k4.8		4.55	4.55	k6.7		k4.05		k0.356	k K3.97		8.62	8.62	17.3
PCB-191	k0.763		k0.842		k0.562		k1.01		<0.116	K0.792		2.65	2.65	K4.30

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Riverside Park AN-14LP Blank Corr pg/sample	LAB BLANK WG10754-101 WG10754 pg/sample	SPIKED MATRIX WG10754-102 WG10754 % REC	DAY ZERO L6164-1 WG10754 pg/sample	TRIP BLANK L6286-1 WG10754 pg/sample	Average of Day Zero SPMD and Trip Blank	LAB BLANK WG10754-101 WG10754 pg/sample	Name	IUPAC NO.	Transfer Coefficient: k1(s) (L/g*d) (Meadows et al 1998) Rs	(days) Days	Ms	EAF*	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/L	Blank Corrected	EAF*
PCB-1		K0.723	95	26.3	25.7	26	K0.723	2 - MoCB	1	12.8	32	4.5	1.69	0.09	0.01	0.888
PCB-2	3.715	K0.348		3.93	3.58	3.755	K0.348	3 - MoCB	2	12.8	32	4.5		0.02	0.01	
PCB-3	5	K1.27	97	17.6	16.2	16.9	K1.27	4 - MoCB	3	12.8	32	4.5		0.06	0.01	
PCB-4	121.65	<1.04	97	89.6	85.1	87.35	<1.04	2,2' - DiCB	4	12.8	32	4.5		0.56	0.30	
PCB-5	1.65	<0.799		5.5	4.92	5.21	<0.799	2,3 - DiCB	5	12.8	32	4.5		0.02	0.00	
PCB-6	29.8	<0.746		56.2	48.6	52.4	<0.746	2,3' - DiCB	6	12.8	32	4.5		0.42	0.26	
PCB-7	4.6	K1.22		15.6	15.4	15.5	K1.22	2,4 - DiCB	7	12.8	32	4.5		0.06	0.01	
PCB-8	104.5	<0.701		287	240	263.5	<0.701	2,4' - DiCB	8	12.8	32	4.5		1.14	0.38	
PCB-9	12.6	<0.731		18.8	17.6	18.2	<0.731	2,5 - DiCB	9	12.8	32	4.5		0.07	0.02	
PCB-10	9.285	<0.772		4.29	3.74	4.015	<0.772	2,6 - DiCB	10	12.8	32	4.5		0.04	0.02	
PCB-11	4227.9	2.17		111	93.2	102.1	2.17	3,3' - DiCB	11	12.8	32	4.5		0.55	0.26	
PCB-12/13	59.35	<0.787		15.8	16.7	16.25	<0.787	3,4 - DiCB	12	12.8	32	4.5		0.17	0.12	
PCB-14		<0.762		<1.12	<0.868		<0.762	3,5 - DiCB	14	12.8	32	4.5			0.00	
PCB-15	355	<1.01	101	133	117	125	<1.01	4,4' - DiCB	15	12.8	32	4.5		0.88	0.52	
PCB-16	271.5	<0.341		128	107	117.5	<0.341	2,2',3 - TriCB	16	6.7	32	4.5		1.26	0.62	
PCB-17	346	0.488		158	132	145	0.488	2,2',4 - TriCB	17	6.7	32	4.5		1.58	0.79	
PCB-18/30	812.5	K0.797		287	248	267.5	K0.797	2,2',5 - TriCB	18	9.2	32	4.5		2.41	1.33	
PCB-19	85.3	0.397	91.4	30.7	K27.6	30.7	0.397	2,2',6 - TriCB	19	5.3	32	4.5		1.10	0.89	
PCB-20/28	1412	0.73		501	435	468	0.73	2,3,3' - TriCB	20	8.4	32	4.5		5.71	3.66	
PCB-21/33	334.5	K0.437		262	219	240.5	K0.437	2,3,4 - TriCB	21	6.7	32	4.5		2.41	1.09	
PCB-22	407.5	K0.279		164	139	151.5	K0.279	2,3,4' - TriCB	22	5.7	32	4.5		2.71	1.73	
PCB-23	2.21	<0.161		K1.19	<0.720		<0.161	2,3,5 - TriCB	23	6.7	32	4.5			0.00	
PCB-24	14.47	<0.213		K5.12	4.53	4.53	<0.213	2,3,6 - TriCB	24	6.7	32	4.5		0.09	0.07	
PCB-25	91.35	<0.146		35.2	32.1	33.65	<0.146	2,3',4 - TriCB	25	5.7	32	4.5		0.64	0.42	
PCB-26/29	247.45	<0.161		85.4	81.7	83.55	<0.161	2,3',5 - TriCB	26	5.7	32	4.5		1.61	1.07	
PCB-27	64.1	<0.214		22.6	20	21.3	<0.214	2,3',6 - TriCB	27	6.7	32	4.5		0.48	0.37	
PCB-31	1418.5	0.69		431	392	411.5	0.69	2,4',5 - TriCB	31	7.0	32	4.5		5.69	3.52	
PCB-32	205.35	K0.243		101	84.3	92.65	K0.243	2,4',6 - TriCB	32	6.7	32	4.5		1.78	1.27	
PCB-34	4.57	<0.160		2.44	K1.66	2.44	<0.160	2',3,5 - TriCB	34	6.7	32	4.5		0.03	0.01	
PCB-35	59.84	<0.170		5.14	4.78	4.96	<0.170	3,3',4 - TriCB	35	6.7	32	4.5		0.11	0.08	
PCB-36	25.2	<0.156		<0.547	<0.699		<0.156	3,3',5 - TriCB	36	6.7	32	4.5			0.00	
PCB-37	321.65	0.41	99.5	83.4	79.3	81.35	0.41	3,4,4' - TriCB	37	6.7	32	4.5		1.09	0.65	
PCB-38		<0.156		<0.548	<0.700		<0.156	3,4,5 - TriCB	38	6.7	32	4.5			0.00	
PCB-39		<0.148		1.43	1.74	1.585	<0.148	3,4',5 - TriCB	39	6.7	32	4.5			0.00	
PCB-40/41/71	512.5	K0.164		119	108	113.5	K0.164	2,2',3,3' - TeCB	40	6.4	32	4.5		2.24	1.59	
PCB-42	258.15	K0.151		61.5	54.2	57.85	K0.151	2,2',3,4' - TeCB	42	6.2	32	4.5		1.20	0.86	
PCB-43	53.3	<0.103		10.9	K11.6	10.9	<0.103	2,2',3,5 - TeCB	43	6.2	32	4.5		0.20	0.14	
PCB-44/47/65	1268.5	0.848		205	178	191.5	0.848	2,2',3,5' - TeCB	44	7.5	32	4.5		3.66	2.72	
PCB-45/51	181.5	0.121		47.6	45.4	46.5	0.121	2,2',3,6 - TeCB	45	6.4	32	4.5		1.21	0.94	
PCB-46	62.3	<0.102		15.8	13.8	14.8	<0.102	2,2',3,6' - TeCB	46	4.4	32	4.5		0.53	0.40	
PCB-48	220.85	K0.173		55	55.3	55.15	K0.173	2,2',4,5 - TeCB	48	3.5	32	4.5		1.60	1.02	
PCB-49/69	787	K0.386		132	126	129	K0.386	2,2',4,5' - TeCB	49	5.3	32	4.5		3.47	2.57	
PCB-50/53	153.55	K0.141		33.3	31.6	32.45	K0.141	2,2',4,6 - TeCB	50	4.8	32	4.5		1.31	1.07	
PCB-52	2248	K1.23		232	212	222	K1.23	2,2',5,5' - TeCB	52	6.2	32	4.5		5.64	4.32	
PCB-54	2.568	K0.091	87.9	0.792	K0.682	0.792	K0.091	2,2',6,6' - TeCB	54	5.5	32	4.5		0.04	0.03	
PCB-55		<0.139		5.08	K4.67	5.08	<0.139	2,3,3',4 - TeCB	55	5.5	32	4.5			0.00	
PCB-56	417.55	K0.335		59.1	53.8	56.45	K0.335	2,3,3',4' - TeCB	56	5.5	32	4.5		1.32	0.94	
PCB-57	5.17	<0.130		K1.31	<1.09		<0.130	2,3,3',5 - TeCB	57	5.5	32	4.5		0.02	0.02	

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Riverside Park AN-14LP Blank Corr pg/sample	LAB BLANK WG10754-101 WG10754 pg/sample	SPIKED MATRIX WG10754-102 WG10754 % REC	DAY ZERO L6164-1 WG10754 pg/sample	TRIP BLANK L6286-1 WG10754 pg/sample	Average of Day Zero SPMD and Trip Blank	LAB BLANK WG10754-101 WG10754 pg/sample	Name	IUPAC NO.	Transfer Coefficient: k1(s) (L/g*d) (Meadows et al 1998) Rs	(days) Days	Ms	EAf*	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/L	Blank Corrected	EAf*
PCB-58		<0.126		3.59	<1.06	3.59	<0.126	2,3,3',5' - TeCB	58	5.5	32	4.5			0.00	
PCB-59/62/75	92.45	K0.103		21.3	21.8	21.55	K0.103	2,3,3',6 - TeCB	59	5.5	32	4.5		0.54	0.39	
PCB-60	236.55	<0.137		39.3	35.6	37.45	<0.137	2,3,4,4' - TeCB	60	5.5	32	4.5		0.73	0.48	
PCB-61/70/74/76	2437.5	K1.16		252	253	252.5	K1.16	2,3,4,5 - TeCB	61	6.6	32	4.5		4.29	2.88	
PCB-63	44.48	<0.123		6.42	K7.01	6.42	<0.123	2,3,4',5 - TeCB	63	5.3	32	4.5		0.16	0.12	
PCB-64	544.25	K0.268		87.8	83.7	85.75	K0.268	2,3,4',6 - TeCB	64	7.5	32	4.5		1.80	1.37	
PCB-66	966.5	K0.525		129	118	123.5	K0.525	2,3',4,4' - TeCB	66	5.3	32	4.5		2.99	2.13	
PCB-67	29.715	<0.119		6.31	6.66	6.485	<0.119	2,3',4,5 - TeCB	67	5.3	32	4.5		0.12	0.08	
PCB-68	7.49	K0.173		<0.714	1.06	1.06	K0.173	2,3',4,5' - TeCB	68	5.5	32	4.5			0.00	
PCB-72	7.82	<0.121		<0.699	<1.02		<0.121	2,3',5,5' - TeCB	72	5.5	32	4.5		0.03	0.03	
PCB-73		<0.0651		<0.141	<0.159		<0.0651	2,3',5',6 - TeCB	73	5.5	32	4.5			0.00	
PCB-77	87.41	K0.376	101	7.39	K7.23	7.39	K0.376	3,3',4,4' - TeCB	77	2.9	32	4.5		0.38	0.29	
PCB-78		<0.133		<0.767	<1.11		<0.133	3,3',4,5 - TeCB	78	4.4	32	4.5			0.00	
PCB-79	23.7	<0.115		K1.18	<0.964		<0.115	3,3',4,5' - TeCB	79	5.1	32	4.5		0.03	0.03	
PCB-80		<0.122		<0.708	<1.03		<0.122	3,3',5,5' - TeCB	80	5.5	32	4.5			0.00	
PCB-81	5.32	K0.208	102	<0.836	<1.25		K0.208	3,4,4',5 - TeCB	81	4.3	32	4.5			0.00	
PCB-82	205.6	<0.261		8.79	8.01	8.4	<0.261	2,2',3,3',4 - PeCB	82	4.4	32	4.5		0.25	0.18	
PCB-83/99	1016.45	K0.453		41.9	45.2	43.55	K0.453	2,2',3,3',5 - PeCB	83	4.6	32	4.5		1.05	0.70	
PCB-84	503.2	<0.252		27.1	20.5	23.8	<0.252	2,2',3,3',6 - PeCB	84	4.4	32	4.5		0.59	0.39	
PCB-85/116/117	324.1	<0.189		14.1	13.7	13.9	<0.189	2,2',3,4,4' - PeCB	85	4.8	32	4.5		0.44	0.33	
PCB-86/87/97/108/119/12	1358.05	K0.311		53.7	50.2	51.95	K0.311	2,2',3,4,5 - PeCB	86	4.7	32	4.5		1.22	0.81	
PCB-88/91	230.7	<0.220		14.6	12	13.3	<0.220	2,2',3,4,6 - PeCB	88	4.4	32	4.5		0.41	0.30	
PCB-89	15.25	<0.235		1.55	K1.25	1.55	<0.235	2,2',3,4,6' - PeCB	89	4.6	32	4.5			0.00	
PCB-90/101/113	2111.6	0.809		97.1	99.7	98.4	0.809	2,2',3,4',5 - PeCB	90	6.2	32	4.5		1.35	0.76	
PCB-92	366.9	<0.231		15.7	16.5	16.1	<0.231	2,2',3,5,5' - PeCB	92	5.3	32	4.5		0.29	0.18	
PCB-93/95/98/100/102	1703.45	0.967		92.9	80.2	86.55	0.967	2,2',3,5,6 - PeCB	93	6.2	32	4.5		1.49	0.98	
PCB-94	8.92	<0.228		K0.743	<0.593		<0.228	2,2',3,5,6' - PeCB	94	4.6	32	4.5		0.03	0.03	
PCB-96	9.461	<0.0935		K1.27	0.839	0.839	<0.0935	2,2',3,6,6' - PeCB	96	4.6	32	4.5		0.04	0.04	
PCB-103	8.913	<0.196		0.897	K0.775	0.897	<0.196	2,2',4,5',6 - PeCB	103	4.6	32	4.5		0.02	0.02	
PCB-104		K0.122	92.9	K0.309	0.086	0.086	K0.122	2,2',4,6,6' - PeCB	104	4.6	32	4.5			0.00	
PCB-105	567.15	K0.365	94.4	17.7	18	17.85	K0.365	2,3,3',4,4' - PeCB	105	4.0	32	4.5		0.69	0.52	
PCB-106	55.1	<0.212		<0.418	<0.849		<0.212	2,3,3',4,5 - PeCB	106	4.6	32	4.5		0.03	0.03	
PCB-107/124	64.49	<0.227		K1.78	1.91	1.91	<0.227	2,3,3',4',5 - PeCB	107	5.3	32	4.5		0.05	0.04	
PCB-109	106	<0.223		K3.08	K4.44		<0.223	2,3,3',4,6 - PeCB	109	4.6	32	4.5		0.10	0.10	
PCB-110/115	2090.7	0.704		72.6	66	69.3	0.704	2,3,3',4',6 - PeCB	110	5.7	32	4.5		1.43	0.98	
PCB-111		<0.169		<0.308	<0.439		<0.169	2,3,3',5,5' - PeCB	111	4.6	32	4.5			0.00	
PCB-112		<0.173		<0.316	<0.450		<0.173	2,3,3',5,6 - PeCB	112	4.6	32	4.5			0.00	
PCB-114	37.1	<0.224	93.8	K2.31	K1.98		<0.224	2,3,4,4',5 - PeCB	114	4.4	32	4.5			0.00	
PCB-118	1483.65	K0.787	95.2	44.9	47.8	46.35	K0.787	2,3',4,4',5 - PeCB	118	4.8	32	4.5		1.16	0.80	
PCB-120		<0.165		<0.302	<0.430		<0.165	2,3',4,5,5' - PeCB	120	4.6	32	4.5			0.00	
PCB-121		<0.165		<0.301	<0.429		<0.165	2,3',4,5',6 - PeCB	121	4.6	32	4.5			0.00	
PCB-122		<0.242		K0.636	<0.970		<0.242	2',3,3',4,5 - PeCB	122	4.6	32	4.5			0.00	
PCB-123		<0.244	97	K2.51	K1.41		<0.244	2',3,4,4',5 - PeCB	123	4.6	32	4.5		0.04	0.04	
PCB-126	4.02	<0.257	94.5	K0.889	<1.07		<0.257	3,3',4,4',5 - PeCB	126	2.2	32	4.5		0.02	0.02	
PCB-127		<0.221		<0.437	<0.887		<0.221	3,3',4,5,5' - PeCB	127	1.6	32	4.5			0.00	
PCB-128/166	139.69	<0.235		<0.429	6.31	6.31	<0.235	2,2',3,3',4,4' - HxCB	128	4.4	32	4.5		0.15	0.10	
PCB-129/138/160/163	1016.9	K0.916		54.1	52.1	53.1	K0.916	2,2',3,3',4,5 - HxCB	129	4.2	32	4.5		1.08	0.60	
PCB-130	65.4	<0.299		K3.06	K3.97		<0.299	2,2',3,3',4,5' - HxCB	130	4.0	32	4.5		0.08	0.08	

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Riverside Park AN-14LP Blank Corr pg/sample	LAB BLANK WG10754-101 WG10754 pg/sample	SPIKED MATRIX WG10754-102 WG10754 % REC	DAY ZERO L6164-1 WG10754 pg/sample	TRIP BLANK L6286-1 WG10754 pg/sample	Average of Day Zero SPMD and Trip Blank	LAB BLANK WG10754-101 WG10754 pg/sample	Name	IUPAC NO.	Transfer Coefficient: k1(s) (L/g*d) (Meadows et al 1998) Rs	(days) Days	Ms	EAF*	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/L	Blank Corrected	EAF*
PCB-131	15.7	<0.281		K0.734	K1.14		<0.281	2,2',3,3',4,6 - HxCB	131	4.2	32	4.5		0.03	0.03	
PCB-132	353.7	<0.284		20.3	K18.8	20.3	<0.284	2,2',3,3',4,6' - HxCB	132	4.2	32	4.5		0.36	0.18	
PCB-133		<0.276		0.905	K0.988	0.905	<0.276	2,2',3,3',5,5' - HxCB	133	4.2	32	4.5		0.03	0.02	
PCB-134/143	63.78	<0.283		3.68	4.76	4.22	<0.283	2,2',3,3',5,6 - HxCB	134	4.8	32	4.5		0.06	0.03	
PCB-135/151/154	463.05	<0.0334		37	38.9	37.95	<0.0334	2,2',3,3',5,6' - HxCB	135	5.3	32	4.5		0.45	0.19	
PCB-136	165.6	K0.044		15.6	13.2	14.4	K0.044	2,2',3,3',6,6' - HxCB	136	5.3	32	4.5		0.18	0.08	
PCB-137	48.705	<0.257		1.75	1.84	1.795	<0.257	2,2',3,4,4',5 - HxCB	137	3.5	32	4.5		0.06	0.05	
PCB-139/140	21.1	<0.250		K0.796	K0.933		<0.250	2,2',3,4,4',6 - HxCB	139	4.2	32	4.5			0.00	
PCB-141	195.9	<0.269		15.1	17.1	16.1	<0.269	2,2',3,4,5,5' - HxCB	141	4.8	32	4.5		0.19	0.07	
PCB-142		<0.287		<0.524	<0.477		<0.287	2,2',3,4,5,6 - HxCB	142	4.2	32	4.5			0.00	
PCB-144	62.81	K0.053		6.81	6.57	6.69	K0.053	2,2',3,4,5,6' - HxCB	144	4.2	32	4.5		0.07	0.02	
PCB-145		<0.0257		<0.0605	<0.0562		<0.0257	2,2',3,4,6,6' - HxCB	145	4.2	32	4.5			0.00	
PCB-146	150.06	<0.247		K9.05	9.94	9.94	<0.247	2,2',3,4',5,5' - HxCB	146	4.8	32	4.5		0.17	0.09	
PCB-147/149	996	K0.465		72.8	75.2	74	K0.465	2,2',3,4',5,6 - HxCB	147	5.7	32	4.5		0.76	0.28	
PCB-148	1.5	<0.0352		K0.168	K0.192		<0.0352	2,2',3,4',5,6' - HxCB	148	4.2	32	4.5			0.00	
PCB-150		0.033		0.129	K0.132	0.129	0.033	2,2',3,4',6,6' - HxCB	150	4.2	32	4.5			0.00	
PCB-152		K0.043		K0.124	0.097	0.097	K0.043	2,2',3,5,6,6' - HxCB	152	4.2	32	4.5			0.00	
PCB-153/168	890.65	0.763		59.9	68.8	64.35	0.763	2,2',4,4',5,5' - HxCB	153	3.2	32	4.5		1.36	0.62	
PCB-155		K0.058	94	0.37	K0.170	0.37	K0.058	2,2',4,4',6,6' - HxCB	155	4.2	32	4.5			0.00	
PCB-156/157	97.99	K0.539	94.4	5.01	K5.24	5.01	K0.539	2,3,3',4,4',5 - HxCB	156	2.6	32	4.5		0.19	0.12	
PCB-158	101.27	<0.193		5.73	K5.36	5.73	<0.193	2,3,3',4,4',6 - HxCB	158	3.5	32	4.5		0.13	0.07	
PCB-159	5.74	<0.205		K0.799	K0.783		<0.205	2,3,3',4,5,5' - HxCB	159	4.2	32	4.5			0.00	
PCB-161		<0.199		<0.363	<0.330		<0.199	2,3,3',4,5,6 - HxCB	161	4.2	32	4.5			0.00	
PCB-162	2.98	<0.206		<0.376	<0.342		<0.206	2,3,3',4',5,5' - HxCB	162	4.2	32	4.5			0.00	
PCB-164	69.21	<0.214		3.79	K4.85	3.79	<0.214	2,3,3',4',5,6 - HxCB	164	4.2	32	4.5			0.00	
PCB-165		<0.218		<0.398	<0.362		<0.218	2,3,3',5,5',6 - HxCB	165	4.2	32	4.5			0.00	
PCB-167	32.18	0.267	94.1	1.42	K1.73	1.42	0.267	2,3',4,4',5,5' - HxCB	167	4.2	32	4.5		0.05	0.03	
PCB-169		K0.250	96	<0.388	<0.367		K0.250	3,3',4,4',5,5' - HxCB	169	2.1	32	4.5		0.04	0.04	
PCB-170	75.4	K0.337		K11.3	K8.80		K0.337	2,2',3,3',4,4',5 - HpCB	170	2.6	32	4.5			0.00	
PCB-171/173	33	K0.159		K4.47	K4.44		K0.159	2,2',3,3',4,4',6 - HpCB	171	2.6	32	4.5			0.00	
PCB-172		0.111		K2.34	2.44	2.44	0.111	2,2',3,3',4,5,5' - HpCB	172	1.3	32	4.5			0.00	
PCB-174	110	K0.061		K19.8	18	18	K0.061	2,2',3,3',4,5,6' - HpCB	174	3.1	32	4.5		0.32	0.10	
PCB-175		<0.0247		K0.976	K1.09		<0.0247	2,2',3,3',4,5',6 - HpCB	175	2.6	32	4.5			0.00	
PCB-176	15.85	K0.027		K3.77	4.65	4.65	K0.027	2,2',3,3',4,6,6' - HpCB	176	2.2	32	4.5		0.09	0.01	
PCB-177	56.38	<0.0267		9.24	10.8	10.02	<0.0267	2,2',3,3',4',5,6 - HpCB	177	2.6	32	4.5			0.00	
PCB-178	35.1	0.053		K5.05	K6.46		0.053	2,2',3,3',5,5',6 - HpCB	178	3.1	32	4.5			0.00	
PCB-179	71.5	K0.154		14.8	K15.5	14.8	K0.154	2,2',3,3',5,6,6' - HpCB	179	2.2	32	4.5		0.33	0.08	
PCB-180/193	215.55	K0.686		32.4	30.5	31.45	K0.686	2,2',3,4,4',5,5' - HpCB	180	2.6	32	4.5		0.64	0.20	
PCB-181		K0.058		K0.220	<0.0691		K0.058	2,2',3,4,4',5,6 - HpCB	181	2.6	32	4.5			0.00	
PCB-182		K0.084		K0.110	K0.372		K0.084	2,2',3,4,4',5,6' - HpCB	182	2.6	32	4.5			0.00	
PCB-183/185	85.75	K0.526		15.1	17.4	16.25	K0.526	2,2',3,4,4',5',6 - HpCB	183	2.6	32	4.5		0.31	0.08	
PCB-184	2.19	<0.0173		K0.068	K0.050		<0.0173	2,2',3,4,4',6,6' - HpCB	184	2.6	32	4.5			0.00	
PCB-186		<0.0190		K0.081	K0.070		<0.0190	2,2',3,4,5,6,6' - HpCB	186	2.6	32	4.5			0.00	
PCB-187	171.95	0.526		29.4	32.7	31.05	0.526	2,2',3,4',5,5',6 - HpCB	187	3.5	32	4.5		0.45	0.13	
PCB-188		K0.101	92.4	K0.108	<0.0440		K0.101	2,2',3,4',5,6,6' - HpCB	188	2.6	32	4.5			0.00	
PCB-189		K0.571	103	<0.0529	0.949	0.949	K0.571	2,3,3',4,4',5,5' - HpCB	189	2.6	32	4.5			0.00	
PCB-190	17.3	0.029		K2.04	K1.89		0.029	2,3,3',4,4',5,6 - HpCB	190	2.6	32	4.5			0.00	
PCB-191		K0.081		K0.429	K0.379		K0.081	2,3,3',4,4',5',6 - HpCB	191	2.6	32	4.5			0.00	

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Riverside Park AN-14LP Blank Corr pg/sample	LAB BLANK WG10754-101 WG10754 pg/sample	SPIKED MATRIX WG10754-102 WG10754 % REC	DAY ZERO L6164-1 WG10754 pg/sample	TRIP BLANK L6286-1 WG10754 pg/sample	Average of Day Zero SPMD and Trip Blank	LAB BLANK WG10754-101 WG10754 pg/sample	Name	IUPAC NO.	Transfer Coefficient: k1(s) (L/g*d) (Meadows et al 1998) Rs	(days) Days	Ms	EAF*	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/L	Blank Corrected	EAF*
PCB-192		<0.0218		K0.112	K0.076		<0.0218	2,3,3',4,5,5',6 - HpCB	192	2.6	32	4.5			0.00	
PCB-194	17.55	K0.367		4.85	K4.02	4.85	K0.367	2,2',3,3',4,4',5,5' - OcCB	194	1.3	32	4.5			0.00	
PCB-195	5.67	K0.159		2.49	K1.71	2.49	K0.159	2,2',3,3',4,4',5,6 - OcCB	195	1.6	32	4.5		0.09	0.03	
PCB-196	12.65	0.118		K3.29	3.65	3.65	0.118	2,2',3,3',4,4',5,6' - OcCB	196	1.6	32	4.5		0.12	0.04	
PCB-197/200	8.6	<0.0312		K2.98	<0.0594		<0.0312	2,2',3,3',4,4',6,6' - OcCB	197	1.6	32	4.5		0.09	0.09	
PCB-198/199	38.61	K0.238		K10.0	8.49	8.49	K0.238	2,2',3,3',4,5,5',6 - OcCB	198	1.8	32	4.5		0.71	0.54	
PCB-201		<0.0306		2.38	2.33	2.355	<0.0306	2,2',3,3',4,5,6,6' - OcCB	201	1.8	32	4.5			0.00	
PCB-202	15.9	K0.188	93.5	K4.75	K4.63		K0.188	2,2',3,3',5,5',6,6' - OcCB	202	1.6	32	4.5		0.13	0.13	
PCB-203	18.82	K0.117		5.08	K4.98	5.08	K0.117	2,2',3,4,4',5,5',6 - OcCB	203	1.6	32	4.5		0.15	0.03	
PCB-204	0.177	<0.0305		0.148	K0.174	0.148	<0.0305	2,2',3,4,4',5,6,6' - OcCB	204	1.6	32	4.5			0.00	
PCB-205		0.519	96.4	0.965	K0.455	0.965	0.519	2,3,3',4,4',5,5',6 - OcCB	205	1.6	32	4.5		0.02	0.00	
PCB-206		0.84	93.6	2.46	K2.29	2.46	0.84	2,2',3,3',4,4',5,5',6 - NoCB	206	0.40	32	4.5			0.00	
PCB-207	1.44	<0.259		<0.627	K0.814		<0.259	2,2',3,3',4,4',5,6,6' - NoCB	207	0.40	32	4.5			0.00	
PCB-208		0.491	94.7	K1.26	K1.29		0.491	2,2',3,3',4,5,5',6,6' - NoCB	208	0.40	32	4.5			0.00	
PCB-209	2.74	1.2	84.5	K3.27	3.06	3.06	1.2	2,2',3,3',4,4',5,5',6,6' - DeCB	209	0.40	32	4.5		0.48	0.20	
								SPMDs								
								Total Monochloro Biphenyls						0.16	0.03	
								Total Dichloro Biphenyls						3.89	1.90	
								Total Trichloro Biphenyls						28.71	17.55	
								Total Tetrachloro Biphenyls						33.54	24.42	
								Total Pentachloro Biphenyls						10.70	7.25	
								Total Hexachloro Biphenyls						5.43	2.68	
								Total Heptachloro Biphenyls						2.14	0.59	
								Total Octachloro Biphenyls						1.31	0.86	
								Total Nonachloro Biphenyls						0.00	0.00	
								Decachloro Biphenyl						0.48	0.20	
								TOTAL PCBs						86.37	55.49	

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	Blank Corrected	EAF*	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	Blank Corrected	EAF*	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	Blank Corrected	EAF*	Laboratory Blank LAB BLANK WG10490-101 i WG10490 pg/sample	EAF	State Line AN-11LP L6286-6 WG10754 pg/sample	Blank Corrected	EAF	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	Blank Corrected	EAF	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	Blank Corrected
PCB-1	0.13	0.00	1.37	0.07	0.00	1.965	0.04	0.00	1.000		2.14	0.07	0.01	1.56	0.07	0.00	2.35	0.05	0.00
PCB-2	0.03	0.01					0.01	0.00				0.01	0.00		0.02	0.01		0.02	0.01
PCB-3	0.08	0.00		0.06	0.00		0.03	0.00				0.06	0.03		0.06	0.01		0.05	0.01
PCB-4	0.73	0.25		0.53	0.22		0.15	0.00				0.24	0.04		0.37	0.09		0.43	0.25
PCB-5				0.02	0.00		0.01	0.00				0.01	0.00		0.02	0.00		0.01	0.00
PCB-6	0.50	0.22		0.37	0.18		0.12	0.00				0.14	0.02		0.24	0.08		0.17	0.06
PCB-7	0.08	0.00		0.06	0.01		0.03	0.00				0.04	0.00		0.05	0.00		0.04	0.01
PCB-8	1.63	0.18		1.17	0.23		0.55	0.00				0.70	0.10		1.00	0.18		0.77	0.22
PCB-9	0.10	0.00		0.08	0.01		0.04	0.00				0.05	0.00		0.07	0.01		0.06	0.03
PCB-10	0.05	0.02		0.03	0.02		0.01	0.00				0.01	0.00		0.02	0.01		0.03	0.02
PCB-11	2.74	2.18		3.69	3.33		0.76	0.51				0.52	0.29		9.88	9.56		9.00	8.79
PCB-12/13	0.16	0.07		0.20	0.14		0.06	0.02				0.06	0.02		0.18	0.13		0.16	0.12
PCB-14								0.00					0.00						
PCB-15	1.00	0.31		0.92	0.48		0.37	0.05				0.47	0.18		0.81	0.42		1.00	0.74
PCB-16	1.72	0.49		1.58	0.79		0.64	0.09				0.74	0.23		1.28	0.58		1.54	1.08
PCB-17	2.15	0.63		2.12	1.14		0.74	0.05				0.88	0.25		1.54	0.67		1.95	1.37
PCB-18/30	3.23	1.18		3.25	1.92		1.03	0.11		0.01		1.23	0.38		2.18	1.02		3.12	2.35
PCB-19	1.12	0.71		1.04	0.77		0.20	0.02		0.03		0.26	0.09		0.50	0.27		0.58	0.43
PCB-20/28	6.39	2.46		7.04	4.50		2.10	0.33		0.02		2.41	0.79		5.00	2.77		5.96	4.47
PCB-21/33	3.35	0.82		2.92	1.29		1.36	0.22		0.01		1.43	0.39		2.45	1.02		2.28	1.33
PCB-22	3.01	1.14		2.90	1.69		0.94	0.09				1.09	0.31		2.35	1.29		2.61	1.90
PCB-23								0.00				0.03	0.03					0.01	0.01
PCB-24	0.12	0.07		0.10	0.07			0.00				0.03	0.01		0.06	0.03		0.08	0.06
PCB-25	0.71	0.30		0.70	0.43		0.23	0.04				0.24	0.07		0.51	0.27		0.58	0.43
PCB-26/29	1.73	0.70		1.75	1.09		0.55	0.08				0.59	0.17		1.19	0.61		1.55	1.16
PCB-27	0.51	0.29		0.49	0.35		0.13	0.03				0.13	0.04		0.30	0.18		0.34	0.25
PCB-31	6.59	2.45		6.95	4.28		2.18	0.31		0.02		2.46	0.74		5.00	2.65		6.96	5.39
PCB-32	1.63	0.65		1.46	0.84		0.47	0.03				0.55	0.14		0.93	0.38		1.18	0.81
PCB-34	0.03	0.01		0.04	0.03			0.00				0.04	0.03		0.02	0.01		0.03	0.02
PCB-35				0.11	0.07		0.05	0.02							0.14	0.11		0.26	0.24
PCB-36								0.00							0.05	0.05		0.10	0.10
PCB-37	1.39	0.54		1.51	0.96		0.48	0.10		0.01		0.56	0.21		1.25	0.76		1.60	1.27
PCB-38				0.01	0.01			0.00											
PCB-39								0.00							0.03	0.02			
PCB-40/41/71	2.55	1.30		3.50	2.70		0.89	0.33		0.02		0.76	0.24		2.11	1.40		2.60	2.13
PCB-42	1.36	0.71		2.03	1.61		0.43	0.14				0.39	0.12		1.23	0.85		1.36	1.11
PCB-43	0.29	0.16		0.41	0.33		0.10	0.04				0.07	0.02		0.21	0.14		0.28	0.23
PCB-44/47/65	3.99	2.19		6.24	5.08		1.35	0.54				1.17	0.43		3.86	2.84		5.18	4.50
PCB-45/51	1.20	0.68		1.64	1.31		0.36	0.13		0.02		0.33	0.12		0.85	0.56		0.96	0.76
PCB-46	0.54	0.30		0.74	0.59		0.18	0.07				0.16	0.06		0.43	0.30		0.47	0.38
PCB-48	1.96	0.85		2.91	2.19		0.76	0.26				0.66	0.20		1.65	1.02		2.10	1.68
PCB-49/69	3.69	1.98		6.46	5.35		1.24	0.47		0.02		1.07	0.36		3.66	2.68		4.60	3.95
PCB-50/53	1.16	0.69		1.75	1.44		0.34	0.13		0.01		0.31	0.11		0.94	0.67		1.03	0.85
PCB-52	5.84	3.32		9.02	7.39		1.93	0.80				1.73	0.68		6.84	5.41		10.60	9.65
PCB-54	0.04	0.03		0.04	0.03		0.01	0.00				0.03	0.03		0.01	0.01		0.02	0.01
PCB-55				0.19	0.15			0.00											
PCB-56	1.83	1.11		3.06	2.59		0.46	0.13				0.46	0.16		1.87	1.45		2.31	2.04
PCB-57				0.04	0.04			0.00				0.01	0.01		0.02	0.02		0.03	0.03

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	Blank Corrected	EAF*	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	Blank Corrected	EAF*	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	Blank Corrected	EAF*	Laboratory Blank LAB BLANK WG10490-101 i WG10490 pg/sample	EAF	State Line AN-11LP L6286-6 WG10754 pg/sample	Blank Corrected	EAF	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	Blank Corrected	EAF	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	Blank Corrected		
PCB-58							0.00								0.26	0.23					
PCB-59/62/75	0.68	0.40		0.97	0.79		0.21	0.09				0.18	0.06		0.49	0.33			0.56	0.45	
PCB-60	1.05	0.57		1.52	1.21		0.30	0.08				0.30	0.10		1.01	0.73			1.34	1.15	
PCB-61/70/74/76	5.87	3.17		10.19	8.45		1.87	0.65		0.04		1.66	0.55		7.16	5.63			10.85	9.83	
PCB-63	0.19	0.10		0.42	0.36		0.07	0.03				0.05	0.02		0.20	0.16			0.26	0.22	
PCB-64	2.10	1.30		3.18	2.66		0.59	0.23				0.55	0.21		1.91	1.45			2.24	1.93	
PCB-66	4.88	3.23		8.36	7.30		1.15	0.41		0.03		1.00	0.32		4.79	3.86			5.47	4.85	
PCB-67	0.14	0.05		0.23	0.17		0.06	0.02				0.05	0.01		0.14	0.09			0.18	0.15	
PCB-68				0.06	0.05			0.00				0.01	0.01		0.03	0.02			0.04	0.04	
PCB-72				0.07	0.07		0.01	0.01							0.04	0.04			0.04	0.04	
PCB-73								0.00													
PCB-77	0.62	0.44		1.04	0.92		0.18	0.10				0.18	0.11		0.74	0.64			0.87	0.80	
PCB-78								0.00													
PCB-79				0.07	0.07		0.02	0.02							0.07	0.07			0.12	0.12	
PCB-80								0.00													
PCB-81								0.00											0.03	0.03	
PCB-82	0.39	0.26		0.73	0.65		0.14	0.08				0.13	0.07		0.84	0.76			1.29	1.24	
PCB-83/99	1.70	1.03		3.70	3.27		0.62	0.31				0.62	0.34		4.10	3.72			6.13	5.88	
PCB-84	0.79	0.41		1.44	1.19		0.31	0.14				0.35	0.19		1.87	1.66			3.19	3.04	
PCB-85/116/117	0.71	0.51		1.55	1.42		0.22	0.13				0.20	0.12		1.42	1.30			1.87	1.80	
PCB-86/87/97/108/119/12	1.99	1.21		3.35	2.84		0.86	0.51		0.03		0.86	0.54		4.54	4.10			7.98	7.69	
PCB-88/91	0.53	0.32		1.10	0.96		0.19	0.09				0.18	0.09		1.11	0.99			1.48	1.40	
PCB-89				0.12	0.11		0.01	0.00				0.02	0.01		0.09	0.08			0.10	0.09	
PCB-90/101/113	1.95	0.84		3.48	2.75		1.02	0.51		0.02		0.97	0.51		5.89	5.25			9.48	9.06	
PCB-92	0.41	0.19		0.84	0.71		0.22	0.12				0.21	0.12		1.25	1.13			1.92	1.84	
PCB-93/95/98/100/102	1.82	0.83		3.22	2.58		0.92	0.47				0.89	0.49		5.09	4.54			7.68	7.31	
PCB-94	0.05	0.05		0.06	0.06			0.00				0.01	0.01						0.05	0.05	
PCB-96	0.04	0.03						0.00				0.01	0.01		0.05	0.04			0.06	0.05	
PCB-103				0.06	0.05			0.00											0.06	0.05	
PCB-104								0.00													
PCB-105	1.27	0.96		2.18	1.98		0.40	0.26		0.01		0.39	0.26		2.70	2.52			3.89	3.77	
PCB-106							0.10	0.10											0.32	0.32	
PCB-107/124	0.09	0.06		0.15	0.13		0.03	0.02							0.19	0.18			0.33	0.32	
PCB-109	0.18	0.18		0.37	0.37			0.00							0.40	0.40			0.61	0.61	
PCB-110/115	2.48	1.63		4.35	3.79		1.03	0.65		0.02		1.08	0.73		6.52	6.03			10.08	9.76	
PCB-111								0.00													
PCB-112								0.00													
PCB-114				0.15	0.15		0.02	0.02							0.14	0.14			0.22	0.22	
PCB-118	2.19	1.51		3.75	3.31		0.85	0.54		0.03		0.80	0.52		5.40	5.02			8.48	8.22	
PCB-120								0.00													
PCB-121								0.00													
PCB-122	0.06	0.06		0.10	0.10			0.00							0.07	0.07					
PCB-123	0.07	0.07		0.13	0.13		0.01	0.01													
PCB-126				0.06	0.06			0.00											0.05	0.05	
PCB-127								0.00													
PCB-128/166	0.26	0.16		0.36	0.30		0.13	0.09				0.13	0.09		0.74	0.68			0.88	0.84	
PCB-129/138/160/163	1.78	0.88		2.51	1.93		1.13	0.72				0.98	0.61		5.31	4.79			6.86	6.52	
PCB-130	0.12	0.12		0.18	0.18		0.07	0.07				0.06	0.06		0.36	0.36			0.44	0.44	

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	Blank Corrected	EAF*	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	Blank Corrected	EAF*	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	Blank Corrected	EAF*	Laboratory Blank LAB BLANK WG10490-101 i WG10490 pg/sample	EAF	State Line AN-11LP L6286-6 WG10754 pg/sample	Blank Corrected	EAF	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	Blank Corrected	EAF	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	Blank Corrected	
PCB-131							0.00					0.01	0.01			0.00			0.10	0.10
PCB-132	0.56	0.22		0.72	0.50		0.33	0.18		0.01		0.33	0.19		1.85	1.66			2.37	2.24
PCB-133								0.00							0.08	0.07				
PCB-134/143	0.11	0.05		0.13	0.09			0.00							0.28	0.25			0.38	0.35
PCB-135/151/154	0.67	0.16		0.79	0.47		0.36	0.14				0.41	0.20		2.36	2.08			2.52	2.32
PCB-136	0.24	0.04		0.26	0.13			0.00				0.14	0.06		0.86	0.75			0.90	0.83
PCB-137	0.09	0.05		0.15	0.12			0.00				0.04	0.03		0.30	0.28			0.38	0.37
PCB-139/140								0.00				0.02	0.02		0.09	0.09			0.13	0.13
PCB-141	0.30	0.06		0.37	0.21		0.18	0.07				0.16	0.06		0.99	0.86			1.18	1.09
PCB-142								0.00												
PCB-144	0.10	-0.01		0.13	0.06		0.06	0.01				0.07	0.02						0.44	0.40
PCB-145								0.00												
PCB-146	0.26	0.12		0.36	0.27		0.18	0.11		0.01		0.15	0.08		0.70	0.62			0.89	0.83
PCB-147/149	1.19	0.27		1.46	0.87		0.77	0.36				0.72	0.34		4.46	3.94			5.00	4.65
PCB-148								0.00											0.01	0.01
PCB-150								0.00												
PCB-152	0.01	0.00						0.00												
PCB-153/168	2.12	0.71		2.88	1.97		1.40	0.76		0.05		1.19	0.61		6.53	5.73			7.94	7.41
PCB-155								0.00				0.02	0.02							
PCB-156/157				0.41	0.33		0.15	0.08		0.01		0.14	0.09		0.80	0.72			1.05	1.00
PCB-158				0.29	0.21		0.13	0.07							0.60	0.53			0.81	0.77
PCB-159				0.03	0.03			0.00											0.04	0.04
PCB-161								0.00												
PCB-162								0.00											0.02	0.02
PCB-164	0.14	0.07		0.18	0.14		0.08	0.05							0.37	0.33			0.46	0.44
PCB-165								0.00												
PCB-167	0.07	0.04						0.00				0.03	0.02		0.16	0.14			0.21	0.20
PCB-169								0.00		0.01										
PCB-170	0.51	0.51		0.44	0.44			0.00				0.22	0.22		0.66	0.66			0.77	0.77
PCB-171/173				0.19	0.19		0.09	0.09							0.30	0.30			0.34	0.34
PCB-172								0.00				0.10	0.04							
PCB-174	0.58	0.17		0.52	0.26		0.29	0.11				0.29	0.12		1.15	0.91			1.10	0.94
PCB-175				0.04	0.04		0.02	0.02				0.02	0.02		0.07	0.07				
PCB-176							0.09	0.02							0.28	0.20			0.25	0.19
PCB-177	0.43	0.15					0.20	0.08				0.19	0.07		0.66	0.51			0.68	0.58
PCB-178	0.18	0.18		0.17	0.17		0.09	0.09				0.08	0.08		0.32	0.32			0.30	0.30
PCB-179	0.55	0.08		0.44	0.13		0.26	0.05				0.26	0.06		1.10	0.83			1.04	0.86
PCB-180/193	1.23	0.38		1.20	0.65		0.57	0.19				0.55	0.20		2.02	1.53			2.53	2.21
PCB-181								0.00												
PCB-182								0.00												
PCB-183/185	0.50	0.06		0.52	0.23		0.26	0.06				0.25	0.07		0.95	0.70			1.04	0.88
PCB-184								0.00											0.02	0.02
PCB-186								0.00		0.00										
PCB-187	0.84	0.21		0.80	0.40		0.44	0.16				0.39	0.13		1.46	1.11			1.54	1.31
PCB-188								0.00												
PCB-189								0.00				0.01	0.00							
PCB-190	0.12	0.12						0.00							0.13	0.13			0.18	0.18
PCB-191								0.00							0.04	0.04				

**Table D-2
Raw SPMD Data and Blank Correction Calculations - August 2003**

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	Blank Corrected	EAF*	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	Blank Corrected	EAF*	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	Blank Corrected	EAF*	Laboratory Blank LAB BLANK WG10490-101 i WG10490 pg/sample	EAF	State Line AN-11LP L6286-6 WG10754 pg/sample	Blank Corrected	EAF	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	Blank Corrected	EAF	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	Blank Corrected	
PCB-192							0.00								0.00	0.00				
PCB-194	0.38	0.12		0.44	0.27			0.00		0.03		0.11	0.00		0.43	0.28			0.46	0.36
PCB-195	0.16	0.05		0.15	0.08			0.00				0.04	0.00						0.14	0.09
PCB-196							0.00								0.22	0.13			0.27	0.21
PCB-197/200	0.07	0.07					0.00								0.11	0.11			0.14	0.14
PCB-198/199	0.47	0.14		0.46	0.25		0.23	0.08				0.20	0.06		0.49	0.30			0.70	0.57
PCB-201							0.00			0.00		0.05	0.01		0.08	0.03				
PCB-202	0.21	0.21					0.00												0.26	0.26
PCB-203	0.33	0.11					0.15	0.05											0.40	0.31
PCB-204							0.00					0.01	0.01						0.01	0.00
PCB-205				0.04	0.01		0.00					0.01	0.00							
PCB-206							0.00					0.27	0.09							
PCB-207							0.00					0.05	0.05						0.10	0.10
PCB-208							0.00													
PCB-209							0.42	0.17		0.09									0.39	0.18
	0.24	0.01		0.13	0.00		0.08	0.00		0.00		0.15	0.04		0.16	0.02			0.11	0.02
	6.99	3.23		7.07	4.62		2.10	0.58		0.00		2.24	0.66		12.64	10.48			11.67	10.24
	33.68	12.45		33.97	20.23		11.11	1.53		0.10		12.68	3.88		24.80	12.69			30.71	22.66
	39.98	22.59		64.14	52.86		12.53	4.68		0.14		11.13	3.91		40.52	30.60			53.51	46.93
	16.73	10.15		30.87	26.61		6.95	3.98		0.12		6.73	4.01		41.69	37.94			65.30	62.79
	8.01	2.96		11.22	7.82		4.98	2.73		0.09		4.61	2.52		26.83	23.87			33.01	31.01
	4.95	1.88		4.31	2.51		2.32	0.87		0.00		2.35	1.02		9.15	7.32			9.80	8.58
	1.62	0.69		1.09	0.61		0.38	0.13		0.03		0.42	0.08		1.33	0.85			2.37	1.96
	0.00	0.00		0.00	0.00		0.00	0.00		0.00		0.32	0.14		0.00	0.00			0.10	0.10
	0.00	0.00		0.00	0.00		0.42	0.17		0.09		0.00	0.00		0.00	0.00			0.39	0.18
	112.20	53.96		152.80	115.24		40.88	14.67		0.57		40.62	16.25		157.12	123.77			206.95	184.47

Table D-3
Performance Reference Compound Data and Calculations - August 2003 Data

Sample Location		Plante's Ferry	Boulder Beach	Dam Forebay	Barker Road	Stateline	Monroe St	Riverside	Day Zero
PCB Congener 8 - Labeled with C13									
	8L - nominal recovery	68.00%	89.20%	75.40%	65.40%	85.40%	65.20%	79.40%	122.40%
	8L - adj recovery	55.56%	72.88%	61.60%	53.43%	69.77%	53.27%	64.87%	
	Ke PRC - adjusted	0.01837	0.00989	0.01514	0.01959	0.01125	0.01968	0.01352	
	Ke PRC cal	0.0491	0.0491	0.0491	0.0491	0.0491	0.0491	0.0491	
	EAF - Huckins	0.374	0.202	0.309	0.399	0.229	0.401	0.276	
PAHs		nominal	nominal	nominal	nominal	nominal	nominal	nominal	nominal
log Kow		% recovery	% recovery	% recovery	% recovery	% recovery	% recovery	% recovery	% recovery
4.38	Fluorene-d10	11	30	16	8	9	14	6	103
4.54	Anthracene-d10	43	69	50	38	34	45	30	109
5.3	Pyrene-d10	94	102	101	88	79	96	81	114
		Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)
	Fluorene-d10	1.1	3	1.6	0.8	0.9	1.4	0.6	10.3
	Anthracene-d10	4.3	6.9	5	3.8	3.4	4.5	3	10.9
	Pyrene-d10	9.4	10.2	10.1	8.8	7.9	9.6	8.1	11.4
		actual percent	actual percent	actual percent	actual percent	actual percent	actual percent	actual percent	actual percent
		recovery	recovery	recovery	recovery	recovery	recovery	recovery	recovery
	Fluorene-d10	10.7%	29.1%	15.5%	7.8%	8.7%	13.6%	5.8%	100.0%
	Anthracene-d10	39.4%	63.3%	45.9%	34.9%	31.2%	41.3%	27.5%	100.0%
	Pyrene-d10	82.5%	89.5%	88.6%	77.2%	69.3%	84.2%	71.1%	100.0%
Fluorene-d10	Ke PRC	0.06990	0.03855	0.05819	0.07985	0.07617	0.06236	0.08884	
Anthracene-d10	Ke PRC	0.02907	0.01429	0.02435	0.03293	0.03641	0.02765	0.04032	
Pyrene-d10	Ke PRC	0.00603	0.00348	0.00378	0.00809	0.01146	0.00537	0.01068	
Fluorene-d10	EAF	1.93	1.07	1.61	2.21	2.11	1.73	2.46	
Anthracene-d10	EAF	2.57	1.26	2.15	2.91	3.21	2.44	3.56	
Pyrene-d10	EAF	0.58	0.34	0.36	0.78	1.10	0.52	1.03	
Average EAF (all PAH)		1.69	0.89	1.37	1.97	2.14	1.56	2.35	

Note: All abbreviations and calculations are defined in the text at the beginning of this appendix.

Constants				
PCB-8 Constants				
Kspmd	58000		PCB-6	From USGS / Huckins spreadsheet
Ke PRC cal	0.0491			
	SPMD K1	Kspmd	Ke PRC cal	
	L/g-d			
Fluorene-d10	0.56	15500	0.0361	
Anthracene-d10	0.53	46773	0.0113	
Pyrene-d10	0.83	80000	0.0104	
	SPMD K1	Kspmd	Ke PRC cal	
	L/g-d			
Fluorene-d10	0.56	15500	0.0361	
Anthracene-d10	0.53	46773	0.0113	
Pyrene-d10	0.83	80000	0.0104	

Table D-4
Total PCBs - Qualified Per EPA Region X Guidelines - August 2003 Data

SPMDs	State Line pg/L	Barker Road pg/L	Plante's Ferry pg/L	Boulder Beach pg/L	Dam Forebay pg/L	Monroe St. pg/L	Riverside pg/L
Total Monochloro Biphenyls	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Dichloro Biphenyls	0.00	0.00	0.00	0.00	3.69	9.88	9.00
Total Trichloro Biphenyls	0.03	0.00	1.10	0.00	0.01	0.05	0.37
Total Tetrachloro Biphenyls	0.04	0.03	1.44	0.00	51.38	1.13	49.98
Total Pentachloro Biphenyls	0.01	0.13	0.26	0.36	24.18	41.69	65.30
Total Hexachloro Biphenyls	0.11	0.07	0.11	0.12	0.72	26.83	33.01
Total Heptachloro Biphenyls	0.31	0.20	0.00	0.82	0.83	1.52	9.55
Total Octachloro Biphenyls	0.00	0.00	0.22	0.28	0.00	0.11	1.10
Total Nonachloro Biphenyls	0.05	0.00	0.00	0.00	0.00	0.00	0.10
Decachloro Biphenyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL PCBs	0.56	0.44	3.13	1.59	80.82	81.20	168.39
Sum of Penta & Greater	0.49	0.41	0.59	1.59	25.73	70.15	109.05

Table D-5
Raw Data, EPA Qualification, and Calculations - August 2003

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/sample	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	LAB BLANK WG10490-101 i WG10490 pg/sample	DAY ZERO L6164-1 WG10754 pg/sample	TRIP BLANK L6286-1 WG10754 pg/sample	State Line AN-11LP L6286-6 WG10754 pg/sample	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	LAB BLANK WG10754-101 WG10754 pg/sample	DAY ZERO L6164-1 WG10754 pg/sample	TRIP BLANK L6286-1 WG10754 pg/sample
PCB-1	30.2 UB	23 UB	20.5 UB	14.8 UB	<2.06	26.3	25.7	32.4 UB	23 UB	22.9 UB	K0.723	26.3	25.7
PCB-2	6.89 UB	6.21 UB	k6.2	4.59 UB	<2.34	3.93	3.58	4.45 UB	7.55 UB	7.47 UB	K0.348	3.93	3.58
PCB-3	19.8 UB	14.4 UB	15.5 UB	13.3 UB	k3.72	17.6	16.2	28.1 UB	20 UB	21.9 UB	K1.27	17.6	16.2
PCB-4	193 UB	133 UB	148 UB	62.2 UB	<12.5	89.6	85.1	107 UB	117 UB	209 UB	<1.04	89.6	85.1
PCB-5	6.8 UB	k5.51	6.37 UB	5 UB	<8.50	5.5	4.92	6.57 UB	6.67 UB	6.86 UB	<0.799	5.5	4.92
PCB-6	144 UB	91.8 UB	104 UB	48 UB	<8.22	56.2	48.6	59.8 UB	77 UB	82.2 UB	<0.746	56.2	48.6
PCB-7	19.7 UB	14.3 UB	17.6 UB	13.4 UB	<7.93	15.6	15.4	16 UB	16.9 UB	20.1 UB	K1.22	15.6	15.4
PCB-8	394 UB	296 UB	329 UB	220 UB	<7.85	287	240	307 UB	320 UB	368 UB	<0.701	287	240
PCB-9	24.5 UB	18.3 UB	22 UB	15.6 UB	<8.03	18.8	17.6	20.3 UB	22.3 UB	30.8 UB	<0.731	18.8	17.6
PCB-10	12.5 UB	8.19 UB	8.47 UB	3.65 UB	<8.24	4.29	3.74	5.33 UB	6.42 UB	13.3 UB	<0.772	4.29	3.74
PCB-11	192 UB	498 UB	1040	307 UB	<8.68	111	93.2	230 UB	3160	4330	2.17	111	93.2
PCB-12/13	57.9 UB	29.6 UB	55 UB	22.9 UB	<8.55	15.8	16.7	24.8 UB	56.7 UB	75.6 UB	<0.787	15.8	16.7
PCB-14	<1.57	<3.46	<1.57	<1.96	<8.32	<1.12	<0.868	<1.65	<1.06	<1.86	<0.762	<1.12	<0.868
PCB-15	305 UB	182 UB	259 UB	147 UB	<9.85	133	117	204 UB	258 UB	480 UB	<1.01	133	117
PCB-16	230 UB	164 UB	234 UB	136 UB	<2.47	128	107	171 UB	215 UB	389 UB	<0.341	128	107
PCB-17	288 UB	205 UB	313 UB	156 UB	k2.2	158	132	202 UB	258 UB	491 UB	0.488	158	132
PCB-18/30	600 UB	422 UB	657 UB	299 UB	2.45	287	248	387 UB	501 UB	1080 UB	K0.797	287	248
PCB-19	158	84 UB	121 UB	33.6 UB	4.34	30.7	K27.6	46.9 UB	66.3 UB	116 UB	0.397	30.7	K27.6
PCB-20/28	1300 UB	762 UB	1300 UB	555 UB	6.05	501	435	694 UB	1050 UB	1880 UB	0.73	501	435
PCB-21/33	438 UB	319 UB	431 UB	288 UB	2.66	262	219	330 UB	411 UB	575 UB	K0.437	262	219
PCB-22	419 UB	244 UB	363 UB	168 UB	k2.59	164	139	212 UB	335 UB	559 UB	K0.279	164	139
PCB-23	k1.68	<2.87	<1.80	<1.70	<1.77	K1.19	<0.720	6.76	K1.24	2.21	<0.161	K1.19	<0.720
PCB-24	16.7 UB	11.4 UB	15 UB	k6.45	<1.53	K5.12	4.53	6.91 UB	9.89 UB	19 UB	<0.213	K5.12	4.53
PCB-25	99 UB	57.8 UB	87.5 UB	40.5 UB	<1.54	35.2	32.1	47.1 UB	72.7 UB	125 UB	<0.146	35.2	32.1
PCB-26/29	249 UB	140 UB	220 UB	98.4 UB	<1.70	85.4	81.7	116 UB	170 UB	331 UB	<0.161	85.4	81.7
PCB-27	88 UB	49 UB	73.1 UB	28.1 UB	<1.56	22.6	20	30.4 UB	50.7 UB	85.4 UB	<0.214	22.6	20
PCB-31	1080 UB	655 UB	1070 UB	480 UB	5.57	431	392	589 UB	875 UB	1830 UB	0.69	431	392
PCB-32	323 UB	155 UB	216 UB	99.5 UB	k2.02	101	84.3	126 UB	156 UB	298 UB	K0.243	101	84.3
PCB-34	4.96 UB	2.96 UB	6.2 UB	k2.3	<1.71	2.44	K1.66	10.3 UB	4.13 UB	7.01 UB	<0.160	2.44	K1.66
PCB-35	19.3 UB	k10.1	15.7 UB	9.82 UB	<1.77	5.14	4.78	K9.17	24 UB	64.8	<0.170	5.14	4.78
PCB-36	<1.47	<2.88	<1.91	<1.80	<1.59	<0.547	<0.699	K0.805	7.76	25.2	<0.156	<0.547	<0.699
PCB-37	199 UB	133 UB	223 UB	102 UB	1.96	83.4	79.3	130 UB	209 UB	403 UB	0.41	83.4	79.3
PCB-38	k1.99	<3.06	2.15	<1.79	<1.58	<0.548	<0.700	K0.875	<0.930	<1.30	<0.156	<0.548	<0.700
PCB-39	k6.89	<2.95	k6.81	k2.27	<1.57	1.43	1.74	K2.26	5.17 UB	K8.82	<0.148	1.43	1.74
PCB-40/41/71	389 UB	232 UB	493 UB	180 UB	3.83	119	108	166 UB	338 UB	626	K0.164	119	108
PCB-42	202 UB	120 UB	277 UB	84.8 UB	<0.670	61.5	54.2	82.3 UB	190 UB	316	K0.151	61.5	54.2
PCB-43	33.6 UB	25.1 UB	55.6	18.6 UB	<0.699	10.9	K11.6	15.3 UB	33.1 UB	64.2	<0.103	10.9	K11.6
PCB-44/47/65	744 UB	425 UB	1030	319 UB	k6.99	205	178	301 UB	724 UB	1460	0.848	205	178
PCB-45/51	209 UB	108 UB	229 UB	72.4 UB	3.13	47.6	45.4	72.1 UB	135 UB	228 UB	0.121	47.6	45.4
PCB-46	62.7 UB	33.7 UB	71.5 UB	24.5 UB	<0.732	15.8	13.8	24 UB	47.3 UB	77.1 UB	<0.102	15.8	13.8
PCB-48	152 UB	97.3 UB	224 UB	83.8 UB	k1.33	55	55.3	78.6 UB	144 UB	276 UB	K0.173	55	55.3
PCB-49/69	498 UB	278 UB	753	207 UB	3.67	132	126	194 UB	484 UB	916	K0.386	132	126
PCB-50/53	171	79.3 UB	185	51.6 UB	1.92	33.3	31.6	51.3 UB	113 UB	186	K0.141	33.3	31.6
PCB-52	948 UB	514 UB	1230	377 UB	<0.565	232	212	367 UB	1060 UB	2470	K1.23	232	212
PCB-54	5.34	2.73 UB	4.6	1.6 UB	k1.88	0.792	K0.682	6.27	2.01 UB	3.36 UB	K0.091	0.792	K0.682
PCB-55	k10	k14.8	23.3 UB	k9.21	<1.20	5.08	K4.67	K5.65	K13.1	K23.2	<0.139	5.08	K4.67
PCB-56	195 UB	142 UB	367	78.3 UB	k1.97	59.1	53.8	85.9 UB	254 UB	474	K0.335	59.1	53.8
PCB-57	3.26	<3.60	4.74	<1.79	<1.14	K1.31	<1.09	1.63	2.92	5.17	<0.130	K1.31	<1.09
PCB-58	<2.31	<3.41	k2.69	<1.73	<1.12	3.59	<1.06	<0.925	34.9	<1.77	<0.126	3.59	<1.06
PCB-59/62/75	79.6 UB	52.7 UB	116	36.5 UB	<0.449	21.3	21.8	33.6 UB	67 UB	114	K0.103	21.3	21.8
PCB-60	108 UB	81.6 UB	182 UB	52 UB	<1.15	39.3	35.6	56.6 UB	137 UB	274	<0.137	39.3	35.6
PCB-61/70/74/76	768 UB	550 UB	1480	388 UB	7.77	252	253	376 UB	1180 UB	2690	K1.16	252	253
PCB-63	23.6 UB	14.3 UB	48.5	11.2 UB	<1.08	6.42	K7.01	9.28 UB	27.1 UB	50.9	<0.123	6.42	K7.01
PCB-64	365 UB	224 UB	525	140 UB	k2.17	87.8	83.7	141 UB	358 UB	630	K0.268	87.8	83.7
PCB-66	430 UB	367 UB	975	192 UB	5.16	129	118	181 UB	634 UB	1090	K0.525	129	118

Table D-5
Raw Data, EPA Qualification, and Calculations - August 2003

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/sample	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	LAB BLANK WG10490-101 i WG10490 pg/sample	DAY ZERO L6164-1 WG10754 pg/sample	TRIP BLANK L6286-1 WG10754 pg/sample	State Line AN-11LP L6286-6 WG10754 pg/sample	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	LAB BLANK WG10754-101 WG10754 pg/sample	DAY ZERO L6164-1 WG10754 pg/sample	TRIP BLANK L6286-1 WG10754 pg/sample
PCB-67	17.4 UB	10.5 UB	26.5 UB	9.98 UB	<1.04	6.31	6.66	9.16 UB	17.9 UB	36.2	<0.119	6.31	6.66
PCB-68	k3.22	<3.38	6.62	k2.54	<1.08	<0.714	1.06	2 UB	3.65 UB	8.55	K0.173	<0.714	1.06
PCB-72	4.15	<3.39	8.8	1.97	<1.11	<0.699	<1.02	K1.64	5.28	7.82	<0.121	<0.699	<1.02
PCB-73	<1.12	<1.78	<1.09	<0.798	<0.699	<0.141	<0.159	<0.205	<0.146	<0.327	<0.0651	<0.141	<0.159
PCB-77	30.2 UB	25.7 UB	66.3	16.6 UB	k1.73	7.39	K7.23	18 UB	53.6	94.8	K0.376	7.39	K7.23
PCB-78	<2.61	<3.84	<2.74	<1.82	<1.15	<0.767	<1.11	<0.975	<0.864	<1.86	<0.133	<0.767	<1.11
PCB-79	4.72	k3.68	8.18	3.11	<0.966	K1.18	<0.964	K2.86	8.76	23.7	<0.115	K1.18	<0.964
PCB-80	<2.32	<3.41	<2.51	<1.68	<1.02	<0.708	<1.03	<0.900	<0.798	<1.72	<0.122	<0.708	<1.03
PCB-81	<2.79	<4.09	k4.24	k2.3	<1.14	<0.836	<1.25	K4.33	K1.50	5.32	K0.208	<0.836	<1.25
PCB-82	29.5 UB	24.4 UB	71.1	19.5 UB	<0.897	8.79	8.01	18.9 UB	92.3	214	<0.261	8.79	8.01
PCB-83/99	131 UB	111 UB	374	89.1 UB	k2.82	41.9	45.2	97.9 UB	471	1060	K0.453	41.9	45.2
PCB-84	70.5 UB	49.6 UB	139	43.4 UB	<0.926	27.1	20.5	52.2 UB	206	527	<0.252	27.1	20.5
PCB-85/116/117	57.4 UB	48.6 UB	164	33.8 UB	k1.32	14.1	13.7	33.6 UB	170	338	<0.189	14.1	13.7
PCB-86/87/97/108/119/125	155 UB	133 UB	346	127 UB	3.9	53.7	50.2	139 UB	533	1410	K0.311	53.7	50.2
PCB-88/91	48.5 UB	33.1 UB	106	25.9 UB	<0.807	14.6	12	27 UB	122	244	<0.220	14.6	12
PCB-89	k6.28	k2.8	12.6	1.65 UB	<0.851	1.55	K1.25	3.09 UB	10.8	16.8	<0.235	1.55	K1.25
PCB-90/101/113	226 UB	172 UB	474 UB	198 UB	4.71	97.1	99.7	207 UB	912	2210	0.809	97.1	99.7
PCB-92	41.7 UB	30.6 UB	98.3	36 UB	<0.820	15.7	16.5	38.3 UB	166	383	<0.231	15.7	16.5
PCB-93/95/98/100/102	251 UB	160 UB	439 UB	179 UB	<0.789	92.9	80.2	190 UB	789	1790	0.967	92.9	80.2
PCB-94	3.58	2.96	6.3	<1.14	<0.851	K0.743	<0.593	1.69	K4.00	8.92	<0.228	K0.743	<0.593
PCB-96	5.42	2.77 UB	k9.56	k1.91	k0.34	K1.27	0.839	2.18 UB	5.4	10.3	<0.0935	K1.27	0.839
PCB-103	2.92 UB	<2.19	6.02	k1.78	<0.751	0.897	K0.775	K1.46	K4.77	9.81	<0.196	0.897	K0.775
PCB-104	k0.418	<1.90	k0.76	k0.377	<0.437	K0.309	0.086	K4.00	K0.269	K0.444	K0.122	K0.309	0.086
PCB-105	74.6 UB	72.3 UB	192	50.6 UB	1.7	17.7	18	53.4 UB	270	585	K0.365	17.7	18
PCB-106	3.22	k2.79	<1.56	14	<0.945	<0.418	<0.849	K10.4	<1.05	55.1	<0.212	<0.418	<0.849
PCB-107/124	7.77 UB	6.73 UB	17.3	5.82 UB	<0.992	K1.78	1.91	K5.31	25.2	66.4	<0.227	K1.78	1.91
PCB-109	12.2	11.9	37.7	k10.8	<0.936	K3.08	K4.44	<0.970	46.3	106	<0.223	K3.08	K4.44
PCB-110/115	221 UB	201 UB	545	185 UB	4.17	72.6	66	211 UB	928	2160	0.704	72.6	66
PCB-111	<1.06	<1.87	<1.82	<0.856	<0.596	<0.308	<0.439	<0.495	<0.594	<1.07	<0.169	<0.308	<0.439
PCB-112	<1.05	<1.85	<1.78	<0.840	<0.632	<0.316	<0.450	<0.508	<0.609	<1.10	<0.173	<0.316	<0.450
PCB-114	k7.39	k5.75	14.1	3.27	<1.03	K2.31	K1.98	K5.55	15.7	37.1	<0.224	K2.31	K1.98
PCB-118	151 UB	149 UB	396	128 UB	4.61	44.9	47.8	132 UB	648	1530	K0.787	44.9	47.8
PCB-120	<1.03	<1.82	<1.76	<0.831	<0.563	<0.302	<0.430	<0.485	K1.01	K2.53	<0.165	<0.302	<0.430
PCB-121	<1.04	<1.83	<1.76	<0.829	<0.608	<0.301	<0.429	<0.484	<0.580	<1.04	<0.165	<0.301	<0.429
PCB-122	k3.66	4.02	9.64	k2.06	<1.07	K0.636	<0.970	K2.06	8.24	K17.0	<0.242	K0.636	<0.970
PCB-123	5.26	4.63	12.7	2.06	<1.04	K2.51	K1.41	K4.01	K16.7	K23.4	<0.244	K2.51	K1.41
PCB-126	1.48	<2.14	3.03	k2.17	<1.09	K0.889	<1.07	K1.30	K2.81	4.02	<0.257	K0.889	<1.07
PCB-127	<1.13	<1.74	<1.74	<0.875	<0.951	<0.437	<0.887	<0.963	<1.09	<1.54	<0.221	<0.437	<0.887
PCB-128/166	17.8 UB	16.3 UB	35.3	18.6 UB	<0.610	<0.429	6.31	19.8 UB	80.8	146	<0.235	<0.429	6.31
PCB-129/138/160/163	121 UB	105 UB	229 UB	147 UB	k4.95	54.1	52.1	140 UB	550	1070	K0.916	54.1	52.1
PCB-130	9.08	7.01	15.6	9.2	<0.795	K3.06	K3.97	8.59	36.1	65.4	<0.299	K3.06	K3.97
PCB-131	2.98	<2.48	k3.19	k1.94	<0.784	K0.734	K1.14	2.14	K7.13	15.7	<0.281	K0.734	K1.14
PCB-132	40.5 UB	33.3 UB	66.9 UB	43.5 UB	1.76	20.3	K18.8	48.2 UB	194	374	<0.284	20.3	K18.8
PCB-133	2.86 UB	<2.28	k4.22	<1.67	<0.764	0.905	K0.988	K2.92	8.15	K17.5	<0.276	0.905	K0.988
PCB-134/143	7.5 UB	7.71 UB	14.1 UB	k8.35	<0.803	3.68	4.76	K7.90	33.7	68	<0.283	3.68	4.76
PCB-135/151/154	64.7 UB	50.1 UB	92.2 UB	60.7 UB	k0.885	37	38.9	74.5 UB	313	501	<0.0334	37	38.9
PCB-136	26.1 UB	17.7 UB	29.9 UB	k23	k0.384	15.6	13.2	24.6 UB	114	180	K0.044	15.6	13.2
PCB-137	6.14 UB	4.26 UB	11.4	k5	<0.723	1.75	1.84	5.1 UB	26	50.5	<0.257	1.75	1.84
PCB-139/140	k2.96	<2.09	k5.61	k2.61	<0.703	K0.796	K0.933	2.59	8.96	21.1	<0.250	K0.796	K0.933
PCB-141	24.9 UB	20.4 UB	38.6 UB	27.3 UB	k1.3	15.1	17.1	26.1 UB	119	212	<0.269	15.1	17.1
PCB-142	<1.04	<2.30	<1.30	<1.79	<0.793	<0.524	<0.477	<0.984	<1.26	<1.38	<0.287	<0.524	<0.477
PCB-144	8.53 UB	6.08 UB	12.4 UB	8.52 UB	k0.552	6.81	6.57	9.73 UB	K37.0	69.5	K0.053	6.81	6.57
PCB-145	k0.362	k0.3	k0.355	k0.24	k0.328	<0.0605	<0.0562	<0.0561	K0.199	K0.737	<0.0257	<0.0605	<0.0562
PCB-146	21.5 UB	17.8 UB	38.5 UB	26.9 UB	1.47	K9.05	9.94	23.9 UB	83.9	160	<0.247	K9.05	9.94
PCB-147/149	118 UB	96 UB	183 UB	138 UB	k3.66	72.8	75.2	141 UB	635	1070	K0.465	72.8	75.2

Table D-5
Raw Data, EPA Qualification, and Calculations - August 2003

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/sample	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	LAB BLANK WG10490-101 i WG10490 pg/sample	DAY ZERO L6164-1 WG10754 pg/sample	TRIP BLANK L6286-1 WG10754 pg/sample	State Line AN-11LP L6286-6 WG10754 pg/sample	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	LAB BLANK WG10754-101 WG10754 pg/sample	DAY ZERO L6164-1 WG10754 pg/sample	TRIP BLANK L6286-1 WG10754 pg/sample
PCB-148	k0.239	k0.253	<0.200	k0.382	<0.277	K0.168	K0.192	K0.197	K0.416	1.5	<0.0352	K0.168	K0.192
PCB-150	k0.448	<0.153	k0.739	k0.364	k0.339	0.129	K0.132	K0.094	K0.436	K1.40	0.033	0.129	K0.132
PCB-152	k0.755	0.317 UB	k0.527	<0.131	<0.194	K0.124	0.097	K0.119	K0.387	K0.949	K0.043	K0.124	0.097
PCB-153/168	118 UB	96.5 UB	203 UB	141 UB	4.78	59.9	68.8	131 UB	522	955	0.763	59.9	68.8
PCB-155	k0.615	k0.631	k0.344	<0.113	k0.402	0.37	K0.170	2.61	K0.233	K2.05	K0.058	0.37	K0.170
PCB-156/157	13.7 UB	k10.9	23.7 UB	11.9 UB	1.24	5.01	K5.24	12.7 UB	51.9	103	K0.539	5.01	K5.24
PCB-158	12.3 Ub	k10.7	22.2 UB	13.9 UB	<0.499	5.73	K5.36	K12.6	52.5	107	<0.193	5.73	K5.36
PCB-159	k2.11	<1.66	2.81	<1.25	<0.519	K0.799	K0.783	K0.994	K3.96	5.74	<0.205	K0.799	K0.783
PCB-161	<0.705	<1.56	<0.867	<1.20	<0.538	<0.363	<0.330	<0.681	<0.874	<0.957	<0.199	<0.363	<0.330
PCB-162	k1.12	<1.68	<0.923	<1.28	<0.523	<0.376	<0.342	<0.705	K1.47	2.98	<0.206	<0.376	<0.342
PCB-164	k10.6	8.26 UB	16.5 UB	11 UB	<0.543	3.79	K4.85	K11.1	38.5	73	<0.214	3.79	K4.85
PCB-165	<0.793	<1.76	<0.971	<1.34	<0.585	<0.398	<0.362	<0.746	<0.957	<1.05	<0.218	<0.398	<0.362
PCB-167	5.39 UB	4.06 UB	k8.81	k5.05	<0.408	1.42	K1.73	4.62 UB	16.6	33.6	0.267	1.42	K1.73
PCB-169	2.01 UB	<1.72	k1.42	<1.34	0.589	<0.388	<0.367	<0.710	<0.947	<1.08	K0.250	<0.388	<0.367
PCB-170	k15.7	19	25	k19.6	k1.39	K11.3	K8.80	19.2	43	75.4	K0.337	K11.3	K8.80
PCB-171/173	k7.47	k7.84	10.6	7.35	<0.166	K4.47	K4.44	K7.54	19.6	33	K0.159	K4.47	K4.44
PCB-172	k5.26	k4.21	k6.59	k4.73	k0.213	K2.34	2.44	4.4 UB	K11.5	K19.2	0.111	K2.34	2.44
PCB-174	26.5 UB	25.5 UB	35.5 UB	28.3 UB	k0.75	K19.8	18	31 UB	88.7 UB	128	K0.061	K19.8	18
PCB-175	k1.71	k1.46	2.21	1.67	<0.159	K0.976	K1.09	1.53	4.46	K6.43	<0.0247	K0.976	K1.09
PCB-176	5.41 UB	k5.62	k5.63	5.93 UB	k0.287	K3.77	4.65	K5.14	15.5 UB	20.5 UB	K0.027	K3.77	4.65
PCB-177	k13.4	15.7 UB	k20.9	16.6 UB	k1.04	9.24	10.8	16.7 UB	43 UB	66.4	<0.0267	9.24	10.8
PCB-178	k8.64	8.05	11.8	8.78	k0.434	K5.05	K6.46	8.23	24.4	35.1	0.053	K5.05	K6.46
PCB-179	19.4 UB	17.3 UB	21.2 UB	18.2 UB	k0.319	14.8	K15.5	19.7 UB	60.5 UB	86.3	K0.154	14.8	K15.5
PCB-180/193	45.4 UB	45.6 UB	68.7 UB	47 UB	k3.1	32.4	30.5	49 UB	131 UB	247	K0.686	32.4	30.5
PCB-181	<0.148	<0.148	k0.381	<0.149	<0.153	K0.220	<0.0691	K0.280	K0.851	K2.32	K0.058	K0.220	<0.0691
PCB-182	k0.438	k0.624	k0.875	k0.779	<0.159	K0.110	K0.372	K0.947	K0.513	K0.669	K0.084	K0.110	K0.372
PCB-183/185	21.6 UB	18.5 UB	29.5 UB	21.5 UB	k0.289	15.1	17.4	22.4 UB	61.9 UB	102	K0.526	15.1	17.4
PCB-184	k0.533	k0.236	<0.106	k0.313	<0.117	K0.068	K0.050	K0.212	K0.192	2.19	<0.0173	K0.068	K0.050
PCB-186	k0.655	<0.115	<0.115	<0.116	0.152	K0.081	K0.070	<0.0625	<0.0531	K0.100	<0.0190	K0.081	K0.070
PCB-187	43 UB	41.6 UB	61.8 UB	48.7 UB	k1.75	29.4	32.7	47.2 UB	128 UB	203	0.526	29.4	32.7
PCB-188	<0.113	k0.333	k0.36	k0.355	k0.461	K0.108	<0.0440	K0.844	K0.270	K0.086	K0.101	K0.108	<0.0440
PCB-189	k1.91	<0.967	k1.82	<1.18	<0.514	<0.0529	0.949	0.885 UB	K1.71	K2.98	K0.571	<0.0529	0.949
PCB-190	k4.8	4.55	k6.7	k4.05	k0.356	K2.04	K1.89	K3.97	8.62	17.3	0.029	K2.04	K1.89
PCB-191	k0.763	k0.842	k0.562	k1.01	<0.116	K0.429	K0.379	K0.792	2.65	K4.30	K0.081	K0.429	K0.379
PCB-192	k0.911	<0.127	k0.136	k0.312	k0.192	K0.112	K0.076	K0.083	0.214	<0.0828	<0.0218	K0.112	K0.076
PCB-194	k6.59	6.99 UB	12.5 UB	k8.91	1.08	4.85	K4.02	4.81 UB	14.1 UB	22.4 UB	K0.367	4.85	K4.02
PCB-195	3.92 UB	3.55 UB	5.15 UB	k4.15	k0.513	2.49	K1.71	2.13 UB	K6.07	8.16 UB	K0.159	2.49	K1.71
PCB-196	5.3 UB	k4.58	k6.45	k4.52	k0.517	K3.29	3.65	K4.17	8.83 UB	16.3 UB	0.118	K3.29	3.65
PCB-197/200	3.77	1.61	k4.25	k2.53	<0.171	K2.98	<0.0594	K2.91	4.34	8.6	<0.0312	K2.98	<0.0594
PCB-198/199	34.8 UB	12.1 UB	18.4 UB	13.1 UB	k1.11	K10.0	8.49	12.4 UB	21.9 UB	47.1	K0.238	K10.0	8.49
PCB-201	k3.06	k2.39	k2.86	k2.12	0.184	2.38	2.33	2.98 UB	3.77 UB	K7.49	<0.0306	2.38	2.33
PCB-202	5.75	4.78	k6.88	k4.72	k0.514	K4.75	K4.63	K6.31	K10.0	15.9	K0.188	K4.75	K4.63
PCB-203	6.43 UB	7.49 UB	k11.1	7.5 UB	k0.928	5.08	K4.98	K6.84	K15.8	23.9 UB	K0.117	5.08	K4.98
PCB-204	k0.71	k0.607	k0.571	<0.188	<0.176	0.148	K0.174	0.513 UB	K0.181	0.325 UB	<0.0305	0.148	K0.174
PCB-205	0.824 UB	<1.33	1.38 UB	k1.01	k0.326	0.965	K0.455	0.684 UB	K0.495	K1.21	0.519	0.965	K0.455
PCB-206	<8.52	<9.96	<8.66	<6.54	<2.42	2.46	K2.29	3.65 UB	K5.03	K9.71	0.84	2.46	K2.29
PCB-207	<5.19	<6.00	<5.23	<4.03	<2.29	<0.627	K0.814	0.7	K0.996	1.44	<0.259	<0.627	K0.814
PCB-208	<5.22	<5.99	<5.21	<4.07	<2.50	K1.26	K1.29	K1.52	K2.34	K4.71	0.491	K1.26	K1.29
PCB-209	5.18 UB	k5.28	k4.85	5.26 UB	1.14	K3.27	3.06	K4.30	K3.99	5.8 UB	1.2	K3.27	3.06

Table D-5
Raw Data, EPA Qualification, and Calculations - August 2003

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Name	IUPAC NO.	Transfer Coefficient: k1(s) (L/g*d) (Meadows et al 1998) Rs	Time (days)	Ms	EAF*	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/L	EAF*	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	EAF*	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	EAF*	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	EAF	State Line AN-11LP L6286-6 WG10754 pg/sample	EAF	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	EAF	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	EAF
PCB-1	2 - MoCB	1	12.8	32	4.5	1.69		0.888		1.37		1.965		2.14		1.56		2.35		1
PCB-2	3 - MoCB	2	12.8	32	4.5															
PCB-3	4 - MoCB	3	12.8	32	4.5															
PCB-4	2,2' - DiCB	4	12.8	32	4.5															
PCB-5	2,3 - DiCB	5	12.8	32	4.5															
PCB-6	2,3' - DiCB	6	12.8	32	4.5															
PCB-7	2,4 - DiCB	7	12.8	32	4.5															
PCB-8	2,4' - DiCB	8	12.8	32	4.5															
PCB-9	2,5 - DiCB	9	12.8	32	4.5															
PCB-10	2,6 - DiCB	10	12.8	32	4.5															
PCB-11	3,3' - DiCB	11	12.8	32	4.5						3.69						9.88			9.00
PCB-12/13	3,4 - DiCB	12	12.8	32	4.5															
PCB-14	3,5 - DiCB	14	12.8	32	4.5															
PCB-15	4,4' - DiCB	15	12.8	32	4.5															
PCB-16	2,2',3 - TriCB	16	6.7	32	4.5															
PCB-17	2,2',4 - TriCB	17	6.7	32	4.5															
PCB-18/30	2,2',5 - TriCB	18	9.2	32	4.5															
PCB-19	2,2',6 - TriCB	19	5.3	32	4.5		1.10													
PCB-20/28	2,3,3' - TriCB	20	8.4	32	4.5															
PCB-21/33	2,3,4 - TriCB	21	6.7	32	4.5															
PCB-22	2,3,4' - TriCB	22	5.7	32	4.5															
PCB-23	2,3,5 - TriCB	23	6.7	32	4.5									0.03						0.01
PCB-24	2,3,6 - TriCB	24	6.7	32	4.5															
PCB-25	2,3',4 - TriCB	25	5.7	32	4.5															
PCB-26/29	2,3',5 - TriCB	26	5.7	32	4.5															
PCB-27	2,3',6 - TriCB	27	6.7	32	4.5															
PCB-31	2,4',5 - TriCB	31	7.0	32	4.5															
PCB-32	2,4',6 - TriCB	32	6.7	32	4.5															
PCB-34	2',3,5 - TriCB	34	6.7	32	4.5															
PCB-35	3,3',4 - TriCB	35	6.7	32	4.5															0.26
PCB-36	3,3',5 - TriCB	36	6.7	32	4.5												0.05			0.10
PCB-37	3,4,4' - TriCB	37	6.7	32	4.5															
PCB-38	3,4,5 - TriCB	38	6.7	32	4.5						0.01									
PCB-39	3,4',5 - TriCB	39	6.7	32	4.5															
PCB-40/41/71	2,2',3,3' - TeCB	40	6.4	32	4.5															2.60
PCB-42	2,2',3,4' - TeCB	42	6.2	32	4.5															1.36
PCB-43	2,2',3,5 - TeCB	43	6.2	32	4.5						0.41									0.28
PCB-44/47/65	2,2',3,5' - TeCB	44	7.5	32	4.5						6.24									5.18
PCB-45/51	2,2',3,6 - TeCB	45	6.4	32	4.5															
PCB-46	2,2',3,6' - TeCB	46	4.4	32	4.5															
PCB-48	2,2',4,5 - TeCB	48	3.5	32	4.5															
PCB-49/69	2,2',4,5' - TeCB	49	5.3	32	4.5						6.46									4.60
PCB-50/53	2,2',4,6 - TeCB	50	4.8	32	4.5		1.31				1.75									1.03
PCB-52	2,2',5,5' - TeCB	52	6.2	32	4.5						9.02									10.60
PCB-54	2,2',6,6' - TeCB	54	5.5	32	4.5		0.04				0.04			0.03						
PCB-55	2,3,3',4 - TeCB	55	5.5	32	4.5															
PCB-56	2,3,3',4' - TeCB	56	5.5	32	4.5						3.06									2.31
PCB-57	2,3,3',5 - TeCB	57	5.5	32	4.5		0.02				0.04			0.01		0.02				0.03
PCB-58	2,3,3',5' - TeCB	58	5.5	32	4.5											0.26				
PCB-59/62/75	2,3,3',6 - TeCB	59	5.5	32	4.5						0.97									0.56
PCB-60	2,3,4,4' - TeCB	60	5.5	32	4.5															1.34
PCB-61/70/74/76	2,3,4,5 - TeCB	61	6.6	32	4.5						10.19									10.85
PCB-63	2,3,4',5 - TeCB	63	5.3	32	4.5						0.42									0.26
PCB-64	2,3,4',6 - TeCB	64	7.5	32	4.5						3.18									2.24
PCB-66	2,3',4,4' - TeCB	66	5.3	32	4.5						8.36									5.47

Table D-5
Raw Data, EPA Qualification, and Calculations - August 2003

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Name	IUPAC NO.	Transfer Coefficient: k1(s) (L/g*d) (Meadows et al 1998) Rs	Time (days)	Ms	EAF*	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/L	EAF*	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	EAF*	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	EAF*	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	EAF	State Line AN-11LP L6286-6 WG10754 pg/sample	EAF	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	EAF	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	EAF	
PCB-67	2,3',4,5 - TeCB	67	5.3	32	4.5															0.18	
PCB-68	2,3',4,5' - TeCB	68	5.5	32	4.5						0.06									0.04	
PCB-72	2,3',5,5' - TeCB	72	5.5	32	4.5		0.03				0.07		0.01				0.04			0.04	
PCB-73	2,3',5',6 - TeCB	73	5.5	32	4.5																
PCB-77	3,3',4,4' - TeCB	77	2.9	32	4.5						1.04						0.74			0.87	
PCB-78	3,3',4,5 - TeCB	78	4.4	32	4.5																
PCB-79	3,3',4,5' - TeCB	79	5.1	32	4.5		0.03				0.07		0.02				0.07			0.12	
PCB-80	3,3',5,5' - TeCB	80	5.5	32	4.5																
PCB-81	3,4,4',5 - TeCB	81	4.3	32	4.5															0.03	
PCB-82	2,2',3,3',4 - PeCB	82	4.4	32	4.5						0.73						0.84			1.29	
PCB-83/99	2,2',3,3',5 - PeCB	83	4.6	32	4.5						3.70						4.10			6.13	
PCB-84	2,2',3,3',6 - PeCB	84	4.4	32	4.5						1.44						1.87			3.19	
PCB-85/116/117	2,2',3,4,4' - PeCB	85	4.8	32	4.5						1.55						1.42			1.87	
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	86	4.7	32	4.5						3.35						4.54			7.98	
PCB-88/91	2,2',3,4,6 - PeCB	88	4.4	32	4.5						1.10						1.11			1.48	
PCB-89	2,2',3,4,6' - PeCB	89	4.6	32	4.5						0.12						0.09			0.10	
PCB-90/101/113	2,2',3,4',5 - PeCB	90	6.2	32	4.5												5.89			9.48	
PCB-92	2,2',3,5,5' - PeCB	92	5.3	32	4.5						0.84						1.25			1.92	
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	93	6.2	32	4.5												5.09			7.68	
PCB-94	2,2',3,5,6' - PeCB	94	4.6	32	4.5		0.03		0.05		0.06			0.01			0.05			0.05	
PCB-96	2,2',3,6,6' - PeCB	96	4.6	32	4.5		0.04										0.05			0.06	
PCB-103	2,2',4,5',6 - PeCB	103	4.6	32	4.5						0.06									0.06	
PCB-104	2,2',4,6,6' - PeCB	104	4.6	32	4.5																
PCB-105	2,3,3',4,4' - PeCB	105	4.0	32	4.5						2.18						2.70			3.89	
PCB-106	2,3,3',4,5 - PeCB	106	4.6	32	4.5		0.03						0.10							0.32	
PCB-107/124	2,3,3',4',5 - PeCB	107	5.3	32	4.5						0.15						0.19			0.33	
PCB-109	2,3,3',4,6 - PeCB	109	4.6	32	4.5		0.10		0.18		0.37						0.40			0.61	
PCB-110/115	2,3,3',4',6 - PeCB	110	5.7	32	4.5						4.35						6.52			10.08	
PCB-111	2,3,3',5,5' - PeCB	111	4.6	32	4.5																
PCB-112	2,3,3',5,6 - PeCB	112	4.6	32	4.5																
PCB-114	2,3,4,4',5 - PeCB	114	4.4	32	4.5						0.15		0.02				0.14			0.22	
PCB-118	2,3',4,4',5 - PeCB	118	4.8	32	4.5						3.75						5.40			8.48	
PCB-120	2,3',4,5,5' - PeCB	120	4.6	32	4.5																
PCB-121	2,3',4,5',6 - PeCB	121	4.6	32	4.5																
PCB-122	2',3,3',4,5 - PeCB	122	4.6	32	4.5				0.06		0.10						0.07				
PCB-123	2',3,4,4',5 - PeCB	123	4.6	32	4.5		0.04		0.07		0.13		0.01								
PCB-126	3,3',4,4',5 - PeCB	126	2.2	32	4.5		0.02				0.06									0.05	
PCB-127	3,3',4,5,5' - PeCB	127	1.6	32	4.5																
PCB-128/166	2,2',3,3',4,4' - HxCB	128	4.4	32	4.5						0.36						0.74			0.88	
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	129	4.2	32	4.5												5.31			6.86	
PCB-130	2,2',3,3',4,5' - HxCB	130	4.0	32	4.5		0.08		0.12		0.18		0.07		0.06		0.36			0.44	
PCB-131	2,2',3,3',4,6 - HxCB	131	4.2	32	4.5		0.03								0.01					0.10	
PCB-132	2,2',3,3',4,6' - HxCB	132	4.2	32	4.5												1.85			2.37	
PCB-133	2,2',3,3',5,5' - HxCB	133	4.2	32	4.5												0.08				
PCB-134/143	2,2',3,3',5,6 - HxCB	134	4.8	32	4.5												0.28			0.38	
PCB-135/151/154	2,2',3,3',5,6' - HxCB	135	5.3	32	4.5												2.36			2.52	
PCB-136	2,2',3,3',6,6' - HxCB	136	5.3	32	4.5												0.86			0.90	
PCB-137	2,2',3,4,4',5 - HxCB	137	3.5	32	4.5						0.15						0.30			0.38	
PCB-139/140	2,2',3,4,4',6 - HxCB	139	4.2	32	4.5										0.02		0.09			0.13	
PCB-141	2,2',3,4,5,5' - HxCB	141	4.8	32	4.5												0.99			1.18	
PCB-142	2,2',3,4,5,6 - HxCB	142	4.2	32	4.5																
PCB-144	2,2',3,4,5',6 - HxCB	144	4.2	32	4.5															0.44	
PCB-145	2,2',3,4,6,6' - HxCB	145	4.2	32	4.5																
PCB-146	2,2',3,4',5,5' - HxCB	146	4.8	32	4.5												0.70			0.89	
PCB-147/149	2,2',3,4',5,6 - HxCB	147	5.7	32	4.5												4.46			5.00	

Table D-5
Raw Data, EPA Qualification, and Calculations - August 2003

Sample Location CLIENT ID AXYS ID WORKGROUP UNITS	Name	IUPAC NO.	Transfer Coefficient: k1(s) (L/g*d) (Meadows et al 1998) Rs	Time (days)	Ms	EAF*	Plante's Ferry AN-01LPA L6164-2 WG10490 pg/L	EAF*	Boulder Beach AN-02LPA L6164-3 i WG10490 pg/sample	EAF*	Dam Forebay AN-03LPA L6164-4 WG10490 pg/sample	EAF*	Barker Road AN-12LPA L6164-5 WG10490 pg/sample	EAF	State Line AN-11LP L6286-6 WG10754 pg/sample	EAF	Monroe St. AN-13LP L6286-8 WG10754 pg/sample	EAF	Riverside Park AN-14LP L6286-9 WG10754 pg/sample	EAF
PCB-148	2,2',3,4',5,6' - HxCB	148	4.2	32	4.5														0.01	
PCB-150	2,2',3,4',6,6' - HxCB	150	4.2	32	4.5															
PCB-152	2,2',3,5,6,6' - HxCB	152	4.2	32	4.5															
PCB-153/168	2,2',4,4',5,5' - HxCB	153	3.2	32	4.5												6.53		7.94	
PCB-155	2,2',4,4',6,6' - HxCB	155	4.2	32	4.5									0.02						
PCB-156/157	2,3,3',4,4',5 - HxCB	156	2.6	32	4.5												0.80		1.05	
PCB-158	2,3,3',4,4',6 - HxCB	158	3.5	32	4.5												0.60		0.81	
PCB-159	2,3,3',4,5,5' - HxCB	159	4.2	32	4.5					0.03									0.04	
PCB-161	2,3,3',4,5',6 - HxCB	161	4.2	32	4.5															
PCB-162	2,3,3',4',5,5' - HxCB	162	4.2	32	4.5														0.02	
PCB-164	2,3,3',4',5',6 - HxCB	164	4.2	32	4.5												0.37		0.46	
PCB-165	2,3,3',5,5',6 - HxCB	165	4.2	32	4.5															
PCB-167	2,3',4,4',5,5' - HxCB	167	4.2	32	4.5												0.16		0.21	
PCB-169	3,3',4,4',5,5' - HxCB	169	2.1	32	4.5															
PCB-170	2,2',3,3',4,4',5 - HpCB	170	2.6	32	4.5				0.51		0.44			0.22			0.66		0.77	
PCB-171/173	2,2',3,3',4,4',6 - HpCB	171	2.6	32	4.5						0.19		0.09				0.30		0.34	
PCB-172	2,2',3,3',4,5,5' - HpCB	172	1.3	32	4.5															
PCB-174	2,2',3,3',4,5,6' - HpCB	174	3.1	32	4.5														1.10	
PCB-175	2,2',3,3',4,5',6 - HpCB	175	2.6	32	4.5						0.04		0.02		0.02		0.07			
PCB-176	2,2',3,3',4,6,6' - HpCB	176	2.2	32	4.5															
PCB-177	2,2',3,3',4',5,6 - HpCB	177	2.6	32	4.5														0.68	
PCB-178	2,2',3,3',5,5',6 - HpCB	178	3.1	32	4.5				0.18		0.17		0.09		0.08		0.32		0.30	
PCB-179	2,2',3,3',5,6,6' - HpCB	179	2.2	32	4.5														1.04	
PCB-180/193	2,2',3,4,4',5,5' - HpCB	180	2.6	32	4.5														2.53	
PCB-181	2,2',3,4,4',5,6 - HpCB	181	2.6	32	4.5															
PCB-182	2,2',3,4,4',5,6' - HpCB	182	2.6	32	4.5															
PCB-183/185	2,2',3,4,4',5',6 - HpCB	183	2.6	32	4.5														1.04	
PCB-184	2,2',3,4,4',6,6' - HpCB	184	2.6	32	4.5														0.02	
PCB-186	2,2',3,4,5,6,6' - HpCB	186	2.6	32	4.5															
PCB-187	2,2',3,4',5,5',6 - HpCB	187	3.5	32	4.5														1.54	
PCB-188	2,2',3,4',5,6,6' - HpCB	188	2.6	32	4.5															
PCB-189	2,3,3',4,4',5,5' - HpCB	189	2.6	32	4.5															
PCB-190	2,3,3',4,4',5,6 - HpCB	190	2.6	32	4.5				0.12								0.13		0.18	
PCB-191	2,3,3',4,4',5',6 - HpCB	191	2.6	32	4.5												0.04			
PCB-192	2,3,3',4,5,5',6 - HpCB	192	2.6	32	4.5												0.00			
PCB-194	2,2',3,3',4,4',5,5' - OcCB	194	1.3	32	4.5															
PCB-195	2,2',3,3',4,4',5,6 - OcCB	195	1.6	32	4.5															
PCB-196	2,2',3,3',4,4',5,6' - OcCB	196	1.6	32	4.5															
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	197	1.6	32	4.5		0.09		0.07								0.11		0.14	
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	198	1.8	32	4.5														0.70	
PCB-201	2,2',3,3',4,5',6,6' - OcCB	201	1.8	32	4.5															
PCB-202	2,2',3,3',5,5',6,6' - OcCB	202	1.6	32	4.5		0.13		0.21										0.26	
PCB-203	2,2',3,4,4',5,5',6 - OcCB	203	1.6	32	4.5															
PCB-204	2,2',3,4,4',5,6,6' - OcCB	204	1.6	32	4.5															
PCB-205	2,3,3',4,4',5,5',6 - OcCB	205	1.6	32	4.5															
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	206	0.40	32	4.5															
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	207	0.40	32	4.5									0.05					0.10	
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	208	0.40	32	4.5															
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	209	0.40	32	4.5															

Table D-5
Raw Data, EPA Qualification, and Calculations - August 2003

Sample Location							Plante's Ferry		Boulder Beach		Dam Forebay		Barker Road		State Line		Monroe St.		Riverside Park	
CLIENT ID			Transfer Coefficient:				AN-01LPA		AN-02LPA		AN-03LPA		AN-12LPA		AN-11LP		AN-13LP		AN-14LP	
AXYS ID			k1(s) (L/g*d)	Time	Ms	EAF*	L6164-2		L6164-3 i		L6164-4		L6164-5		L6286-6		L6286-8		L6286-9	
WORKGROUP			(Meadows et al 1998)	(days)			WG10490		WG10490		WG10490		WG10490		WG10754		WG10754		WG10754	
UNITS	Name	IUPAC NO.	Rs				pg/L	EAF*	pg/sample	EAF*	pg/sample	EAF*	pg/sample	EAF	pg/sample	EAF	pg/sample	EAF	pg/sample	EAF
	SPMDs																			
	Total Monochloro Biphenyls						0.00		0.00		0.00		0.00		0.00		0.00		0.00	
	Total Dichloro Biphenyls						0.00		0.00		3.69		0.00		0.00		9.88		9.00	
	Total Trichloro Biphenyls						1.10		0.00		0.01		0.00		0.03		0.05		0.37	
	Total Tetrachloro Biphenyls						1.44		0.00		51.38		0.03		0.04		1.13		49.98	
	Total Pentachloro Biphenyls						0.26		0.36		24.18		0.13		0.01		41.69		65.30	
	Total Hexachloro Biphenyls						0.11		0.12		0.72		0.07		0.11		26.83		33.01	
	Total Heptachloro Biphenyls						0.00		0.82		0.83		0.20		0.31		1.52		9.55	
	Total Octachloro Biphenyls						0.22		0.28		0.00		0.00		0.00		0.11		1.10	
	Total Nonachloro Biphenyls						0.00		0.00		0.00		0.00		0.05		0.00		0.10	
	Decachloro Biphenyl						0.00		0.00		0.00		0.00		0.00		0.00		0.00	
	TOTAL PCBs						3.13		1.59		80.82		0.44		0.56		81.20		168.39	

**Table D-6
December SPMD PCB Results - Blank Corrected**

	State Line	Barker Road	Plante's Ferry	Boulder Beach	Dam Forebay	Monroe St.	Riverside
SPMDs*	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
Total Monochloro Biphenyls	0.05	0.00	0.05	0.07	0.05	0.06	0.12
Total Dichloro Biphenyls	1.81	9.05	0.72	1.50	1.03	4.84	4.02
Total Trichloro Biphenyls	16.23	78.21	9.36	11.33	7.85	31.94	30.36
Total Tetrachloro Biphenyls	15.99	84.74	22.38	12.89	16.15	39.39	54.52
Total Pentachloro Biphenyls	7.54	24.23	13.77	5.81	8.80	27.10	46.51
Total Hexachloro Biphenyls	4.53	3.12	5.10	2.89	2.96	16.57	24.09
Total Heptachloro Biphenyls	1.29	3.79	1.78	1.26	0.41	4.94	7.90
Total Octachloro Biphenyls	0.27	0.09	0.23	0.32	0.06	0.50	1.61
Total Nonachloro Biphenyls	0.00	0.00	0.00	0.00	0.00	0.00	1.34
Decachloro Biphenyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL PCBs	47.72	203.23	53.39	36.06	37.32	125.34	170.48
Sum of Penta & Greater	13.63	31.24	20.88	10.27	12.24	49.11	81.46

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location		State Line	State Line	Barker Road	Barker Road	Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay	Monroe Street	Monroe Street
CLIENT ID		AN-11LP-031218	AN-11LP-031218	AN-12LP A-031217	AN-12LP A-031217	AN-01LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-13LP-031218
Axys ID		L6425-10		L6425-11		L6425-4		L6425-6		L6425-8		L6425-13	
WORKGROUP		WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected
UNITS	Name	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample
PCB-1	2 - MoCB	17.5	UB	17	UB	13.3	UB	19.4	1.45	13	UB	K19.2	U
PCB-2	3 - MoCB	7.22	7.22	K4.62	U	7.21	7.21	7.72	7.72	9.64	9.64	K7.93	U
PCB-3	4 - MoCB	K18.4	U	13.3	0.05	18.1	4.85	19.3	6.05	17.9	4.65	19.6	6.35
PCB-4	2,2' - DiCB	86.3	17.45	71.9	3.05	78.8	9.95	98.1	29.25	70.5	1.65	96.6	27.75
PCB-5	2,3 - DiCB	K7.64	U	K4.80	U	K5.01	U	K7.69	U	K5.20	U	5.79	5.79
PCB-6	2,3' - DiCB	58.6	19.6	51.8	12.8	59.7	20.7	65.4	26.4	54.6	15.6	69.7	30.7
PCB-7	2,4 - DiCB	13.6	5.37	11.2	2.97	K9.55	U	K14.5	U	11.3	3.07	13.5	5.27
PCB-8	2,4' - DiCB	280	92	234	46	220	32	291	103	216	28	289	101
PCB-9	2,5 - DiCB	K20.9	U	18.2	7	K14.7	U	K18.4	U	14.3	3.1	21.7	10.5
PCB-10	2,6 - DiCB	K5.22	U	K4.67	U	K4.86	U	K5.84	U	K4.11	U	K3.96	U
PCB-11	3,3' - DiCB	143	68.9	106	31.9	116	41.9	172	97.9	245	170.9	297	222.9
PCB-12/13	3,4 - DiCB	22.5	10.9	17.4	5.8	23.9	12.3	K23.6	U	22.5	10.9	26.9	15.3
PCB-14	3,5 - DiCB	<4.53	U	<1.71	U	<2.28	U	<3.35	U	<2.41	U	<2.96	U
PCB-15	4,4' - DiCB	139	56.65	110	27.65	158	75.65	154	71.65	149	66.65	166	83.65
PCB-16	2,2',3 - TriCB	169	75.3	132	38.3	141	47.3	177	83.3	144	50.3	185	91.3
PCB-17	2,2',4 - TriCB	199	81	155	37	181	63	204	86	188	70	228	110
PCB-18/30	2,2',5 - TriCB	381	178	289	86	352	149	377	174	364	161	431	228
PCB-19	2,2',6 - TriCB	36.4	13.85	28.1	5.55	54	31.45	46.8	24.25	45.4	22.85	49.8	27.25
PCB-20/28	2,3,3' - TriCB	641	280.5	506	145.5	740	379.5	659	298.5	690	329.5	794	433.5
PCB-21/33	2,3,4 - TriCB	369	167.5	282	80.5	270	68.5	335	133.5	259	57.5	408	206.5
PCB-22	2,3,4' - TriCB	205	85.5	170	50.5	230	110.5	220	100.5	200	80.5	246	126.5
PCB-23	2,3,5 - TriCB	K2.07	U	<0.512	U	K1.79	U	K1.57	U	2.41	2.41	<1.35	U
PCB-24	2,3,6 - TriCB	7.84	4.02	K4.17	U	K6.48	U	7.42	3.6	6.3	2.48	9.93	6.11
PCB-25	2,3',4 - TriCB	48.5	22.95	38	12.45	47.6	22.05	48	22.45	48.2	22.65	57.7	32.15
PCB-26/29	2,3',5 - TriCB	111	48.9	88	25.9	110	47.9	110	47.9	109	46.9	144	81.9
PCB-27	2,3',6 - TriCB	32	15.25	21.7	4.95	39.1	22.35	36.2	19.45	38.7	21.95	37.8	21.05
PCB-31	2,4',5 - TriCB	591	286	435	130	603	298	564	259	581	276	656	351
PCB-32	2,4',6 - TriCB	130	60.4	95.4	25.8	156	86.4	147	77.4	157	87.4	146	76.4
PCB-34	2',3,5 - TriCB	K3.07	U	<0.514	U	4.2	2.26	K3.06	U	3.06	1.12	<1.36	U
PCB-35	3,3',4 - TriCB	7.78	2.7	7.07	1.99	9.4	4.32	8.46	3.38	9.28	4.2	10.4	5.32
PCB-36	3,3',5 - TriCB	<0.800	U	K0.604	U	0.926	0.926	<0.688	U	K1.06	U	<1.24	U
PCB-37	3,4,4' - TriCB	101	33.9	85.2	18.1	128	60.9	113	45.9	112	44.9	125	57.9
PCB-38	3,4,5 - TriCB	K0.892	U	K0.522	U	1.44	1.44	0.725	0.725	K1.83	U	<1.28	U
PCB-39	3,4',5 - TriCB	<0.786	U	<0.463	U	<0.276	U	<0.676	U	<0.231	U	<1.22	U
PCB-40/41/71	2,2',3,3' - TeCB	192	85.55	154	47.55	262	155.55	216	109.55	229	122.55	236	129.55
PCB-42	2,2',3,4' - TeCB	99.2	47.6	81.7	30.1	147	95.4	107	55.4	125	73.4	121	69.4
PCB-43	2,2',3,5 - TeCB	17.7	7.31	14.2	3.81	23.3	12.91	18.5	8.11	21.9	11.51	22.1	11.71
PCB-44/47/65	2,2',3,5' - TeCB	349	180	269	100	506	337	369	200	484	315	423	254
PCB-45/51	2,2',3,6 - TeCB	84.8	45.25	66.1	26.55	109	69.45	90.4	50.85	113	73.45	94.1	54.55
PCB-46	2,2',3,6' - TeCB	26.3	16.36	21.5	11.56	32.3	22.36	K28.2	U	31.1	21.16	30.4	20.46
PCB-48	2,2',4,5 - TeCB	92.7	42.85	73.5	23.65	117	67.15	95.7	45.85	103	53.15	105	55.15
PCB-49/69	2,2',4,5' - TeCB	226	114.8	165	53.8	352	240.8	241	129.8	319	207.8	270	158.8
PCB-50/53	2,2',4,6 - TeCB	55.5	29.5	43.2	17.2	86.4	60.4	62.1	36.1	85.1	59.1	69	43
PCB-52	2,2',5,5' - TeCB	413	232	274	93	654	473	422	241	598	417	487	306
PCB-54	2,2',6,6' - TeCB	K1.41	U	K1.44	U	1.95	1.95	1.61	1.61	K1.84	U	1.46	1.46
PCB-55	2,3,3',4 - TeCB	K5.60	U	5.15	5.15	K7.77	U	K6.49	U	<1.44	U	6.78	6.78
PCB-56	2,3,3',4' - TeCB	82.3	25.4	78.4	21.5	197	140.1	111	54.1	137	80.1	133	76.1
PCB-57	2,3,3',5 - TeCB	<1.61	U	<1.83	U	<1.75	U	<1.90	U	K2.61	U	<1.96	U
PCB-58	2,3,3',5' - TeCB	<1.55	U	<1.77	U	<1.69	U	<1.84	U	<1.53	U	<1.90	U
PCB-59/62/75	2,3,3',6 - TeCB	40.3	22.1	31	12.8	51.4	33.2	38.8	20.6	46.7	28.5	47	28.8
PCB-60	2,3,4,4' - TeCB	51.2	15.2	48.1	12.1	110	74	60.8	24.8	69	33	75.6	39.6
PCB-61/70/74/76	2,3,4,5 - TeCB	369	117.5	312	60.5	751	499.5	401	149.5	582	330.5	577	325.5
PCB-63	2,3,4',5 - TeCB	9.34	0.89	8.34	UB	18.8	10.35	10.3	1.85	14.3	5.85	13.7	5.25
PCB-64	2,3,4',6 - TeCB	146	68.65	113	35.65	262	184.65	172	94.65	220	142.65	193	115.65

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location		State Line	State Line	Barker Road	Barker Road	Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay	Monroe Street	Monroe Street
CLIENT ID		AN-11LP-031218	AN-11LP-031218	AN-12LP A-031217	AN-12LP A-031217	AN-01LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-13LP-031218
Axys ID		L6425-10		L6425-11		L6425-4		L6425-6		L6425-8		L6425-13	
WORKGROUP		WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected
UNITS	Name	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample
PCB-66	2,3',4,4' - TeCB	184	60.2	163	39.2	410	286.2	224	100.2	321	197.2	314	190.2
PCB-67	2,3',4,5' - TeCB	9.63	5.11	7.69	3.17	13.8	9.28	9.78	5.26	11.5	6.98	13.3	8.78
PCB-68	2,3',4,5' - TeCB	K2.59	U	<1.71	U	2.58	2.58	K2.04	U	8.74	8.74	2.13	2.13
PCB-72	2,3',5,5' - TeCB	<1.59	U	<1.77	U	K3.39	U	<1.89	U	K2.18	U	K1.98	U
PCB-73	2,3',5,6' - TeCB	<0.152	U	<0.360	U	<0.239	U	<0.279	U	<0.287	U	<0.272	U
PCB-77	3,3',4,4' - TeCB	10.9	3.125	9.18	1.405	22.7	14.925	K15.3	U	19.8	12.025	18.7	10.925
PCB-78	3,3',4,5' - TeCB	<1.37	U	<1.64	U	<1.50	U	<1.63	U	<1.36	U	<1.76	U
PCB-79	3,3',4,5' - TeCB	1.88	0.19	<1.38	U	<1.32	U	<1.44	U	K2.28	U	K3.39	U
PCB-80	3,3',5,5' - TeCB	<1.32	U	<1.52	U	<1.44	U	<1.56	U	<1.30	U	<1.64	U
PCB-81	3,4,4,5' - TeCB	<1.32	U	<1.59	U	<1.41	U	<1.54	U	<1.35	U	K1.93	U
PCB-82	2,2',3,3',4' - PeCB	15.2	6.35	12	3.15	40.7	31.85	19.5	10.65	24.8	15.95	26.8	17.95
PCB-83/99	2,2',3,3',5' - PeCB	78.3	30.4	60.2	12.3	175	127.1	89.7	41.8	137	89.1	152	104.1
PCB-84	2,2',3,3',6' - PeCB	41.1	20.4	34.1	13.4	91.2	70.5	51.7	31	68.7	48	68.2	47.5
PCB-85/116/117	2,2',3,4,4' - PeCB	25.7	10.9	18.6	3.8	70	55.2	31.7	16.9	49	34.2	52.4	37.6
PCB-86/87/97/108/119/125	2,2',3,4,5' - PeCB	105	50.7	69.7	15.4	215	160.7	109	54.7	165	110.7	173	118.7
PCB-88/91	2,2',3,4,6' - PeCB	24.2	12.195	17.9	5.895	54	41.995	29	16.995	41.5	29.495	41.2	29.195
PCB-89	2,2',3,4,6' - PeCB	2.56	2.56	K2.63	U	6.21	6.21	3.59	3.59	K4.46	U	K4.36	U
PCB-90/101/113	2,2',3,4,5' - PeCB	198	89.1	134	25.1	324	215.1	186	77.1	276	167.1	292	183.1
PCB-92	2,2',3,5,5' - PeCB	33.3	10	22.9	UB	59.7	36.4	34.8	11.5	50.6	27.3	49	25.7
PCB-93/95/98/100/102	2,2',3,5,6' - PeCB	179	100	121	42	289	210	172	93	249	170	239	160
PCB-94	2,2',3,5,6' - PeCB	<1.30	U	1.85	1.85	K2.89	U	<1.53	U	K2.16	U	2.2	2.2
PCB-96	2,2',3,6,6' - PeCB	K2.01	U	K1.83	U	4.48	4.48	3.26	3.26	3.21	3.21	K2.34	U
PCB-103	2,2',4,5,6' - PeCB	2.26	0.86	1.29	UB	2.91	1.51	<1.31	U	K2.32	U	K2.41	U
PCB-104	2,2',4,6,6' - PeCB	<0.524	U	0.526	0.526	<0.352	U	<0.614	U	K0.404	U	<0.428	U
PCB-105	2,3,3',4,4' - PeCB	34.7	13.4	23.5	2.2	98.9	77.6	43.8	22.5	66.1	44.8	78.1	56.8
PCB-106	2,3,3',4,5' - PeCB	<1.64	U	<0.920	U	<1.74	U	<1.52	U	<1.59	U	<2.52	U
PCB-107/124	2,3,3',4,5' - PeCB	3.92	3.92	3.08	3.08	11.8	11.8	5.49	5.49	7.13	7.13	9.03	9.03
PCB-109	2,3,3',4,6' - PeCB	K7.03	U	K4.34	U	17.9	15.3	K7.56	U	13.9	11.3	12.5	9.9
PCB-110/115	2,3,3',4,6' - PeCB	152	75.9	97.6	21.5	326	249.9	158	81.9	254	177.9	285	208.9
PCB-111	2,3,3',5,5' - PeCB	<0.878	U	<0.711	U	<0.702	U	<1.03	U	<1.03	U	<0.571	U
PCB-112	2,3,3',5,6' - PeCB	<0.933	U	<0.719	U	<0.746	U	<1.10	U	<1.09	U	<0.577	U
PCB-114	2,3,4,4,5' - PeCB	K3.21	U	K2.49	U	6.57	6.57	K3.73	U	K5.56	U	5.48	5.48
PCB-118	2,3',4,4,5' - PeCB	101	43	61	3	212	154	104	46	162	104	184	126
PCB-120	2,3',4,5,5' - PeCB	<0.851	U	<0.688	U	<0.680	U	<1.00	U	<0.996	U	<0.553	U
PCB-121	2,3',4,5,6' - PeCB	<0.906	U	<0.730	U	<0.724	U	<1.07	U	<1.06	U	<0.586	U
PCB-122	2',3,3',4,5' - PeCB	<1.82	U	K1.45	U	K3.90	U	<1.69	U	K1.98	U	<2.67	U
PCB-123	2',3,4,4,5' - PeCB	K3.61	U	K3.37	U	K10.6	U	K4.59	U	K7.41	U	K7.12	U
PCB-126	3,3',4,4,5' - PeCB	<2.09	U	<0.975	U	<2.00	U	<1.79	U	<1.96	U	<2.70	U
PCB-127	3,3',4,5,5' - PeCB	<1.65	U	<0.873	U	<1.75	U	<1.53	U	<1.60	U	<2.39	U
PCB-128/166	2,2',3,3',4,4' - HxCB	11.6	5.06	6.6	0.06	17.4	10.86	10.2	3.66	13.6	7.06	20	13.46
PCB-129/138/160/163	2,2',3,3',4,5' - HxCB	114	52.45	66.7	5.15	162	100.45	107	45.45	133	71.45	190	128.45
PCB-130	2,2',3,3',4,5' - HxCB	7.04	4.81	K3.62	U	10.5	8.27	6.55	4.32	7.87	5.64	10.1	7.87
PCB-131	2,2',3,3',4,6' - HxCB	<1.01	U	<0.696	U	3	3	<1.25	U	K1.90	U	K2.37	U
PCB-132	2,2',3,3',4,6' - HxCB	37.2	13.5	26.4	2.7	55	31.3	38.2	14.5	43.5	19.8	63.6	39.9
PCB-133	2,2',3,3',5,5' - HxCB	2.48	1.02	K1.50	U	K2.86	U	2.3	0.84	3.16	1.7	3.12	1.66
PCB-134/143	2,2',3,3',5,6' - HxCB	<0.998	U	<0.696	U	<1.39	U	<1.24	U	<0.896	U	<0.849	U
PCB-135/151/154	2,2',3,3',5,6' - HxCB	76.6	23.2	53.7	0.3	91	37.6	74.7	21.3	82.6	29.2	103	49.6
PCB-136	2,2',3,3',6,6' - HxCB	27.6	10.1	22.7	5.2	32.5	15	28.6	11.1	27.6	10.1	38.1	20.6
PCB-137	2,2',3,4,4,5' - HxCB	4.53	3.08	3.25	1.8	7.64	6.19	3.64	2.19	5.31	3.86	8.86	7.41
PCB-139/140	2,2',3,4,4,6' - HxCB	2.35	1.427	K1.62	U	3.89	2.967	<1.10	U	K2.72	U	2.78	1.857
PCB-141	2,2',3,4,5,5' - HxCB	K29.5	U	18.2	UB	37.9	17.75	30.2	10.05	28.9	8.75	42.2	22.05
PCB-142	2,2',3,4,5,6' - HxCB	<0.985	U	<0.675	U	<1.37	U	<1.22	U	<0.885	U	<0.823	U
PCB-144	2,2',3,4,5,6' - HxCB	K11.0	U	7.18	UB	13.1	5.185	10.7	2.785	11.1	3.185	13.9	5.985
PCB-145	2,2',3,4,6,6' - HxCB	<0.333	U	0.221	0.221	<0.491	U	<0.189	U	K0.109	U	0.142	0.142

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location		State Line	State Line	Barker Road	Barker Road	Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay	Monroe Street	Monroe Street
CLIENT ID		AN-11LP-031218	AN-11LP-031218	AN-12LP A-031217	AN-12LP A-031217	AN-01LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-13LP-031218
Axys ID		L6425-10		L6425-11		L6425-4		L6425-6		L6425-8		L6425-13	
WORKGROUP		WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected
UNITS	Name	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample
PCB-146	2,2',3,4',5,5' - HxCB	22.2	10.16	12.7	0.66	28.6	16.56	20.2	8.16	25	12.96	29.6	17.56
PCB-147/149	2,2',3,4',5,6 - HxCB	150	54.75	95.6	0.35	175	79.75	139	43.75	143	47.75	216	120.75
PCB-148	2,2',3,4',5,6' - HxCB	<0.428	U	<0.262	U	<0.630	U	<0.243	U	K0.205	U	K0.348	U
PCB-150	2,2',3,4',6,6' - HxCB	<0.322	U	<0.194	U	<0.475	U	<0.183	U	<0.0288	U	<0.0357	U
PCB-152	2,2',3,5,6,6' - HxCB	<0.318	U	<0.190	U	<0.469	U	<0.181	U	K0.090	U	<0.0349	U
PCB-153/168	2,2',4,4',5,5' - HxCB	130	42.6	78.9	UB	174	86.6	125	37.6	141	53.6	194	106.6
PCB-155	2,2',4,4',6,6' - HxCB	<0.250	U	K0.554	U	<0.375	U	0.369	0.369	0.57	0.57	K0.249	U
PCB-156/157	2,3,3',4,4',5 - HxCB	K13.1	U	7.86	UB	17.4	7.72	13.2	3.52	14.4	4.72	18.8	9.12
PCB-158	2,3,3',4,4',6 - HxCB	11.5	2.28	7.29	UB	15.5	6.28	K9.18	U	10.7	1.48	18.3	9.08
PCB-159	2,3,3',4,5,5' - HxCB	1.86	0.5	K1.73	U	K2.22	U	K2.19	U	K1.24	U	K1.96	U
PCB-161	2,3,3',4,5',6 - HxCB	<0.684	U	<0.474	U	<0.950	U	<0.849	U	<0.614	U	<0.578	U
PCB-162	2,3,3',4',5,5' - HxCB	<0.640	U	<0.459	U	<0.890	U	<0.796	U	<0.575	U	K0.611	U
PCB-164	2,3,3',4',5',6 - HxCB	8.26	3.645	4.58	UB	11.5	6.885	7.61	2.995	K9.71	U	12.3	7.685
PCB-165	2,3,3',5,5',6 - HxCB	<0.746	U	<0.530	U	<1.04	U	<0.927	U	<0.670	U	<0.646	U
PCB-167	2,3',4,4',5,5' - HxCB	4.62	0.83	3.47	UB	7.39	3.6	K5.12	U	5.7	1.91	7	3.21
PCB-169	3,3',4,4',5,5' - HxCB	<0.788	U	<0.472	U	<0.885	U	<0.813	U	<0.781	U	<0.607	U
PCB-170	2,2',3,3',4,4',5 - HpCB	13.1	1.3	8.33	UB	19.9	8.1	14.5	2.7	12.4	0.6	20.3	8.5
PCB-171/173	2,2',3,3',4,4',6 - HpCB	5.64	UB	K4.82	U	7.31	1.53	5.85	0.07	5.18	UB	7.86	2.08
PCB-172	2,2',3,3',4,5,5' - HpCB	K3.24	U	2.76	1.13	5.23	3.6	4.15	2.52	K3.60	U	5.48	3.85
PCB-174	2,2',3,3',4,5,6' - HpCB	25.9	4.75	20.5	UB	31.7	10.55	27.6	6.45	21.6	0.45	36.9	15.75
PCB-175	2,2',3,3',4,5',6 - HpCB	K1.70	U	1.2	1.2	K1.51	U	K1.32	U	K1.22	U	K2.06	U
PCB-176	2,2',3,3',4,6,6' - HpCB	5.53	UB	K6.08	U	6.45	0.75	7.23	1.53	K4.76	U	7.17	1.47
PCB-177	2,2',3,3',4',5,6 - HpCB	14.8	4.195	11.1	0.495	K18.2	U	15.8	5.195	13.5	2.895	18.7	8.095
PCB-178	2,2',3,3',5,5',6 - HpCB	8.06	8.06	6.53	6.53	10.2	10.2	9.12	9.12	8.01	8.01	K10.1	U
PCB-179	2,2',3,3',5,6,6' - HpCB	21.6	2.35	18.9	UB	24.6	5.35	23.1	3.85	18.4	UB	24.9	5.65
PCB-180/193	2,2',3,4,4',5,5' - HpCB	41	7.75	30	UB	60.3	27.05	46.1	12.85	40.2	6.95	61	27.75
PCB-181	2,2',3,4,4',5,6 - HpCB	<0.0398	U	<0.0414	U	K0.392	U	0.238	0.238	K0.204	U	K0.621	U
PCB-182	2,2',3,4,4',5,6' - HpCB	K0.130	U	K0.259	U	0.166	0.166	K0.428	U	K0.173	U	K0.573	U
PCB-183/185	2,2',3,4,4',5,6 - HpCB	21.6	3.35	17.8	UB	27.7	9.45	23.6	5.35	20.4	2.15	28.1	9.85
PCB-184	2,2',3,4,4',6,6' - HpCB	<0.0313	U	K0.397	U	K0.255	U	K0.161	U	<0.0261	U	0.263	0.263
PCB-186	2,2',3,4,5,6,6' - HpCB	<0.0336	U	K0.072	U	K0.045	U	K0.047	U	<0.0281	U	K0.137	U
PCB-187	2,2',3,4',5,5',6 - HpCB	42.5	6.85	33.9	UB	52.6	16.95	42.2	6.55	37.3	1.65	54	18.35
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.109	U	K0.392	U	K0.192	U	<0.0315	U	0.178	0.178	K0.257	U
PCB-189	2,3,3',4,4',5,5' - HpCB	K1.25	U	K1.06	U	K1.41	U	K1.56	U	K1.41	U	K1.09	U
PCB-190	2,3,3',4,4',5,6 - HpCB	3.37	3.37	2.24	2.24	4.59	4.59	K3.47	U	3.19	3.19	4.79	4.79
PCB-191	2,3,3',4,4',5',6 - HpCB	0.778	0.449	K0.529	U	1.11	0.781	K0.666	U	K0.857	U	K1.12	U
PCB-192	2,3,3',4,5,5',6 - HpCB	<0.0355	U	<0.0360	U	<0.0393	U	K0.063	U	K0.049	U	K0.056	U
PCB-194	2,2',3,3',4,4',5,5' - OcCB	5.58	1.64	4.08	0.14	K9.86	U	6.29	2.35	5.17	1.23	5.41	1.47
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K2.79	U	1.55	UB	K3.51	U	2.71	0.72	2.09	0.1	2.41	0.42
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K3.86	U	K2.93	U	K5.35	U	K4.58	U	K3.39	U	K4.70	U
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K2.23	U	K2.87	U	K2.93	U	2.48	UB	K1.41	U	0.62	UB
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	11.8	2.48	7.58	UB	14.1	4.78	13.1	3.78	9.5	0.18	13.6	4.28
PCB-201	2,2',3,3',4,5',6,6' - OcCB	K2.24	U	K2.31	U	2.67	0.28	K2.55	U	K1.66	U	2.44	0.05
PCB-202	2,2',3,3',5,5',6,6' - OcCB	4.71	UB	4.47	UB	5.72	0.865	5.67	0.815	K4.00	U	5.29	0.435
PCB-203	2,2',3,4,4',5,5',6 - OcCB	6.57	0.87	K5.10	U	8.14	2.44	6.54	0.84	5.38	UB	K7.74	U
PCB-204	2,2',3,4,4',5,6,6' - OcCB	K0.148	U	K0.299	U	K0.118	U	K0.063	U	K0.184	U	<0.0440	U
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K0.648	U	K0.903	U	K0.822	U	K0.554	U	0.496	0.496	K0.421	U
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	K2.73	U	K2.79	U	K3.50	U	K3.36	U	K2.42	U	K3.72	U
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<1.84	U	<1.51	U	<1.51	U	<1.67	U	<1.58	U	<1.64	U
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<1.83	U	<1.52	U	K2.02	U	K3.43	U	<1.63	U	K2.10	U
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	4.45	UB	K4.65	U	K4.64	U	K5.61	U	K5.34	U	K5.09	U
8L		64.1 %REC		66.7 %REC		43.2 %REC		68.6 %REC		43.0 %REC		58.8 %REC	
SPMDs													
Total Monochloro Biphenyls		24.72	7.22	30.30	0.05	38.61	12.06	46.42	15.22	40.54	14.29	19.60	6.35

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location	Name	State Line	State Line	Barker Road	Barker Road	Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay	Monroe Street	Monroe Street
CLIENT ID		AN-11LP-031218	AN-11LP-031218	AN-12LP A-031217	AN-12LP A-031217	AN-01LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-13LP-031218
Axys ID		L6425-10		L6425-11		L6425-4		L6425-6		L6425-8		L6425-13	
WORKGROUP		WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected	WG11043	Blank Corrected
UNITS		pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample
Total Dichloro Biphenyls		743.00	270.87	620.50	137.17	656.40	192.50	780.50	328.20	783.20	299.87	986.19	502.86
Total Trichloro Biphenyls		3029.52	1355.77	2332.47	662.54	3067.67	1395.80	3053.61	1379.86	2957.35	1281.66	3528.63	1854.88
Total Tetrachloro Biphenyls		2460.75	1119.59	1938.06	598.70	4130.23	2790.76	2650.99	1329.23	3539.14	2199.67	3253.27	1913.80
Total Pentachloro Biphenyls		996.24	469.69	679.25	153.20	2005.37	1476.22	1041.54	516.39	1567.94	1040.19	1669.91	1142.16
Total Hexachloro Biphenyls		611.84	229.41	415.35	16.44	863.32	445.97	617.47	212.59	697.01	283.74	991.80	572.99
Total Heptachloro Biphenyls		203.88	42.42	153.26	11.60	251.86	99.07	219.49	56.42	180.36	26.07	269.46	106.40
Total Octachloro Biphenyls		28.66	4.99	17.68	0.14	30.63	8.37	36.79	8.51	22.64	2.01	29.77	6.66
Total Nonachloro Biphenyls		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Decachloro Biphenyl		4.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL PCBs		8103.06	3499.96	6186.87	1579.83	11044.08	6420.73	8446.80	3846.41	9788.17	5147.48	10748.64	6106.08

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location		Riverside State Pk	Riverside State Pk								
CLIENT ID		AN-14LP-031217	AN-14LP-031217	Trip Blank-031217	Day Zero-031217		LAB BLANK	SPIKED MATRIX			
Axys ID		L6425-14		L6425-1	L6425-15		WG11043-101	WG11043-102	IUPAC	Transfer Coefficient: k1(s) (L/g*d)	
WORKGROUP		WG11043	Blank Corrected	WG11043	WG11043	Average Blank	WG11043	WG11043	NO.	(Meadows et al 1998)	
UNITS	Name	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	% REC		Rs	
PCB-1	2 - MoCB	16.2	UB	21.1	14.8	17.95	K0.779	98.3	1	12.8	
PCB-2	3 - MoCB	9.38	9.38	K3.72	K2.26	0	K0.541		2	12.8	
PCB-3	4 - MoCB	21.5	8.25	15.1	11.4	13.25	K2.03	92.7	3	12.8	
PCB-4	2,2' - DiCB	94.3	25.45	80	57.7	68.85	<2.53	102	4	12.8	
PCB-5	2,3 - DiCB	5.66	5.66	K6.75	K3.72	0	<1.94		5	12.8	
PCB-6	2,3' - DiCB	63.7	24.7	43.4	34.6	39	<1.83		6	12.8	
PCB-7	2,4 - DiCB	14.1	5.87	K11.3	8.23	8.23	<1.81		7	12.8	
PCB-8	2,4' - DiCB	288	100	207	169	188	<1.73		8	12.8	
PCB-9	2,5 - DiCB	K22.2	U	K16.6	11.2	11.2	<1.80		9	12.8	
PCB-10	2,6 - DiCB	6.09	3.19	K4.60	2.9	2.9	<1.89		10	12.8	
PCB-11	3,3' - DiCB	382	307.9	85.8	62.4	74.1	1.89		11	12.8	
PCB-12/13	3,4 - DiCB	24.5	12.9	K16.4	11.6	11.6	<1.84		12	12.8	
PCB-14	3,5 - DiCB	<2.90	U	<3.79	<1.90	0	<1.84		14	12.8	
PCB-15	4,4' - DiCB	189	106.65	95.5	69.2	82.35	<2.17	98.6	15	12.8	
PCB-16	2,2',3 - TriCB	212	118.3	108	79.4	93.7	K0.786		16	6.7	
PCB-17	2,2',4 - TriCB	269	151	130	106	118	0.718		17	6.7	
PCB-18/30	2,2',5 - TriCB	545	342	233	173	203	1.74		18	9.2	
PCB-19	2,2',6 - TriCB	51.4	28.85	26.8	18.3	22.55	0.682	97.6	19	5.3	
PCB-20/28	2,3,3' - TriCB	912	551.5	424	297	360.5	K1.34		20	8.4	
PCB-21/33	2,3,4 - TriCB	426	224.5	235	168	201.5	0.958		21	6.7	
PCB-22	2,3,4' - TriCB	279	159.5	139	100	119.5	K0.456		22	5.7	
PCB-23	2,3,5 - TriCB	<0.621	U	K1.29	<0.321	0	K0.247		23	6.7	
PCB-24	2,3,6 - TriCB	8.91	5.09	3.82	K3.12	3.82	<0.0891		24	6.7	
PCB-25	2,3',4 - TriCB	66.9	41.35	28.7	22.4	25.55	K0.107		25	5.7	
PCB-26/29	2,3',5 - TriCB	168	105.9	68.5	55.7	62.1	0.272		26	5.7	
PCB-27	2,3',6 - TriCB	45.2	28.45	20.3	13.2	16.75	0.094		27	6.7	
PCB-31	2,4',5 - TriCB	841	536	357	253	305	1.38		31	7.0	
PCB-32	2,4',6 - TriCB	186	116.4	83.5	55.7	69.6	K0.479		32	6.7	
PCB-34	2',3,5 - TriCB	<0.623	U	1.94	<0.322	1.94	0.327		34	6.7	
PCB-35	3,3',4 - TriCB	20.8	15.72	6.65	3.51	5.08	<0.0870		35	6.7	
PCB-36	3,3',5 - TriCB	K5.15	U	<0.524	<0.293	0	<0.0791		36	6.7	
PCB-37	3,4,4' - TriCB	152	84.9	84.2	50	67.1	K0.673	97.3	37	6.7	
PCB-38	3,4,5 - TriCB	<0.587	U	<0.543	<0.304	0	<0.0820		38	6.7	
PCB-39	3,4',5 - TriCB	<0.561	U	<0.515	<0.290	0	K0.083		39	6.7	
PCB-40/41/71	2,2',3,3' - TeCB	339	232.55	136	76.9	106.45	<0.347		40	6.4	
PCB-42	2,2',3,4' - TeCB	169	117.4	66.5	36.7	51.6	<0.378		42	6.2	
PCB-43	2,2',3,5 - TeCB	32.3	21.91	12.6	8.18	10.39	<0.405		43	6.2	
PCB-44/47/65	2,2',3,5' - TeCB	680	511	209	129	169	1.35		44	7.5	
PCB-45/51	2,2',3,6 - TeCB	136	96.45	48.6	30.5	39.55	<0.354		45	6.4	
PCB-46	2,2',3,6' - TeCB	39.4	29.46	K15.0	9.94	9.94	<0.418		46	4.4	
PCB-48	2,2',4,5 - TeCB	159	109.15	64.2	35.5	49.85	K0.415		48	3.5	
PCB-49/69	2,2',4,5' - TeCB	437	325.8	144	78.4	111.2	0.817		49	5.3	
PCB-50/53	2,2',4,6 - TeCB	103	77	31.9	20.1	26	K0.401		50	4.8	
PCB-52	2,2',5,5' - TeCB	929	748	232	130	181	1.88		52	6.2	
PCB-54	2,2',6,6' - TeCB	1.77	1.77	K0.837	K0.580	0	<0.253	101	54	5.5	
PCB-55	2,3,3',4 - TeCB	9.98	9.98	K5.55	<1.05	0	<0.455		55	5.5	
PCB-56	2,3,3',4' - TeCB	181	124.1	73	40.8	56.9	0.537		56	5.5	
PCB-57	2,3,3',5 - TeCB	K2.96	U	<1.16	<1.15	0	<0.500		57	5.5	
PCB-58	2,3,3',5' - TeCB	<2.38	U	<1.12	<1.11	0	<0.484		58	5.5	
PCB-59/62/75	2,3,3',6 - TeCB	66.3	48.1	23.4	13	18.2	<0.268		59	5.5	
PCB-60	2,3,4,4' - TeCB	103	67	46.1	25.9	36	<0.448		60	5.5	
PCB-61/70/74/76	2,3,4,5 - TeCB	955	703.5	333	170	251.5	K1.79		61	6.6	
PCB-63	2,3,4',5 - TeCB	22	13.55	8.45	K4.55	8.45	<0.423		63	5.3	
PCB-64	2,3,4',6 - TeCB	290	212.65	98.5	56.2	77.35	K0.445		64	7.5	

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location		Riverside State Pk	Riverside State Pk								
CLIENT ID		AN-14LP-031217	AN-14LP-031217	Trip Blank-031217	Day Zero-031217		LAB BLANK	SPIKED MATRIX			
Axys ID		L6425-14		L6425-1	L6425-15		WG11043-101	WG11043-102	IUPAC	Transfer Coefficient: k1(s) (L/g*d)	
WORKGROUP		WG11043	Blank Corrected	WG11043	WG11043	Average Blank	WG11043	WG11043	NO.	(Meadows et al 1998)	
UNITS	Name	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	% REC		Rs	
PCB-66	2,3',4,4' - TeCB	420	296.2	161	86.6	123.8	1.55		66	5.3	
PCB-67	2,3',4,5' - TeCB	17.2	12.68	K8.07	4.52	4.52	<0.443		67	5.3	
PCB-68	2,3',4,5' - TeCB	4.5	4.5	K1.49	K1.50	0	<0.454		68	5.5	
PCB-72	2,3',5,5' - TeCB	<2.38	U	<1.15	<1.11	0	<0.497		72	5.5	
PCB-73	2,3',5,6' - TeCB	<0.505	U	<0.370	<0.264	0	<0.269		73	5.5	
PCB-77	3,3',4,4' - TeCB	24	16.225	9.86	5.69	7.775	K1.03	87.8	77	2.9	
PCB-78	3,3',4,5' - TeCB	<2.20	U	<0.993	<1.03	0	<0.428		78	4.4	
PCB-79	3,3',4,5' - TeCB	8.03	6.34	1.69	<0.866	1.69	<0.378		79	5.1	
PCB-80	3,3',5,5' - TeCB	<2.05	U	<0.954	<0.956	0	<0.411		80	5.5	
PCB-81	3,4,4',5' - TeCB	<2.15	U	K1.13	<0.987	0	K0.556	90.3	81	4.3	
PCB-82	2,2',3,3',4' - PeCB	50.1	41.25	12.2	5.5	8.85	<0.534		82	4.4	
PCB-83/99	2,2',3,3',5' - PeCB	289	241.1	60.4	35.4	47.9	K0.875		83	4.6	
PCB-84	2,2',3,3',6' - PeCB	143	122.3	25.4	16	20.7	<0.551		84	4.4	
PCB-85/116/117	2,2',3,4,4' - PeCB	87.5	72.7	19.3	10.3	14.8	<0.403		85	4.8	
PCB-86/87/97/108/119/125	2,2',3,4,5' - PeCB	382	327.7	68.4	40.2	54.3	<0.418		86	4.7	
PCB-88/91	2,2',3,4,6' - PeCB	74	61.995	14.7	9.31	12.005	<0.484		88	4.4	
PCB-89	2,2',3,4,6' - PeCB	K7.26	U	K2.62	<1.35	0	<0.518		89	4.6	
PCB-90/101/113	2,2',3,4,5' - PeCB	606	497.1	148	69.8	108.9	K0.624		90	6.2	
PCB-92	2,2',3,5,5' - PeCB	98.7	75.4	23.3	K10.7	23.3	<0.493		92	5.3	
PCB-93/95/98/100/102	2,2',3,5,6' - PeCB	519	440	102	56	79	K0.543		93	6.2	
PCB-94	2,2',3,5,6' - PeCB	K4.01	U	<1.31	<1.38	0	<0.524		94	4.6	
PCB-96	2,2',3,6,6' - PeCB	4.78	4.78	K0.769	K0.616	0	<0.286		96	4.6	
PCB-103	2,2',4,5,6' - PeCB	K3.95	U	1.4	<1.21	1.4	<0.448		103	4.6	
PCB-104	2,2',4,6,6' - PeCB	<0.476	U	K0.634	<0.576	0	<0.251	98.8	104	4.6	
PCB-105	2,3,3',4,4' - PeCB	141	119.7	26.9	15.7	21.3	K3.40	103	105	4.0	
PCB-106	2,3,3',4,5' - PeCB	<2.14	U	<1.07	K1.01	0	<0.439		106	4.6	
PCB-107/124	2,3,3',4,5' - PeCB	16.1	16.1	K3.51	K1.95	0	<0.468		107	5.3	
PCB-109	2,3,3',4,6' - PeCB	23.2	20.6	K4.43	2.6	2.6	<0.427		109	4.6	
PCB-110/115	2,3,3',4',6' - PeCB	553	476.9	95	57.2	76.1	K0.689		110	5.7	
PCB-111	2,3,3',5,5' - PeCB	<0.842	U	<0.888	<0.925	0	<0.354		111	4.6	
PCB-112	2,3,3',5,6' - PeCB	<0.851	U	<0.943	<0.935	0	<0.376		112	4.6	
PCB-114	2,3,4,4',5' - PeCB	K9.65	U	K3.08	K1.75	0	<0.477	103	114	4.4	
PCB-118	2,3',4,4',5' - PeCB	343	285	73.7	42.3	58	7.9	100	118	4.8	
PCB-120	2,3',4,5,5' - PeCB	<0.815	U	<0.860	<0.894	0	<0.343		120	4.6	
PCB-121	2,3',4,5,6' - PeCB	<0.864	U	<0.915	<0.949	0	<0.365		121	4.6	
PCB-122	2',3,3',4,5' - PeCB	K4.90	U	<1.19	<1.02	0	<0.486		122	4.6	
PCB-123	2',3,4,4',5' - PeCB	K23.0	U	K2.13	K1.69	0	<0.485	102	123	4.6	
PCB-126	3,3',4,4',5' - PeCB	<2.47	U	K1.38	<0.939	0	K0.971	99.8	126	2.2	
PCB-127	3,3',4,5,5' - PeCB	<2.03	U	<1.08	<0.914	0	<0.441		127	1.6	
PCB-128/166	2,2',3,3',4,4' - HxCB	30.2	23.66	6.54	K4.40	6.54	<0.422		128	4.4	
PCB-129/138/160/163	2,2',3,3',4,5' - HxCB	306	244.45	80.4	42.7	61.55	K2.34		129	4.2	
PCB-130	2,2',3,3',4,5' - HxCB	18.9	16.67	K4.35	2.23	2.23	<0.591		130	4.0	
PCB-131	2,2',3,3',4,6' - HxCB	<1.03	U	<1.11	<0.542	0	<0.591		131	4.2	
PCB-132	2,2',3,3',4,6' - HxCB	102	78.3	31.5	15.9	23.7	<0.573		132	4.2	
PCB-133	2,2',3,3',5,5' - HxCB	K5.63	U	1.46	<0.507	1.46	<0.551		133	4.2	
PCB-134/143	2,2',3,3',5,6' - HxCB	<1.04	U	<1.10	<0.543	0	<0.584		134	4.8	
PCB-135/151/154	2,2',3,3',5,6' - HxCB	161	107.6	79.2	27.6	53.4	<0.320		135	5.3	
PCB-136	2,2',3,3',6,6' - HxCB	61.3	43.8	24.9	10.1	17.5	<0.260		136	5.3	
PCB-137	2,2',3,4,4',5' - HxCB	13.4	11.95	K3.21	1.45	1.45	<0.520		137	3.5	
PCB-139/140	2,2',3,4,4',6' - HxCB	K5.42	U	K1.72	0.923	0.923	<0.518		139	4.2	
PCB-141	2,2',3,4,5,5' - HxCB	64.5	44.35	28.1	12.2	20.15	<0.543		141	4.8	
PCB-142	2,2',3,4,5,6' - HxCB	<1.00	U	<1.09	<0.526	0	<0.577		142	4.2	
PCB-144	2,2',3,4,5,6' - HxCB	23.4	15.485	12	3.83	7.915	<0.329		144	4.2	
PCB-145	2,2',3,4,6,6' - HxCB	K0.260	U	<0.465	K0.031	0	<0.265		145	4.2	

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location	CLIENT ID	Riverside State Pk	Riverside State Pk							IUPAC NO.	Transfer Coefficient: k1(s) (L/g*d) (Meadows et al 1998)
		AN-14LP-031217	AN-14LP-031217	Trip Blank-031217	Day Zero-031217			LAB BLANK	SPIKED MATRIX		
Axys ID	WORKGROUP	L6425-14	Blank Corrected	L6425-1	L6425-15	Average Blank	WG11043-101	WG11043-102			
UNITS	Name	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	WG11043	WG11043	% REC		Rs
PCB-146	2,2',3,4',5,5' - HxCB	49.8	37.76	17.1	6.98	12.04	<0.485			146	4.8
PCB-147/149	2,2',3,4',5,6 - HxCB	329	233.75	136	54.5	95.25	<0.520			147	5.7
PCB-148	2,2',3,4',5,6' - HxCB	0.752	0.752	<0.596	K0.093	0	<0.340			148	4.2
PCB-150	2,2',3,4',6,6' - HxCB	K0.453	U	<0.449	<0.0284	0	<0.256			150	4.2
PCB-152	2,2',3,5,6,6' - HxCB	<0.0446	U	<0.444	<0.0278	0	<0.253			152	4.2
PCB-153/168	2,2',4,4',5,5' - HxCB	331	243.6	125	49.8	87.4	3.02			153	3.2
PCB-155	2,2',4,4',6,6' - HxCB	1.09	1.09	<0.334	K0.499	0	K0.199	98.7		155	4.2
PCB-156/157	2,3,3',4,4',5 - HxCB	32.1	22.42	12.8	6.56	9.68	K5.17	97.4		156	2.6
PCB-158	2,3,3',4,4',6 - HxCB	31.1	21.88	9.22	K4.46	9.22	<0.365			158	3.5
PCB-159	2,3,3',4,5,5' - HxCB	K6.61	U	1.64	1.08	1.36	<0.375			159	4.2
PCB-161	2,3,3',4,5',6 - HxCB	<0.705	U	<0.754	<0.369	0	<0.400			161	4.2
PCB-162	2,3,3',4',5,5' - HxCB	K0.688	U	<0.706	<0.358	0	<0.375			162	4.2
PCB-164	2,3,3',4',5',6 - HxCB	19.8	15.185	6.39	2.84	4.615	<0.403			164	4.2
PCB-165	2,3,3',5,5',6 - HxCB	<0.788	U	<0.823	<0.413	0	<0.436			165	4.2
PCB-167	2,3',4,4',5,5' - HxCB	9.76	5.97	5.09	2.49	3.79	2.6	97.5		167	4.2
PCB-169	3,3',4,4',5,5' - HxCB	<1.23	U	<0.747	<0.594	0	<0.434	95.8		169	2.1
PCB-170	2,2',3,3',4,4',5 - HpCB	33.6	21.8	11.8	K7.87	11.8	K0.599			170	2.6
PCB-171/173	2,2',3,3',4,4',6 - HpCB	10.7	4.92	5.78	K3.28	5.78	K0.135			171	2.6
PCB-172	2,2',3,3',4,5,5' - HpCB	8.79	7.16	K3.56	1.63	1.63	<0.0248			172	1.3
PCB-174	2,2',3,3',4,5,6' - HpCB	45.6	24.45	28	14.3	21.15	K0.025			174	3.1
PCB-175	2,2',3,3',4,5',6 - HpCB	K3.11	U	K1.97	K0.395	0	K0.104			175	2.6
PCB-176	2,2',3,3',4,6,6' - HpCB	9.78	4.08	7.43	3.97	5.7	K0.086			176	2.2
PCB-177	2,2',3,3',4',5,6 - HpCB	23.8	13.195	14	7.21	10.605	0.496			177	2.6
PCB-178	2,2',3,3',5,5',6 - HpCB	15.6	15.6	K8.70	K4.09	0	K0.120			178	3.1
PCB-179	2,2',3,3',5,6,6' - HpCB	33.1	13.85	27.6	10.9	19.25	K0.050			179	2.2
PCB-180/193	2,2',3,4,4',5,5' - HpCB	105	71.75	42.6	23.9	33.25	1.51			180	2.6
PCB-181	2,2',3,4,4',5,6 - HpCB	0.65	0.65	K2.06	K0.240	0	K0.057			181	2.6
PCB-182	2,2',3,4,4',5,6' - HpCB	<0.0415	U	<0.0379	K0.326	0	K0.152			182	2.6
PCB-183/185	2,2',3,4,4',5',6 - HpCB	37.9	19.65	24.6	11.9	18.25	0.441			183	2.6
PCB-184	2,2',3,4,4',6,6' - HpCB	K1.11	U	K0.338	K0.184	0	K0.037			184	2.6
PCB-186	2,2',3,4,5,6,6' - HpCB	K0.049	U	<0.0335	K0.081	0	<0.0187			186	2.6
PCB-187	2,2',3,4',5,5',6 - HpCB	72.2	36.55	47.2	24.1	35.65	0.981			187	3.5
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.160	U	K0.244	K0.243	0	K0.151	96.9		188	2.6
PCB-189	2,3,3',4,4',5,5' - HpCB	K3.53	U	K2.17	K1.02	0	K1.49	98.7		189	2.6
PCB-190	2,3,3',4,4',5,6 - HpCB	8.35	8.35	K2.21	K1.95	0	K0.166			190	2.6
PCB-191	2,3,3',4,4',5',6 - HpCB	K1.51	U	<0.0330	0.329	0.329	<0.0184			191	2.6
PCB-192	2,3,3',4,5,5',6 - HpCB	K0.057	U	K0.058	<0.0350	0	K0.094			192	2.6
PCB-194	2,2',3,3',4,4',5,5' - OcCB	16.3	12.36	4.47	3.41	3.94	K0.262			194	1.3
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K4.63	U	1.99	K2.06	1.99	K0.135			195	1.6
PCB-196	2,2',3,3',4,4',5,6' - OcCB	6.39	3.79	K3.74	2.6	2.6	K0.127			196	1.6
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K3.38	U	3.29	K1.86	3.29	K0.047			197	1.6
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	K25.1	U	11.8	6.84	9.32	K0.371			198	1.8
PCB-201	2,2',3,3',4,5',6,6' - OcCB	3.32	0.93	3.01	1.77	2.39	K0.049			201	1.8
PCB-202	2,2',3,3',5,5',6,6' - OcCB	7.55	2.695	6.24	3.47	4.855	<0.0215	96.6		202	1.6
PCB-203	2,2',3,4,4',5,5',6 - OcCB	12.9	7.2	5.7	K4.65	5.7	0.206			203	1.6
PCB-204	2,2',3,4,4',5,6,6' - OcCB	K0.281	U	0.103	<0.0392	0.103	K0.053			204	1.6
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K1.30	U	K0.611	K0.514	0	K0.427	98.5		205	1.6
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	6.18	6.18	<3.05	<1.76	0	<1.38	98.6		206	0.40
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<1.67	U	<2.28	<1.38	0	<1.10			207	0.40
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	K2.25	U	<2.26	<1.36	0	<1.15	99.5		208	0.40
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	K6.18	U	K3.99	9.72	9.72	K0.815	92.7		209	0.40
8L		53.9 %REC		62.9 %REC	77.6 %REC		N/A %REC				
SPMDs											
Total Monochloro Biphenyls		47.08	17.63								

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location	Name	Riverside State Pk	Riverside State Pk				LAB BLANK	SPIKED MATRIX	IUPAC NO.	Transfer Coefficient: k1(s) (L/g*d) (Meadows et al 1998) Rs
CLIENT ID		AN-14LP-031217	AN-14LP-031217	Trip Blank-031217	Day Zero-031217		WG11043-101	WG11043-102		
Axys ID		L6425-14		L6425-1	L6425-15		WG11043-101	WG11043-102		
WORKGROUP		WG11043	Blank Corrected	WG11043	WG11043	Average Blank	WG11043	WG11043		
UNITS		pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	% REC		
Total Dichloro Biphenyls		1067.35	592.32							
Total Trichloro Biphenyls		4183.21	2509.46							
Total Tetrachloro Biphenyls		5126.48	3785.32							
Total Pentachloro Biphenyls		3330.38	2802.63							
Total Hexachloro Biphenyls		1585.10	1168.67							
Total Heptachloro Biphenyls		405.07	242.01							
Total Octachloro Biphenyls		46.46	26.98							
Total Nonachloro Biphenyls		6.18	6.18							
Decachloro Biphenyl		0.00	0.00							
TOTAL PCBs		15797.31	11151.18							

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location CLIENT ID	Name	Time (days)		Ms	EAF*	State Line	Barker Road	Plante's Ferry	Boulder Beach	Dam Forebay	Monroe Street	Riverside State Pk						
		Days if 17th	Days if 18th			AN-11LP-031218	AN-12LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-14LP-031217						
AXYS ID						pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L						
WORKGROUP																		
UNITS																		
PCB-1	2 - MoCB	22	23	4.5	1.01	0.00	0.11	0.00	1.89	0.00	1.55	0.01	2.06	0.00	0.71	0.00	1.05	0.00
PCB-2	3 - MoCB	22	23	4.5		0.05		0.00		0.03		0.04		0.03		0.00		0.06
PCB-3	4 - MoCB	22	23	4.5		0.00		0.00		0.02		0.03		0.02		0.06		0.06
PCB-4	2,2' - DiCB	22	23	4.5		0.12		0.20		0.04		0.13		0.01		0.27		0.17
PCB-5	2,3 - DiCB	22	23	4.5		0.00		0.00		0.00		0.00		0.00		0.06		0.04
PCB-6	2,3' - DiCB	22	23	4.5		0.13		0.84		0.08		0.12		0.05		0.30		0.17
PCB-7	2,4 - DiCB	22	23	4.5		0.04		0.20		0.00		0.00		0.01		0.05		0.04
PCB-8	2,4' - DiCB	22	23	4.5		0.62		3.03		0.12		0.47		0.10		0.97		0.68
PCB-9	2,5 - DiCB	22	23	4.5		0.00		0.46		0.00		0.00		0.01		0.10		0.00
PCB-10	2,6 - DiCB	22	23	4.5		0.00		0.00		0.00		0.00		0.00		0.00		0.02
PCB-11	3,3' - DiCB	22	23	4.5		0.46		2.10		0.16		0.45		0.59		2.14		2.09
PCB-12/13	3,4 - DiCB	22	23	4.5		0.07		0.38		0.05		0.00		0.04		0.15		0.09
PCB-14	3,5 - DiCB	22	23	4.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
PCB-15	4,4' - DiCB	22	23	4.5		0.38		1.82		0.28		0.33		0.23		0.80		0.72
PCB-16	2,2',3 - TriCB	22	23	4.5		0.96		4.81		0.34		0.73		0.33		1.67		1.53
PCB-17	2,2',4 - TriCB	22	23	4.5		1.03		4.65		0.45		0.75		0.46		2.02		1.95
PCB-18/30	2,2',5 - TriCB	22	23	4.5		1.66		7.89		0.78		1.11		0.77		3.05		3.23
PCB-19	2,2',6 - TriCB	22	23	4.5		0.22		0.88		0.29		0.27		0.19		0.63		0.47
PCB-20/28	2,3,3' - TriCB	22	23	4.5		2.86		14.62		2.17		2.08		1.73		6.35		5.70
PCB-21/33	2,3,4 - TriCB	22	23	4.5		2.14		10.12		0.49		1.16		0.38		3.79		2.90
PCB-22	2,3,4' - TriCB	22	23	4.5		1.29		7.48		0.93		1.03		0.62		2.73		2.43
PCB-23	2,3,5 - TriCB	22	23	4.5		0.00		0.00		0.00		0.00		0.02		0.00		0.00
PCB-24	2,3,6 - TriCB	22	23	4.5		0.05		0.00		0.00		0.03		0.02		0.11		0.07
PCB-25	2,3',4 - TriCB	22	23	4.5		0.35		1.84		0.19		0.23		0.18		0.69		0.63
PCB-26/29	2,3',5 - TriCB	22	23	4.5		0.74		3.84		0.40		0.49		0.36		1.77		1.61
PCB-27	2,3',6 - TriCB	22	23	4.5		0.19		0.62		0.16		0.17		0.14		0.39		0.37
PCB-31	2,4',5 - TriCB	22	23	4.5		3.50		15.68		2.05		2.17		1.74		6.17		6.65
PCB-32	2,4',6 - TriCB	22	23	4.5		0.77		3.24		0.62		0.68		0.57		1.40		1.51
PCB-34	2',3,5 - TriCB	22	23	4.5		0.00		0.00		0.02		0.00		0.01		0.00		0.00
PCB-35	3,3',4 - TriCB	22	23	4.5		0.03		0.25		0.03		0.03		0.03		0.10		0.20
PCB-36	3,3',5 - TriCB	22	23	4.5		0.00		0.00		0.01		0.00		0.00		0.00		0.00
PCB-37	3,4,4' - TriCB	22	23	4.5		0.43		2.28		0.44		0.40		0.30		1.06		1.10
PCB-38	3,4,5 - TriCB	22	23	4.5		0.00		0.00		0.01		0.01		0.00		0.00		0.00
PCB-39	3,4',5 - TriCB	22	23	4.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
PCB-40/41/71	2,2',3,3' - TeCB	22	23	4.5		1.15		6.27		1.17		1.00		0.85		2.49		3.16
PCB-42	2,2',3,4' - TeCB	22	23	4.5		0.66		4.10		0.74		0.52		0.52		1.38		1.64
PCB-43	2,2',3,5 - TeCB	22	23	4.5		0.10		0.52		0.10		0.08		0.08		0.23		0.31
PCB-44/47/65	2,2',3,5' - TeCB	22	23	4.5		2.06		11.25		2.16		1.56		1.85		4.17		5.92
PCB-45/51	2,2',3,6 - TeCB	22	23	4.5		0.61		3.53		0.53		0.47		0.51		1.06		1.32
PCB-46	2,2',3,6' - TeCB	22	23	4.5		0.32		2.22		0.24		0.00		0.21		0.57		0.58
PCB-48	2,2',4,5 - TeCB	22	23	4.5		1.05		5.70		0.92		0.77		0.67		1.94		2.71
PCB-49/69	2,2',4,5' - TeCB	22	23	4.5		1.86		8.57		2.18		1.43		1.73		3.69		5.34
PCB-50/53	2,2',4,6 - TeCB	22	23	4.5		0.53		3.02		0.60		0.44		0.54		1.10		1.39
PCB-52	2,2',5,5' - TeCB	22	23	4.5		3.21		12.66		3.67		2.28		2.97		6.08		10.48
PCB-54	2,2',6,6' - TeCB	22	23	4.5		0.00		0.00		0.02		0.02		0.00		0.03		0.03
PCB-55	2,3,3',4 - TeCB	22	23	4.5		0.00		0.80		0.00		0.00		0.00		0.15		0.16
PCB-56	2,3,3',4' - TeCB	22	23	4.5		0.40		3.33		1.24		0.58		0.65		1.72		1.98
PCB-57	2,3,3',5 - TeCB	22	23	4.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
PCB-58	2,3,3',5' - TeCB	22	23	4.5		0.00		0.00		0.00		0.00		0.00		0.00		0.00
PCB-59/62/75	2,3,3',6 - TeCB	22	23	4.5		0.35		1.98		0.29		0.22		0.23		0.65		0.77
PCB-60	2,3,4,4' - TeCB	22	23	4.5		0.24		1.87		0.65		0.27		0.27		0.89		1.07
PCB-61/70/74/76	2,3,4,5 - TeCB	22	23	4.5		1.53		7.74		3.64		1.33		2.21		6.07		9.26
PCB-63	2,3,4',5 - TeCB	22	23	4.5		0.01		0.00		0.09		0.02		0.05		0.12		0.22
PCB-64	2,3,4',6 - TeCB	22	23	4.5		0.78		4.01		1.18		0.74		0.84		1.90		2.46

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location CLIENT ID	Name	Time (days)		Ms	EAF*	State Line	Barker Road	Plante's Ferry	Boulder Beach	Dam Forebay	Monroe Street	Riverside State Pk
		Days if 17th	Days if 18th			AN-11LP-031218	AN-12LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-14LP-031217
AXYS ID												
WORKGROUP												
UNITS						pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-66	2,3',4,4' - TeCB	22	23	4.5		0.97	6.24	2.60	1.11	1.64	4.42	4.85
PCB-67	2,3',4,5' - TeCB	22	23	4.5		0.08	0.50	0.08	0.06	0.06	0.20	0.21
PCB-68	2,3',4,5' - TeCB	22	23	4.5		0.00	0.00	0.02	0.00	0.07	0.05	0.07
PCB-72	2,3',5,5' - TeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-73	2,3',5,6' - TeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-77	3,3',4,4' - TeCB	22	23	4.5		0.09	0.41	0.25	0.00	0.18	0.46	0.49
PCB-78	3,3',4,5' - TeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-79	3,3',4,5' - TeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.11
PCB-80	3,3',5,5' - TeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-81	3,4,4',5 - TeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-82	2,2',3,3',4 - PeCB	22	23	4.5		0.12	0.60	0.35	0.14	0.16	0.50	0.81
PCB-83/99	2,2',3,3',5 - PeCB	22	23	4.5		0.57	2.26	1.33	0.53	0.86	2.79	4.55
PCB-84	2,2',3,3',6 - PeCB	22	23	4.5		0.40	2.57	0.77	0.41	0.48	1.33	2.41
PCB-85/116/117	2,2',3,4,4' - PeCB	22	23	4.5		0.19	0.67	0.55	0.21	0.31	0.96	1.32
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	22	23	4.5		0.92	2.77	1.64	0.68	1.04	3.11	6.06
PCB-88/91	2,2',3,4,6 - PeCB	22	23	4.5		0.24	1.13	0.46	0.23	0.30	0.82	1.22
PCB-89	2,2',3,4,6' - PeCB	22	23	4.5		0.05	0.00	0.06	0.05	0.00	0.00	0.00
PCB-90/101/113	2,2',3,4,5 - PeCB	22	23	4.5		1.23	3.42	1.67	0.73	1.19	3.64	6.96
PCB-92	2,2',3,5,5' - PeCB	22	23	4.5		0.16	0.00	0.33	0.13	0.23	0.60	1.24
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	22	23	4.5		1.38	5.72	1.63	0.88	1.21	3.18	6.16
PCB-94	2,2',3,5,6' - PeCB	22	23	4.5		0.00	0.34	0.00	0.00	0.00	0.06	0.00
PCB-96	2,2',3,6,6' - PeCB	22	23	4.5		0.00	0.00	0.05	0.04	0.03	0.00	0.09
PCB-103	2,2',4,5,6 - PeCB	22	23	4.5		0.02	0.00	0.02	0.00	0.00	0.00	0.00
PCB-104	2,2',4,6,6' - PeCB	22	23	4.5		0.00	0.10	0.00	0.00	0.00	0.00	0.00
PCB-105	2,3,3',4,4' - PeCB	22	23	4.5		0.29	0.46	0.93	0.33	0.49	1.75	2.60
PCB-106	2,3,3',4,5 - PeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-107/124	2,3,3',4,5 - PeCB	22	23	4.5		0.06	0.49	0.11	0.06	0.06	0.21	0.26
PCB-109	2,3,3',4,6 - PeCB	22	23	4.5		0.00	0.00	0.16	0.00	0.11	0.26	0.39
PCB-110/115	2,3,3',4,6 - PeCB	22	23	4.5		1.14	3.18	2.11	0.84	1.38	4.51	7.27
PCB-111	2,3,3',5,5' - PeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-112	2,3,3',5,6 - PeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-114	2,3,4,4',5 - PeCB	22	23	4.5		0.00	0.00	0.07	0.00	0.00	0.15	0.00
PCB-118	2,3',4,4',5 - PeCB	22	23	4.5		0.77	0.53	1.54	0.56	0.96	3.23	5.16
PCB-120	2,3',4,5,5' - PeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-121	2,3',4,5,6 - PeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-122	2',3,3',4,5 - PeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-123	2',3,4,4',5 - PeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-126	3,3',4,4',5 - PeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-127	3,3',4,5,5' - PeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-128/166	2,2',3,3',4,4' - HxCB	22	23	4.5		0.10	0.01	0.12	0.05	0.07	0.38	0.47
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	22	23	4.5		1.08	1.05	1.16	0.64	0.76	3.81	5.12
PCB-130	2,2',3,3',4,5' - HxCB	22	23	4.5		0.10	0.00	0.10	0.06	0.06	0.24	0.36
PCB-131	2,2',3,3',4,6 - HxCB	22	23	4.5		0.00	0.00	0.03	0.00	0.00	0.00	0.00
PCB-132	2,2',3,3',4,6' - HxCB	22	23	4.5		0.28	0.54	0.36	0.20	0.21	1.17	1.62
PCB-133	2,2',3,3',5,5' - HxCB	22	23	4.5		0.02	0.00	0.00	0.01	0.02	0.05	0.00
PCB-134/143	2,2',3,3',5,6 - HxCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-135/151/154	2,2',3,3',5,6' - HxCB	22	23	4.5		0.38	0.05	0.34	0.24	0.24	1.15	1.76
PCB-136	2,2',3,3',6,6' - HxCB	22	23	4.5		0.16	0.83	0.14	0.12	0.08	0.48	0.72
PCB-137	2,2',3,4,4',5 - HxCB	22	23	4.5		0.08	0.43	0.09	0.04	0.05	0.26	0.30
PCB-139/140	2,2',3,4,4',6 - HxCB	22	23	4.5		0.03	0.00	0.03	0.00	0.00	0.05	0.00
PCB-141	2,2',3,4,5,5' - HxCB	22	23	4.5		0.00	0.00	0.18	0.12	0.08	0.57	0.80
PCB-142	2,2',3,4,5,6 - HxCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-144	2,2',3,4,5,6' - HxCB	22	23	4.5		0.00	0.00	0.06	0.04	0.03	0.18	0.32
PCB-145	2,2',3,4,6,6' - HxCB	22	23	4.5		0.00	0.04	0.00	0.00	0.00	0.00	0.00

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location CLIENT ID	Name	Time (days)		Ms	EAF*	State Line	Barker Road	Plante's Ferry	Boulder Beach	Dam Forebay	Monroe Street	Riverside State Pk
		Days if 17th	Days if 18th			AN-11LP-031218	AN-12LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-14LP-031217
AXYS ID												
WORKGROUP												
UNITS						pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-146	2,2',3,4',5,5' - HxCB	22	23	4.5		0.18	0.12	0.17	0.10	0.12	0.45	0.68
PCB-147/149	2,2',3,4',5,6' - HxCB	22	23	4.5		0.82	0.05	0.67	0.45	0.37	2.61	3.56
PCB-148	2,2',3,4',5,6' - HxCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.02
PCB-150	2,2',3,4',6,6' - HxCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-152	2,2',3,5,6,6' - HxCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-153/168	2,2',4,4',5,5' - HxCB	22	23	4.5		1.14	0.00	1.30	0.69	0.74	4.10	6.61
PCB-155	2,2',4,4',6,6' - HxCB	22	23	4.5		0.00	0.00	0.00	0.01	0.01	0.00	0.02
PCB-156/157	2,3,3',4,4',5' - HxCB	22	23	4.5		0.00	0.00	0.14	0.08	0.08	0.43	0.75
PCB-158	2,3,3',4,4',6' - HxCB	22	23	4.5		0.06	0.00	0.09	0.00	0.02	0.32	0.54
PCB-159	2,3,3',4,5,5' - HxCB	22	23	4.5		0.01	0.00	0.00	0.00	0.00	0.00	0.00
PCB-161	2,3,3',4,5',6' - HxCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-162	2,3,3',4',5,5' - HxCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-164	2,3,3',4',5',6' - HxCB	22	23	4.5		0.07	0.00	0.08	0.04	0.00	0.23	0.31
PCB-165	2,3,3',5,5',6' - HxCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-167	2,3',4,4',5,5' - HxCB	22	23	4.5		0.02	0.00	0.04	0.00	0.02	0.09	0.12
PCB-169	3,3',4,4',5,5' - HxCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-170	2,2',3,3',4,4',5' - HpCB	22	23	4.5		0.04	0.00	0.15	0.06	0.01	0.40	0.73
PCB-171/173	2,2',3,3',4,4',6' - HpCB	22	23	4.5		0.00	0.00	0.03	0.00	0.00	0.10	0.16
PCB-172	2,2',3,3',4,5,5' - HpCB	22	23	4.5		0.00	0.73	0.13	0.11	0.00	0.36	0.48
PCB-174	2,2',3,3',4,5,6' - HpCB	22	23	4.5		0.13	0.00	0.16	0.12	0.01	0.63	0.69
PCB-175	2,2',3,3',4,5',6' - HpCB	22	23	4.5		0.00	0.39	0.00	0.00	0.00	0.00	0.00
PCB-176	2,2',3,3',4,6,6' - HpCB	22	23	4.5		0.00	0.00	0.02	0.04	0.00	0.08	0.16
PCB-177	2,2',3,3',4',5,6' - HpCB	22	23	4.5		0.14	0.16	0.00	0.12	0.05	0.38	0.44
PCB-178	2,2',3,3',5,5',6' - HpCB	22	23	4.5		0.22	1.78	0.16	0.17	0.11	0.00	0.44
PCB-179	2,2',3,3',5,6,6' - HpCB	22	23	4.5		0.09	0.00	0.12	0.10	0.00	0.32	0.55
PCB-180/193	2,2',3,4,4',5,5' - HpCB	22	23	4.5		0.26	0.00	0.50	0.29	0.12	1.31	2.40
PCB-181	2,2',3,4,4',5,6' - HpCB	22	23	4.5		0.00	0.00	0.00	0.01	0.00	0.00	0.02
PCB-182	2,2',3,4,4',5,6' - HpCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-183/185	2,2',3,4,4',5',6' - HpCB	22	23	4.5		0.11	0.00	0.17	0.12	0.04	0.47	0.66
PCB-184	2,2',3,4,4',6,6' - HpCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.01	0.00
PCB-186	2,2',3,4,5,6,6' - HpCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-187	2,2',3,4',5,5',6' - HpCB	22	23	4.5		0.17	0.00	0.23	0.11	0.02	0.65	0.91
PCB-188	2,2',3,4',5,6,6' - HpCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-189	2,3,3',4,4',5,5' - HpCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-190	2,3,3',4,4',5,6' - HpCB	22	23	4.5		0.11	0.73	0.08	0.00	0.05	0.23	0.28
PCB-191	2,3,3',4,4',5',6' - HpCB	22	23	4.5		0.01	0.00	0.01	0.00	0.00	0.00	0.00
PCB-192	2,3,3',4,5,5',6' - HpCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-194	2,2',3,3',4,4',5,5' - OcCB	22	23	4.5		0.11	0.09	0.00	0.11	0.04	0.14	0.83
PCB-195	2,2',3,3',4,4',5,6' - OcCB	22	23	4.5		0.00	0.00	0.00	0.03	0.00	0.03	0.00
PCB-196	2,2',3,3',4,4',5,6' - OcCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.21
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-198/199	2,2',3,3',4,5,5',6' - OcCB	22	23	4.5		0.12	0.00	0.13	0.12	0.00	0.29	0.00
PCB-201	2,2',3,3',4,5',6,6' - OcCB	22	23	4.5		0.00	0.00	0.01	0.00	0.00	0.00	0.04
PCB-202	2,2',3,3',5,5',6,6' - OcCB	22	23	4.5		0.00	0.00	0.03	0.03	0.00	0.03	0.15
PCB-203	2,2',3,4,4',5,5',6' - OcCB	22	23	4.5		0.05	0.00	0.07	0.03	0.00	0.00	0.39
PCB-204	2,2',3,4,4',5,6,6' - OcCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-205	2,3,3',4,4',5,5',6' - OcCB	22	23	4.5		0.00	0.00	0.00	0.00	0.01	0.00	0.00
PCB-206	2,2',3,3',4,4',5,5',6' - NoCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	1.34
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	22	23	4.5		0.00	0.00	0.00	0.00	0.00	0.00	0.00
8L												
SPMDs												
Total Monochloro Biphenyls						0.05	0.00	0.05	0.07	0.05	0.06	0.12

**Table D-7
Blank Corrected December SPMD Data and Calculations**

Sample Location	Name	Time (days)		Ms	EAF*	State Line	Barker Road	Plante's Ferry	Boulder Beach	Dam Forebay	Monroe Street	Riverside State Pk	
CLIENT ID		Days if 17th	Days if 18th			AN-11LP-031218	AN-12LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-14LP-031217	
Axys ID													
WORKGROUP													
UNITS						pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	
Total Dichloro Biphenyls						1.81	9.05	0.72	1.50	1.03	4.84	4.02	
Total Trichloro Biphenyls						16.23	78.21	9.36	11.33	7.85	31.94	30.36	
Total Tetrachloro Biphenyls						15.99	84.74	22.38	12.89	16.15	39.39	54.52	
Total Pentachloro Biphenyls						7.54	24.23	13.77	5.81	8.80	27.10	46.51	
Total Hexachloro Biphenyls						4.53	3.12	5.10	2.89	2.96	16.57	24.09	
Total Heptachloro Biphenyls						1.29	3.79	1.78	1.26	0.41	4.94	7.90	
Total Octachloro Biphenyls						0.27	0.09	0.23	0.32	0.06	0.50	1.61	
Total Nonachloro Biphenyls						0.00	0.00	0.00	0.00	0.00	0.00	1.34	
Decachloro Biphenyl						0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL PCBs						47.72	203.23	53.39	36.06	37.32	125.34	170.48	

**Table D-8
Performance Reference Compound Results and Calculations**

Sample Location		Plante's Ferry	Boulder Beach	Dam Forebay	Barker Road	Stateline	Monroe St	Riverside	Day Zero
	PCB Congener 8 - Labeled with C13								
	8L - nominal recovery	86.40%	137.20%	86.00%	133.40%	128.20%	117.60%	107.80%	155.20%
	8L - adj recovery	55.67%	88.40%	55.41%	85.95%	82.60%	75.77%	69.46%	
	Ke PRC - adjusted	0.02662	0.00560	0.02683	0.00688	0.00831	0.01206	0.01657	
	Ke PRC cal	0.0491	0.0491	0.0491	0.0491	0.0491	0.0491	0.0491	
	EAF - Huckins	0.543	0.114	0.547	0.140	0.169	0.246	0.338	
PAHs		nominal	nominal	nominal	nominal	nominal	nominal	nominal	nominal
log Kow		% recovery	% recovery	% recovery	% recovery	% recovery	% recovery	% recovery	% recovery
4.38	Fluorene-d10	16	32	17	79	35	41	31	96
4.54	Anthracene-d10	50	62	45	102	71	80	71	104
5.3	Pyrene-d10	86	73	83	96	88	94	92	96
		Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)	Mass Rec (ug)
	Fluorene-d10	1.6	3.2	1.7	7.9	3.5	4.1	3.1	9.6
	Anthracene-d10	5	6.2	4.5	10.2	7.1	8	7.1	10.4
	Pyrene-d10	8.6	7.3	8.3	9.6	8.8	9.4	9.2	9.6
		actual percent recovery	actual percent recovery	actual percent recovery	actual percent recovery	actual percent recovery	actual percent recovery	actual percent recovery	actual percent recovery
	Fluorene-d10	16.7%	33.3%	17.7%	82.3%	36.5%	42.7%	32.3%	100.0%
	Anthracene-d10	48.1%	59.6%	43.3%	98.1%	68.3%	76.9%	68.3%	100.0%
	Pyrene-d10	89.6%	76.0%	86.5%	100.0%	91.7%	97.9%	95.8%	100.0%
Fluorene-d10	Ke PRC	0.08144	0.04994	0.07869	0.00886	0.04387	0.03699	0.05138	
Anthracene-d10	Ke PRC	0.03329	0.02351	0.03808	0.00088	0.01660	0.01141	0.01735	
Pyrene-d10	Ke PRC	0.00500	0.01245	0.00661	0.00000	0.00378	0.00092	0.00193	
Fluorene-d10	EAF	2.25	1.38	2.18	0.25	1.21	1.02	1.42	
Anthracene-d10	EAF	2.94	2.07	3.36	0.08	1.46	1.01	1.53	
Pyrene-d10	EAF	0.48	1.20	0.64	0.00	0.36	0.09	0.19	
	Average EAF (all PAH)	1.89	1.55	2.06	0.11	1.01	0.71	1.05	

Note: All abbreviations and calculations are defined in the text at the beginning of this appendix.

Constants				
Kspmd	58000		PCB-8	From USGS / Huckins Spreadsheet
Ke PRC cal	0.0491			
PAH Constants	SPMD K1	Kspmd	Ke PRC cal	
	U/g-d			
Fluorene-d10	0.56	15500	0.0361	
Anthracene-d10	0.53	46773	0.0113	
Pyrene-d10	0.83	80000	0.0104	
PAH Constants	SPMD K1	Kspmd	Ke PRC cal	
	U/g-d			
Fluorene-d10	0.56	15500	0.0361	
Anthracene-d10	0.53	46773	0.0113	
Pyrene-d10	0.83	80000	0.0104	

**Table D-9
December SPMD PCB Results - Qualified Per EPA Region X Guidelines**

	State Line	Barker Road	Plante's Ferry	Boulder Beach	Dam Forebay	Monroe St.	Riverside
SPMDs*	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
Total Monochloro Biphenyls	0.05	0.00	0.03	0.04	0.03	0.00	0.06
Total Dichloro Biphenyls	0.00	0.00	0.00	0.00	0.00	0.06	0.04
Total Trichloro Biphenyls	0.00	0.00	0.02	0.01	0.02	0.00	0.00
Total Tetrachloro Biphenyls	0.00	0.80	0.04	0.02	0.07	0.23	0.26
Total Pentachloro Biphenyls	0.11	0.93	0.48	0.15	0.22	0.42	30.90
Total Hexachloro Biphenyls	0.00	0.04	0.14	0.01	0.01	0.32	0.78
Total Heptachloro Biphenyls	0.33	2.89	0.25	0.18	0.17	0.24	1.33
Total Octachloro Biphenyls	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Total Nonachloro Biphenyls	0.00	0.00	0.00	0.00	0.00	0.00	1.34
Decachloro Biphenyl	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL PCBs	0.49	4.66	0.95	0.39	0.53	1.27	34.71
Sum of Penta & Greater	0.45	3.87	0.86	0.33	0.41	0.98	34.34

Table D-10
EPA-Qualified December SPMD Data and Calculations

Sample Location	CLIENT ID	State Line	State Line	Barker Road	Barker Road	Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay	Monroe Street	Monroe Street	Riverside State Pk	Riverside State Pk	Trip Blank-031217	
		AN-11LP-031218	AN-11LP-031218	AN-12LP A-031217	AN-12LP A-031217	AN-01LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-13LP-031218	AN-14LP-031217	AN-14LP-031217	AN-14LP-031217	
		L6425-10	L6425-11	L6425-11	L6425-4	L6425-6	L6425-8	L6425-13	L6425-14	L6425-14	L6425-14	L6425-14	L6425-14	L6425-14	L6425-14		
		WG11043	EPA Qualified	WG11043	EPA Qualified	WG11043	EPA Qualified	WG11043	EPA Qualified	WG11043	EPA Qualified	WG11043	EPA Qualified	WG11043	EPA Qualified	WG11043	
WORKGROUP	UNITS	Name	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	
PCB-1		2 - MoCB	17.5	UB	17	UB	13.3	UB	19.4	UB	13	UB	K19.2	U	16.2	UB	21.1
PCB-2		3 - MoCB	7.22	7.22	K4.62	U	7.21	7.21	7.72	7.72	9.64	9.64	K7.93	U	9.38	9.38	K3.72
PCB-3		4 - MoCB	K18.4	U	13.3	UB	18.1	UB	19.3	UB	17.9	UB	19.6	UB	21.5	UB	15.1
PCB-4		2,2' - DiCB	86.3	UB	71.9	UB	78.8	UB	98.1	UB	70.5	UB	96.6	UB	94.3	UB	80
PCB-5		2,3 - DiCB	K7.64	U	K4.80	U	K5.01	U	K7.69	U	K5.20	U	5.79	5.79	5.66	5.66	K6.75
PCB-6		2,3' - DiCB	58.6	UB	51.8	UB	59.7	UB	65.4	UB	54.6	UB	69.7	UB	63.7	UB	43.4
PCB-7		2,4 - DiCB	13.6	UB	11.2	UB	K9.55	U	K14.5	U	11.3	UB	13.5	UB	14.1	UB	K11.3
PCB-8		2,4' - DiCB	280	UB	234	UB	220	UB	291	UB	216	UB	289	UB	288	UB	207
PCB-9		2,5 - DiCB	K20.9	U	18.2	UB	K14.7	U	K18.4	U	14.3	UB	21.7	UB	K22.2	U	K16.6
PCB-10		2,6 - DiCB	K5.22	U	K4.67	U	K4.86	U	K5.84	U	K4.11	U	K3.96	U	6.09	UB	K4.60
PCB-11		3,3' - DiCB	143	UB	106	UB	116	UB	172	UB	245	UB	297	UB	382	UB	85.8
PCB-12/13		3,4 - DiCB	22.5	UB	17.4	UB	23.9	UB	K23.6	U	22.5	UB	26.9	UB	24.5	UB	K16.4
PCB-14		3,5 - DiCB	<4.53	U	<1.71	U	<2.28	U	<3.35	U	<2.41	U	<2.96	U	<2.90	U	<3.79
PCB-15		4,4' - DiCB	139	UB	110	UB	158	UB	154	UB	149	UB	166	UB	189	UB	95.5
PCB-16		2,2',3 - TriCB	169	UB	132	UB	141	UB	177	UB	144	UB	185	UB	212	UB	108
PCB-17		2,2',4 - TriCB	199	UB	155	UB	181	UB	204	UB	188	UB	228	UB	269	UB	130
PCB-18/30		2,2',5 - TriCB	381	UB	289	UB	352	UB	377	UB	364	UB	431	UB	545	UB	233
PCB-19		2,2',6 - TriCB	36.4	UB	28.1	UB	54	UB	46.8	UB	45.4	UB	49.8	UB	51.4	UB	26.8
PCB-20/28		2,3,3' - TriCB	641	UB	506	UB	740	UB	659	UB	690	UB	794	UB	912	UB	424
PCB-21/33		2,3,4 - TriCB	369	UB	282	UB	270	UB	335	UB	259	UB	408	UB	426	UB	235
PCB-22		2,3,4' - TriCB	205	UB	170	UB	230	UB	220	UB	200	UB	246	UB	279	UB	139
PCB-23		2,3,5 - TriCB	K2.07	U	<0.512	U	K1.79	U	K1.57	U	2.41	2.41	<1.35	U	<0.621	U	K1.29
PCB-24		2,3,6 - TriCB	7.84	UB	K4.17	U	K6.48	U	7.42	UB	6.3	UB	9.93	UB	8.91	UB	3.82
PCB-25		2,3',4 - TriCB	48.5	UB	38	UB	47.6	UB	48	UB	48.2	UB	57.7	UB	66.9	UB	28.7
PCB-26/29		2,3',5 - TriCB	111	UB	88	UB	110	UB	110	UB	109	UB	144	UB	168	UB	68.5
PCB-27		2,3',6 - TriCB	32	UB	21.7	UB	39.1	UB	36.2	UB	38.7	UB	37.8	UB	45.2	UB	20.3
PCB-31		2,4',5 - TriCB	591	UB	435	UB	603	UB	564	UB	581	UB	656	UB	841	UB	357
PCB-32		2,4',6 - TriCB	130	UB	95.4	UB	156	UB	147	UB	157	UB	146	UB	186	UB	83.5
PCB-34		2',3,5 - TriCB	K3.07	U	<0.514	U	4.2	UB	K3.06	U	3.06	UB	<1.36	U	<0.623	U	1.94
PCB-35		3,3',4 - TriCB	7.78	UB	7.07	UB	9.4	UB	8.46	UB	9.28	UB	10.4	UB	20.8	UB	6.65
PCB-36		3,3',5 - TriCB	<0.800	U	K0.604	U	0.926	0.926	<0.688	U	K1.06	U	<1.24	U	K5.15	U	<0.524
PCB-37		3,4,4' - TriCB	101	UB	85.2	UB	128	UB	113	UB	112	UB	125	UB	152	UB	84.2
PCB-38		3,4,5 - TriCB	K0.892	U	K0.522	U	1.44	1.44	0.725	0.725	K1.83	U	<1.28	U	<0.587	U	<0.543
PCB-39		3,4',5 - TriCB	<0.786	U	<0.463	U	<0.276	U	<0.676	U	<0.231	U	<1.22	U	<0.561	U	<0.515
PCB-40/41/71		2,2',3,3' - TeCB	192	UB	262	UB	254	UB	216	UB	229	UB	236	UB	339	UB	136
PCB-42		2,2',3,4' - TeCB	99.2	UB	81.7	UB	147	UB	107	UB	125	UB	121	UB	169	UB	66.5
PCB-43		2,2',3,5' - TeCB	17.7	UB	14.2	UB	23.3	UB	18.5	UB	21.9	UB	22.1	UB	32.3	UB	12.6
PCB-44/47/65		2,2',3,5' - TeCB	349	UB	269	UB	506	UB	369	UB	484	UB	423	UB	680	UB	209
PCB-45/51		2,2',3,6' - TeCB	84.8	UB	66.1	UB	109	UB	90.4	UB	113	UB	94.1	UB	136	UB	48.6
PCB-46		2,2',3,6' - TeCB	26.3	UB	21.5	UB	32.3	UB	K28.2	U	31.1	UB	30.4	UB	39.4	UB	K15.0
PCB-48		2,2',4,5' - TeCB	92.7	UB	73.5	UB	117	UB	95.7	UB	103	UB	105	UB	159	UB	64.2
PCB-49/69		2,2',4,5' - TeCB	226	UB	165	UB	352	UB	241	UB	319	UB	270	UB	437	UB	144
PCB-50/53		2,2',4,6' - TeCB	55.5	UB	43.2	UB	86.4	UB	62.1	UB	85.1	UB	69	UB	103	UB	31.9
PCB-52		2,2',5,5' - TeCB	413	UB	274	UB	654	UB	422	UB	598	UB	487	UB	929	UB	232
PCB-54		2,2',6,6' - TeCB	K1.41	U	K1.44	U	1.95	1.95	1.61	1.61	K1.84	U	1.46	1.46	1.77	1.77	K0.837
PCB-55		2,3,3',4 - TeCB	K5.60	U	5.15	5.15	K7.77	U	K6.49	U	<1.44	U	6.78	6.78	9.98	9.98	K5.55
PCB-56		2,3,3',4' - TeCB	82.3	UB	78.4	UB	197	UB	111	UB	137	UB	133	UB	181	UB	73
PCB-57		2,3,3',5 - TeCB	<1.61	U	<1.83	U	<1.75	U	<1.90	U	K2.61	U	<1.96	U	K2.96	U	<1.16
PCB-58		2,3,3',5' - TeCB	<1.55	U	<1.77	U	<1.69	U	<1.84	U	<1.53	U	<1.90	U	<2.38	U	<1.12
PCB-59/62/75		2,3,3',6 - TeCB	40.3	UB	31	UB	51.4	UB	38.8	UB	46.7	UB	47	UB	66.3	UB	23.4
PCB-60		2,3,4,4' - TeCB	51.2	UB	48.1	UB	110	UB	60.8	UB	69	UB	75.6	UB	103	UB	46.1
PCB-61/70/74/76		2,3,4,5 - TeCB	369	UB	312	UB	751	UB	401	UB	582	UB	577	UB	955	UB	333
PCB-63		2,3,4',5 - TeCB	9.34	UB	8.34	UB	18.8	UB	10.3	UB	14.3	UB	13.7	UB	22	UB	8.45
PCB-64		2,3,4',6 - TeCB	146	UB	113	UB	262	UB	172	UB	220	UB	193	UB	290	UB	98.5
PCB-66		2,3',4,4' - TeCB	184	UB	163	UB	410	UB	224	UB	321	UB	314	UB	420	UB	161
PCB-67		2,3',4,5 - TeCB	9.63	UB	7.69	UB	13.8	UB	9.78	UB	11.5	UB	13.3	UB	17.2	UB	K8.07
PCB-68		2,3',4,5' - TeCB	K2.59	U	<1.71	U	2.58	2.58	K2.04	U	8.74	8.74	2.13	2.13	4.5	4.5	K1.49
PCB-72		2,3',5,5' - TeCB	<1.59	U	<1.77	U	K3.39	U	<1.89	U	K2.18	U	K1.98	U	<2.38	U	<1.15
PCB-73		2,3',5',6 - TeCB	<0.152	U	<0.360	U	<0.239	U	<0.279	U	<0.287	U	<0.272	U	<0.505	U	<0.370
PCB-77		3,3',4,4' - TeCB	10.9	UB	9.18	UB	22.7	UB	K15.3	U	19.8	UB	18.7	UB	24	UB	9.86
PCB-78		3,3',4,5 - TeCB	<1.37	U	<1.64	U	<1.50	U	<1.63	U	<1.36	U	<1.76	U	<2.20	U	<0.993
PCB-79		3,3',4,5' - TeCB	1.88	UB	<1.38	U	<1.32	U	<1.44	U	K2.28	U	K3.39	U	8.03	UB	1.69
PCB-80		3,3',5,5' - TeCB	<1.32	U	<1.52	U	<1.44	U	<1.56	U	<1.30	U	<1.64	U	<2.05	U	<0.954
PCB-81		3,4,4',5 - TeCB	<1.32	U	<1.59	U	<1.41	U	<1.54	U	<1.35	U	K1.93	U	<2.15	U	K1.13

Table D-10
EPA-Qualified December SPMD Data and Calculations

Sample Location	Name	State Line	State Line	Barker Road	Barker Road	Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay	Monroe Street	Monroe Street	Riverside State Pk	Riverside State Pk	Trip Blank-031217
		AN-11LP-031218	AN-11LP-031218	AN-12LP A-031217	AN-12LP A-031217	AN-01LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-13LP-031218	AN-14LP-031217	AN-14LP-031217	
		L6425-10	EPA Qualified	L6425-11	EPA Qualified	L6425-4	EPA Qualified	L6425-6	EPA Qualified	L6425-8	EPA Qualified	L6425-13	EPA Qualified	L6425-14	EPA Qualified	L6425-1
		WG11043	pg/sample	WG11043	pg/sample	WG11043	pg/sample	WG11043	pg/sample	WG11043	pg/sample	WG11043	pg/sample	WG11043	pg/sample	WG11043
PCB-82	2,2',3,3',4 - PeCB	15.2	UB	12	UB	40.7	UB	19.5	UB	24.8	UB	26.8	UB	50.1	UB	12.2
PCB-83/99	2,2',3,3',5 - PeCB	78.3	UB	60.2	UB	175	UB	89.7	UB	137	UB	152	UB	289	UB	60.4
PCB-84	2,2',3,3',6 - PeCB	41.1	UB	34.1	UB	91.2	UB	51.7	UB	68.7	UB	68.2	UB	143	UB	25.4
PCB-85/116/117	2,2',3,4,4' - PeCB	25.7	UB	18.6	UB	70	UB	31.7	UB	49	UB	52.4	UB	87.5	UB	19.3
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	105	UB	69.7	UB	215	UB	109	UB	165	UB	173	UB	382	UB	68.4
PCB-88/91	2,2',3,4,6 - PeCB	24.2	UB	17.9	UB	54	UB	29	UB	41.5	UB	41.2	UB	74	UB	14.7
PCB-89	2,2',3,4,6' - PeCB	2.56	2.56	K2.63	U	6.21	6.21	3.59	3.59	K4.46	U	K4.36	U	K7.26	U	K2.62
PCB-90/101/113	2,2',3,4',5 - PeCB	198	UB	134	UB	324	UB	186	UB	276	UB	292	UB	606	UB	148
PCB-92	2,2',3,5,5' - PeCB	33.3	UB	22.9	UB	59.7	UB	34.8	UB	50.6	UB	49	UB	98.7	UB	23.3
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	179	UB	121	UB	289	UB	172	UB	249	UB	239	UB	519	UB	102
PCB-94	2,2',3,5,6' - PeCB	<1.30	U	1.85	1.85	K2.89	U	<1.53	U	K2.16	U	2.2	2.2	K4.01	U	<1.31
PCB-96	2,2',3,6,6' - PeCB	K2.01	U	K1.83	U	4.48	4.48	3.26	3.26	3.21	3.21	K2.34	U	4.78	4.78	K0.769
PCB-103	2,2',4,5',6 - PeCB	2.26	UB	1.29	UB	2.91	UB	<1.31	U	K2.32	U	K2.41	U	K3.95	U	1.4
PCB-104	2,2',4,6,6' - PeCB	<0.524	U	0.526	0.526	<0.352	U	<0.614	U	K0.404	U	<0.428	U	<0.476	U	K0.634
PCB-105	2,3,3',4,4' - PeCB	34.7	UB	23.5	UB	98.9	UB	43.8	UB	66.1	UB	78.1	UB	141	UB	26.9
PCB-106	2,3,3',4,5 - PeCB	<1.64	U	<0.920	U	<1.74	U	<1.52	U	<1.59	U	<2.52	U	<2.14	U	<1.07
PCB-107/124	2,3,3',4',5 - PeCB	3.92	3.92	3.08	3.08	11.8	11.8	5.49	5.49	7.13	7.13	9.03	9.03	16.1	16.1	K3.51
PCB-109	2,3,3',4,6 - PeCB	K7.03	U	K4.34	U	17.9	17.9	K7.56	U	13.9	13.9	12.5	UB	23.2	23.2	K4.43
PCB-110/115	2,3,3',4',6 - PeCB	152	UB	97.6	UB	326	UB	158	UB	254	UB	285	UB	553	UB	95
PCB-111	2,3,3',5,5' - PeCB	<0.878	U	<0.711	U	<0.702	U	<1.03	U	<1.03	U	<0.571	U	<0.842	U	<0.888
PCB-112	2,3,3',5,6 - PeCB	<0.933	U	<0.719	U	<0.746	U	<1.10	U	<1.09	U	<0.577	U	<0.851	U	<0.943
PCB-114	2,3,4,4',5 - PeCB	K3.21	U	K2.49	U	6.57	6.57	K3.73	U	K5.56	U	5.48	5.48	K9.65	U	K3.08
PCB-118	2,3',4,4',5 - PeCB	101	UB	61	UB	212	UB	104	UB	162	UB	184	UB	343	UB	73.7
PCB-120	2,3',4,5,5' - PeCB	<0.851	U	<0.688	U	<0.680	U	<1.00	U	<0.996	U	<0.553	U	<0.815	U	<0.860
PCB-121	2,3',4,5',6 - PeCB	<0.906	U	<0.730	U	<0.724	U	<1.07	U	<1.06	U	<0.586	U	<0.864	U	<0.915
PCB-122	2',3,3',4,5 - PeCB	<1.82	U	K1.45	U	K3.90	U	<1.69	U	K1.98	U	<2.67	U	K4.90	U	<1.19
PCB-123	2',3,4,4',5 - PeCB	K3.61	U	K3.37	U	K10.6	U	K4.59	U	K7.41	U	K7.12	U	K23.0	U	K2.13
PCB-126	3,3',4,4',5 - PeCB	<2.09	U	<0.975	U	<2.00	U	<1.79	U	<1.96	U	<2.70	U	<2.47	U	K1.38
PCB-127	3,3',4,5,5' - PeCB	<1.65	U	<0.873	U	<1.75	U	<1.53	U	<1.60	U	<2.39	U	<2.03	U	<1.08
PCB-128/166	2,2',3,3',4,4' - HxCB	11.6	UB	6.6	UB	17.4	UB	10.2	UB	13.6	UB	20	UB	30.2	UB	6.54
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	114	UB	66.7	UB	162	UB	107	UB	133	UB	190	UB	306	UB	80.4
PCB-130	2,2',3,3',4,5' - HxCB	7.04	UB	K3.62	U	10.5	UB	6.55	UB	7.87	UB	10.1	UB	18.9	18.9	K4.35
PCB-131	2,2',3,3',4,6 - HxCB	<1.01	U	<0.696	U	3	3	<1.25	U	K1.90	U	K2.37	U	<1.03	U	<1.11
PCB-132	2,2',3,3',4,6' - HxCB	37.2	UB	26.4	UB	55	UB	38.2	UB	43.5	UB	63.6	UB	102	UB	31.5
PCB-133	2,2',3,3',5,5' - HxCB	2.48	UB	K1.50	U	K2.86	U	2.3	UB	3.16	UB	3.12	UB	K5.63	U	1.46
PCB-134/143	2,2',3,3',5,6 - HxCB	<0.998	U	<0.696	U	<1.39	U	<1.24	U	<0.896	U	<0.849	U	<1.04	U	<1.10
PCB-135/151/154	2,2',3,3',5,6' - HxCB	76.6	UB	53.7	UB	91	UB	74.7	UB	82.6	UB	103	UB	161	UB	79.2
PCB-136	2,2',3,3',6,6' - HxCB	27.6	UB	22.7	UB	32.5	UB	28.6	UB	27.6	UB	38.1	UB	61.3	UB	24.9
PCB-137	2,2',3,4,4',5 - HxCB	4.53	UB	3.25	UB	7.64	7.64	3.64	UB	5.31	UB	8.86	8.86	13.4	13.4	K3.21
PCB-139/140	2,2',3,4,4',6 - HxCB	2.35	UB	K1.62	U	3.89	UB	<1.10	U	K2.72	U	2.78	UB	K5.42	U	K1.72
PCB-141	2,2',3,4,5,5' - HxCB	K29.5	U	18.2	UB	37.9	UB	30.2	UB	28.9	UB	42.2	UB	64.5	UB	28.1
PCB-142	2,2',3,4,5,6 - HxCB	<0.985	U	<0.675	U	<1.37	U	<1.22	U	<0.885	U	<0.823	U	<1.00	U	<1.09
PCB-144	2,2',3,4,5,6' - HxCB	K11.0	U	7.18	UB	13.1	UB	10.7	UB	11.1	UB	13.9	UB	23.4	UB	12
PCB-145	2,2',3,4,6,6' - HxCB	<0.333	U	0.221	0.221	<0.491	U	<0.189	U	K0.109	U	0.142	0.142	K0.260	U	<0.465
PCB-146	2,2',3,4',5,5' - HxCB	22.2	UB	12.7	UB	28.6	UB	20.2	UB	25	UB	29.6	UB	49.8	UB	17.1
PCB-147/149	2,2',3,4',5,6 - HxCB	150	UB	95.6	UB	175	UB	139	UB	143	UB	216	UB	329	UB	136

Table D-10
EPA-Qualified December SPMD Data and Calculations

Sample Location	Name	State Line	State Line	Barker Road	Barker Road	Plante's Ferry	Plante's Ferry	Boulder Beach	Boulder Beach	Dam Forebay	Dam Forebay	Monroe Street	Monroe Street	Riverside State Pk	Riverside State Pk	Trip Blank-031217	
		AN-11LP-031218	AN-11LP-031218	AN-12LP A-031217	AN-12LP A-031217	AN-01LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-13LP-031218	AN-14LP-031217	AN-14LP-031217	Trip Blank-031217	
		L6425-10	L6425-10	L6425-11	L6425-11	WG11043	WG11043	WG11043	WG11043	WG11043	WG11043	WG11043	WG11043	WG11043	WG11043	WG11043	L6425-1
		WG11043	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified	EPA Qualified
UNITS	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	pg/sample	
PCB-148	2,2',3,4',5,6' - HxCB	<0.428	U	<0.262	U	<0.630	U	<0.243	U	K0.205	U	K0.348	U	0.752	0.752	<0.596	
PCB-150	2,2',3,4',6,6' - HxCB	<0.322	U	<0.194	U	<0.475	U	<0.183	U	<0.0288	U	<0.0357	U	K0.453	U	<0.449	
PCB-152	2,2',3,5,6,6' - HxCB	<0.318	U	<0.190	U	<0.469	U	<0.181	U	K0.090	U	<0.0349	U	<0.0446	U	<0.444	
PCB-153/168	2,2',4,4',5,5' - HxCB	130	UB	78.9	UB	174	UB	125	UB	141	UB	194	UB	331	UB	125	
PCB-155	2,2',4,4',6,6' - HxCB	<0.250	U	K0.554	U	<0.375	U	0.369	0.369	0.57	0.57	K0.249	U	1.09	1.09	<0.334	
PCB-156/157	2,3,3',4,4',5 - HxCB	K13.1	U	7.86	UB	17.4	UB	13.2	UB	14.4	UB	18.8	UB	32.1	UB	12.8	
PCB-158	2,3,3',4,4',6 - HxCB	11.5	UB	7.29	UB	15.5	UB	K9.18	U	10.7	UB	18.3	UB	31.1	UB	9.22	
PCB-159	2,3,3',4,5,5' - HxCB	1.86	UB	K1.73	U	K2.22	U	K2.19	U	K1.24	U	K1.96	U	K6.61	U	1.64	
PCB-161	2,3,3',4,5,6' - HxCB	<0.684	U	<0.474	U	<0.950	U	<0.849	U	<0.614	U	<0.578	U	<0.705	U	<0.754	
PCB-162	2,3,3',4',5,5' - HxCB	<0.640	U	<0.459	U	<0.890	U	<0.796	U	<0.575	U	K0.611	U	K0.688	U	<0.706	
PCB-164	2,3,3',4',5',6 - HxCB	8.26	UB	4.58	UB	11.5	UB	7.61	UB	K9.71	U	12.3	UB	19.8	UB	6.39	
PCB-165	2,3,3',5,5',6 - HxCB	<0.746	U	<0.530	U	<1.04	U	<0.927	U	<0.670	U	<0.646	U	<0.788	U	<0.823	
PCB-167	2,3',4,4',5,5' - HxCB	4.62	UB	3.47	UB	7.39	UB	K5.12	U	5.7	UB	7	UB	9.76	UB	5.09	
PCB-169	3,3',4,4',5,5' - HxCB	<0.788	U	<0.472	U	<0.885	U	<0.813	U	<0.781	U	<0.607	U	<1.23	U	<0.747	
PCB-170	2,2',3,3',4,4',5 - HpCB	13.1	UB	8.33	UB	19.9	UB	14.5	UB	12.4	UB	20.3	UB	33.6	UB	11.8	
PCB-171/173	2,2',3,3',4,4',6 - HpCB	5.64	UB	K4.82	U	7.31	UB	5.85	UB	5.18	UB	7.86	UB	10.7	UB	5.78	
PCB-172	2,2',3,3',4,5,5' - HpCB	K3.24	U	2.76	UB	5.23	UB	4.15	UB	K3.60	U	5.48	UB	8.79	UB	K3.56	
PCB-174	2,2',3,3',4,5,6' - HpCB	25.9	UB	20.5	UB	31.7	UB	27.6	UB	21.6	UB	36.9	UB	45.6	UB	28	
PCB-175	2,2',3,3',4,5',6 - HpCB	K1.70	U	1.2	1.2	K1.51	U	K1.32	U	K1.22	U	K2.06	U	K3.11	U	K1.97	
PCB-176	2,2',3,3',4,6,6' - HpCB	5.53	UB	K6.08	U	6.45	UB	7.23	UB	K4.76	U	7.17	UB	9.78	UB	7.43	
PCB-177	2,2',3,3',4',5,6 - HpCB	14.8	UB	11.1	UB	K18.2	U	15.8	UB	13.5	UB	18.7	UB	23.8	UB	14	
PCB-178	2,2',3,3',5,5',6 - HpCB	8.06	8.06	6.53	6.53	10.2	10.2	9.12	9.12	8.01	8.01	K10.1	U	15.6	15.6	K8.70	
PCB-179	2,2',3,3',5,6,6' - HpCB	21.6	UB	18.9	UB	24.6	UB	23.1	UB	18.4	UB	24.9	UB	33.1	UB	27.6	
PCB-180/193	2,2',3,4,4',5,5' - HpCB	41	UB	30	UB	60.3	UB	46.1	UB	40.2	UB	61	UB	105	UB	42.6	
PCB-181	2,2',3,4,4',5,6 - HpCB	<0.0398	U	<0.0414	U	K0.392	U	0.238	0.238	K0.204	U	K0.621	U	0.65	0.65	K2.06	
PCB-182	2,2',3,4,4',5,6' - HpCB	K0.130	U	K0.259	U	0.166	0.166	K0.428	U	K0.173	U	K0.573	U	<0.0415	U	<0.0379	
PCB-183/185	2,2',3,4,4',5,6 - HpCB	21.6	UB	17.8	UB	27.7	UB	23.6	UB	20.4	UB	28.1	UB	37.9	UB	24.6	
PCB-184	2,2',3,4,4',6,6' - HpCB	<0.0313	U	K0.397	U	K0.255	U	K0.161	U	<0.0261	U	0.263	0.263	K1.11	U	K0.338	
PCB-186	2,2',3,4,5,6,6' - HpCB	<0.0336	U	K0.072	U	K0.045	U	K0.047	U	<0.0281	U	K0.137	U	K0.049	U	<0.0335	
PCB-187	2,2',3,4',5,5',6 - HpCB	42.5	UB	33.9	UB	52.6	UB	42.2	UB	37.3	UB	54	UB	72.2	UB	47.2	
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.109	U	K0.392	U	K0.192	U	<0.0315	U	0.178	0.178	K0.257	U	K0.160	U	K0.244	
PCB-189	2,3,3',4,4',5,5' - HpCB	K1.25	U	K1.06	U	K1.41	U	K1.56	U	K1.41	U	K1.09	U	K3.53	U	K2.17	
PCB-190	2,3,3',4,4',5,6 - HpCB	3.37	3.37	2.24	2.24	4.59	4.59	K3.47	U	3.19	3.19	4.79	4.79	8.35	8.35	K2.21	
PCB-191	2,3,3',4,4',5',6 - HpCB	0.778	UB	K0.529	U	1.11	UB	K0.666	U	K0.857	U	K1.12	U	K1.51	U	<0.0330	
PCB-192	2,3,3',4,5,5',6 - HpCB	<0.0355	U	<0.0360	U	<0.0393	U	K0.063	U	K0.049	U	K0.056	U	K0.057	U	K0.058	
PCB-194	2,2',3,3',4,4',5,5' - OcCB	5.58	UB	4.08	UB	K9.86	U	6.29	UB	5.17	UB	5.41	UB	16.3	UB	4.47	
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K2.79	U	1.55	UB	K3.51	U	2.71	UB	2.09	UB	2.41	UB	K4.63	U	1.99	
PCB-196	2,2',3,3',4,4',5,6' - OcCB	K3.86	U	K2.93	U	K5.35	U	K4.58	U	K3.39	U	K4.70	U	6.39	UB	K3.74	
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K2.23	U	K2.87	U	K2.93	U	2.48	UB	K1.41	U	0.62	UB	K3.38	U	3.29	
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	11.8	UB	7.58	UB	14.1	UB	13.1	UB	9.5	UB	13.6	UB	K25.1	U	11.8	
PCB-201	2,2',3,3',4,5',6,6' - OcCB	K2.24	U	K2.31	U	2.67	UB	K2.55	U	K1.66	U	2.44	UB	3.32	UB	3.01	
PCB-202	2,2',3,3',5,5',6,6' - OcCB	4.71	UB	4.47	UB	5.72	UB	5.67	UB	K4.00	U	5.29	UB	7.55	UB	6.24	
PCB-203	2,2',3,4,4',5,5',6 - OcCB	6.57	UB	K5.10	U	8.14	UB	6.54	UB	5.38	UB	K7.74	U	12.9	UB	5.7	
PCB-204	2,2',3,4,4',5,6,6' - OcCB	K0.148	U	K0.299	U	K0.118	U	K0.063	U	K0.184	U	<0.0440	U	K0.281	U	0.103	
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K0.648	U	K0.903	U	K0.822	U	K0.554	U	0.496	0.496	K0.421	U	K1.30	U	K0.611	
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	K2.73	U	K2.79	U	K3.50	U	K3.36	U	K2.42	U	K3.72	U	6.18	6.18	<3.05	
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<1.84	U	<1.51	U	<1.51	U	<1.67	U	<1.58	U	<1.64	U	<1.67	U	<2.28	
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<1.83	U	<1.52	U	K2.02	U	K3.43	U	<1.63	U	K2.10	U	K2.25	U	<2.26	
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	4.45	UB	K4.65	U	K4.64	U	K5.61	U	K5.34	U	K5.09	U	K6.18	U	K3.99	
8L		64.1 %REC		66.7 %REC		43.2 %REC		68.6 %REC		43.0 %REC		58.8 %REC		53.9 %REC		62.9 %REC	
SPMDs																	
Total Monochloro Biphenyls		24.72	7.22	30.30	0.00	38.61	7.21	46.42	7.72	40.54	9.64	19.60	0.00	47.08	9.38		
Total Dichloro Biphenyls		743.00	0.00	620.50	0.00	656.40	0.00	780.50	0.00	783.20	0.00	986.19	5.79	1067.35	5.66		
Total Trichloro Biphenyls		3029.52	0.00	2332.47	0.00	3067.67	2.37	3053.61	0.73	2957.35	2.41	3528.63	0.00	4183.21	0.00		
Total Tetrachloro Biphenyls		2460.75	0.00	1938.06	5.15	4130.23	4.53	2650.99	1.61	3539.14	8.74	3253.27	10.37	5126.48	16.25		
Total Pentachloro Biphenyls		996.24	6.48	679.25	5.46	2005.37	46.96	1041.54	12.34	1567.94	24.24	1669.91	16.71	3330.38	1856.08		
Total Hexachloro Biphenyls		611.84	0.00	415.35	0.22	863.32	10.64	617.47	0.37	697.01	0.57	991.80	9.00	1585.10	34.14		
Total Heptachloro Biphenyls		203.88	11.43	153.26	9.97	251.86	14.96	219.49	9.36	180.36	11.38	269.46	5.05	405.07	33.39		
Total Octachloro Biphenyls		28.66	0.00	17.68	0.00	30.63	0.00	36.79	0.00	22.64	0.50	29.77	0.00	46.46	0.00		
Total Nonachloro Biphenyls		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.18	6.18		
Decachloro Biphenyl		4.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
TOTAL PCBs		8103.06	25.13	6186.87	20.80	11044.08	86.66	8446.80	32.12	9788.17	57.47	10748.64	46.93	15797.31	1961.08		

Table D-10
EPA-Qualified December SPMD Data and Calculations

Sample Location	CLIENT ID Ays ID WORKGROUP UNITS Name	Day Zero-031217	LAB BLANK	SPIKED MATRIX		IUPA C NO.	Coefficient: k1(s) (L/g*d) (Meadows et al 1998)	Time (days)			State Line	Barker Road	Plante's Ferry	Boulder Beach	Dam Forebay	Monroe Street	Riverside State Pl
		L6425-15	WG11043-101	WG11043	WG11043			5x Max Blank	WG11043	AN-11LP-031218	AN-12LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-14LP-031217	
		pg/sample	pg/sample	pg/sample	% REC			Ms	EAF*	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	
PCB-82	2,2',3,3',4 - PeCB	5.5	<0.534	61		82	4.4	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-83/99	2,2',3,3',5 - PeCB	35.4	K0.875	302		83	4.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-84	2,2',3,3',6 - PeCB	16	<0.551	127		84	4.4	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	2.82
PCB-85/116/117	2,2',3,4,4' - PeCB	10.3	<0.403	96.5		85	4.8	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-86/87/97/108/119/125	2,2',3,4,5 - PeCB	40.2	<0.418	342		86	4.7	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	7.06
PCB-88/91	2,2',3,4,6 - PeCB	9.31	<0.484	73.5		88	4.4	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	1.46
PCB-89	2,2',3,4,6' - PeCB	<1.35	<0.518	0		89	4.6	22	23	4.5	0.05	0.00	0.06	0.05	0.00	0.00	0.00
PCB-90/101/113	2,2',3,4',5 - PeCB	69.8	K0.624	740		90	6.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-92	2,2',3,5,5' - PeCB	K10.7	<0.493	116.5		92	5.3	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-93/95/98/100/102	2,2',3,5,6 - PeCB	56	K0.543	510		93	6.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	7.27
PCB-94	2,2',3,5,6' - PeCB	<1.38	<0.524	0		94	4.6	22	23	4.5	0.00	0.34	0.00	0.00	0.00	0.06	0.00
PCB-96	2,2',3,6,6' - PeCB	K0.616	<0.286	0		96	4.6	22	23	4.5	0.00	0.00	0.05	0.04	0.03	0.00	0.09
PCB-103	2,2',4,5',6 - PeCB	<1.21	<0.448	7		103	4.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-104	2,2',4,6,6' - PeCB	<0.576	<0.251	0	98.8	104	4.6	22	23	4.5	0.00	0.10	0.00	0.00	0.00	0.00	0.00
PCB-105	2,3,3',4,4' - PeCB	15.7	K3.40	134.5	103	105	4.0	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	3.06
PCB-106	2,3,3',4,5 - PeCB	K1.01	<0.439	0		106	4.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-107/124	2,3,3',4',5 - PeCB	K1.95	<0.468	0		107	5.3	22	23	4.5	0.06	0.49	0.11	0.06	0.06	0.21	0.26
PCB-109	2,3,3',4,6 - PeCB	2.6	<0.427	13		109	4.6	22	23	4.5	0.00	0.00	0.19	0.00	0.13	0.00	0.44
PCB-110/115	2,3,3',4',6 - PeCB	57.2	K0.689	475		110	5.7	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	8.43
PCB-111	2,3,3',5,5' - PeCB	<0.925	<0.354	0		111	4.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-112	2,3,3',5,6 - PeCB	<0.935	<0.376	0		112	4.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-114	2,3,4,4',5 - PeCB	K1.75	<0.477	0	103	114	4.4	22	23	4.5	0.00	0.00	0.07	0.00	0.00	0.15	0.00
PCB-118	2,3',4,4',5 - PeCB	42.3	7.9	368.5	100	118	4.8	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-120	2,3',4,5,5' - PeCB	<0.894	<0.343	0		120	4.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-121	2,3',4,5',6 - PeCB	<0.949	<0.365	0		121	4.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-122	2',3,3',4,5 - PeCB	<1.02	<0.486	0		122	4.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-123	2',3,4,4',5 - PeCB	K1.69	<0.485	0	102	123	4.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-126	3,3',4,4',5 - PeCB	<0.939	K0.971	0	99.8	126	2.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-127	3,3',4,5,5' - PeCB	<0.914	<0.441	0		127	1.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-128/166	2,2',3,3',4,4' - HxCB	K4.40	<0.422	32.7		128	4.4	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-129/138/160/163	2,2',3,3',4,5 - HxCB	42.7	K2.34	402		129	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-130	2,2',3,3',4,5' - HxCB	2.23	<0.591	11.15		130	4.0	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.41
PCB-131	2,2',3,3',4,6 - HxCB	<0.542	<0.591	0		131	4.2	22	23	4.5	0.00	0.00	0.03	0.00	0.00	0.00	0.00
PCB-132	2,2',3,3',4,6' - HxCB	15.9	<0.573	157.5		132	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-133	2,2',3,3',5,5' - HxCB	<0.507	<0.551	7.3		133	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-134/143	2,2',3,3',5,6 - HxCB	<0.543	<0.584	0		134	4.8	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-135/151/154	2,2',3,3',5,6' - HxCB	27.6	<0.320	396		135	5.3	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-136	2,2',3,3',6,6' - HxCB	10.1	<0.260	124.5		136	5.3	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-137	2,2',3,4,4',5 - HxCB	1.45	<0.520	7.25		137	3.5	22	23	4.5	0.00	0.00	0.10	0.00	0.00	0.31	0.33
PCB-139/140	2,2',3,4,4',6 - HxCB	0.923	<0.518	4.615		139	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-141	2,2',3,4,5,5' - HxCB	12.2	<0.543	140.5		141	4.8	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-142	2,2',3,4,5,6 - HxCB	<0.526	<0.577	0		142	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-144	2,2',3,4,5',6 - HxCB	3.83	<0.329	60		144	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-145	2,2',3,4,6,6' - HxCB	K0.031	<0.265	0		145	4.2	22	23	4.5	0.00	0.04	0.00	0.00	0.00	0.00	0.00
PCB-146	2,2',3,4',5,5' - HxCB	6.98	<0.485	85.5		146	4.8	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-147/149	2,2',3,4',5,6 - HxCB	54.5	<0.520	680		147	5.7	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table D-10
EPA-Qualified December SPMD Data and Calculations

Sample Location	CLIENT ID	Ays ID	WORKGROUP	UNITS	Name	Day Zero-031217	LAB BLANK	SPIKED MATRIX		IUPA C NO.	Coefficient: k1(s) (L/g*d) (Meadows et al 1998)	Time (days)			State Line	Barker Road	Plante's Ferry	Boulder Beach	Dam Forebay	Monroe Street	Riverside State Pl
						L6425-15 WG11043	WG11043-101 WG11043	5x Max Blank WG11043	WG11043-102 WG11043			Ms	EAF*	AN-11LP-031218	AN-12LP A-031217	AN-01LP A-031217	AN-02LP A-031217	AN-03LP A-031217	AN-13LP-031218	AN-14LP-031217	
		pg/sample	pg/sample	pg/sample	% REC	Rs	Days if 17th	Days if 18th	Ms	EAF*	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L	pg/L
PCB-148	2,2',3,4',5,6' - HxCB	K0.093	<0.340	0		148	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
PCB-150	2,2',3,4',6,6' - HxCB	<0.0284	<0.256	0		150	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-152	2,2',3,5,6,6' - HxCB	<0.0278	<0.253	0		152	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-153/168	2,2',4,4',5,5' - HxCB	49.8	3.02	625		153	3.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-155	2,2',4,4',6,6' - HxCB	K0.499	K0.199	0	98.7	155	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.02
PCB-156/157	2,3,3',4,4',5 - HxCB	6.56	K5.17	64	97.4	156	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-158	2,3,3',4,4',6 - HxCB	K4.46	<0.365	46.1		158	3.5	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-159	2,3,3',4,5,5' - HxCB	1.08	<0.375	8.2		159	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-161	2,3,3',4,5',6 - HxCB	<0.369	<0.400	0		161	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-162	2,3,3',4',5,5' - HxCB	<0.358	<0.375	0		162	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-164	2,3,3',4',5',6 - HxCB	2.84	<0.403	31.95		164	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-165	2,3,3',5,5',6 - HxCB	<0.413	<0.436	0		165	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-167	2,3',4,4',5,5' - HxCB	2.49	2.6	25.45	97.5	167	4.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-169	3,3',4,4',5,5' - HxCB	<0.594	<0.434	0	95.8	169	2.1	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-170	2,2',3,3',4,4',5 - HpCB	K7.87	K0.599	59		170	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-171/173	2,2',3,3',4,4',6 - HpCB	K3.28	K0.135	28.9		171	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-172	2,2',3,3',4,5,5' - HpCB	1.63	<0.0248	8.15		172	1.3	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.59
PCB-174	2,2',3,3',4,5,6' - HpCB	14.3	K0.025	140		174	3.1	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-175	2,2',3,3',4,5',6 - HpCB	K0.395	K0.104	0		175	2.6	22	23	4.5	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-176	2,2',3,3',4,6,6' - HpCB	3.97	K0.086	37.15		176	2.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-177	2,2',3,3',4',5,6 - HpCB	7.21	0.496	70		177	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-178	2,2',3,3',5,5',6 - HpCB	K4.09	K0.120	0		178	3.1	22	23	4.5	0.22	1.78	0.16	0.17	0.11	0.00	0.00	0.00	0.00	0.00	0.44
PCB-179	2,2',3,3',5,6,6' - HpCB	10.9	K0.050	138		179	2.2	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-180/193	2,2',3,4,4',5,5' - HpCB	23.9	1.51	213		180	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-181	2,2',3,4,4',5,6 - HpCB	K0.240	K0.057	0		181	2.6	22	23	4.5	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02
PCB-182	2,2',3,4,4',5,6' - HpCB	K0.326	K0.152	0		182	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-183/185	2,2',3,4,4',5,6 - HpCB	11.9	0.441	123		183	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-184	2,2',3,4,4',6,6' - HpCB	K0.184	K0.037	0		184	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
PCB-186	2,2',3,4,5,6,6' - HpCB	K0.081	<0.0187	0		186	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-187	2,2',3,4',5,5',6 - HpCB	24.1	0.981	236		187	3.5	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-188	2,2',3,4',5,6,6' - HpCB	K0.243	K0.151	0	96.9	188	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-189	2,3,3',4,4',5,5' - HpCB	K1.02	K1.49	0	98.7	189	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-190	2,3,3',4,4',5,6 - HpCB	K1.95	K0.166	0		190	2.6	22	23	4.5	0.11	0.73	0.08	0.00	0.05	0.23	0.28	0.00	0.00	0.00	0.00
PCB-191	2,3,3',4,4',5,6 - HpCB	0.329	<0.0184	1.645		191	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-192	2,3,3',4,5,5',6 - HpCB	<0.0350	K0.094	0		192	2.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-194	2,2',3,3',4,4',5,5' - OcCB	3.41	K0.262	22.35		194	1.3	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-195	2,2',3,3',4,4',5,6 - OcCB	K2.06	K0.135	9.95		195	1.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-196	2,2',3,3',4,4',5,6' - OcCB	2.6	K0.127	13		196	1.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-197/200	2,2',3,3',4,4',6,6' - OcCB	K1.86	K0.047	16.45		197	1.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-198/199	2,2',3,3',4,5,5',6 - OcCB	6.84	K0.371	59		198	1.8	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-201	2,2',3,3',4,5',6,6' - OcCB	1.77	K0.049	15.05		201	1.8	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-202	2,2',3,3',5,5',6,6' - OcCB	3.47	<0.0215	31.2	96.6	202	1.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-203	2,2',3,4,4',5,5',6 - OcCB	K4.65	0.206	28.5		203	1.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-204	2,2',3,4,4',5,6,6' - OcCB	<0.0392	K0.053	0.515		204	1.6	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-205	2,3,3',4,4',5,5',6 - OcCB	K0.514	K0.427	0	98.5	205	1.6	22	23	4.5	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
PCB-206	2,2',3,3',4,4',5,5',6 - NoCB	<1.76	<1.38	0	98.6	206	0.40	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34
PCB-207	2,2',3,3',4,4',5,6,6' - NoCB	<1.38	<1.10	0		207	0.40	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-208	2,2',3,3',4,5,5',6,6' - NoCB	<1.36	<1.15	0	99.5	208	0.40	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PCB-209	2,2',3,3',4,4',5,5',6,6' - DeCB	9.72	K0.815	48.6	92.7	209	0.40	22	23	4.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8L		77.6 %REC	N/A %REC																		
SPMDs																					
Total Monochloro Biphenyls												0.05	0.00	0.03	0.04	0.03	0.00	0.06			
Total Dichloro Biphenyls												0.00	0.00	0.00	0.00	0.00	0.06	0.04			
Total Trichloro Biphenyls												0.00	0.00	0.02	0.01	0.02	0.00	0.00			
Total Tetrachloro Biphenyls												0.00	0.80	0.04	0.02	0.07	0.23	0.26			
Total Pentachloro Biphenyls												0.11	0.93	0.48	0.15	0.22	0.42	30.90			
Total Hexachloro Biphenyls												0.00	0.04	0.14	0.01	0.01	0.32	0.78			
Total Heptachloro Biphenyls												0.33	2.89	0.25	0.18	0.17	0.24	1.33			
Total Octachloro Biphenyls												0.00	0.00	0.00	0.00	0.01	0.00	0.00			
Total Nonachloro Biphenyls												0.00	0.00	0.00	0.00	0.00	0.00	1.34			
Decachloro Biphenyl												0.00	0.00	0.00	0.00	0.00	0.00	0.00			
TOTAL PCBs												0.49	4.66	0.95	0.39	0.53	1.27	34.71			

APPENDIX E

SEDIMENT RESULTS AND DATA

**Table E-1
Sediment Sample Collection Information and Visual Classification Results**

Station	Sample ID			Depth Interval	Date	Time	Method	Total Penetration (cm)	Interval Sampled (cm)	Description	Area Description (if collected via diver or evaluated visually)
BWE-9	BWE	9	SD	A	9/4/2003	1540	Van Veen	12	0-10	sand with silt	N/AP
10	AN	10	SD	A	9/3/2003	1510	Van Veen	15	0-10	coarse sand	N/AP
11	AN	11	SD	A	9/6/2003	1650	Diver	10	0-10	coarse sand with gravel	coarse sand with gravel throughout
11	AN	11	SD	B	9/5/2003	1150	Core	51.5	10-20	sand with gravel	N/AP
11	AN	11	SD	C	9/5/2003	1150	Core	51.5	20-30	sand with gravel	N/AP
11	AN	11	SD	D	9/5/2003	1150	Core	51.5	30-40	sand with gravel	N/AP
11	AN	11	SD	E	9/5/2003	1150	Core	51.5	40-51.5	sand/gravel & wood waste	tan organic material w/ wood fiber/pulp
12	AN	12	SD	A	9/6/2003	1730	Diver	10	0-10	sand with gravel	coarse sand with gravel throughout
13	AN	13	SD	A	9/6/2003	1100	Diver	10	0-10	sandy silt with some gravel/cobble	cobble with gravel and silt throughout area
14	AN	14	SD	A	9/3/2003	1210	Van Veen	0-3	0-3	coarse to medium sand	visually similar throughout area
15	AN	15	SD	A	9/3/2003	1240	Van Veen	0-3	0-3	coarse to medium sand	visually similar throughout area
20	AN	20	SD	A	9/6/2003	1800	Diver	0-10	0-10	sand with gravel	visually similar throughout area; swam compass to existing deposit and sediments did not change until the slope went back down to the existing deposit
21	AN	21	SD	A	9/6/2003	1220	Diver	0-10	0-10	sand with gravel	gravelly sand throughout area; very consistent
22	AN	22	SD	A	9/6/2003	1235	Diver	0-10	0-10	sand with gravel	gravelly sand throughout area
23	AN	23	SD	A	9/6/2003	1320	Diver	0-10	0-10	sand with gravel	gravel with sand throughout area; same substrate 10' N and S of station
24	AN	24	SD	A	9/6/2003	1340	Diver	0-8	0-8	sand with gravel	gravel with sand throughout area; similar substrate 20' S and 10' N
25	AN	25	SD	A	9/6/2003	1450	Diver	0-8	0-8	gravel/sand surface with silty/organic wood waste (wood fiber) material beneath; pulp mill odor	sand and gravel with wood waste (mechanically processed fiber similar to sawdust) and clayey sand intermixed; very heterogeneous station
26	AN	26	SD	A	9/6/2003	1510	Diver	0-6	0-6	dense silty sand	dense silty sand throughout area

**Table E-1
Sediment Sample Collection Information and Visual Classification Results**

Station	Sample ID			Depth Interval	Date	Time	Method	Total Penetration (cm)	Interval Sampled (cm)	Description	Area Description (if collected via diver or evaluated visually)
27	AN	27	SD	A	9/6/2003	1600	Diver	0-10	0-10	gravel/cobble with sand	gravel/cobble with sand throughout area
28	AN	28	SD	A	9/3/2003	1545	Van Veen	0-15	0-10	coarse sand	N/AP
29	AN	29	SD	A	9/6/2003	1635	Diver	0-10	0-10	gravel with sand	gravelly sand throughout area
30	AN	30	SD	A	9/5/2003	1815	Diver	0-10	0-10	gravel with sand	cobble slope with organic mat in places (probably wood fiber), sloping to woody debris with sandy gravel substrate
31	AN	31	SD	A	9/5/2003	1800	Diver	0-10	0-10	cobble/gravel with silty sand	woody debris, large cobble to silty sand substrates present, sand with sandy silt underneath sampled
32	AN	32	SD	A	9/5/2003	1728	Diver	0-10	0-10	gravel with sand	boulder slope with gravelly sand at toe of slope
40	AN	40	SD	A	9/3/2003	1010	manual	0-10	0-10	sandy silt	similar substrate throughout area
40	AN	40	SD	B	9/5/2003	1100	Core	0-15	10-15	sandy silt w/ organic material	N/AP
41	AN	41	SD	A	9/3/2003	1045	manual	0-10	0-10	coarse to medium sand w/ silt	N/AP
42	AN	42	SD	A	9/3/2003	1120	manual	0-10	0-10	coarse to medium sand w/ silt	N/AP

diver = scuba diver grab sampler

manual = collected in shallow water using stainless steel spoon

core = piston core

**Table E-2
Core Information and Observations**

Station	Date	Time	Method	Total Penetration (cm)	Core Successful?	Description
11	9/5/2003	1140	Piston	70	No	apparent gravel deposit
11	9/5/2003	1145	Piston	40	No	apparent gravel deposit
11	9/5/2003	1150	Piston	51.5	Yes	gravel with coarse to medium sand; brown surface
14	9/5/2003	1430	Piston	10	No	dense sand with gravel
14	9/5/2003	1435	Piston	10	No	dense sand with gravel
14	9/5/2003	1440	Piston	10	No	dense sand with gravel
21	9/4/2003	1710	Piston	44	No	apparent gravel deposit; sediments are not retained in core upon retrieval
21	9/4/2003	1730	Piston	101	No	apparent gravel deposit; sediments are not retained in core upon retrieval
21	9/4/2003	1745	Piston	195	No	apparent gravel deposit; sediments are not retained in core upon retrieval
23	9/4/2003	1610	Piston	0	No	unable to penetrate sediment
23	9/4/2003	1612	Piston	0	No	unable to penetrate sediment
23	9/4/2003	1614	Piston	0	No	unable to penetrate sediment
29	9/4/2003	1815	Piston	100	No	apparent large gravel deposit; no sediment retained in core
29	9/4/2003	1820	Piston	75	No	apparent large gravel deposit; no sediment retained in core
29	9/4/2003	1825	Piston	50	No	apparent large gravel deposit; no sediment retained in core
30	9/5/2003	1220	Piston	30	No	dense gravel/sand; no sediment retained in core
30	9/5/2003	1230	Piston	40	No	dense gravel/sand; no sediment retained in core
30	9/5/2003	1235	Piston	20	No	dense gravel/sand; no sediment retained in core
31	9/5/2003	1310	Piston	0	No	hard substrate encountered (cobble?); no penetration
31	9/5/2003	1313	Piston	0	No	hard substrate encountered (cobble?); no penetration
31	9/5/2003	1316	Piston	0	No	hard substrate encountered (cobble?); no penetration
32	9/5/2003	1330	Piston	0	No	hard substrate encountered (cobble?); no penetration
32	9/5/2003	1335	Piston	0	No	hard substrate encountered (cobble?); no penetration
32	9/5/2003	1340	Piston	0	No	hard substrate encountered (cobble?); no penetration
40	9/5/2003	1500	Piston	15	Yes	organic (plant) material prevented further core penetration

piston = piston core

**Table E-3
Results from Ecology's Analysis of Split Samples**

Location ID Sample ID Sample Date Field QC	BWE-1 OD03-SS-01 5/21/2003	BWE-6 OD03-SS-06 5/21/2003	BWE-7 OD03-SS-07 5/21/2003	BWE-10 OD03-SS-09 5/21/2003
Depth Interval (cm)	~0-10	~0-10	~0-10	~0-10
Water Depth (feet)	25.2	24.6	19.6	7.5
Conventionals (%)				
Total Organic Carbon	NA	NA	NA	NA
Total solids	NA	NA	NA	NA
Grain Size (%)				
Gravel	0.4	2.1	53.9	19.8
Sand, Very Coarse	2.5	2.9	4.3	5.8
Sand, Coarse	5.7	7.9	4.4	18.2
Sand, Medium	12	32.6	10.1	50.1
Sand, Fine	39.3	32.8	15.3	5.3
Sand, Very Fine	16.2	10	6.4	0.3
Silt	17	8.1	3.9	0.5
Clay	6.6	3.6	2.1	0.1
Total PCBs (µg/kg dry)	315	275	169	460

µg/kg dry = micrograms / kilogram dry weight

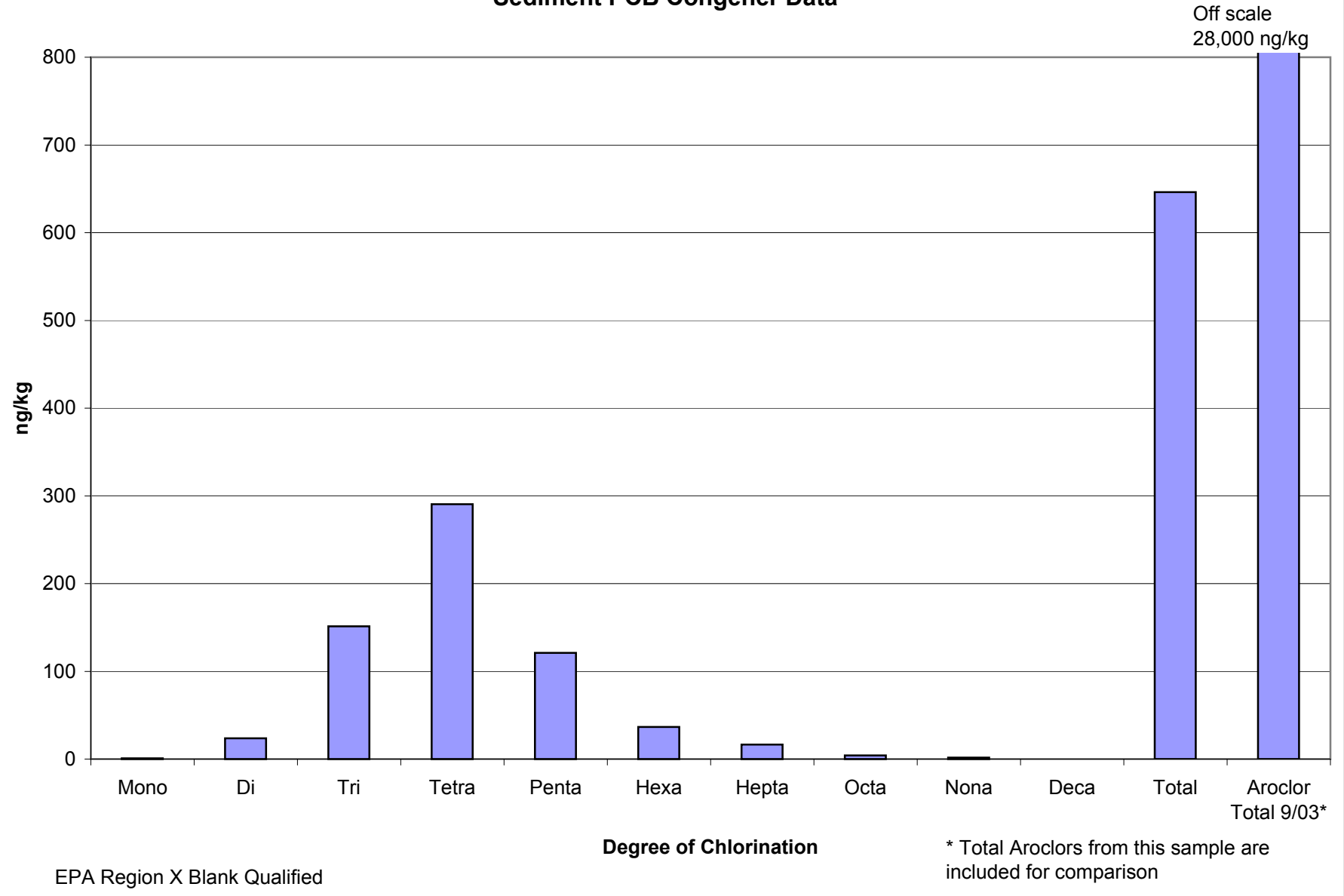
APPENDIX F

SEDIMENT PCB CONGENER RESULTS

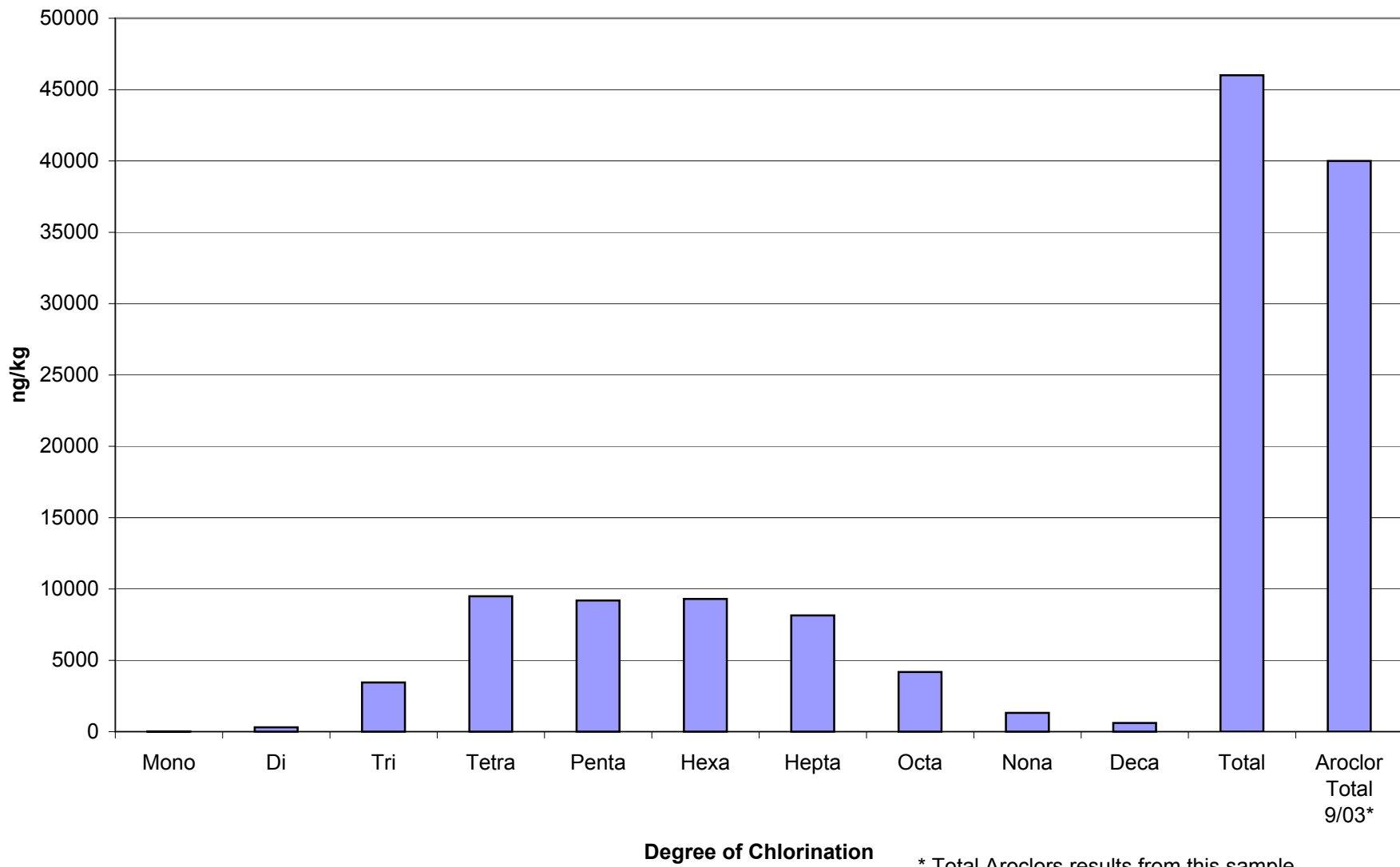
SEDIMENT PCB CONGENER RESULTS

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.

**AN-10 0-10 cm
Sediment PCB Congener Data**



**AN-11 40-51.5 cm
Sediment PCB Congener Data**



EPA Region X Blank Qualified

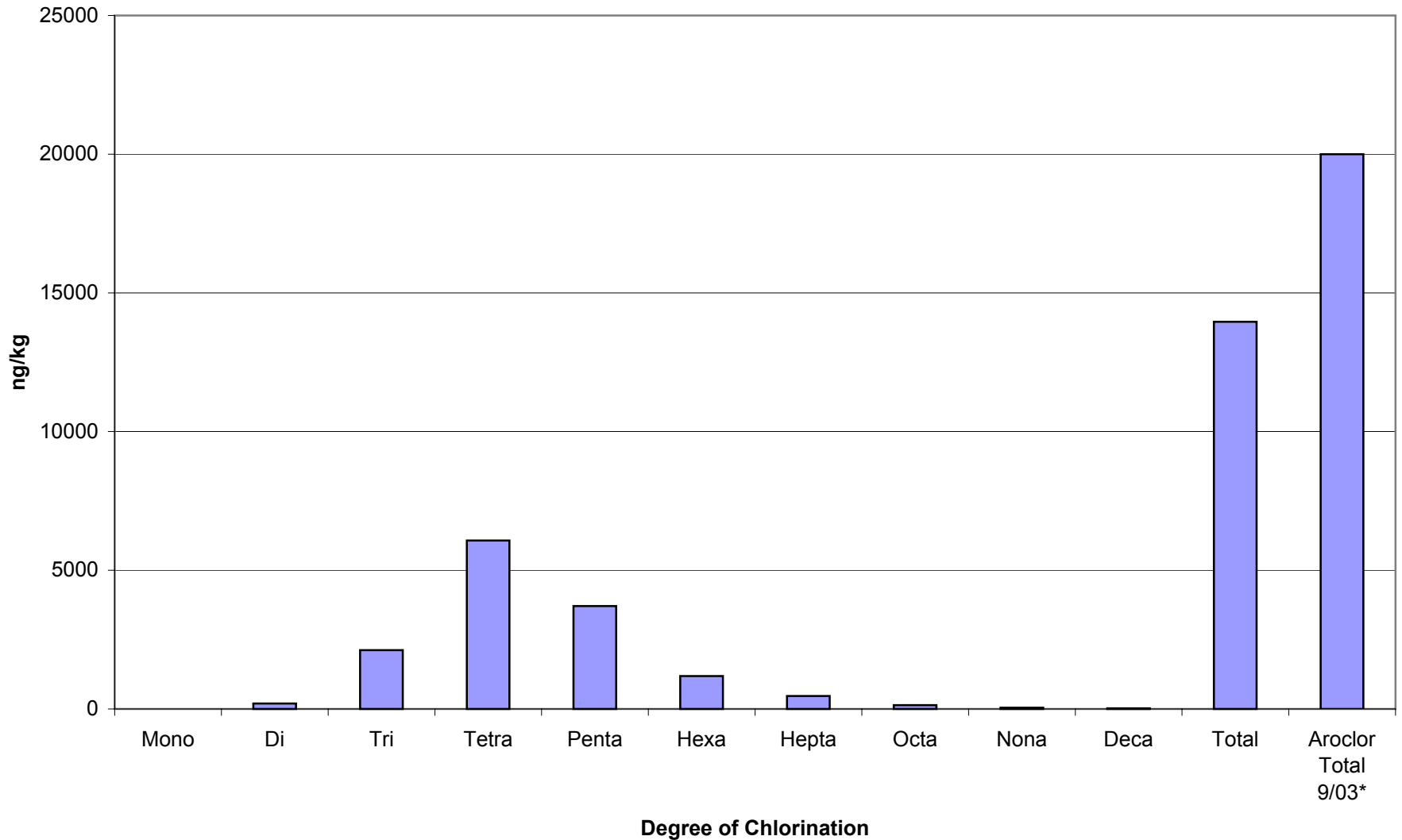
Degree of Chlorination

* Total Aroclors results from this sample are included for comparison



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

AN-15 0-10cm
Sediment PCB Congener Data



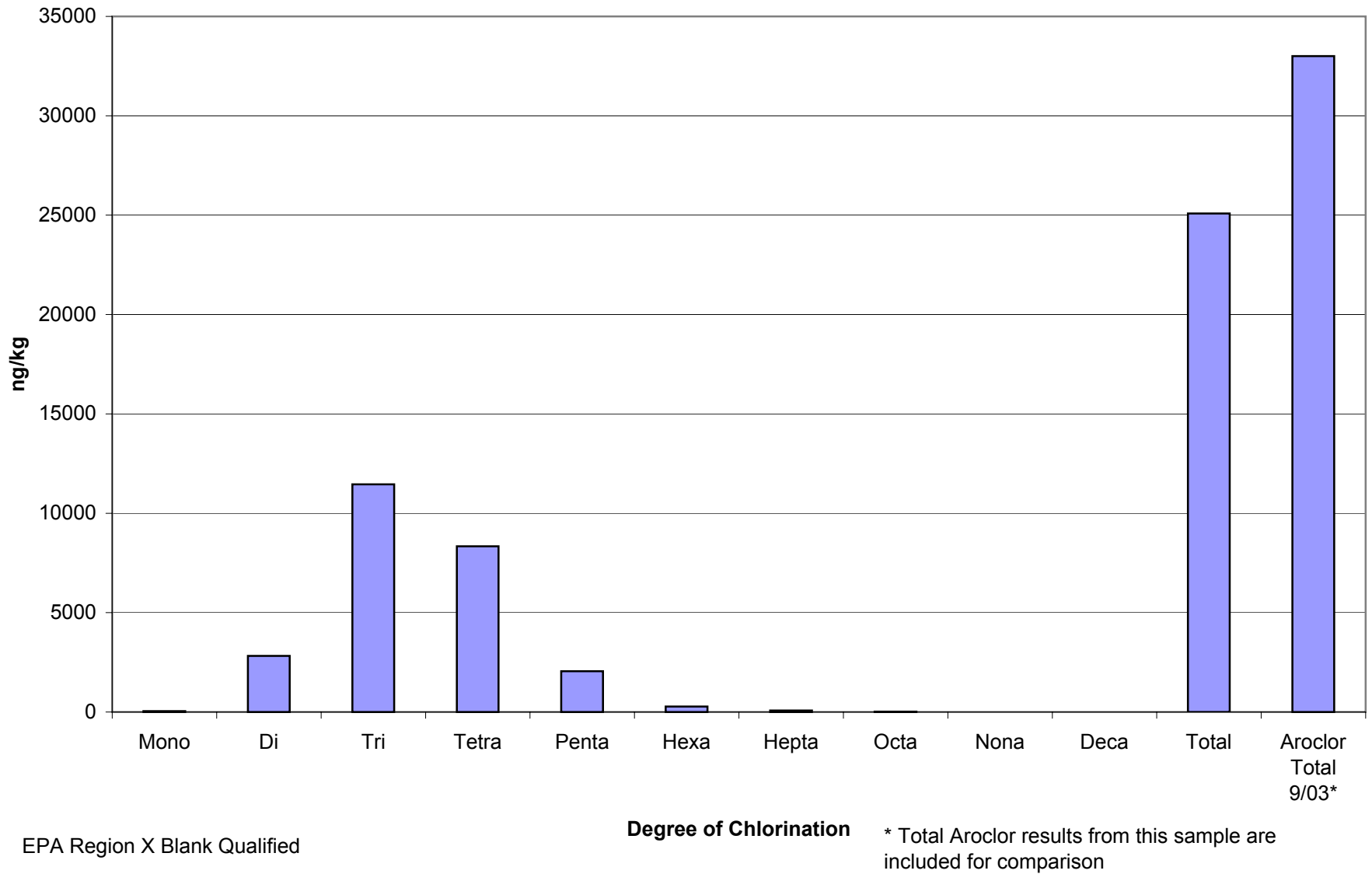
EPA Region X Blank Qualified

* Total Aroclor results from this sample are included for comparison

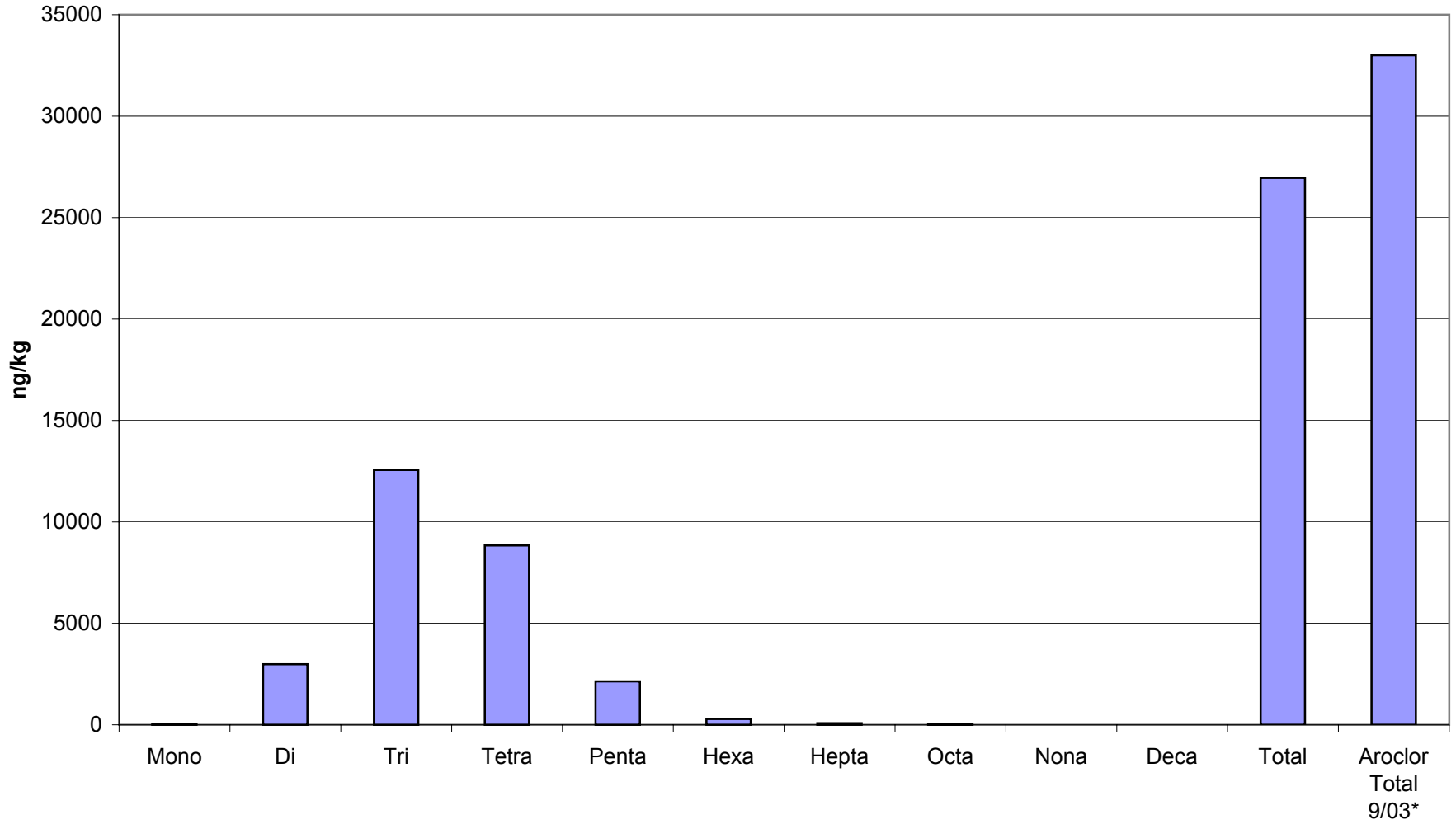


Figure F-3
Sediment PCB Congener Data
AN-15 0-10cm

**AN-25 0-10cm
Sediment PCB Congener Data**



**AN-25 0-10cm
Laboratory Duplicate
Sediment PCB Congener Data**



EPA Region X Blank Qualified

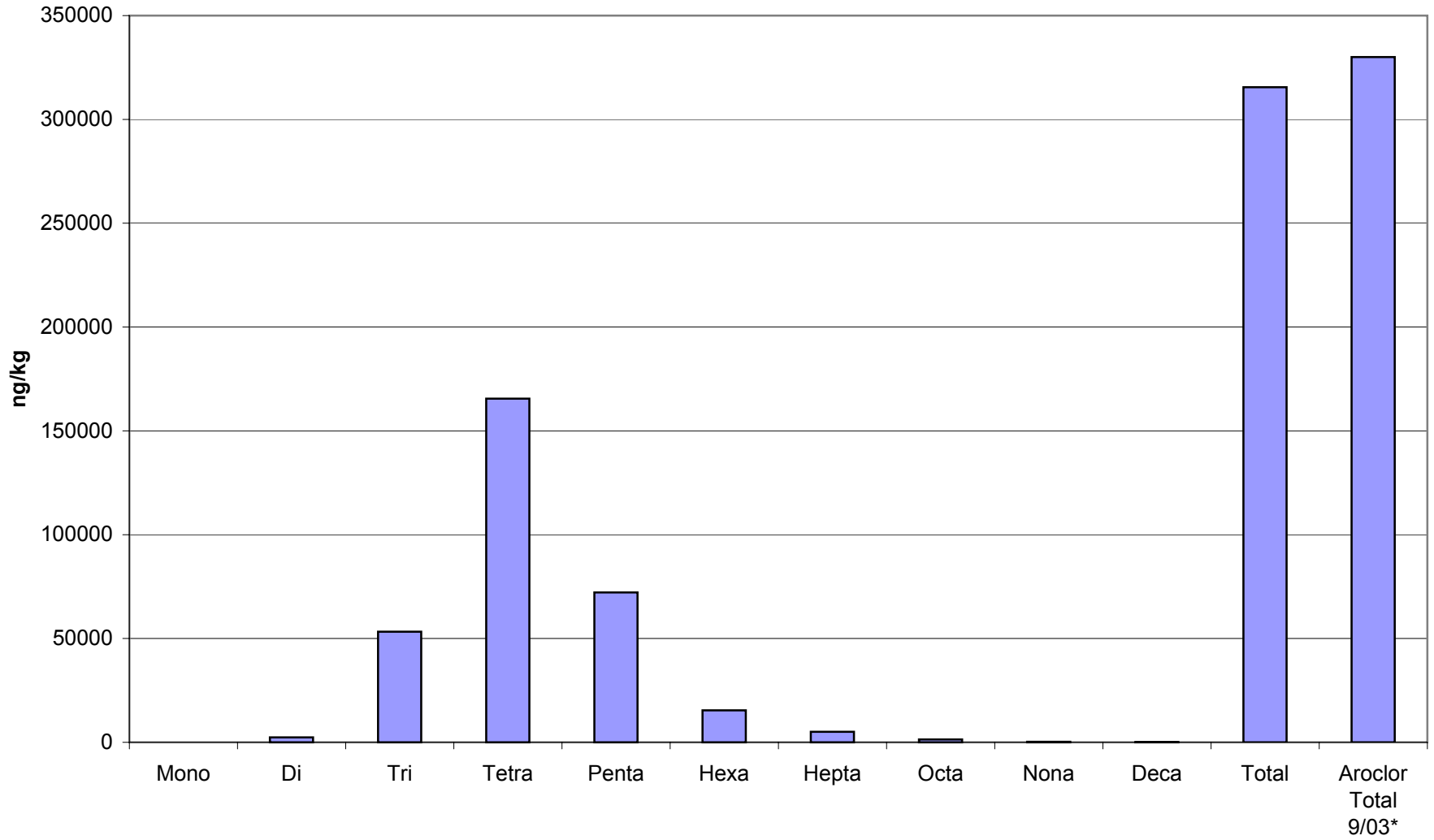
Degree of Chlorination

* Total Aroclor results from this sample are included for comparison



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

AN-40 0-10cm
Sediment PCB Congener Data



EPA Region X Blank Qualified

Degree of Chlorination

* Total Aroclor results from this sample are included for comparison



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

**BWE-9 0-10cm
Sediment PCB Congener Data**

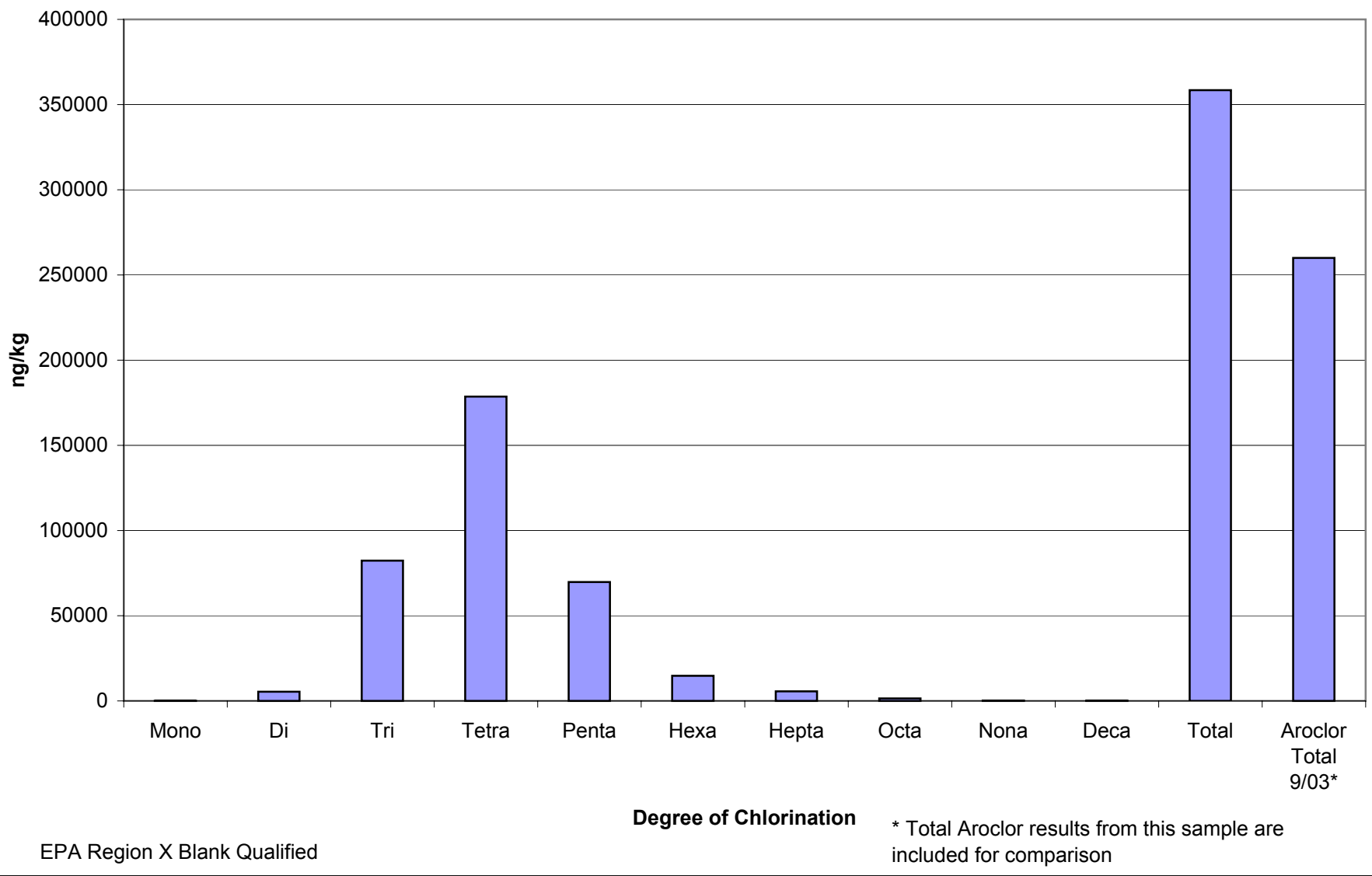


Figure F-7
Sediment PCB Congener Data
BWE-9 0-10cm

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

APPENDIX G

DATA VALIDATION MEMORANDA

MEMORANDUM

DATE: December 16, 2003

TO: James Keithly, Anchor Environmental, LLC

FROM: Roger McGinnis, Ph.D., Hart Crowser

RE: **Data Quality Review AXYS Laboratory Data Package 9952**
Upriver Dam Groundwater Investigation
7870-02

CC: Will Abercrombie, Hart Crowser

Anchorage

Boston

Denver

CHEMICAL DATA QUALITY REVIEW

Eight water samples including three blind field duplicate samples and two ambient blank (trip blank) samples collected from three wells located at Upriver Dam between May 15 and June 12, 2003, were shipped to AXYS Analytical Services of Sidney, British Columbia, for analysis. The samples were analyzed in two batches (L5819 and L5850) for polychlorinated biphenyl (PCB) congeners using EPA Method 1668A. The laboratory reported results as Data Package 9952.

Edmonds

Jersey City

Hart Crowser performed a data validation to assess whether analytical results met data quality objectives. Data review followed the format outlined in the EPA Region 10 SOP for validation of Method 1668 Toxic, Dioxin-Like, PCB Data (EPA 1995) modified to include specific criteria of the analytical method. The following criteria were evaluated in the data quality review process:

Long Beach

- Overall data quality;
- Sample handling, holding times, and chain of custody;
- Analytical methodology;
- Instrument performance;

Portland

Seattle



- Initial calibration;
- Calibration verification and ongoing precision and recovery (OPR) standard results;
- System performance and analytical sensitivity (reporting limits);
- Laboratory and field blanks;
- Cleanup standard recovery;
- Labeled surrogate compound recovery;
- Compound identification criteria; and
- Field replicate samples.

Overall Data Quality

The data for this project are acceptable for use as qualified. The completeness for the associated data is 99.8 percent. Detailed discussions are presented below.

Sample Handling, Holding Times, and Chain of Custody

Sample documentation was complete. The laboratory noted several minor discrepancies between sample labels and the chain of custody forms regarding sample identification numbers. Samples were refrigerated upon receipt by the laboratory. The analytical method indicates that samples may be stored up to 1 year if stored in the dark at 0 to 4°C and preserved. Samples were extracted and analyzed within method-specified holding times.

Analytical Methodology

Samples were extracted using continuous liquid-liquid extraction, EPA Method 3520C, and were analyzed for PCB congeners using EPA Method 1668A, high-resolution gas chromatography/mass spectrometry.

Instrument Performance

Instrument mass resolution and peak resolution met method specified criteria of greater than 10,000 atomic mass units (amu) and less than 20 percent valley/peak height,



respectively. Deviation between exact and theoretical mass was less than 5 ppm for all ions. Ion abundance ratios were within specified limits.

Initial Calibration

Internal standard calibration linearity met criteria of less than 20 percent relative standard deviation. Calibration verification (VER) standard recovery met method-specified criteria and ion abundance ratios were within specified limits.

Calibration Verification/Ongoing Precision and Recovery (OPR) Results

OPR analyte retention times and recoveries were within method performance specifications. Ion abundance ratios were within specified limits.

System Performance/Laboratory Sensitivity

The laboratory achieved the estimated minimum levels (EML) specified in Method 1668A. Reported quantitation limits and analytical results were adjusted for any required dilution factors.

Laboratory and Field Blanks

The following analytes with ion ratios meeting quality control criteria or within 10 percent of criteria were detected in the laboratory method blanks.

Analyte	IUPAC Number (multiple numbers indicate coelution)	6/20/03 Lab Blank in pg/L	7/18/03 Lab Blank in pg/L
2-MoCB	1	1.43	2.64
3-MoCB	2	2.97	2.20
4-MoCB	3	3.37	3.93
2,4-DiCB	7		20.4
3,3'-DiCB	11		17.0
2,2',3-TriCB	16	0.976	
2,2',4-TriCB	17	0.825	1.45
2,2',5-TriCB	18 + 30		2.65
2,3,3'-TriCB	20 + 28	2.25	3.14
2,3,4-TriCB	21 + 33	1.16	2.00



Analyte	IUPAC Number (multiple numbers indicate coelution)	6/20/03 Lab Blank in pg/L	7/18/03 Lab Blank in pg/L
2,3,4'-TriCB	22		1.00
2,3',5-TriCB	26 + 29	0.317	
2,4',5-TriCB	31	1.76	2.72
2,4',6-TriCB	32	0.605	0.83
2,2',3,3'-TeCB	40 + 41 + 71	0.972	
2,2',3,5'-TeCB	44 + 47 + 65	5.35	3.74
2,2',3,6-TeCB	45 + 51	1.45	
2,2',3,6'-TeCB	46	0.332	
2,2',4,5-TeCB	48	0.481	
2,2',4,5'-TeCB	49 + 69	1.15	1.08
2,2',5,5'-TeCB	52	1.78	3.02
2,3, 3',6-TeCB	59 + 62 + 75	0.353	
2,3,4,5-TeCB	61 + 70 + 74 + 76	2.45	2.98
2,3',4,4'-TeCB	66	0.945	
2,3',4,5'-TeCB	68	0.712	
3,3',4,4'-TeCB	77		0.657
2,2',3,3',4-PeCB	82	0.226	
2,2',3,3',5-PeCB	83 + 89	0.949	0.910
2,2',3,3',6-PeCB	84	0.710	
2,2',3,4,4'-PeCB	85 + 116 + 117	0.312	
2,2',3,4,5-PeCB	86 + 87 + 97 + 108 + 119 + 125		2.09
2,2',3,4,6-PeCB	88 + 91	0.404	
2,2',3,4,5'-PeCB	90 + 101 + 113	1.71	2.46
2,2',3,5,6-PeCB	93 + 95 + 98 + 100 + 102	1.98	1.96
2,3,3',4,5-PeCB	107 + 124	0.321	
2,3,3',4,6-PeCB	110 + 115	1.57	1.93
2,3',4,4,5-PeB	118	1.04	2.36
3,3',4,4,5-PeB	126	0.340	
2,2',3,3',4,4'-HxCB	128 + 166	0.408	
2,2',3,3',4,5-HxCB	129 + 138 + 160 + 163		3.54
2,2',3,3',4,5'-HxCB	130	0.303	
2,2',3,3',4,6'-HxCB	132		1.38
2,2',3,3',5,6'-HxCB	135 + 151 + 154		1.61
2,2',3,3',6,6'-HxCB	136	0.256	0.437



Analyte	IUPAC Number (multiple numbers indicate coelution)	6/20/03 Lab Blank in pg/L	7/18/03 Lab Blank in pg/L
2,2',3,4,4',6'-HxCB	139 + 140	0.195	
2,2',3,4,5,5'-HxCB	141		1.10
2,2',3,4',5,5'-HxCB	146	0.266	
2,2',3,4',5,6'-HxCB	147 + 149	1.20	
2,2',4,4',5,5'-HxCB	153 + 168	1.14	
2,2',4,4',6,6'-HxCB	155	0.183	
2,3,3',4,4',5'-HxCB	156 + 157	0.968	0.494
2,3,3',4,4',6'-HxCB	158	0.368	
2,3,3',4',5',6'-HxCB	164		0.292
2,2',3,3',4,4',5'-HpCB	170	0.435	
2,2',3,3',4,5,6'-HpCB	174		1.73
2,2',3,3',4,6,6'-HpCB	176		0.262
2,2',3,3',5,6,6'-HpCB	179		0.294
2,2',3,4,4',5,5'-HpCB	180 + 193		3.04
2,2',3,4,4',5',6'-HpCB	183 + 185		0.866
2,2',3,4',5,5',6'-HpCB	187		2.09
2,3,3,4,4',5,5'-HpCB	189	0.530	0.203
2,2',3,3',4,4',5,5'-OxCB	194	0.605	
2,2',3,3',4,5',6,6'-OxCB	201	0.234	
2,2',3,3',4,4',5,5',6,6'-DeCB	209		0.817

Two ambient field blank samples (AN-D14TB-030515 and AN-D16TB-030515) were submitted to the laboratory with the samples from wells D14 and D16. No ambient field blank was submitted with the sample from the City's "Electric" well. The laboratory also prepared a sampling pump tubing rinse blank (AN-D14RB-030513) by passing high-purity water through brand new, cleaned tubing prior to it being used for sample collection from wells D14 and D16. The "Electric" well sample was collected directly from a tap at the wellhead without the use of tubing.

Blank results were applied to samples in the following order:

1. Detected in laboratory method blank (B). Results were applied to all samples;



2. Detected in tubing rinse blank results (B1). Results were applied to samples collected using pumps with tubing (wells D14 and D16); and
3. Detected in specific ambient field blank result associated with field samples (B2). Ambient blank AN-D14TB results were applied to samples collected from well D14 and results for AN-D16TB were applied to samples collected from well D16.

Sample results were qualified as non-detected (UB) when concentrations were less than five times those reported in one or more of the blanks. In cases where ion ratios for analytes detected in the laboratory method blank did not meet criteria, blank results were applied to samples if ion ratios were within 10 percent of the criteria.

Cleanup Standard Recovery

Recovery of one cleanup recovery standard ($^{13}\text{C}_{12}$ - 2,4,4'-TriCB) was below the method-specified criterion for sample AN-EWGW-030612. Affected results were qualified as estimated (J) and may exhibit a low bias.

Labeled Surrogate Compound Recovery

The labeled surrogate compound recoveries were outside method-specified QC limits for the following samples:

Sample	Surrogate Compound
AN-D66GW-030515	$^{13}\text{C}_{12}$ - 2-MoCB
AN-D64GW-030515	$^{13}\text{C}_{12}$ - 4-MoCB
AN-EWGW-030612	$^{13}\text{C}_{12}$ - 2,2'-DiCB $^{13}\text{C}_{12}$ - 4,4'-DiCB $^{13}\text{C}_{12}$ - 2,2',6-TriCB $^{13}\text{C}_{12}$ - 2,2'6,6'-TeCB $^{13}\text{C}_{12}$ - 2,2'-DiCB



Detected results for affected congeners in samples AN-D66GW-030515 and AN-EWGW-030612 listed above have been qualified as estimated (J). For sample AN-D64GW-030515, the surrogate was not recovered and affected results are qualified as Not Quantifiable (NQ).

Compound Identification Criteria

The signal to noise ratio for reported analytes was greater than 2.5. Relative retention times of reported analytes compared to labeled standards were within method-specified criteria. Ion signals for each reported compound maximized within ± 2 scans. Results for samples that did not meet ion abundance relative ratios were qualified UR and were considered to be undetected.

Field Replicate Samples

Blind field duplicate samples were submitted to the laboratory with each sample. Field replicate results are presented below:

Sample No.	Sample Result Total PCBs in pg/L	Replicate Result Total PCBs in pg/L
AN-D14GW-030515	13.8	9.29
AN-D16GW-030515	19.6	69.9
AN-EWGW-030612	13.9	11.9

The apparent difference between sample AN-D16GW-030515 and its replicate is not particularly significant at these low quantitation levels. Sample AN-D16GW-030515 and its replicate were analyzed in different laboratory batches, and therefore, results from two different blanks were used to qualify data. The primary differences were due to the presence of pentachlorobiphenyl congeners in the replicate sample that were qualified as undetected in the original sample.



Data Qualifiers

The following data qualifiers were applied to results by the laboratory during the validation process. More than one qualifier may be applied to analytical results.

- U** - The analyte was not detected. The associated value is the estimated detection limit.
- J** - The analyte was detected and positively identified. The associated value is an estimated concentration because of minor exceedances of quality control criteria.
- B** - The analyte was detected in both the laboratory method blank and the sample. The sample concentration was less than five times the amount reported in the blank.
- B1** - The analyte was detected in both the sample tubing rinse blank and the sample. The sample concentration was less than five times the amount reported in the blank.
- B2** - The analyte was detected in both the ambient sample blank and the sample. The sample concentration was less than five times the amount reported in the blank.
- R** - Ion abundance ratios did not meet criteria for compound identification and the analyte is considered undetected. Results may be due to interfering compounds eluting within a PCB retention time window or an interference coeluting with a PCB congener.
- NQ** - The result is not quantifiable. It cannot be determined whether the analyte is present.

Attachments:

Analytical Data Report Forms, AXYS Analytical Services, Inc.

**ANALYTICAL DATA REPORT FORMS
AXYS ANALYTICAL SERVICES, INC.**

ANCHOR ENVIRONMENTAL

AQUEOUS SAMPLES

PCB CONGENERS ANALYSIS

AXYS METHOD: MLA-010

Data Package:

9952

L5819 -7

L5850 -1 to -8

Prepared for:

James Keithly

Anchor Environmental

1423-3rd Avenue, Suite 300

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USA

Prepared by:

AXYS Analytical Services Ltd.

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Sidney, British Columbia V8L 3S8

CANADA

Contact: Dr. M.C. Hamilton

SEPTEMBER 2003

ANCHOR ENVIRONMENTAL
Aqueous Samples

PCB CONGENERS ANALYSIS
AXYS Method: MLA-010
9952: L5819- 7
L5850-1 to 8

Project Name: KAISER

16 September, 2003

NARRATIVE:

This narrative describes the analysis of nine aqueous samples for the determination of polychlorinated biphenyl (PCB) congeners and PCB Aroclor equivalents.

SAMPLE RECEIPT AND STORAGE

Samples were received on the 8th and 16th of May 2003. Details of sample conditions upon receipt are provided on the Sample Receiving Record form included in this data package. The samples were stored at 4°C prior to extraction and analysis. Issues regarding client sample ID's are itemized below:

- Sample labels, AN-D14GW-030515, and, AN-D16GW-030515, did not agree with the sample ID listed on the chain of custody (COC), AN-D14-030515, and, AN-D16-030515 respectively. Anchor Environmental designated the sample ID on the bottles to be correct version of the client sample identifier. The relevant e-mail correspondence is included in the Data Package.

SAMPLE PREPARATION

Sample AN-D14-030513 (AXYS ID L5819-7) was prepared by combining 500ml from each of samples RINSEATE SILICONE, and, RINSEATE TEFLON (AXYS IDs L5819-1 and L5819-2 respectively). These rinseate samples were in turn prepared at AXYS as described on the Sample Preparation Records included in this Data Package. AXYS ID L5819-7 was given the identification "AN-D14-030513" based on instructions from Anchor Environmental included in this Data Package.

Approximately 1L of the water samples were spiked with labeled quantification standards and liquid-liquid extracted with dichloromethane. The extracts were cleaned up using acid base silica, Florisil and alumina chromatographic columns. The final extracts were reduced in volume to 20µL and spiked with 2µL of the labelled recovery (internal) standard for a final volume of 22µL; 1 µL was injected.

Analyses were conducted in two batches named CLW9139 and CLWG9761, both of which contained a blank sample and a laboratory generated Ongoing Precision and Recovery (OPR) sample.

ANALYSIS

Samples and QC samples were analyzed in two batches. The composition of the batch is shown on the Batch list forms included in this data package.

Analysis procedures were in general accordance with 'USEPA Method 1668, Revision A: Chlorinated Biphenyl Congeners in Water, Soil, Sediment and Tissue by HRGC/HRMS' as documented in Axys method MLA-010 Rev. 4, a list of modifications to USEPA method 1668A is included in this data package. The PCB Aroclor equivalent concentrations were determined from the summed concentrations of specific PCB congeners, characteristic of the Aroclor formulation, multiplied by an empirically determined quantification factor, see Table 1.

Table 1. The following PCB congener sets and empirical factors were used:

Aroclor	PCB congeners	Quantification factor
1221	1, 3, 8	1.4
1232	1, 3, 30/18	3.4
1242	8, 30/18, 31, 28/20	3.0
1248	69/49, 44/47/65, 66	6.1
1254	83/99, 108/119/86/97/125/87	8.0
1260	183/185, 180/193, 170	5.0

Axys Analytical Services Ltd. follows the convention that a single Aroclor is reported only when its unique Aroclor pattern can be identified; otherwise, Aroclors are quantified and reported as a mixture of the Aroclors 1242, 1254, & 1260.

Instrumental analysis was conducted by high-resolution gas chromatography/high resolution mass spectrometry (HRGC/HRMS) using an AUTOSPEC ULTIMA high resolution MS equipped with an HP 6890 gas chromatograph, a CTC auto-sampler, and an Alpha data system running Micromass software. An SPB-Octyl (30 m, 0.25 mm i.d., 0.25 µm film thickness) chromatography column was coupled directly to the MS source. The MS was operated at a mass resolution of 10000 (static) in the electron impact ionization mode using multiple ion detection, acquiring at least two ions for each target and surrogate compound.

Target concentrations were determined by isotope dilution or internal standards using OPUSQUAN software.

Sample specific detection limits (SDLs) were determined from the analysis data by converting the average noise signal to a concentration following the same procedures used to convert target peak responses to concentrations.

Homologue totals were obtained by summing the concentration of all congeners with values greater than their detection limits. Where observed peaks failed the ion abundance ratio, the presence of the compound could not be confirmed and the peak was flagged as 'K'. These 'K' concentrations were not included in the homologue totals and toxic equivalency (TEQ) calculations. TEQs have been calculated using WHO 1998 TEFs.

4. REPORTING CONVENTIONS

The Axys contract number assigned for internal tracking was 9952. Samples were assigned a unique laboratory identifier of the form LXXXX-X, where 'X' are numerals; all data reports reference this unique Axys ID plus the client sample identifier.

Laboratory qualifier flags that may appear in this data package:

- Cx = co-elutes with indicated congener, data is given under the lowest IUPAC designated congener in the group. Where 'x' denotes the IUPAC number of the lowest numerical designated congener.
- E = exceeds calibrated linear range, see dilution data
- K = identifies a target that could not be confirmed by virtue of not satisfying all method required criteria, the reported value may be interpreted as an estimated maximum analyte concentration
- NQ = data not quantifiable
- U = identifies a compound that was not detected
- V = surrogate recovery is not within method control limits

Results are reported in concentration units of picograms per liter (pg/L.).

5. QA/QC NOTES

Sample and QC samples were analyzed in a single batch carried intact through the entire analytical process. The sample data were reviewed and evaluated in relation to the batch QC samples. All results fell within the quality acceptance specifications of the method and the contract, with the following exceptions:

CLWG9761

- Percent recoveries of some labeled standards were slightly below the method control limit in sample listed in the following table. It is AXYS experience that quantification was not impacted and the data are considered unaffected.

Sample	Labelled PCB surrogate affected
L5850-5	1
L5850-6	3
L5850-7	4, 15, 19, 54, 28
WG9761-101	4, 19

- Surrogate recoveries of PCB 1L in sample L5850-6 (AN-D64GW-030515) indicate that mono-substituted PCBs were not recovered from the sample. Data were determined to be not quantifiable for mono-substituted PCBs and have been flagged as NQ.
- PCB's 7 and 11 were detected in the Lab Blank at concentrations slightly above the method's expectations. The blank levels for these congeners should be taken into account when evaluating data.

CLWG9139

- PCB's 44/47/65, 45/51, and 68 were detected in the Lab Blank at concentrations slightly above the method's expectations. The blank levels for these congeners should be taken into account when evaluating data.

ANALYTICAL DISCUSSION

Sample analyte concentrations are not blank corrected.

DATA PACKAGE

Included in the data package is the narrative and supporting documentations, sample data, laboratory blanks, OPR and instrument QC reports.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Signed: Jesse Kline, B.Sc., Project Chemist

17-SEP-03
Date Signed

**Analysis of PCB Congeners
By USEPA Method 1668A**

Samples are spiked with isotopically labelled surrogate standards, solvent extracted and cleaned up on a series of chromatographic columns which may include silica, Florisil, alumina and gel permeation columns. The final extract is spiked with isotopically labelled recovery (internal) standards prior to instrumental analysis. Analysis of the extract is performed on high-resolution mass spectrometer (HRMS) coupled to a high-resolution gas chromatograph (HRGC) equipped with a SPB-Octyl chromatography column (30 m, 0.25 mm i.d., 0.25 µm film thickness). Resolution of the PCB 156/157 coelution may be achieved by high resolution GC/MS using a DB-1 chromatography column (30 m, 0.25 mm id, 0.25 µm film thickness). The method is carried out in accordance with the protocols described in EPA Method 1668A, with the following modifications.

Method Modifications:

Section 2.1.3, 12.4, 11.5, 12.3

To avoid any disproportionate loss of the labeled versus native PCB congeners (some PCB congeners are highly volatile) during the equilibration and grinding steps the sample is mixed with sodium sulfate, dried to produce a free flowing powder (minimum thirty minutes), ground manually, and spiked with the labeled compounds.

The extracting solvent for tissues is changed to dichloromethane to minimize loss of volatile components.

To avoid interference in the mono- and di-chlorinated congeners from a toluene by-product occasionally formed, the extraction solvent for solids is changed to dichloromethane.

Section 7.12, 7.13, 9.0, 11.0

The concentration of the labelled toxics/LOC and the clean-up standard spiking solutions is 100 ng/mL and the sample spiking volume is 20 µL. The resulting final concentrations in the extracts are as specified in the method.

Section 12.4.9

To prevent excessive loss of volatile compounds in the extract used for PCB determination, the gravimetric lipid determination is performed on a subsample of the total extract. If alignment of the lipid determination with a particular procedure is required (i.e. solvent other than dichloromethane), the percent lipid is determined as a separate analysis using another subsample of tissue.

Table 2, page 77 and page 78

For consistency with procedures for similar congeners and general method instructions, the retention time references used for PCB 74 and PCB 92 are ¹³C-PCB 81 and ¹³C-PCB 104 respectively.

Table 2, page 80, page 81

For consistency with procedures for other labelled compounds, the RT windows used for ¹³C-PCB 156/157 and ¹³C-PCB 169 are 20 seconds. For consistency with general method instructions those hexachlorinated congeners not present in the toxic/LOC/window defining mix are quantified using the average response of all labeled compounds (155L/156L/157L/167L/169L) for that level of chlorination.

Table 3, page 87

The concentrations of native PCBs in the combined 209 congener calibration solution are 25, 50 and 75 µg/mL respectively, as described in Section 7.10.2.1.2.

Table 3, page 93

The labeled compound acceptance ranges for PCBs 1L and 3L in OPRs, IPRs, and samples have been lowered to 20% in recognition of the higher volatility of these compounds.

Table 8, page 99

To minimize the possibility of interference, the M+4 and M+6 ions are used for quantification of ¹³C-PCB 209. The theoretical ion abundance ratio is 1.16. The QC limit is 0.99-1.33.

Section 17.0

Conc_i - the concentrations of target analytes, and the labelled compound concentrations and recoveries, are calculated using the equations below. These procedures are equivalent to those described in the method but are more direct.

$$Conc_i = \frac{A_i}{A_{si}} \times \frac{M_{si}}{RRF_{i,si}} \times \frac{1}{M_x}$$

- where *A_i* = summed areas of the primary and secondary m/z's for the analyte peak of interest (compound *i*)
- A_{si}* = summed areas of the primary and secondary m/z's for the labelled surrogate peak used to quantify *i*)
- M_x* = mass of sample taken for analysis
- M_{si}* = mass of labelled surrogate (compound *si*) added to sample as calculated by the concentration of standard spiked (pg/mL) multiplied by the volume spiked (mL)
- RRF_{i,si}* = mean relative response factor of *i* to *si* from the five-point calibration range and defined individually as:

$$\frac{A_i}{A_{si}} \times \frac{M_{si}}{M_i}$$

Calculation of Surrogate Standard Concentrations and Percent Recoveries:
 Concentrations of surrogate standards are calculated using the following equation:

$$Conc_{si} = \frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{RRF_{si,rs}}$$

and, the percent recoveries of the surrogate standards are calculated using the following equation:

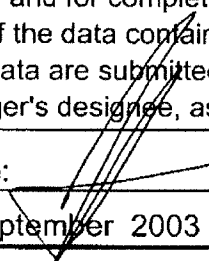
$$\% \text{Recovery} = \frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{RRF_{si,rs}} \times \frac{1}{M_{si}} \times 100$$

where A_{rs} and A_{si} are the summed peak areas (from the primary and secondary m/z channels) of recovery standard and labelled surrogate added to the sample;
 M_{rs} and M_{si} are the masses of recovery standard and labelled surrogate added to the sample, and;
 $RRF_{si,rs}$ is the mean relative response factor of the labelled surrogate to the recovery standard as determined by the five-point calibration range and defined individually as:

$$\frac{A_{si}}{A_{rs}} \times \frac{M_{rs}}{M_{si}}$$

James Keithly
Anchor Environmental
1423-3rd Avenue, Suite 300
Seattle WA 98101

COVER PAGE - PCB CONGENERS ANALYSIS

Lab Name: AXYS Analytical Services Ltd.	Contract No: 9952
Project No: KAISER	AXYS Methods: MLA-010
Industrial Category: NA	Program: Aqueous Samples
Client Sample Number	Lab Sample Identification
LAB BLANK	WG9139-101
OPR	WG9139-102
AN-D14TB-030515	L5850-1
AN-D16TB-030515	L5850-2
AN-D14GW-030515	L5850-3
AN-D16GW-030515	L5850-4
AN-EW50GW-030612	L5850-8
LAB BLANK	WG9761-101
OPR	WG9761-102
AN-D14RB-030513	L5819-7
AN-D66GW-030515	L5850-5
AN-D64GW-030515	L5850-6
AN-EWGW-030612	L5850-7
Comments: Narrative Report is attached. (yes)	
I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the Narrative Report. Release of the data contained in this hardcopy data package (and in the data submitted on magnetic media, if data are submitted on magnetic media), has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.	
Signature: 	Name: Jesse Kline
Date: September 2003	Title: Project Chemist

**CORRELATION BETWEEN CLIENT SAMPLE NUMBERS AND
AXYS SAMPLE LOGIN NUMBERS**

Client Sample Number	AXYS Sample Identification
AN-D14RB-030513	L5819-7
AN-D14TB-030515	L5850-1
AN-D16TB-030515	L5850-2
AN-D14GW-030515	L5850-3
AN-D16GW-030515	L5850-4
AN-D66GW-030515	L5850-5
AN-D64GW-030515	L5850-6
AN-EWGW-030612	L5850-7
AN-EW50GW-030612	L5850-8

SAMPLE NO. AN-D14RB-030513

Tubing Blank

AXYS METHOD MLA-010 Rev 04
1668A-S1_209

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D14RB-030513

Sample Collection: N/A

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952
Matrix: AQUEOUS
Sample Receipt Date: N/A
Extraction Date: 18-Jul-2003
Analysis Date: 25-Jul-2003
Extract Volume (µL): 22
Injection Volume (µL): 1.0
Dilution Factor: N/A
Concentration Units : pg/L

Lab Sample ID: L5819-7
Sample Size: 0.979 L
Initial Calibration Date: 19-Jun-2003
Instrument ID: HR GC/MS
GC Column ID: SPB-OCTYL
Sample Data Filename: PB3C_393 S:4
Blank Data Filename: PB3C_392 S:7
Cal. Ver. Data Filename: PB3C_393 S:1

Time: 0:52:37

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		K	7.98 UR	0.912	2.58	1.000
3 - MoCB	2		K	4.54 UR	1.13	2.54	0.988
4 - MoCB	3			9.67	1.08	2.91	1.000
2,2' - DiCB	4			6.50	1.64	1.39	1.000
2,3 - DiCB	5		U		1.28		
2,3' - DiCB	6		K	2.98 UR	1.18	0.95	1.175
2,4 - DiCB	7			7.66	1.17	1.35	1.158
2,4' - DiCB	8			7.27	1.11	1.48	1.207
2,5 - DiCB	9		K	1.97 UR	1.17	0.76	1.144
2,6 - DiCB	10		U		1.21		
3,3' - DiCB	11			15.1	1.29	1.51	0.970
3,4 - DiCB	12	12 + 13	CK	1.92 UR	1.26	0.61	0.984
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		1.26		
4,4' - DiCB	15			3.43	1.61	1.41	1.000
2,2',3 - TriCB	16			2.31	0.445	1.06	1.166
2,2',4 - TriCB	17			2.57	0.383	1.02	1.138
2,2',5 - TriCB	18	18 + 30	C	4.86	0.312	1.05	1.115
2,2',6 - TriCB	19			1.73	0.433	0.91	1.002
2,3,3' - TriCB	20	20 + 28	C	4.56	0.280	1.01	0.848

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9761AD2_1.xls, S2

Approved by: Kawsthorpe QA/QC Chemist

28-08-2003
dd-mm-yyyy

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG [†]	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	C	3.82	0.271	1.10	0.856
2,3,4' - TriCB	22			1.33	0.311	1.08	0.872
2,3,5 - TriCB	23		U		0.288		
2,3,6 - TriCB	24		K	0.385 <i>UR</i>	0.267	1.44	1.158
2,3',4 - TriCB	25		K	0.649 <i>UR</i>	0.253	1.52	0.825
2,3',5 - TriCB	26	26 + 29	C	0.623	0.289	0.92	1.301
2,3',6 - TriCB	27		K	0.377 <i>UR</i>	0.261	1.34	1.152
2,4,4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31			4.15	0.278	1.19	0.837
2,4',6 - TriCB	32			1.28	0.270	1.16	1.198
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34		U		0.293		
3,3',4 - TriCB	35		U		0.299		
3,3',5 - TriCB	36		U		0.290		
3,4,4' - TriCB	37			1.33	0.318	1.04	1.001
3,4,5 - TriCB	38		U		0.302		
3,4',5 - TriCB	39		U		0.287		
2,2',3,3' - TeCB	40	40 + 41 + 71	C	1.64	0.158	0.83	1.336
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		K	0.758 <i>UR</i>	0.166	0.98	1.311
2,2',3,5 - TeCB	43		U		0.182		
2,2',3,5' - TeCB	44	44 + 47 + 65	C	48.6	0.146	0.79	1.287
2,2',3,6 - TeCB	45	45 + 51	C	26.4	0.156	0.81	1.149
2,2',3,6' - TeCB	46		K	0.242 <i>UR</i>	0.188	0.45	1.161
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48		K	0.563 <i>UR</i>	0.157	1.05	1.273
2,2',4,5' - TeCB	49	49 + 69	C	2.72	0.137	0.78	1.259
2,2',4,6 - TeCB	50	50 + 53	C	0.669	0.150	0.86	1.110
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52			4.03	0.155	0.86	1.234
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54		K	0.169 <i>UR</i>	0.129	0.30	1.001
2,3,3',4 - TeCB	55		U		0.533		
2,3,3',4' - TeCB	56		K	0.788 <i>UR</i>	0.558	1.08	0.904
2,3,3',5 - TeCB	57		U		0.516		
2,3,3',5' - TeCB	58		U		0.518		
2,3,3',6 - TeCB	59	59 + 62 + 75	C K	0.282 <i>UR</i>	0.120	2.16	1.302
2,3,4,4' - TeCB	60		U		0.551		
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	C	4.06	0.519	0.85	0.875
2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3,4',5 - TeCB	63		U		0.520		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4',6 - TeCB	64		K	1.19 <i>UR</i>	0.116	0.63	1.348
2,3,5,8 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		K	2.32 <i>UR</i>	0.531	0.61	0.885
2,3',4,5 - TeCB	67		U		0.461		
2,3',4,5' - TeCB	68			19.4	0.471	0.75	0.831
2,3',4,8 - TeCB	69	49 + 69	C49				
2,3',4',5 - TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',8 - TeCB	71	40 + 41 + 71	C40				
2,3',5,5' - TeCB	72		U		0.495		
2,3',5',8 - TeCB	73		U		0.117		
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',8 - TeCB	75	59 + 62 + 75	C59				
2',3,4,5 - TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB	77		K	0.748 <i>UR</i>	0.629	1.31	1.001
3,3',4,5 - TeCB	78		U		0.592		
3,3',4,5' - TeCB	79		U		0.475		
3,3',5,5' - TeCB	80		U		0.517		
3,4,4',5 - TeCB	81		U		0.605		
2,2',3,3',4 - PeCB	82		U		0.338		
2,2',3,3',5 - PeCB	83	83 + 99	C	1.80	0.295	1.76	1.261
2,2',3,3',6 - PeCB	84		K	0.832 <i>UR</i>	0.331	2.48	1.164
2,2',3,4,4' - PeCB	85	85 + 116 + 117	C K	0.727 <i>UR</i>	0.249	0.97	1.310
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	2.21	0.249	1.34	1.284
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	C K	0.446 <i>UR</i>	0.285	2.04	1.154
2,2',3,4,6' - PeCB	89		U		0.309		
2,2',3,4',5 - PeCB	90	90 + 101 + 113	C K	3.25 <i>UR</i>	0.255	1.87	1.238
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92			0.647	0.297	1.35	0.853
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	C U		0.274		
2,2',3,5,8' - PeCB	94		U		0.296		
2,2',3,5',8 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,8' - PeCB	96		U		0.202		
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,8 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',8 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,8' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',8 - PeCB	103		U		0.250		
2,2',4,6,8' - PeCB	104		U		0.221		
2,3,3',4,4' - PeCB	105			1.82	0.436	1.52	1.000
2,3,3',4,5 - PeCB	106		U		0.419		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5 - PeCB	107	107 + 124	C U		0.428		
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6 - PeCB	109		U		0.385		
2,3,3',4',6 - PeCB	110	110 + 115	C K	2.72 <i>UR</i>	0.215	1.27	1.317
2,3,3',5,5' - PeCB	111		U		0.222		
2,3,3',5,6 - PeCB	112		U		0.218		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114		U		0.413		
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3,4,5,6 - PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6 - PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5 - PeCB	118			3.01	0.397	1.73	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120		U		0.217		
2,3',4,5',6 - PeCB	121		U		0.212		
2',3,3',4,5 - PeCB	122		U		0.464		
2',3,4,4',5 - PeCB	123		U		0.408		
2',3,4,5,5' - PeCB	124	107 + 124	C107				
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5 - PeCB	126		U		0.514		
3,3',4,5,5' - PeCB	127		U		0.435		
2,2',3,3',4,4' - HxCB	128	128 + 166	C	0.653	0.260	1.32	0.959
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	C	4.76	0.256	1.39	0.929
2,2',3,3',4,5' - HxCB	130		U		0.333		
2,2',3,3',4,6 - HxCB	131		U		0.308		
2,2',3,3',4,6' - HxCB	132		K	1.34 <i>UR</i>	0.318	1.82	1.174
2,2',3,3',5,5' - HxCB	133		U		0.301		
2,2',3,3',5,6 - HxCB	134	134 + 143	C U		0.309		
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	C	1.80	0.113	1.33	1.103
2,2',3,3',6,6' - HxCB	136			0.842	0.0872	1.08	1.024
2,2',3,4,4',5 - HxCB	137		U		0.286		
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6 - HxCB	139	139 + 140	C U		0.278		
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141			1.02	0.293	1.35	0.904
2,2',3,4,5,6 - HxCB	142		U		0.319		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5',6 - HxCB	144		K	0.347 <i>UR</i>	0.117	0.55	1.121
2,2',3,4,6,6' - HxCB	145		U		0.0879		
2,2',3,4',5,5' - HxCB	146			0.718	0.270	1.08	0.885
2,2',3,4',5,6 - HxCB	147	147 + 149	C	3.86	0.280	1.41	1.133
2,2',3,4',5,6' - HxCB	148		U		0.118		
2,2',3,4',5',6 - HxCB	149	147 + 149	C147				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',8,8' - HxCB	150		U		0.0836		
2,2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6' - HxCB	152		U		0.0816		
2,2',4,4',5,5' - HxCB	153	153 + 168	C	4.43	0.232	1.34	0.899
2,2',4,4',5,6' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6' - HxCB	155		K	0.146 UR	0.0754	3.47	1.001
2,3,3',4,4',5 - HxCB	156	156 + 157	C	1.01	0.279	1.42	1.000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6 - HxCB	158		K	0.690 UR	0.211	1.63	0.938
2,3,3',4,5,5' - HxCB	159		U		0.228		
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB	161		U		0.219		
2,3,3',4',5,5' - HxCB	162		U		0.226		
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB	164		K	0.326 UR	0.230	1.43	0.921
2,3,3',5,5',6 - HxCB	165		U		0.239		
2,3,4,4',5,6 - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167		K	0.477 UR	0.206	1.63	1.001
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		0.386		
2,2',3,3',4,4',5 - HpCB	170			1.06	0.0793	0.94	0.937
2,2',3,3',4,4',6 - HpCB	171	171 + 173	C K	0.926 UR	0.0765	1.79	1.162
2,2',3,3',4,5,5' - HpCB	172		K	0.163 UR	0.0778	0.88	0.898
2,2',3,3',4,5,6 - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6' - HpCB	174			2.03	0.0706	0.94	1.133
2,2',3,3',4,5',6 - HpCB	175		U		0.0683		
2,2',3,3',4,6,6' - HpCB	176		K	0.219 UR	0.0520	0.69	1.033
2,2',3,3',4',5,6 - HpCB	177		K	0.832 UR	0.0736	1.48	1.145
2,2',3,3',5,5',6 - HpCB	178		K	0.338 UR	0.0707	0.51	1.085
2,2',3,3',5,6,6' - HpCB	179		K	0.582 UR	0.0505	0.76	1.009
2,2',3,4,4',5,5' - HpCB	180	180 + 193	C	3.09	0.0618	0.99	0.911
2,2',3,4,4',5,6 - HpCB	181		U		0.0691		
2,2',3,4,4',5,6' - HpCB	182		U		0.0687		
2,2',3,4,4',5',6 - HpCB	183	183 + 185	C	1.30	0.0680	1.01	1.126
2,2',3,4,4',6,6' - HpCB	184		K	0.142 UR	0.0477	0.52	1.025
2,2',3,4,5,5',6 - HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6' - HpCB	186		U		0.0524		
2,2',3,4',5,5',6 - HpCB	187			1.87	0.0635	0.91	1.109
2,2',3,4',5,6,6' - HpCB	188		K	0.081 UR	0.0506	0.56	1.001
2,3,3',4,4',5,5' - HpCB	189			0.511	0.0409	1.09	1.000
2,3,3',4,4',5,6 - HpCB	190		K	0.298 UR	0.0585	0.23	0.947
2,3,3',4,4',5',6 - HpCB	191		K	0.235 UR	0.0568	1.70	0.918
2,3,3',4,5,5',6 - HpCB	192		U		0.0603		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194		K	0.603 <i>UR</i>	0.0555	0.72	0.991
2,2',3,3',4,4',5,6 - OcCB	195		K	0.240 <i>UR</i>	0.0591	0.37	0.946
2,2',3,3',4,4',5,6' - OcCB	196		K	0.270 <i>UR</i>	0.0820	1.13	0.916
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	C K	0.249 <i>UR</i>	0.0612	0.75	1.045
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	C K	0.444 <i>UR</i>	0.0826	0.68	1.114
2,2',3,3',4,5,5',6' - OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6' - OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6' - OcCB	201			0.140	0.0615	0.99	1.022
2,2',3,3',5,5',6,6' - OcCB	202		K	0.266 <i>UR</i>	0.0651	0.51	1.000
2,2',3,4,4',5,5',6 - OcCB	203		K	0.493 <i>UR</i>	0.0761	0.66	0.920
2,2',3,4,4',5,6,6' - OcCB	204			0.304	0.0628	0.79	1.038
2,3,3',4,4',5,5',6 - OcCB	205		K	0.465 <i>UR</i>	0.0459	1.08	1.000
2,2',3,3',4,4',5,5',6 - NoCB	206		K	0.653 <i>UR</i>	0.541	0.52	1.000
2,2',3,3',4,4',5,6,6' - NoCB	207		U		0.439		
2,2',3,3',4,5,5',6,6' - NoCB	208		U		0.467		
2,2',3,3',4,4',5,5',6,6' - DeCB	209			1.02	0.0600	0.67	1.001

(1) C = co-eluting congener; U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

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Form 2
PCB CONGENER ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: N/A

Contract No.: 9952

Lab Sample ID: L5819-7

Matrix: AQUEOUS

Sample Size: 0.979 L

Sample Receipt Date: N/A

Initial Calibration Date: 19-Jun-2003

Extraction Date: 18-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 0:52:37

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_393 S:4

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_392 S:7

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_393 S:1

Concentration Units : pg absolute

LABELED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2 - MoCB	1L			2000	483	24.2	3.19	0.720
13C12-4 - MoCB	3L			2000	578	28.9	3.09	0.858
13C12-2,2' - DiCB	4L			2000	773	38.6	1.57	0.874
13C12-4,4' - DiCB	15L			2000	766	38.3	1.54	1.253
13C12-2,2',6 - TriCB	19L			2000	855	42.7	1.06	1.071
13C12-3,4,4' - TriCB	37L			2000	1110	55.3	1.03	1.091
13C12-2,2',6,6' - TeCB	54L			2000	880	44.0	0.81	0.811
13C12-3,3',4,4' - TeCB	77L			2000	1300	65.1	0.76	1.396
13C12-3,4,4',5 - TeCB	81L			2000	1310	65.4	0.77	1.372
13C12-2,2',4,6,6' - PeCB	104L			2000	1050	52.6	1.53	0.808
13C12-2,3,3',4,4' - PeCB	105L			2000	1600	80.0	1.60	1.200
13C12-2,3,4,4',5 - PeCB	114L			2000	1600	80.2	1.56	1.179
13C12-2,3',4,4',5 - PeCB	118L			2000	1660	82.8	1.57	1.161
13C12-2',3,4,4',5 - PeCB	123L			2000	1650	82.5	1.58	1.151
13C12-3,3',4,4',5 - PeCB	126L			2000	1570	78.3	1.58	1.300
13C12-2,2',4,4',6,6' - HxCB	155L			2000	1350	67.4	1.30	0.786
13C12-2,3,3',4,4',5 - HxCB	156L	156L + 157L	C	4000	3280	82.1	1.30	1.107
13C12-2,3,3',4,4',5' - HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5' - HxCB	167L			2000	1690	84.7	1.28	1.077
13C12-3,3',4,4',5,5' - HxCB	169L			2000	1510	75.6	1.29	1.191
13C12-2,2',3,3',4,4',5 - HpCB	170L			2000	1730	86.3	1.07	0.897
13C12-2,2',3,4,4',5,5' - HpCB	180L			2000	1750	87.6	1.07	0.873
13C12-2,2',3,4',5,6,6' - HpCB	188L			2000	1680	83.8	1.09	0.713
13C12-2,3,3',4,4',5,5' - HpCB	189L			2000	1720	85.8	1.05	0.959
13C12-2,2',3,3',5,5',6,6' - OcCB	202L			2000	1950	97.3	0.94	0.818
13C12-2,3,3',4,4',5,5',6 - OcCB	205L			2000	1700	84.9	0.92	1.009
13C12-2,2',3,3',4,4',5,5',6 - NoCB	206L			2000	1700	84.9	0.80	1.044
13C12-2,2',3,3',4,5,5',6,6' - NoCB	208L			2000	1760	87.9	0.83	0.949
13C12-2,2',3,3',4,4',5,5',6,6' - DeCB	209L			2000	1720	86.1	1.19	1.075

Form 2 (Continued)
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D14RB-030513

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: N/A

Contract No.: 9952

Lab Sample ID: L5819-7

Matrix: AQUEOUS

Sample Size: 0.979 L

Sample Receipt Date: N/A

Initial Calibration Date: 19-Jun-2003

Extraction Date: 18-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 0:52:37

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_393 S:4

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_392 S:7

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_393 S:1

Concentration Units : pg absolute

CLEAN-UP STANDARD	IUPAC NO. ¹	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2,4,4' - TriCB	28L		2000	1090	54.6	1.04	0.925
13C12-2,3,3',5,5' - PeCB	111L		2000	1510	75.5	1.61	1.087
13C12-2,2',3,3',5,5',6 - HpCB	178L		2000	1620	80.8	1.09	1.012

(1) Suffix "L" indicates labeled compound

(2) C = co-eluting congener; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

(3) R% = percent recovery of labeled compounds

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Approved by: _____



QA/QC Chemist

28-08-2003
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Form 1A
HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

Sample Collection: N/A

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.:	9952	Lab Sample ID:	L5819-7	
Matrix:	AQUEOUS	Sample Size:	0.979 L	
Sample Receipt Date:	N/A	Initial Calibration Date:	19-Jun-2003	
Extraction Date:	18-Jul-2003	Instrument ID:	HR GC/MS	
Analysis Date:	25-Jul-2003	Time: 0:52:37	GC Column ID:	SPB-OCTYL
Extract Volume (µL):	22	Blank Data Filename:	PB3C_392 S:7	
Injection Volume (µL):	1.0	Cal. Ver. Data Filename:	PB3C_393 S:1	
Dilution Factor:	N/A	Sample Datafile(s):	PB3C_393 S:4	
Concentration Units :	pg/L			

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Total Monochloro Biphenyls		9.67	1.13
Total Dichloro Biphenyls		40.0	1.64
Total Trichloro Biphenyls		28.6	0.445
Total Tetrachloro Biphenyls		108	0.629
Total Pentachloro Biphenyls		9.49	0.514
Total Hexachloro Biphenyls		19.1	0.386
Total Heptachloro Biphenyls		9.86	0.0793
Total Octachloro Biphenyls		0.444	0.0826
Total Nonachloro Biphenyls	U		0.541
Decachloro Biphenyl		1.02	0.0600
TOTAL PCBs		226	

(1) U = Not detected

(2) All header information pertains to the initial instrumental analysis of the sample extract.
Additional sample datafiles listed refer to secondary analysis of the sample extract.

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES
Contract No.: 9952
Matrix: AQUEOUS
Sample Size: 0.979 L
Concentration Units: pg/L

Sample Collection: N/A
Lab Sample ID: L5819-7
GC Column ID(s): SPB-OCTYL
Sample Datafile(s): PB3C_393 S:4

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ	
							U=1/2 DL	U=0
3,3',4,4'-TetraCB	77		U		0.629	0.0001	3.15E-05	0.00E+00
3,4,4',5-TetraCB	81		U		0.605	0.0001	3.03E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			1.82	0.436	0.0001	1.82E-04	1.82E-04
2,3,4,4',5-PentaCB	114		U		0.413	0.0005	1.03E-04	0.00E+00
2,3',4,4',5-PentaCB	118			3.01	0.397	0.0001	3.01E-04	3.01E-04
2',3,4,4',5-PentaCB	123		U		0.408	0.0001	2.04E-05	0.00E+00
3,3',4,4',5-PentaCB	126		U		0.514	0.1	2.57E-02	0.00E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	C	1.01	0.279	0.0005	5.03E-04	5.03E-04
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167		U		0.206	0.00001	1.03E-06	0.00E+00
3,3',4,4',5,5'-HexaCB	169		U		0.386	0.01	1.93E-03	0.00E+00
2,2',3,3',4,4',5-HeptaCB	170		Z					
2,2',3,4,4',5,5'-HeptaCB	180	180 + 193	Z					
2,3,3',4,4',5,5'-HeptaCB	189			0.511	0.0409	0.0001	5.11E-05	5.11E-05
2,3,3',4',5,5',6-HeptaCB	193	180 + 193	Z					
TOTAL TEQ							0.0288	0.00104

(1) C = co-eluting congener; U = not detected; Z = compound not requested
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Form 1A
PCB AROCLOR EQUIVALENT ANALYSIS REPORT

CLIENT ID:
AN-D14RB-030513

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.:	9952	Sample Collection:	N/A
Matrix:	AQUEOUS	Lab Sample ID:	L5819-7
Sample Receipt Date:	N/A	Sample Size:	0.979 L
Extraction Date:	18-Jul-2003	Initial Calibration Date:	19-Jun-2003
Analysis Date:	25-Jul-2003	Instrument ID:	HR GC/MS
Extract Volume (µL):	22	GC Column ID:	SPB-OCTYL
Injection Volume (µL):	1.0	Blank Data Filename:	PB3C_392 S:7
Dilution Factor:	N/A	Cal. Var. Data Filename:	PB3C_393 S:1
Concentration Units:	pg/L	Sample Datafile(s):	PB3C_393 S: 4

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Aroclor 1016	12674-11-2	Z		
Aroclor 1221	11104-28-2	U		1.55
Aroclor 1232	11141-16-5	U		3.66
Aroclor 1242	53469-21-9		62.5	3.33
Aroclor 1248	12672-29-6	U		3.24
Aroclor 1254	11097-69-1		32.1	2.36
Aroclor 1260	11096-82-5		27.2	0.397

(1) U = not detected; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

(2) PCB Aroclor equivalents were calculated from individual PCB congener concentrations using empirically determined conversion factors.

(3) All header information pertains to the initial instrumental analysis of the sample extract.

Additional sample datafiles listed refer to secondary analysis of the sample extract.

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Approved by:

Rawsthorne

QA/QC Chemist

28-08-2003
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SAMPLE NO. AN-D14TB-030515

Ambient Blank

AXYS METHOD MLA-010 Rev 04
1688A-S1_209

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D14TB-030515

Sample Collection: N/A

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-1

Matrix: AQUEOUS

Sample Size: 0.931 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 1:09:55

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Data Filename: PB3C_357 S:5

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units : pg/L

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		K	1.35 UR	0.222	2.57	1.001
3 - MoCB	2			1.76	0.293	2.72	0.988
4 - MoCB	3		K	2.38 UR	0.324	4.51	1.000
2,2' - DiCB	4		U		1.21		
2,3 - DiCB	5		U		0.970		
2,3' - DiCB	6		U		0.872		
2,4 - DiCB	7		U		0.842		
2,4' - DiCB	8		K	2.05 UR	0.795	1.25	1.207
2,5 - DiCB	9		U		0.873		
2,6 - DiCB	10		U		0.862		
3,3' - DiCB	11		K	5.54 UR	0.970	1.26	0.970
3,4 - DiCB	12	12 + 13	C U		0.959		
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		0.929		
4,4' - DiCB	15		U		1.28		
2,2',3 - TriCB	16		K	0.921 UR	0.595	1.24	1.166
2,2',4 - TriCB	17		K	1.03 UR	0.542	0.67	1.139
2,2',5 - TriCB	18	18 + 30	C K	2.44 UR	0.441	0.76	1.114
2,2',6 - TriCB	19		U		0.586		
2,3,3' - TriCB	20	20 + 26	C	1.79	0.401	1.01	0.847

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Approved by: Rauwstone QA/QC Chemist

24-08-2003
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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	C	1.16	0.387	0.91	0.857
2,3,4' - TriCB	22			0.814	0.445	0.91	0.872
2,3,5 - TriCB	23		U		0.407		
2,3,6 - TriCB	24		U		0.381		
2,3',4 - TriCB	25		U		0.357		
2,3',5 - TriCB	26	26 + 29	CU		0.407		
2,3',6 - TriCB	27		U		0.376		
2,4,4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31			1.64	0.395	1.08	0.836
2,4',6 - TriCB	32			0.501	0.390	1.14	1.198
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34		U		0.411		
3,3',4 - TriCB	35		U		0.465		
3,3',5 - TriCB	36		U		0.421		
3,4,4' - TriCB	37		K	0.512 UR	0.478	0.82	0.999
3,4,5 - TriCB	38		U		0.427		
3,4',5 - TriCB	39		U		0.411		
2,2',3,3' - TeCB	40	40 + 41 + 71	C	0.939	0.196	0.85	1.334
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		K	0.587 UR	0.205	1.38	1.312
2,2',3,5 - TeCB	43		U		0.226		
2,2',3,5' - TeCB	44	44 + 47 + 65	CK	2.16 UR	0.179	0.95	1.285
2,2',3,6 - TeCB	45	45 + 51	CK	0.728 UR	0.195	0.64	1.147
2,2',3,6' - TeCB	46		U		0.230		
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48			0.378	0.193	0.66	1.272
2,2',4,5' - TeCB	49	49 + 69	C	0.813	0.168	0.77	1.258
2,2',4,6 - TeCB	50	50 + 53	CK	0.301 UR	0.187	0.50	1.110
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52			1.97	0.187	0.84	1.233
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54		K	0.322 UR	0.155	0.57	1.000
2,3,3',4 - TeCB	55		U		0.617		
2,3,3',4' - TeCB	56		U		0.627		
2,3,3',5 - TeCB	57		U		0.602		
2,3,3',5' - TeCB	58		U		0.602		
2,3,3',6 - TeCB	59	59 + 62 + 75	CU		0.147		
2,3,4,4' - TeCB	60		U		0.625		
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	C	2.07	0.578	0.84	0.876
2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3,4',5 - TeCB	63		U		0.585		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG†	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4',6 - TeCB	64		K	0.453 UR	0.144	0.59	1.348
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66			0.872	0.590	0.88	0.884
2,3',4,5 - TeCB	67		U		0.535		
2,3',4,5' - TeCB	68		U		0.543		
2,3',4,6 - TeCB	69	49 + 69	C49				
2,3',4',5 - TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6 - TeCB	71	40 + 41 + 71	C40				
2,3',5,5' - TeCB	72		U		0.559		
2,3',5',6 - TeCB	73		U		0.147		
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6 - TeCB	75	59 + 62 + 75	C59				
2',3,4,5 - TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB	77		U		0.706		
3,3',4,5 - TeCB	78		U		0.645		
3,3',4,5' - TeCB	79		U		0.523		
3,3',5,5' - TeCB	80		U		0.598		
3,4,4',5 - TeCB	81		U		0.698		
2,2',3,3',4 - PeCB	82		U		0.250		
2,2',3,3',5 - PeCB	83	83 + 99	C	0.886	0.220	1.68	1.260
2,2',3,3',6 - PeCB	84			0.338	0.246	1.76	1.164
2,2',3,4,4' - PeCB	85	85 + 116 + 117	C K	0.389 UR	0.186	2.73	1.310
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C K	1.30 UR	0.187	2.08	1.282
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	C K	0.390 UR	0.211	1.14	1.155
2,2',3,4,6' - PeCB	89		U		0.229		
2,2',3,4',5 - PeCB	90	90 + 101 + 113	C K	1.81 UR	0.191	1.92	1.238
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		U		0.220		
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	C	2.24	0.204	1.39	1.122
2,2',3,5,6' - PeCB	94		U		0.222		
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			0.074	0.0104	1.36	1.016
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103		U		0.191		
2,2',4,6,6' - PeCB	104		K	0.193 UR	0.0123	1.19	1.001
2,3,3',4,4' - PeCB	105		K	0.595 UR	0.240	1.25	1.000
2,3,3',4,5 - PeCB	106		U		0.207		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5 - PeCB	107	107 + 124	C U		0.224		
2,3,3',4',5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6 - PeCB	109			0.325	0.217	1.37	1.419
2,3,3',4',6 - PeCB	110	110 + 115	C	1.12	0.162	1.58	1.316
2,3,3',5,5' - PeCB	111		U		0.165		
2,3,3',5,6 - PeCB	112		U		0.162		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114		K	0.342 UR	0.220	1.18	1.000
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3,4,5,6 - PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6 - PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5 - PeCB	118			1.22	0.211	1.37	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120		U		0.162		
2,3',4,5',6 - PeCB	121		U		0.161		
2',3,3',4,5 - PeCB	122		U		0.238		
2',3,4,4',5 - PeCB	123		U		0.220		
2',3,4,5,5' - PeCB	124	107 + 124	C107				
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5 - PeCB	126		U		0.273		
3,3',4,5,5' - PeCB	127		U		0.233		
2,2',3,3',4,4' - HxCB	128	128 + 166	C K	0.210 UR	0.179	1.80	0.959
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	C K	1.23 UR	0.173	1.53	0.929
2,2',3,3',4,5' - HxCB	130		U		0.223		
2,2',3,3',4,6 - HxCB	131		U		0.204		
2,2',3,3',4,6' - HxCB	132		K	0.447 UR	0.203	0.97	1.174
2,2',3,3',5,5' - HxCB	133		U		0.200		
2,2',3,3',5,6 - HxCB	134	134 + 143	C U		0.205		
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	C	0.708	0.0229	1.33	1.105
2,2',3,3',6,6' - HxCB	136			0.228	0.0172	1.41	1.024
2,2',3,4,4',5 - HxCB	137		U		0.199		
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6 - HxCB	139	139 + 140	C U		0.185		
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141		K	0.250 UR	0.196	1.94	0.904
2,2',3,4,5,6 - HxCB	142		U		0.208		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5',6 - HxCB	144		K	0.194 UR	0.0241	0.47	1.121
2,2',3,4,6,6' - HxCB	145		K	0.105 UR	0.0175	0.82	1.034
2,2',3,4',5,5' - HxCB	146		K	0.183 UR	0.177	1.54	0.885
2,2',3,4',5,6 - HxCB	147	147 + 149	C	1.35	0.184	1.15	1.133
2,2',3,4',5,6' - HxCB	148		K	0.043 UR	0.0238	0.90	1.083
2,2',3,4',5',6 - HxCB	149	147 + 149	C147				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',6,6' - HxCB	150		U		0.0168		
2,2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6' - HxCB	152		K	0.062 UR	0.0164	4.64	1.008
2,2',4,4',5,5' - HxCB	153	153 + 168	C	1.39	0.155	1.27	0.899
2,2',4,4',5,6' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6' - HxCB	155			0.178	0.0153	1.32	1.001
2,3,3',4,4',5 - HxCB	156	156 + 157	CK	0.587 UR	0.196	0.67	1.000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6 - HxCB	158		K	0.226 UR	0.140	0.80	0.938
2,3,3',4,5,5' - HxCB	159		U		0.154		
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB	161		U		0.145		
2,3,3',4',5,5' - HxCB	162		U		0.152		
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB	164			0.182	0.151	1.34	0.922
2,3,3',5,5',6 - HxCB	165		U		0.156		
2,3,4,4',5,6 - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167		K	0.223 UR	0.138	0.65	1.000
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		0.689		
2,2',3,3',4,4',5 - HpCB	170			0.547	0.0329	1.11	0.936
2,2',3,3',4,4',6 - HpCB	171	171 + 173	C	0.453	0.0316	0.94	1.161
2,2',3,3',4,5,5' - HpCB	172		U		0.0327		
2,2',3,3',4,5,6 - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6' - HpCB	174			0.295	0.0290	0.95	1.132
2,2',3,3',4,5',6 - HpCB	175		K	0.158 UR	0.0285	3.70	1.102
2,2',3,3',4,6,6' - HpCB	176		K	0.076 UR	0.0216	0.70	1.033
2,2',3,3',4',5,6 - HpCB	177			0.212	0.0322	1.16	1.145
2,2',3,3',5,5',6 - HpCB	178		K	0.068 UR	0.0292	6.44	1.084
2,2',3,3',5,6,6' - HpCB	179		K	0.234 UR	0.0202	1.46	1.011
2,2',3,4,4',5,5' - HpCB	180	180 + 193	CK	1.09 UR	0.0256	1.66	0.911
2,2',3,4,4',5,6 - HpCB	181		U		0.0288		
2,2',3,4,4',5,6' - HpCB	182			0.139	0.0283	0.98	1.115
2,2',3,4,4',5',6 - HpCB	183	183 + 185	CK	0.273 UR	0.0283	0.46	1.126
2,2',3,4,4',6,6' - HpCB	184		K	0.073 UR	0.0194	2.12	1.025
2,2',3,4,5,5',6 - HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6' - HpCB	186		K	0.052 UR	0.0213	0.40	1.047
2,2',3,4',5,5',6 - HpCB	187			0.303	0.0261	1.06	1.108
2,2',3,4',5,6,6' - HpCB	188		K	0.156 UR	0.0200	0.31	1.000
2,3,3',4,4',5,5' - HpCB	189		K	0.292 UR	0.0134	1.21	1.000
2,3,3',4,4',5,6 - HpCB	190			0.080	0.0236	1.05	0.947
2,3,3',4,4',5',6 - HpCB	191		K	0.066 UR	0.0233	1.40	0.919
2,3,3',4,5,5',6 - HpCB	192		U		0.0255		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194		K	0.245 UR	0.0187	1.53	0.991
2,2',3,3',4,4',5,6' - OcCB	195		K	0.223 UR	0.0199	2.38	0.945
2,2',3,3',4,4',5,6' - OcCB	196		U		0.0291		
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	CK	0.152 UR	0.0203	0.10	1.045
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	CK	0.523 UR	0.0278	0.63	1.114
2,2',3,3',4,5,5',6' - OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6' - OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6' - OcCB	201		K	0.088 UR	0.0211	0.27	1.023
2,2',3,3',5,5',6,6' - OcCB	202		K	0.221 UR	0.0229	0.63	1.000
2,2',3,4,4',5,5',6 - OcCB	203		K	0.228 UR	0.0269	0.35	0.920
2,2',3,4,4',5,6,6' - OcCB	204		U		0.0205		
2,3,3',4,4',5,5',6 - OcCB	205		K	0.332 UR	0.0155	1.90	1.000
2,2',3,3',4,4',5,5',6 - NoCB	206		U		1.20		
2,2',3,3',4,4',5,6,6' - NoCB	207		U		0.918		
2,2',3,3',4,5,5',6,6' - NoCB	208		U		0.999		
2,2',3,3',4,4',5,5',6,6' - DeCB	209		K	0.942 UR	0.0257	1.42	1.001

(1) C = co-eluting congener; U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

JLM
11/19/03



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D14TB-030515

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: N/A

Contract No.: 9952

Lab Sample ID: L5850-1

Matrix: AQUEOUS

Sample Size: 0.931 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 1:09:55

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_357 S:5

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units : pg absolute

LABELED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2 - MoCB	1L			2000	1050	52.7	3.25	0.719
13C12-4 - MoCB	3L			2000	971	48.5	3.03	0.858
13C12-2,2' - DiCB	4L			2000	907	45.3	1.56	0.873
13C12-4,4' - DiCB	15L			2000	873	43.6	1.55	1.252
13C12-2,2',6 - TriCB	19L			2000	880	44.0	1.06	1.071
13C12-3,4,4' - TriCB	37L			2000	1120	55.9	1.03	1.092
13C12-2,2',6,6' - TeCB	54L			2000	870	43.5	0.82	0.812
13C12-3,3',4,4' - TeCB	77L			2000	1190	59.3	0.76	1.395
13C12-3,4,4',5 - TeCB	81L			2000	1170	58.4	0.75	1.372
13C12-2,2',4,6,6' - PeCB	104L			2000	858	42.9	1.57	0.808
13C12-2,3,3',4,4' - PeCB	105L			2000	1310	65.5	1.59	1.199
13C12-2,3,4,4',5 - PeCB	114L			2000	1320	66.2	1.59	1.178
13C12-2,3',4,4',5 - PeCB	118L			2000	1390	69.4	1.56	1.161
13C12-2',3,4,4',5 - PeCB	123L			2000	1370	68.7	1.58	1.150
13C12-3,3',4,4',5 - PeCB	126L			2000	1330	66.7	1.58	1.300
13C12-2,2',4,4',6,6' - HxCB	155L			2000	1110	55.4	1.27	0.787
13C12-2,3,3',4,4',5 - HxCB	156L	156L + 157L	C	4000	2490	62.3	1.33	1.107
13C12-2,3,3',4,4',5' - HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5' - HxCB	167L			2000	1360	68.0	1.31	1.077
13C12-3,3',4,4',5,5' - HxCB	169L			2000	1200	59.8	1.32	1.190
13C12-2,2',3,3',4,4',5 - HpCB	170L			2000	1270	63.7	1.09	0.897
13C12-2,2',3,4,4',5,5' - HpCB	180L			2000	1370	68.4	1.06	0.873
13C12-2,2',3,4',5,6,6' - HpCB	188L			2000	1280	64.2	1.08	0.713
13C12-2,3,3',4,4',5,5' - HpCB	189L			2000	1450	72.7	1.08	0.959
13C12-2,2',3,3',5,5',6,6' - OcCB	202L			2000	1300	65.1	0.93	0.818
13C12-2,3,3',4,4',5,5',6 - OcCB	205L			2000	1370	68.7	0.92	1.009
13C12-2,2',3,3',4,4',5,5',6 - NoCB	208L			2000	1290	64.7	0.80	1.043
13C12-2,2',3,3',4,5,5',6,6' - NoCB	208L			2000	1350	67.3	0.83	0.950
13C12-2,2',3,3',4,4',5,5',6,6' - DeCB	209L			2000	1400	70.0	1.20	1.075

9139AD2_1.xls, S3

Approved by: 

QA/QC Chemist

24-08-2003
dd-mm-yyyy

Form 2 (Continued)
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D14TB-030515

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: N/A

Contract No.: 9952

Lab Sample ID: L5850-1

Matrix: AQUEOUS

Sample Size: 0.931 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 1:09:55

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_357 S:5

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units : pg absolute

CLEAN-UP STANDARD	IUPAC NO. ¹	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12- 2,4,4' - TriCB	28L		2000	1160	57.9	1.03	0.925
13C12-2,3,3',5,5' - PeCB	111L		2000	1460	72.9	1.62	1.087
13C12-2,2',3,3',5,5',6 - HpCB	178L		2000	1490	74.4	1.08	1.012

(1) Suffix "L" indicates labeled compound

(2) C = co-eluting congener; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

(3) R% = percent recovery of labeled compounds

9139AD2_1.xls, S3

Approved by: _____



QA/QC Chemist

24-08-2003
dd-mm-yyyy

Form 1A
HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

Sample Collection: N/A

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.:	9952	Lab Sample ID:	L5850-1	
Matrix:	AQUEOUS	Sample Size:	0.931 L	
Sample Receipt Date:	16-May-2003	Initial Calibration Date:	19-Jun-2003	
Extraction Date:	30-Jun-2003	Instrument ID:	HR GC/MS	
Analysis Date:	07-Jul-2003	Time: 1:09:55	GC Column ID:	SPB-OCTYL
Extract Volume (µL):	22	Blank Data Filename:	PB3C_357 S:4	
Injection Volume (µL):	1.0	Cal. Ver. Data Filename:	PB3C_357 S:1	
Dilution Factor:	N/A	Sample Datafile(s):	PB3C_357 S:5	
Concentration Units :	pg/L			

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Total Monochloro Biphenyls		1.76	0.324
Total Dichloro Biphenyls	U		1.28
Total Trichloro Biphenyls		5.89	0.595
Total Tetrachloro Biphenyls		7.04	0.706
Total Pentachloro Biphenyls		6.21	0.273
Total Hexachloro Biphenyls		4.04	0.689
Total Heptachloro Biphenyls		2.03	0.0329
Total Octachloro Biphenyls	U		0.0291
Total Nonachloro Biphenyls	U		1.20
Decachloro Biphenyl	U		0.0257
TOTAL PCBs		27.0	

(1) U = Not detected

(2) All header information pertains to the initial instrumental analysis of the sample extract.
Additional sample datafiles listed refer to secondary analysis of the sample extract.

9139PCBTOTAL1_1.xls, S4 (TOTAL)

Approved by: Hawthorne QA/QC Chemist

28-08-2003
dd-mm-yyyy

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES
Contract No.: 9952
Matrix: AQUEOUS
Sample Size: 0.931 L
Concentration Units: pg/L

Sample Collection: N/A
Lab Sample ID: L5850-1
GC Column ID(s): SPB-OCTYL
Sample Datafile(s): PB3C_357 S:5

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ	
							U=1/2 DL	U=0
3,3',4,4'-TetraCB	77		U		0.706	0.0001	3.53E-05	0.00E+00
3,4,4',5-TetraCB	81		U		0.698	0.0001	3.49E-05	0.00E+00
2,3,3',4,4'-PentaCB	105		U		0.240	0.0001	1.20E-05	0.00E+00
2,3,4,4',5-PentaCB	114		U		0.220	0.0005	5.50E-05	0.00E+00
2,3',4,4',5-PentaCB	118			1.22	0.211	0.0001	1.22E-04	1.22E-04
2',3,4,4',5-PentaCB	123		U		0.220	0.0001	1.10E-05	0.00E+00
3,3',4,4',5-PentaCB	126		U		0.273	0.1	1.36E-02	0.00E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	C U		0.196	0.0005	4.89E-05	0.00E+00
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167		U		0.138	0.00001	6.91E-07	0.00E+00
3,3',4,4',5,5'-HexaCB	169		U		0.689	0.01	3.45E-03	0.00E+00
2,2',3,3',4,4',5-HeptaCB	170		Z					
2,2',3,4,4',5,5'-HeptaCB	180	180 + 193	Z					
2,3,3',4,4',5,5'-HeptaCB	189		U		0.0134	0.0001	6.70E-07	0.00E+00
2,3,3',4',5,5',6-HeptaCB	193	180 + 193	Z					
TOTAL TEQ							0.0174	0.000122

(1) C = co-eluting congener; U = not detected; Z = compound not requested
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Form 1A
PCB AROCLOR EQUIVALENT ANALYSIS REPORT

CLIENT ID:
AN-D14TB-030515

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Matrix: AQUEOUS

Sample Receipt Date: 16-May-2003

Extraction Date: 30-Jun-2003

Analysis Date: 07-Jul-2003

Extract Volume (µL): 22

Injection Volume (µL): 1.0

Dilution Factor: N/A

Concentration Units: pg/L

Sample Collection: N/A

Lab Sample ID: L5850-1

Sample Size: 0.931 L

Initial Calibration Date: 19-Jun-2003

Instrument ID: HR GC/MS

GC Column ID: SPB-OCTYL

Sample Datafile: PB3C_357 S: 5

Blank Data Filename: PB3C_357 S:4

Cal. Ver. Data Filename: PB3C_357 S:1

Time: 1:09:55

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Aroclor 1016	12674-11-2	Z		
Aroclor 1221	11104-28-2	U		1.11
Aroclor 1232	11141-16-5	U		1.50
Aroclor 1242	53469-21-9		10.3	2.38
Aroclor 1248	12672-29-6	U		3.60
Aroclor 1254	11097-69-1		7.09	1.76
Aroclor 1260	11096-82-5		2.74	0.165

(1) U = not detected; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately
(2) PCB Aroclor equivalents were calculated from individual PCB congener concentrations using empirically determined conversion factors.

9139ARD1_1.xls, S3

Approved by: *Rawsthorne* QA/QC Chemist

24-08-2003
dd-mm-yyyy

SAMPLE NO. AN-D16TB-030515

Ambient Blank

AXYS METHOD MLA-010 Rev 04
1668A-S1_209

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D16TB-030515

Sample Collection: N/A

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-2

Matrix: AQUEOUS

Sample Size: 0.924 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 2:14:12

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Data Filename: PB3C_357 S:8

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units : pg/L

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		K	1.75 UR	0.221	2.50	1.000
3 - MoCB	2			2.02	0.297	3.25	0.988
4 - MoCB	3		K	3.09 UR	0.335	3.86	1.000
2,2' - DiCB	4		U		0.998		
2,3 - DiCB	5		U		0.842		
2,3' - DiCB	6		U		0.758		
2,4 - DiCB	7		U		0.731		
2,4' - DiCB	8			2.12	0.689	1.47	1.208
2,5 - DiCB	9		U		0.757		
2,6 - DiCB	10		U		0.748		
3,3' - DiCB	11		K	4.27 UR	0.841	4.47	0.970
3,4 - DiCB	12	12 + 13	CU		0.832		
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		0.806		
4,4' - DiCB	15		U		1.15		
2,2',3 - TriCB	16		K	0.893 UR	0.486	0.69	1.166
2,2',4 - TriCB	17		K	0.891 UR	0.443	0.86	1.138
2,2',5 - TriCB	18	18 + 30	C	1.93	0.361	1.05	1.113
2,2',6 - TriCB	19		K	0.518 UR	0.465	1.74	1.001
2,3,3' - TriCB	20	20 + 28	C	2.15	0.495	0.99	0.849

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9139AD2_1.xls, S4

Approved by: Paul Shore QA/QC Chemist

24-08-2003
dd-mm-yyyy

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	CK	1.07 UR	0.477	1.52	0.857
2,3,4' - TriCB	22		K	0.749 UR	0.549	0.66	0.873
2,3,5 - TriCB	23		U		0.502		
2,3,6 - TriCB	24		U		0.311		
2,3',4 - TriCB	25		U		0.440		
2,3',5 - TriCB	26	26 + 29	CU		0.502		
2,3',6 - TriCB	27		U		0.307		
2,4,4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31		K	1.77 UR	0.487	0.86	0.837
2,4',6 - TriCB	32		U		0.481		
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34		U		0.508		
3,3',4 - TriCB	35		U		0.574		
3,3',5 - TriCB	36		U		0.520		
3,4,4' - TriCB	37			0.716	0.599	0.88	1.000
3,4,5 - TriCB	38		U		0.528		
3,4',5 - TriCB	39		U		0.508		
2,2',3,3' - TeCB	40	40 + 41 + 71	CK	0.708 UR	0.166	1.25	1.336
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		U		0.173		
2,2',3,5 - TeCB	43		U		0.190		
2,2',3,5' - TeCB	44	44 + 47 + 65	CK	2.09 UR	0.151	1.03	1.285
2,2',3,6 - TeCB	45	45 + 51	CK	0.660 UR	0.164	0.51	1.149
2,2',3,6' - TeCB	46		U		0.194		
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48		U		0.163		
2,2',4,5' - TeCB	49	49 + 69	CK	0.840 UR	0.142	0.64	1.259
2,2',4,6 - TeCB	50	50 + 53	CK	0.274 UR	0.158	0.35	1.112
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52		K	1.63 UR	0.158	0.56	1.234
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54		K	0.174 UR	0.140	0.46	1.002
2,3,3',4 - TeCB	55		U		0.544		
2,3,3',4' - TeCB	56		U		0.554		
2,3,3',5 - TeCB	57		U		0.531		
2,3,3',5' - TeCB	58		U		0.531		
2,3,3',6 - TeCB	59	59 + 62 + 75	CK	0.243 UR	0.124	0.54	1.300
2,3,4,4' - TeCB	60		U		0.552		
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	CK	2.15 UR	0.511	0.65	0.875
2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3,4',5 - TeCB	63		U		0.516		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4',6 - TeCB	64		K	0.434 <i>UR</i>	0.121	1.19	1.348
2,3,5,6 - TeCB	65	44 + 47 + 85	C44				
2,3',4,4' - TeCB	66			1.04	0.521	0.86	0.884
2,3',4,5 - TeCB	67		U		0.472		
2,3',4,5' - TeCB	68		U		0.480		
2,3',4,6 - TeCB	69	49 + 69	C49				
2,3',4',5 - TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6 - TeCB	71	40 + 41 + 71	C40				
2,3',5,5' - TeCB	72		U		0.494		
2,3',5',6 - TeCB	73		U		0.124		
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6 - TeCB	75	59 + 62 + 75	C59				
2',3,4,5 - TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB	77		U		0.606		
3,3',4,5 - TeCB	78		U		0.569		
3,3',4,5' - TeCB	79		U		0.462		
3,3',5,5' - TeCB	80		U		0.528		
3,4,4',5 - TeCB	81		U		0.601		
2,2',3,3',4 - PeCB	82		U		0.360		
2,2',3,3',5 - PeCB	83	83 + 99	C	0.977	0.317	1.47	1.259
2,2',3,3',6 - PeCB	84			0.397	0.354	1.61	1.162
2,2',3,4,4' - PeCB	85	85 + 116 + 117	C U		0.268		
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	2.05	0.269	1.62	1.282
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	C U		0.304		
2,2',3,4,6' - PeCB	89		U		0.330		
2,2',3,4',5 - PeCB	90	90 + 101 + 113	C	2.38	0.275	1.33	1.238
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92			0.374	0.317	1.44	0.854
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	C K	2.57 <i>UR</i>	0.293	1.96	1.120
2,2',3,5,6' - PeCB	94		U		0.320		
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96		U		0.0120		
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103		U		0.274		
2,2',4,6,6' - PeCB	104		U		0.0148		
2,3,3',4,4' - PeCB	105		K	0.772 <i>UR</i>	0.248	1.30	1.000
2,3,3',4,5 - PeCB	106		U		0.230		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5 - PeCB	107	107 + 124	C K	0.249 <i>UR</i>	0.249	2.80	1.409
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6 - PeCB	109		U		0.241		
2,3,3',4',6 - PeCB	110	110 + 115	C	2.09	0.233	1.50	1.315
2,3,3',5,5' - PeCB	111		U		0.237		
2,3,3',5,6 - PeCB	112		U		0.234		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114		K	0.346 <i>UR</i>	0.241	1.12	1.000
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3,4,5,6 - PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6 - PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5 - PeCB	118			1.14	0.246	1.68	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120		U		0.234		
2,3',4,5',6 - PeCB	121		U		0.231		
2',3,3',4,5 - PeCB	122		U		0.265		
2',3,4,4',5 - PeCB	123		K	0.368 <i>UR</i>	0.245	2.10	1.001
2',3,4,5,5' - PeCB	124	107 + 124	C107				
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5 - PeCB	126		U		0.283		
3,3',4,5,5' - PeCB	127		U		0.258		
2,2',3,3',4,4' - HxCB	128	128 + 166	C	0.645	0.0124	1.23	0.959
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	C	4.24	0.0120	1.21	0.929
2,2',3,3',4,5' - HxCB	130			0.220	0.0155	1.23	0.913
2,2',3,3',4,6 - HxCB	131		K	0.131 <i>UR</i>	0.0142	0.45	1.160
2,2',3,3',4,6' - HxCB	132			1.55	0.0141	1.13	1.174
2,2',3,3',5,5' - HxCB	133		K	0.122 <i>UR</i>	0.0139	0.59	1.189
2,2',3,3',5,6 - HxCB	134	134 + 143	C K	0.025 <i>UR</i>	0.0142	0.27	1.145
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	C	1.74	0.0210	1.12	1.104
2,2',3,3',6,6' - HxCB	136		K	0.478 <i>UR</i>	0.0158	1.01	1.024
2,2',3,4,4',5 - HxCB	137		K	0.139 <i>UR</i>	0.0138	2.60	0.919
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6 - HxCB	139	139 + 140	C K	0.138 <i>UR</i>	0.0128	3.23	1.154
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141		K	1.15 <i>UR</i>	0.0136	1.58	0.904
2,2',3,4,5,6 - HxCB	142		K	0.121 <i>UR</i>	0.0144	20.72	1.163
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5',6 - HxCB	144		K	0.299 <i>UR</i>	0.0221	0.90	1.121
2,2',3,4,6,6' - HxCB	145		U		0.0161		
2,2',3,4',5,5' - HxCB	146			0.651	0.0123	1.36	0.885
2,2',3,4',5,6 - HxCB	147	147 + 149	C	3.94	0.0127	1.22	1.133
2,2',3,4',5,6' - HxCB	148		U		0.0219		
2,2',3,4',5',6 - HxCB	149	147 + 149	C147				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',6,6' - HxCB	150		K	0.041 UR	0.0154	0.86	1.013
2,2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6' - HxCB	152		U		0.0151		
2,2',4,4',5,5' - HxCB	153	153 + 168	C	4.27	0.0108	1.24	0.899
2,2',4,4',5,6' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6' - HxCB	155		K	0.259 UR	0.0154	2.40	1.000
2,3,3',4,4',5 - HxCB	156	156 + 157	C	0.662	0.0130	1.32	1.001
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6 - HxCB	158		K	0.397 UR	0.0097	2.07	0.939
2,3,3',4,5,5' - HxCB	159		K	0.205 UR	0.0107	0.95	0.982
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB	161		U		0.0101		
2,3,3',4',5,5' - HxCB	162		K	0.148 UR	0.0105	1.86	0.989
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB	164		K	0.513 UR	0.0105	0.88	0.922
2,3,3',5,5',6 - HxCB	165		U		0.0108		
2,3,4,4',5,6 - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167			0.329	0.0098	1.37	1.000
2,3',4,4',5,6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		0.0116		
2,2',3,3',4,4',5 - HpCB	170		K	1.69 UR	0.0268	1.34	0.936
2,2',3,3',4,4',6 - HpCB	171	171 + 173	CK	0.376	0.0258	1.62	1.162
2,2',3,3',4,5,5' - HpCB	172		K	0.469 UR	0.0267	4.99	0.898
2,2',3,3',4,5,6 - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6' - HpCB	174			1.98	0.0237	1.10	1.132
2,2',3,3',4,5',6 - HpCB	175		K	0.122 UR	0.0233	0.29	1.102
2,2',3,3',4,6,6' - HpCB	176		K	0.340 UR	0.0176	2.70	1.034
2,2',3,3',4',5,6 - HpCB	177		K	1.22 UR	0.0263	1.39	1.145
2,2',3,3',5,5',6 - HpCB	178			0.326	0.0238	1.00	1.085
2,2',3,3',5,6,6' - HpCB	179		K	0.982 UR	0.0165	2.21	1.010
2,2',3,4,4',5,5' - HpCB	180	180 + 193	C	3.99	0.0209	1.12	0.910
2,2',3,4,4',5,6 - HpCB	181		U		0.0235		
2,2',3,4,4',5,6' - HpCB	182		K	0.181 UR	0.0231	0.57	1.116
2,2',3,4,4',5',6 - HpCB	183	183 + 185	CK	1.78 UR	0.0231	1.48	1.126
2,2',3,4,4',6,6' - HpCB	184		U		0.0159		
2,2',3,4,5,5',6 - HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6' - HpCB	186		K	0.044 UR	0.0174	1.79	1.046
2,2',3,4',5,5',6 - HpCB	187		K	2.33 UR	0.0213	1.85	1.110
2,2',3,4',5,6,6' - HpCB	188		K	0.055 UR	0.0168	0.56	1.001
2,3,3',4,4',5,5' - HpCB	189		K	0.127 UR	0.0125	0.63	1.001
2,3,3',4,4',5,6 - HpCB	190			0.321	0.0193	0.98	0.947
2,3,3',4,4',5',6 - HpCB	191		K	0.137 UR	0.0191	3.33	0.918
2,3,3',4,5,5',6 - HpCB	192		K	0.130 UR	0.0208	1.64	0.902

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194		K	1.23 <i>UR</i>	0.0169	1.40	0.991
2,2',3,3',4,4',5,6 - OcCB	195		K	0.325 <i>UR</i>	0.0180	0.66	0.945
2,2',3,3',4,4',5,6' - OcCB	196			0.494	0.0211	0.93	0.917
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	C K	0.224 <i>UR</i>	0.0147	0.53	1.046
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	C K	0.814 <i>UR</i>	0.0201	1.79	1.114
2,2',3,3',4,5,5',6' - OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6' - OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6' - OcCB	201		K	0.077 <i>UR</i>	0.0153	1.50	1.023
2,2',3,3',5,5',6,6' - OcCB	202		K	0.318 <i>UR</i>	0.0162	0.59	1.000
2,2',3,4,4',5,5',6 - OcCB	203			0.555	0.0194	0.89	0.919
2,2',3,4,4',5,6,6' - OcCB	204		U		0.0149		
2,3,3',4,4',5,5',6 - OcCB	205		K	0.096 <i>UR</i>	0.0143	0.35	1.001
2,2',3,3',4,4',5,5',6 - NoCB	206		U		1.17		
2,2',3,3',4,4',5,6,6' - NoCB	207		U		0.900		
2,2',3,3',4,5,5',6,6' - NoCB	208		U		0.986		
2,2',3,3',4,4',5,5',6,6' - DeCB	209			0.785	0.0161	0.67	1.000

(1) C = co-eluting congener; U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

rm
11/19/03



Form 2
PCB CONGENER ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Matrix: AQUEOUS

Sample Receipt Date: 16-May-2003

Extraction Date: 30-Jun-2003

Analysis Date: 07-Jul-2003 Time: 2:14:12

Extract Volume (µL): 22

Injection Volume (µL): 1.0

Dilution Factor: N/A

Concentration Units : pg absolute

Sample Collection: N/A

Lab Sample ID: L5850-2

Sample Size: 0.924 L

Initial Calibration Date: 19-Jun-2003

Instrument ID: HR GC/MS

GC Column ID: SPB-OCTYL

Sample Datafile: PB3C_357 S:6

Blank Data Filename: PB3C_357 S:4

Cal. Ver. Data Filename: PB3C_357 S:1

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2 - MoCB	1L			2000	1120	56.2	3.29	0.720
13C12-4 - MoCB	3L			2000	1010	50.3	3.07	0.859
13C12-2,2' - DiCB	4L			2000	1020	50.8	1.56	0.873
13C12-4,4' - DiCB	15L			2000	878	43.9	1.54	1.253
13C12-2,2',6 - TriCB	19L			2000	1060	53.0	1.05	1.072
13C12-3,4,4' - TriCB	37L			2000	1260	63.0	1.02	1.092
13C12-2,2',6,6' - TeCB	54L			2000	1040	52.2	0.82	0.812
13C12-3,3',4,4' - TeCB	77L			2000	1520	75.8	0.76	1.395
13C12-3,4,4',5 - TeCB	81L			2000	1500	75.1	0.76	1.372
13C12-2,2',4,6,6' - PeCB	104L			2000	1000	50.2	1.58	0.809
13C12-2,3,3',4,4' - PeCB	105L			2000	1710	85.6	1.59	1.199
13C12-2,3,4,4',5 - PeCB	114L			2000	1640	81.8	1.58	1.178
13C12-2,3',4,4',5 - PeCB	118L			2000	1660	83.2	1.57	1.161
13C12-2',3,4,4',5 - PeCB	123L			2000	1680	84.0	1.57	1.150
13C12-3,3',4,4',5 - PeCB	126L			2000	1740	86.8	1.58	1.300
13C12-2,2',4,4',6,6' - HxCB	155L			2000	1270	63.4	1.29	0.786
13C12-2,3,3',4,4',5 - HxCB	156L	156L + 157L	C	4000	3280	81.9	1.31	1.107
13C12-2,3,3',4,4',5' - HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5' - HxCB	167L			2000	1690	84.4	1.31	1.077
13C12-3,3',4,4',5,5' - HxCB	169L			2000	1600	79.8	1.31	1.190
13C12-2,2',3,3',4,4',5 - HpCB	170L			2000	1660	82.8	1.06	0.898
13C12-2,2',3,4,4',5,5' - HpCB	180L			2000	1650	82.7	1.07	0.873
13C12-2,2',3,4',5,6,6' - HpCB	188L			2000	1480	73.8	1.09	0.713
13C12-2,3,3',4,4',5,5' - HpCB	189L			2000	1760	87.8	1.06	0.959
13C12-2,2',3,3',5,5',6,6' - OcCB	202L			2000	1610	80.3	0.94	0.819
13C12-2,3,3',4,4',5,5',6 - OcCB	205L			2000	1640	82.2	0.92	1.009
13C12-2,2',3,3',4,4',5,5',6 - NoCB	206L			2000	1600	80.2	0.81	1.043
13C12-2,2',3,3',4,5,5',6,6' - NoCB	208L			2000	1650	82.5	0.82	0.950
13C12-2,2',3,3',4,4',5,5',6,6' - DeCB	209L			2000	1680	84.1	1.20	1.075

Form 2 (Continued)
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D16TB-030515

Lab Name: AXYS ANALYTICAL SERVICES		Sample Collection:	N/A
Contract No.:	9952	Lab Sample ID:	L5850-2
Matrix:	AQUEOUS	Sample Size:	0.924 L
Sample Receipt Date:	16-May-2003	Initial Calibration Date:	19-Jun-2003
Extraction Date:	30-Jun-2003	Instrument ID:	HR GC/MS
Analysis Date:	07-Jul-2003	GC Column ID:	SPB-OCTYL
Extract Volume (µL):	22	Sample Datafile:	PB3C_357 S:8
Injection Volume (µL):	1.0	Blank Data Filename:	PB3C_357 S:4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB3C_357 S:1
Concentration Units :	pg absolute		

Time: 2:14:12

CLEAN-UP STANDARD	IUPAC NO. ¹	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12- 2,4,4' - TrICB	28L		2000	1380	69.2	1.02	0.925
13C12-2,3,3',5,5' - PeCB	111L		2000	1670	83.3	1.62	1.087
13C12-2,2',3,3',5,5',6 - HpCB	178L		2000	1820	90.8	1.10	1.012

(1) Suffix "L" indicates labeled compound

(2) C = co-eluting congener; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

(3) R% = percent recovery of labeled compounds

9139AD2_1.xls, S4

Approved by: _____



QA/QC Chemist

24-08-2003
dd-mm-yyyy

Form 1A
HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

Sample Collection: N/A

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.:	9952	Lab Sample ID:	L5850-2	
Matrix:	AQUEOUS	Sample Size:	0.924 L	
Sample Receipt Date:	16-May-2003	Initial Calibration Date:	19-Jun-2003	
Extraction Date:	30-Jun-2003	Instrument ID:	HR GC/MS	
Analysis Date:	07-Jul-2003	Time: 2:14:12	GC Column ID:	SPB-OCTYL
Extract Volume (µL):	22	Blank Data Filename:	PB3C_357 S:4	
Injection Volume (µL):	1.0	Cal. Ver. Data Filename:	PB3C_357 S:1	
Dilution Factor:	N/A	Sample Datafile(s):	PB3C_357 S:6	
Concentration Units :	pg/L			

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Total Monochloro Biphenyls		2.02	0.335
Total Dichloro Biphenyls		2.12	1.15
Total Trichloro Biphenyls		4.80	0.599
Total Tetrachloro Biphenyls		1.04	0.606
Total Pentachloro Biphenyls		9.42	0.360
Total Hexachloro Biphenyls		18.3	0.0221
Total Heptachloro Biphenyls		6.62	0.0268
Total Octachloro Biphenyls		1.05	0.0211
Total Nonachloro Biphenyls	U		1.17
Decachloro Biphenyl		0.785	0.0161
TOTAL PCBs		46.1	

(1) U = Not detected

(2) All header information pertains to the initial instrumental analysis of the sample extract.
Additional sample datafiles listed refer to secondary analysis of the sample extract.

9139PCBTOTAL1_1.xls, S5 (TOTAL)

Approved by: *Paula Stone* QA/QC Chemist

28-08-2003
dd-mm-yyyy

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: N/A

Contract No.: 9952

Matrix: AQUEOUS

Lab Sample ID: L5850-2

Sample Size: 0.924 L

GC Column ID(s): SPB-OCTYL

Concentration Units : pg/L

Sample Datafile(s): PB3C_357 S:6

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ	
							U=1/2 DL	U=0
3,3',4,4'-TetraCB	77		U		0.606	0.0001	3.03E-05	0.00E+00
3,4,4',5-TetraCB	81		U		0.601	0.0001	3.00E-05	0.00E+00
2,3,3',4,4'-PentaCB	105		U		0.248	0.0001	1.24E-05	0.00E+00
2,3,4,4',5-PentaCB	114		U		0.241	0.0005	6.02E-05	0.00E+00
2,3',4,4',5-PentaCB	118			1.14	0.246	0.0001	1.14E-04	1.14E-04
2',3,4,4',5-PentaCB	123		U		0.245	0.0001	1.23E-05	0.00E+00
3,3',4,4',5-PentaCB	126		U		0.283	0.1	1.41E-02	0.00E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	C	0.662	0.0130	0.0005	3.31E-04	3.31E-04
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			0.329	0.0098	0.00001	3.29E-06	3.29E-06
3,3',4,4',5,5'-HexaCB	169		U		0.0116	0.01	5.80E-05	0.00E+00
2,2',3,3',4,4',5-HeptaCB	170		Z					
2,2',3,4,4',5,5'-HeptaCB	180	180 + 193	Z					
2,3,3',4,4',5,5'-HeptaCB	189		U		0.0125	0.0001	6.25E-07	0.00E+00
2,3,3',4',5,5',6-HeptaCB	193	180 + 193	Z					
TOTAL TEQ							0.0148	0.000449

(1) C = co-eluting congener; U = not detected; Z = compound not requested

(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Form 1A
PCB AROCLOR EQUIVALENT ANALYSIS REPORT

CLIENT ID:
AN-D16TB-030515

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.:	9952	Sample Collection:	N/A
Matrix:	AQUEOUS	Lab Sample ID:	L5850-2
Sample Receipt Date:	16-May-2003	Sample Size:	0.924 L
Extraction Date:	30-Jun-2003	Initial Calibration Date:	19-Jun-2003
Analysis Date:	07-Jul-2003	Instrument ID:	HR GC/MS
		GC Column ID:	SPB-OCTYL
Extract Volume (µL):	22	Sample Datafile:	PB3C_357 S: 6
Injection Volume (µL):	1.0	Blank Data Filename:	PB3C_357 S:4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB3C_357 S:1
Concentration Units:	pg/L		

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Aroclor 1016	12674-11-2	Z		
Aroclor 1221	11104-28-2	U		0.965
Aroclor 1232	11141-16-5	U		1.23
Aroclor 1242	53469-21-9		18.6	2.07
Aroclor 1248	12672-29-6	U		3.18
Aroclor 1254	11097-69-1		24.2	2.54
Aroclor 1260	11096-82-5		20.0	0.134

(1) U = not detected; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately
(2) PCB Aroclor equivalents were calculated from individual PCB congener concentrations using empirically determined conversion factors.

Approved by: *Lawson* QA/QC Chemist

SAMPLE NO. AN-D14GW-030515

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-3

Matrix: AQUEOUS

Sample Size: 0.912 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 3:18:32

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Data Filename: PB3C_357 S:7

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units : pg/L

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1			1.86 UB	0.180	2.72	1.001
3 - MoCB	2			2.77 UB	0.242	2.86	0.988
4 - MoCB	3			3.90 UB	0.276	3.36	1.000
2,2' - DiCB	4		K	2.33 UR	0.664	1.89	1.000
2,3 - DiCB	5		U		0.571		
2,3' - DiCB	6		U		0.513		
2,4 - DiCB	7		K	1.04 UR	0.496	2.07	1.156
2,4' - DiCB	8			3.06 UB	0.468	1.80	1.207
2,5 - DiCB	9		U		0.514		
2,6 - DiCB	10		U		0.507		
3,3' - DiCB	11		K	7.29 UR	0.571	2.31	0.969
3,4 - DiCB	12	12 + 13	CU		0.564		
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		0.547		
4,4' - DiCB	15		K	1.60 UR	0.793	0.88	1.000
2,2',3 - TriCB	16		K	1.49 UBR	0.306	0.83	1.166
2,2',4 - TriCB	17			2.18 UB	0.279	0.88	1.138
2,2',5 - TriCB	18	18 + 30	CK	3.50 UR	0.227	0.83	1.113
2,2',6 - TriCB	19		K	0.877 UR	0.268	1.61	1.001
2,3,3' - TriCB	20	20 + 28	C	3.42 UB	0.224	1.05	0.849

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11/19/03

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	C	3.42 <i>UB</i>	0.217	0.95	0.856
2,3,4' - TriCB	22		K	1.12 <i>UR</i>	0.249	0.84	0.872
2,3,5 - TriCB	23		U		0.228		
2,3,6 - TriCB	24		U		0.196		
2,3',4 - TriCB	25		K	0.323 <i>UR</i>	0.200	0.77	0.826
2,3',5 - TriCB	26	26 + 29	C	0.651 <i>UB</i>	0.228	0.93	1.300
2,3',6 - TriCB	27		K	0.293 <i>UR</i>	0.193	0.62	1.152
2,4,4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31		K	2.65 <i>UBR</i>	0.221	1.27	0.837
2,4',6 - TriCB	32		K	1.27 <i>UBR</i>	0.218	1.34	1.197
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34		U		0.230		
3,3',4 - TriCB	35		U		0.260		
3,3',5 - TriCB	36		U		0.236		
3,4,4' - TriCB	37		K	0.902 <i>UR</i>	0.287	0.84	1.001
3,4,5 - TriCB	38		U		0.239		
3,4',5 - TriCB	39		U		0.230		
2,2',3,3' - TeCB	40	40 + 41 + 71	C	1.32 <i>UB</i>	0.148	0.77	1.335
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42			0.536	0.155	0.87	1.312
2,2',3,5 - TeCB	43		U		0.170		
2,2',3,5' - TeCB	44	44 + 47 + 65	C	31.8 <i>UBI</i>	0.135	0.78	1.286
2,2',3,6 - TeCB	45	45 + 51	C	44.5 <i>UBI</i>	0.147	0.79	1.149
2,2',3,6' - TeCB	46			0.305 <i>UB</i>	0.173	0.66	1.160
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48		K	0.564 <i>UBR</i>	0.146	1.01	1.273
2,2',4,5' - TeCB	49	49 + 69	C	2.65 <i>UB</i>	0.127	0.84	1.259
2,2',4,6 - TeCB	50	50 + 53	C K	0.954 <i>UR</i>	0.141	0.55	1.111
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52			6.03 <i>UB</i>	0.141	0.85	1.234
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54		K	0.214 <i>UR</i>	0.108	1.52	1.001
2,3,3',4 - TeCB	55		U		0.532		
2,3,3',4' - TeCB	56			1.08	0.541	0.77	0.905
2,3,3',5 - TeCB	57		U		0.519		
2,3,3',5' - TeCB	58		U		0.520		
2,3,3',6 - TeCB	59	59 + 62 + 75	C K	0.260 <i>UBR</i>	0.111	1.12	1.300
2,3,4,4' - TeCB	60		U		0.540		
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	C	4.63 <i>UB</i>	0.499	0.80	0.875
2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3,4',5 - TeCB	63		U		0.505		

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11/17/03

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4,6 - TeCB	64			2.62	0.108	0.77	1.348
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66			3.00 <i>UB</i>	0.509	0.88	0.884
2,3',4,5' - TeCB	67		U		0.462		
2,3',4,5' - TeCB	68			20.6 <i>UB1</i>	0.469	0.80	0.832
2,3',4,6' - TeCB	69	49 + 69	C49				
2,3',4',5' - TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6' - TeCB	71	40 + 41 + 71	C40				
2,3',5,5' - TeCB	72		U		0.483		
2,3',5',6' - TeCB	73		U		0.111		
2,4,4',5' - TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6' - TeCB	75	59 + 62 + 75	C59				
2',3,4,5 - TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB	77		U		0.645		
3,3',4,5 - TeCB	78		U		0.556		
3,3',4,5' - TeCB	79		U		0.452		
3,3',5,5' - TeCB	80		U		0.516		
3,4,4',5 - TeCB	81		U		0.609		
2,2',3,3',4 - PeCB	82			0.823 <i>UB</i>	0.231	1.63	1.328
2,2',3,3',5 - PeCB	83	83 + 99	C	3.63 <i>UB</i>	0.204	1.34	1.280
2,2',3,3',6 - PeCB	84		K	2.11 <i>UB</i>	0.228	1.88	1.162
2,2',3,4,4' - PeCB	85	85 + 116 + 117	C	1.86	0.172	1.57	1.309
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	4.74 <i>UB1</i>	0.173	1.69	1.282
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	CK	1.18 <i>UBR</i>	0.196	1.20	1.154
2,2',3,4,6' - PeCB	89		U		0.212		
2,2',3,4',5 - PeCB	90	90 + 101 + 113	C	6.42 <i>UB</i>	0.177	1.46	1.237
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92			1.18 <i>UB1</i>	0.204	1.47	0.853
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	C	5.92 <i>UB</i>	0.189	1.51	1.120
2,2',3,5,6' - PeCB	94		U		0.206		
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96		K	0.061 <i>UB</i>	0.0099	1.03	1.016
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103		U		0.176		
2,2',4,6,6' - PeCB	104		K	0.117 <i>UR</i>	0.0113	0.78	1.001
2,3,3',4,4' - PeCB	105			3.38 <i>UB1</i>	0.227	1.39	1.000
2,3,3',4,5 - PeCB	106		U		0.207		

yes
11/19/03

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5 - PeCB	107	107 + 124	C	0.460 <i>UB</i>	0.224	1.74	1.409
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6' - PeCB	109		K	0.406 <i>UR</i>	0.218	2.07	1.418
2,3,3',4',6 - PeCB	110	110 + 115	C	7.43 <i>UB</i>	0.150	1.71	1.315
2,3,3',5,5' - PeCB	111		U		0.153		
2,3,3',5,6 - PeCB	112		U		0.150		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114		K	0.518 <i>UBR</i>	0.219	0.91	1.000
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3,4,5,6 - PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6 - PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5 - PeCB	118			6.31 <i>UBI</i>	0.218	1.73	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120		U		0.150		
2,3',4,5',6 - PeCB	121		U		0.149		
2',3,3',4,5 - PeCB	122		K	0.441 <i>UR</i>	0.239	0.41	1.010
2',3,4,4',5 - PeCB	123			0.318	0.230	1.38	1.000
2',3,4,5,5' - PeCB	124	107 + 124	C107				
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5 - PeCB	126		U		0.253		
3,3',4,5,5' - PeCB	127		U		0.233		
2,2',3,3',4,4' - HxCB	128	128 + 166	CK	2.93 <i>UR</i>	0.182	1.03	0.959
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	C	12.7 <i>UBI</i>	0.176	1.30	0.929
2,2',3,3',4,5' - HxCB	130		K	0.689 <i>UBR</i>	0.226	2.64	0.913
2,2',3,3',4,6 - HxCB	131		U		0.208		
2,2',3,3',4,6' - HxCB	132			2.35	0.206	1.11	1.173
2,2',3,3',5,5' - HxCB	133		U		0.203		
2,2',3,3',5,6 - HxCB	134	134 + 143	C	0.402	0.208	1.15	1.140
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	C	2.22 <i>UBI</i>	0.0171	1.37	1.104
2,2',3,3',6,6' - HxCB	136			0.652 <i>UB</i>	0.0129	1.20	1.024
2,2',3,4,4',5 - HxCB	137			1.05	0.202	1.38	0.919
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6 - HxCB	139	139 + 140	C	0.360 <i>UB</i>	0.188	1.18	1.153
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141			1.48 <i>UBI</i>	0.199	1.08	0.904
2,2',3,4,5,6 - HxCB	142		U		0.211		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5',6 - HxCB	144		K	0.300 <i>UR</i>	0.0180	1.79	1.121
2,2',3,4,6,6' - HxCB	145		U		0.0131		
2,2',3,4',5,5' - HxCB	146		K	1.14 <i>UBR</i>	0.180	1.86	0.885
2,2',3,4',5,6 - HxCB	147	147 + 149	C	5.38 <i>UB</i>	0.187	1.39	1.133
2,2',3,4',5,6' - HxCB	148		U		0.0178		
2,2',3,4',5',6 - HxCB	149	147 + 149	C147				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',6,8' - HxCB	150		K	0.016 <i>UR</i>	0.0125	0.73	1.012
2,2',3,5,5',8' - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,8' - HxCB	152			0.040	0.0123	1.10	1.007
2,2',4,4',5,5' - HxCB	153	153 + 168	CK	6.20 <i>UR</i>	0.158	1.49	0.899
2,2',4,4',5,8' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,8' - HxCB	155		K	0.124 <i>UBR</i>	0.0119	0.37	1.001
2,3,3',4,4',5' - HxCB	156	156 + 157	C	1.56 <i>UB</i>	0.193	1.43	1.000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',8' - HxCB	158		K	1.08 <i>UBR</i>	0.142	0.95	0.938
2,3,3',4,5,5' - HxCB	159		K	0.189 <i>UR</i>	0.156	1.01	0.983
2,3,3',4,5,8' - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',8' - HxCB	161		U		0.148		
2,3,3',4',5,5' - HxCB	162		U		0.155		
2,3,3',4',5,6' - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',8' - HxCB	164			0.901 <i>UBZ</i>	0.153	1.40	0.922
2,3,3',5,5',6' - HxCB	165		U		0.158		
2,3,4,4',5,6' - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167		K	0.536 <i>UR</i>	0.145	2.97	1.001
2,3',4,4',5',6' - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		0.169		
2,2',3,3',4,4',5' - HpCB	170			1.47 <i>UBR</i>	0.0219	1.01	0.937
2,2',3,3',4,4',8' - HpCB	171	171 + 173	CK	0.444 <i>UR</i>	0.0211	1.24	1.162
2,2',3,3',4,5,5' - HpCB	172		K	0.396 <i>UR</i>	0.0218	1.78	0.897
2,2',3,3',4,5,6' - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6' - HpCB	174			1.50 <i>UBZ</i>	0.0193	0.99	1.132
2,2',3,3',4,5',8' - HpCB	175			0.102	0.0190	0.93	1.103
2,2',3,3',4,6,6' - HpCB	176		K	0.149 <i>UR</i>	0.0144	0.79	1.035
2,2',3,3',4',5,6' - HpCB	177		K	1.20 <i>UR</i>	0.0214	1.27	1.144
2,2',3,3',5,5',6' - HpCB	178			0.529	0.0194	0.89	1.065
2,2',3,3',5,6,6' - HpCB	179		K	0.772 <i>UR</i>	0.0135	0.76	1.010
2,2',3,4,4',5,5' - HpCB	180	180 + 193	C	4.54 <i>UBZ</i>	0.0170	1.01	0.910
2,2',3,4,4',5,6' - HpCB	181			0.047	0.0192	1.20	1.157
2,2',3,4,4',5,6' - HpCB	182		U		0.0189		
2,2',3,4,4',5',8' - HpCB	183	183 + 185	CK	1.22 <i>UR</i>	0.0189	0.84	1.127
2,2',3,4,4',6,8' - HpCB	184		U		0.0129		
2,2',3,4,5,5',6' - HpCB	185	183 + 185	C183				
2,2',3,4,5,6,8' - HpCB	186		U		0.0142		
2,2',3,4',5,5',8' - HpCB	187		K	2.87 <i>UR</i>	0.0174	1.22	1.109
2,2',3,4',5,6,6' - HpCB	188		K	0.070 <i>UR</i>	0.0133	0.36	1.000
2,3,3',4,4',5,5' - HpCB	189		K	0.272 <i>UBR</i>	0.0126	0.64	1.000
2,3,3',4,4',5,6' - HpCB	190			0.459	0.0158	0.98	0.947
2,3,3',4,4',5',8' - HpCB	191		K	0.141 <i>UR</i>	0.0155	0.70	0.918
2,3,3',4,5,5',6' - HpCB	192		K	0.030 <i>UR</i>	0.0170	1.89	0.902

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194			0.748 <i>UB</i>	0.0165	0.80	0.991
2,2',3,3',4,4',5,6 - OcCB	195			0.432	0.0176	0.76	0.945
2,2',3,3',4,4',5,6' - OcCB	196		K	0.582 <i>UR</i>	0.0258	0.83	0.916
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	CK	0.475 <i>UR</i>	0.0180	0.47	1.045
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	CK	1.58 <i>UR</i>	0.0246	1.29	1.114
2,2',3,3',4,5,5',6' - OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6' - OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6' - OcCB	201		K	0.339 <i>UBR</i>	0.0187	2.27	1.023
2,2',3,3',5,5',6,6' - OcCB	202			0.769	0.0192	0.92	1.000
2,2',3,4,4',5,5',6 - OcCB	203			1.19	0.0238	0.84	0.920
2,2',3,4,4',5,6,6' - OcCB	204		U		0.0182		
2,3,3',4,4',5,5',6 - OcCB	205		K	0.165 <i>UR</i>	0.0143	0.70	1.000
2,2',3,3',4,4',5,5',6 - NoCB	206		U		0.936		
2,2',3,3',4,4',5,6,6' - NoCB	207		U		0.714		
2,2',3,3',4,5,5',6,6' - NoCB	208		U		0.778		
2,2',3,3',4,4',5,5',6,6' - DeCB	209			0.800 <i>UBI</i>	0.0177	0.68	1.000

(1) C = co-eluting congener; U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

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Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D14GW-030515

Lab Name: AXYS ANALYTICAL SERVICES	Sample Collection: 15-May-2003
Contract No.: 9952	Lab Sample ID: L5850-3
Matrix: AQUEOUS	Sample Size: 0.912 L
Sample Receipt Date: 16-May-2003	Initial Calibration Date: 19-Jun-2003
Extraction Date: 30-Jun-2003	Instrument ID: HR GC/MS
Analysis Date: 07-Jul-2003	GC Column ID: SPB-OCTYL
Time: 3:18:32	Sample Datafile: PB3C_357 S:7
Extract Volume (µL): 22	Blank Data Filename: PB3C_357 S:4
Injection Volume (µL): 1.0	Cal. Ver. Data Filename: PB3C_357 S:1
Dilution Factor: N/A	
Concentration Units : pg absolute	

LABELED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2 - MoCB	1L			2000	1380	69.1	3.23	0.720
13C12-4 - MoCB	3L			2000	1170	58.7	3.10	0.859
13C12-2,2' - DiCB	4L			2000	1190	59.7	1.57	0.874
13C12-4,4' - DiCB	15L			2000	990	49.5	1.54	1.253
13C12-2,2',6' - TriCB	19L			2000	1190	59.4	1.06	1.072
13C12-3,4,4' - TriCB	37L			2000	1200	59.8	1.04	1.091
13C12-2,2',6,6' - TeCB	54L			2000	1130	56.4	0.81	0.812
13C12-3,3',4,4' - TeCB	77L			2000	1340	67.2	0.77	1.395
13C12-3,4,4',5' - TeCB	81L			2000	1400	69.9	0.76	1.372
13C12-2,2',4,6,6' - PeCB	104L			2000	1050	52.3	1.57	0.809
13C12-2,3,3',4,4' - PeCB	105L			2000	1590	79.6	1.58	1.199
13C12-2,3,4,4',5' - PeCB	114L			2000	1550	77.7	1.58	1.178
13C12-2,3',4,4',5' - PeCB	118L			2000	1570	78.7	1.57	1.161
13C12-2',3,4,4',5' - PeCB	123L			2000	1520	76.1	1.57	1.150
13C12-3,3',4,4',5' - PeCB	126L			2000	1650	82.7	1.60	1.300
13C12-2,2',4,4',6,6' - HxCB	155L			2000	1230	61.3	1.27	0.786
13C12-2,3,3',4,4',5' - HxCB	156L	156L + 157L	C	4000	2940	73.4	1.32	1.107
13C12-2,3,3',4,4',5' - HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5' - HxCB	167L			2000	1530	76.7	1.30	1.077
13C12-3,3',4,4',5,5' - HxCB	189L			2000	1460	73.1	1.31	1.190
13C12-2,2',3,3',4,4',5' - HpCB	170L			2000	1540	77.2	1.10	0.897
13C12-2,2',3,4,4',5,5' - HpCB	180L			2000	1500	74.9	1.08	0.873
13C12-2,2',3,4',5,6,6' - HpCB	188L			2000	1420	70.9	1.09	0.713
13C12-2,3,3',4,4',5,5' - HpCB	189L			2000	1600	80.2	1.07	0.959
13C12-2,2',3,3',5,5',6,6' - OcCB	202L			2000	1570	78.7	0.92	0.818
13C12-2,3,3',4,4',5,5',6' - OcCB	205L			2000	1510	75.6	0.91	1.009
13C12-2,2',3,3',4,4',5,5',6' - NoCB	206L			2000	1460	72.9	0.82	1.043
13C12-2,2',3,3',4,5,5',6,6' - NoCB	208L			2000	1530	76.7	0.83	0.949
13C12-2,2',3,3',4,4',5,5',6,6' - DeCB	209L			2000	1480	74.0	1.18	1.075

9139AD2_1.xls, S5

Approved by: 

QA/QC Chemist

24-08-2003
dd-mm-yyyy

Form 2 (Continued)
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D14GW-030515

Lab Name: AXYS ANALYTICAL SERVICES
Contract No.: 9952
Matrix: AQUEOUS
Sample Receipt Date: 16-May-2003
Extraction Date: 30-Jun-2003
Analysis Date: 07-Jul-2003 Time: 3:18:32
Extract Volume (µL): 22
Injection Volume (µL): 1.0
Dilution Factor: N/A
Concentration Units : pg absolute

Sample Collection: 15-May-2003
Lab Sample ID: L5850-3
Sample Size: 0.912 L
Initial Calibration Date: 19-Jun-2003
Instrument ID: HR GC/MS
GC Column ID: SPB-OCTYL
Sample Datafile: PB3C_357 S:7
Blank Data Filename: PB3C_357 S:4
Cal. Ver. Data Filename: PB3C_357 S:1

CLEAN-UP STANDARD	IUPAC NO. ¹	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12- 2,4,4' - TriCB	28L		2000	1590	79.7	1.02	0.925
13C12-2,3,3',5,5' - PeCB	111L		2000	1650	82.6	1.61	1.087
13C12-2,2',3,3',5,5',6 - HpCB	178L		2000	1740	87.0	1.07	1.012

(1) Suffix "L" indicates labeled compound

(2) C = co-eluting congener; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

(3) R% = percent recovery of labeled compounds

9139AD2_1.xls, S5

Approved by: _____



QA/QC Chemist

24-08-2003
dd-mm-yyyy

Form 1A
HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952 Lab Sample ID: L5850-3
Matrix: AQUEOUS Sample Size: 0.912 L
Sample Receipt Date: 16-May-2003 Initial Calibration Date: 19-Jun-2003
Extraction Date: 30-Jun-2003 Instrument ID: HR GC/MS
Analysis Date: 07-Jul-2003 Time: 3:18:32 GC Column ID: SPB-OCTYL
Extract Volume (µL): 22 Blank Data Filename: PB3C_357 S:4
Injection Volume (µL): 1.0 Cal. Ver. Data Filename: PB3C_357 S:1
Dilution Factor: N/A Sample Datafile(s): PB3C_357 S:7
Concentration Units : pg/L

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Total Monochloro Biphenyls		8.33 U	0.276
Total Dichloro Biphenyls		3.06 U	0.793
Total Trichloro Biphenyls		9.87 U	0.306
Total Tetrachloro Biphenyls		4.24 1.19	0.645
Total Pentachloro Biphenyls		2.18 42.5	0.253
Total Hexachloro Biphenyls		13.84 28.1	0.226
Total Heptachloro Biphenyls		1.14 8.65	0.0219
Total Octachloro Biphenyls		2.39 3.14	0.0258
Total Nonachloro Biphenyls	U		0.936
Decachloro Biphenyl		0.800	0.0177
TOTAL PCBs		13.8 224	

(1) U = Not detected
(2) All header information pertains to the initial instrumental analysis of the sample extract.
Additional sample datafiles listed refer to secondary analysis of the sample extract.

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES
Contract No.: 9952
Matrix: AQUEOUS
Sample Size: 0.912 L
Concentration Units: pg/L

Sample Collection: 15-May-2003
Lab Sample ID: L5850-3
GC Column ID(s): SPB-OCTYL
Sample Datafile(s): PB3C_357 S:7

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ	
							U=1/2 DL	U=0
3,3',4,4'-TetraCB	77		U		0.645	0.0001	3.23E-05	0.00E+00
3,4,4',5-TetraCB	81		U		0.609	0.0001	3.04E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			3.38 <i>UB1</i>	0.227	0.0001	3.38E-04 1.15E-5	3.38E-04 0
2,3,4,4',5-PentaCB	114		U		0.219	0.0005	5.48E-05	0.00E+00
2,3',4,4',5-PentaCB	118			6.31 <i>UB2</i>	0.218	0.0001	6.31E-04 1.07E-5	6.31E-04 0
2',3,4,4',5-PentaCB	123			0.318	0.230	0.0001	3.18E-05	3.18E-05
3,3',4,4',5-PentaCB	126		U		0.253	0.1	1.26E-02	0.00E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	C	1.58 <i>UB</i>	0.193	0.0005	7.82E-04 4.82E-5	7.82E-04 0
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156			<i>4.8</i>		
2,3',4,4',5,5'-HexaCB	167		U		0.145	0.00001	7.27E-07	0.00E+00
3,3',4,4',5,5'-HexaCB	169		U		0.169	0.01	8.43E-04	0.00E+00
2,2',3,3',4,4',5-HeptaCB	170		Z					
2,2',3,4,4',5,5'-HeptaCB	180	180 + 193	Z					
2,3,3',4,4',5,5'-HeptaCB	189		U		0.0126	0.0001	6.30E-07	0.00E+00
2,3,3',4',5,5',6-HeptaCB	193	180 + 193	Z					

TOTAL TEQ ~~0.0154~~ ~~0.00178~~
0.0137 *0.000029*

(1) C = co-eluting congener; U = not detected; Z = compound not requested
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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Form 1A
PCB AROCLOR EQUIVALENT ANALYSIS REPORT

CLIENT ID:
AN-D14GW-030515

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-3

Matrix: AQUEOUS

Sample Size: 0.912 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 3:18:32

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_357 S: 7

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units: pg/L

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Aroclor 1016	12674-11-2	Z		
Aroclor 1221	11104-28-2	U		0.655
Aroclor 1232	11141-16-5	U		0.937
Aroclor 1242	53469-21-9 <i>8/18/20/21 x 3</i>		<i>18.4 U</i>	1.40
Aroclor 1248	12672-29-6	U		3.10
Aroclor 1254	11097-69-1 <i>83/86 x 8</i>		<i>67.0 U</i>	1.63
Aroclor 1260	11096-82-5 <i>170/180/183 x 5</i>		<i>30.0 U</i>	0.110

(1) U = not detected; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately
(2) PCB Aroclor equivalents were calculated from individual PCB congener concentrations using empirically determined conversion factors.

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Approved by: *Paul Shorne* QA/QC Chemist

SAMPLE NO. AN-D16GW-030515

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D16GW-030515

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.:	9952	Lab Sample ID:	L5850-4
Matrix:	AQUEOUS	Sample Size:	0.925 L
Sample Receipt Date:	16-May-2003	Initial Calibration Date:	19-Jun-2003
Extraction Date:	30-Jun-2003	Instrument ID:	HR GC/MS
Analysis Date:	07-Jul-2003	GC Column ID:	SPB-OCTYL
Extract Volume (µL):	22	Sample Data Filename:	PB3C_357 S:8
Injection Volume (µL):	1.0	Blank Data Filename:	PB3C_357 S:4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB3C_357 S:1
Concentration Units :	pg/L		

Time: 4:22:53

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1			1.79 <i>UB</i>	0.184	3.45	1.001
3 - MoCB	2			1.60 <i>UB</i>	0.256	2.75	0.988
4 - MoCB	3		K	2.97 <i>UBR</i>	0.302	4.16	1.001
2,2' - DICB	4		U		0.872		
2,3 - DICB	5		U		0.755		
2,3' - DICB	6		U		0.678		
2,4 - DICB	7		U		0.655		
2,4' - DICB	8		K	2.14 <i>UR</i>	0.618	2.16	1.207
2,5 - DICB	9		U		0.679		
2,6 - DICB	10		U		0.671		
3,3' - DICB	11			5.48 <i>UBI</i>	0.755	1.70	0.970
3,4 - DICB	12	12 + 13	CU		0.746		
3,4' - DICB	13	12 + 13	C12				
3,5 - DICB	14		U		0.723		
4,4' - DICB	15		U		1.05		
2,2',3 - TriCB	16		K	1.06 <i>UBR</i>	0.353	1.25	1.166
2,2',4 - TriCB	17			1.13 <i>UB</i>	0.321	0.92	1.139
2,2',5 - TriCB	18	18 + 30	CK	1.97 <i>UR</i>	0.262	1.37	1.113
2,2',6 - TriCB	19		K	0.502 <i>UR</i>	0.338	0.78	1.000
2,3,3' - TriCB	20	20 + 28	C	3.33 <i>UB</i>	0.345	1.12	0.848

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Approved by: _____



QA/QC Chemist

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	C	1.99 <i>UB</i>	0.333	0.91	0.855
2,3,4' - TriCB	22			1.01 <i>UBI</i>	0.383	0.90	0.872
2,3,5 - TriCB	23		U		0.350		
2,3,6 - TriCB	24		U		0.226		
2,3',4 - TriCB	25		K	0.308 <i>UR</i>	0.307	0.79	0.825
2,3',5 - TriCB	26	26 + 29	C U		0.350		
2,3',6 - TriCB	27		U		0.223		
2,4,4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31			3.00 <i>UB</i>	0.339	1.10	0.837
2,4',6 - TriCB	32		K	0.570 <i>UBR</i>	0.335	1.31	1.197
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34		U		0.354		
3,3',4 - TriCB	35		U		0.400		
3,3',5 - TriCB	36		U		0.363		
3,4,4' - TriCB	37			1.69 <i>UBI</i>	0.416	0.96	1.000
3,4,5 - TriCB	38		U		0.368		
3,4',5 - TriCB	39		U		0.354		
2,2',3,3' - TeCB	40	40 + 41 + 71	C	1.38 <i>UB</i>	0.206	0.67	1.336
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		K	0.596 <i>UR</i>	0.215	1.02	1.311
2,2',3,5 - TeCB	43		U		0.237		
2,2',3,5' - TeCB	44	44 + 47 + 65	C	23.7 <i>UB</i>	0.188	0.78	1.286
2,2',3,6 - TeCB	45	45 + 51	C	25.8 <i>UBI</i>	0.204	0.79	1.148
2,2',3,6' - TeCB	46		U		0.241		
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48			0.303 <i>UB</i>	0.203	0.80	1.271
2,2',4,5' - TeCB	49	49 + 69	C K	2.21 <i>UBR</i>	0.176	1.00	1.258
2,2',4,6 - TeCB	50	50 + 53	C K	0.419 <i>UR</i>	0.196	0.97	1.110
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52			3.12 <i>UB</i>	0.196	0.75	1.233
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54		U		0.172		
2,3,3',4 - TeCB	55		U		0.642		
2,3,3',4' - TeCB	56			1.12	0.653	0.70	0.905
2,3,3',5 - TeCB	57		U		0.627		
2,3,3',5' - TeCB	58		U		0.627		
2,3,3',6 - TeCB	59	59 + 62 + 75	C U		0.154		
2,3,4,4' - TeCB	60			1.26	0.651	0.74	0.911
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	C	5.83 <i>UB</i>	0.602	0.71	0.876
2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3,4',5 - TeCB	63		U		0.609		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4',6 - TeCB	64			4.50	0.151	0.81	1.348
2,3,5,6 - TeCB	65	44 + 47 + 85	C44				
2,3',4,4' - TeCB	66			7.73	0.614	0.79	0.885
2,3',4,5 - TeCB	67		U		0.557		
2,3',4,5' - TeCB	68			16.8 <i>UB1</i>	0.565	0.73	0.832
2,3',4,6 - TeCB	69	49 + 69	C49				
2,3',4',5 - TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6 - TeCB	71	40 + 41 + 71	C40				
2,3',5,5' - TeCB	72		U		0.582		
2,3',5',6 - TeCB	73		U		0.154		
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6 - TeCB	75	59 + 62 + 75	C59				
2',3,4,5 - TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB	77			1.26	0.761	0.71	1.000
3,3',4,5 - TeCB	78		U		0.671		
3,3',4,5' - TeCB	79		U		0.545		
3,3',5,5' - TeCB	80		U		0.622		
3,4,4',5 - TeCB	81		U		0.672		
2,2',3,3',4 - PeCB	82			0.609 <i>UB</i>	0.183	1.51	1.329
2,2',3,3',5 - PeCB	83	83 + 99	C	2.50 <i>UB</i>	0.161	1.40	1.260
2,2',3,3',6 - PeCB	84		K	1.55 <i>UBR</i>	0.180	1.22	1.164
2,2',3,4,4' - PeCB	85	85 + 116 + 117	CK	2.24 <i>UR</i>	0.136	1.86	1.310
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CK	3.32 <i>UR</i>	0.137	1.88	1.283
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	CK	1.11 <i>UBR</i>	0.155	1.21	1.154
2,2',3,4,6' - PeCB	89		U		0.168		
2,2',3,4',5 - PeCB	90	90 + 101 + 113	C	4.58 <i>UB</i>	0.140	1.50	1.238
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		K	1.02 <i>UR</i>	0.161	1.29	0.854
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	C	4.27 <i>UB</i>	0.149	1.67	1.121
2,2',3,5,6' - PeCB	94		U		0.163		
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96		U		0.0098		
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103		U		0.139		
2,2',4,6,6' - PeCB	104		K	0.126 <i>UR</i>	0.0125	1.03	1.002
2,3,3',4,4' - PeCB	105			3.95 <i>UB1</i>	0.216	1.36	1.000
2,3,3',4,5 - PeCB	106		U		0.199		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT	
2,3,3',4',5 - PeCB	107	107 + 124	C K	0.520	UBR	0.216	1.21	1.410
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86					
2,3,3',4,6' - PeCB	109		K	1.05	UR	0.209	1.12	1.419
2,3,3',4',6 - PeCB	110	110 + 115	C	8.90	UB2	0.119	1.50	1.317
2,3,3',5,5' - PeCB	111		U			0.121		
2,3,3',5,6' - PeCB	112		U			0.119		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90					
2,3,4,4',5 - PeCB	114			0.469		0.207	1.42	1.000
2,3,4,4',6 - PeCB	115	110 + 115	C110					
2,3,4,5,6 - PeCB	116	85 + 116 + 117	C85					
2,3,4',5,6 - PeCB	117	85 + 116 + 117	C85					
2,3',4,4',5 - PeCB	118		K	7.30	UR	0.207	2.08	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86					
2,3',4,5,5' - PeCB	120		U			0.119		
2,3',4,5',6 - PeCB	121		U			0.118		
2',3,3',4,5 - PeCB	122		K	0.241	UR	0.230	3.41	1.010
2',3,4,4',5 - PeCB	123		K	0.491	UR	0.216	1.29	1.000
2',3,4,5,5' - PeCB	124	107 + 124	C107					
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86					
3,3',4,4',5 - PeCB	126		U			0.243		
3,3',4,5,5' - PeCB	127		U			0.224		
2,2',3,3',4,4' - HxCB	128	128 + 166	C	2.02	UB	0.194	1.27	0.959
2,2',3,3',4,5' - HxCB	129	129 + 138 + 160 + 163	C K	9.33	UR	0.187	1.50	0.929
2,2',3,3',4,5' - HxCB	130		K	0.718	UBR	0.241	0.54	0.913
2,2',3,3',4,6' - HxCB	131		U			0.221		
2,2',3,3',4,6' - HxCB	132		K	1.75	UR	0.220	1.53	1.174
2,2',3,3',5,5' - HxCB	133		K	0.221	UR	0.216	1.48	1.191
2,2',3,3',5,6' - HxCB	134	134 + 143	C U			0.222		
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	C	1.87	UB2	0.0142	1.13	1.103
2,2',3,3',6,6' - HxCB	136		K	0.668	UBR	0.0107	2.04	1.024
2,2',3,4,4',5 - HxCB	137		K	0.774	UR	0.216	1.03	0.919
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129					
2,2',3,4,4',6 - HxCB	139	139 + 140	C U			0.200		
2,2',3,4,4',6' - HxCB	140	139 + 140	C139					
2,2',3,4,5,5' - HxCB	141		K	1.26	UR	0.212	1.57	0.904
2,2',3,4,5,6 - HxCB	142		U			0.225		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134					
2,2',3,4,5',6 - HxCB	144		K	0.153	UR	0.0150	0.64	1.121
2,2',3,4,6,6' - HxCB	145		U			0.0109		
2,2',3,4',5,5' - HxCB	146		K	1.38	UR	0.192	1.73	0.885
2,2',3,4',5,6 - HxCB	147	147 + 149	C	3.87	UB	0.199	1.33	1.133
2,2',3,4',5,6' - HxCB	148		U			0.0148		
2,2',3,4',5',6 - HxCB	149	147 + 149	C147					

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',8,8' - HxCB	150		K	0.018 <i>UR</i>	0.0104	0.48	1.011
2,2',3,5,5',8 - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,8,8' - HxCB	152		U		0.0102		
2,2',4,4',5,5' - HxCB	153	153 + 188	C	5.70 <i>UB1</i>	0.168	1.14	0.899
2,2',4,4',5,8' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,8' - HxCB	155			0.108 <i>UB</i>	0.0104	1.09	1.001
2,3,3',4,4',5 - HxCB	156	156 + 157	C	0.853 <i>UB</i>	0.200	1.22	1.000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6 - HxCB	158		K	0.812 <i>UBR</i>	0.152	1.80	0.938
2,3,3',4,5,5' - HxCB	159		U		0.167		
2,3,3',4,5,8 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',8 - HxCB	161		U		0.158		
2,3,3',4',5,5' - HxCB	162		U		0.165		
2,3,3',4',5,8 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',8 - HxCB	164			0.884	0.163	1.41	0.922
2,3,3',5,5',8 - HxCB	165		U		0.168		
2,3,4,4',5,8 - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167			0.391 <i>UB2</i>	0.160	1.26	1.001
2,3',4,4',5',8 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		0.176		
2,2',3,3',4,4',5 - HpCB	170		K	2.14 <i>UBR</i>	0.0182	1.49	0.936
2,2',3,3',4,4',6 - HpCB	171	171 + 173	C	0.610	0.0175	0.98	1.162
2,2',3,3',4,5,5' - HpCB	172		K	0.453 <i>UR</i>	0.0181	1.24	0.898
2,2',3,3',4,5,8 - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,8' - HpCB	174		K	1.29 <i>UR</i>	0.0160	0.78	1.132
2,2',3,3',4,5',8 - HpCB	175		U		0.0158		
2,2',3,3',4,6,8' - HpCB	176		K	0.152 <i>UR</i>	0.0119	1.94	1.035
2,2',3,3',4',5,8 - HpCB	177			0.558	0.0178	1.03	1.144
2,2',3,3',5,5',8 - HpCB	178			0.659 <i>UB2</i>	0.0162	0.97	1.084
2,2',3,3',5,6,8' - HpCB	179		K	0.704 <i>UR</i>	0.0112	0.85	1.010
2,2',3,4,4',5,5' - HpCB	180	180 + 193	C	4.01 <i>UB2</i>	0.0142	0.95	0.911
2,2',3,4,4',5,8 - HpCB	181		U		0.0160		
2,2',3,4,4',5,8' - HpCB	182		U		0.0157		
2,2',3,4,4',5',8 - HpCB	183	183 + 185	C	1.37 <i>UB1</i>	0.0157	1.15	1.126
2,2',3,4,4',8,8' - HpCB	184		U		0.0108		
2,2',3,4,5,5',8 - HpCB	185	183 + 185	C183				
2,2',3,4,5,6,8' - HpCB	186		U		0.0118		
2,2',3,4',5,5',8 - HpCB	187			2.24 <i>UB1</i>	0.0144	1.13	1.109
2,2',3,4',5,6,8' - HpCB	188		K	0.090 <i>UR</i>	0.0112	2.55	1.001
2,3,3',4,4',5,5' - HpCB	189		K	0.106 <i>UBR</i>	0.0104	0.44	1.000
2,3,3',4,4',5,8 - HpCB	190		K	0.432 <i>UR</i>	0.0131	1.74	0.947
2,3,3',4,4',5',8 - HpCB	191		K	0.128 <i>UR</i>	0.0129	2.06	0.918
2,3,3',4,5,5',8 - HpCB	192		U		0.0141		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194			0.850 <i>UB</i>	0.0167	0.75	0.992
2,2',3,3',4,4',5,6 - OcCB	195		K	0.359 <i>UR</i>	0.0178	0.36	0.946
2,2',3,3',4,4',5,6' - OcCB	196		K	0.268 <i>UR</i>	0.0261	1.66	0.916
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	C K	0.220 <i>UR</i>	0.0182	0.57	1.048
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	C	1.19	0.0249	0.98	1.114
2,2',3,3',4,5,5',6' - OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6' - OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6' - OcCB	201		K	0.138 <i>UBR</i>	0.0189	0.36	1.024
2,2',3,3',5,5',6,6' - OcCB	202		K	0.279 <i>UR</i>	0.0196	2.21	1.001
2,2',3,4,4',5,5',6 - OcCB	203			0.801 <i>UBZ</i>	0.0241	0.86	0.920
2,2',3,4,4',5,6,6' - OcCB	204		U		0.0184		
2,3,3',4,4',5,5',6 - OcCB	205		K	0.131 <i>UR</i>	0.0145	0.24	1.000
2,2',3,3',4,4',5,5',6 - NoCB	206		U		1.03		
2,2',3,3',4,4',5,6,6' - NoCB	207		U		0.797		
2,2',3,3',4,5,5',6,6' - NoCB	208		U		0.877		
2,2',3,3',4,4',5,5',6,6' - DeCB	209		K	0.788 <i>UR</i>	0.0138	0.38	1.001

(1) C = co-eluting congener; U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

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11/19/03



Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Matrix: AQUEOUS

Sample Receipt Date: 16-May-2003

Extraction Date: 30-Jun-2003

Analysis Date: 07-Jul-2003

Extract Volume (µL): 22

Injection Volume (µL): 1.0

Dilution Factor: N/A

Concentration Units : pg absolute

Sample Collection: 15-May-2003

Lab Sample ID: L5850-4

Sample Size: 0.925 L

Initial Calibration Date: 19-Jun-2003

Instrument ID: HR GC/MS

GC Column ID: SPB-OCTYL

Sample Datafile: PB3C_357 S:8

Blank Data Filename: PB3C_357 S:4

Cal. Ver. Data Filename: PB3C_357 S:1

Time: 4:22:53

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2 - MoCB	1L			2000	1100	54.8	3.24	0.719
13C12-4 - MoCB	3L			2000	903	45.1	3.08	0.858
13C12-2,2' - DiCB	4L			2000	964	48.2	1.55	0.873
13C12-4,4' - DiCB	15L			2000	812	40.8	1.56	1.252
13C12-2,2',6 - TriCB	19L			2000	957	47.8	1.07	1.072
13C12-3,4,4' - TriCB	37L			2000	1110	55.7	1.03	1.092
13C12-2,2',6,6' - TeCB	54L			2000	940	47.0	0.82	0.812
13C12-3,3',4,4' - TeCB	77L			2000	1350	67.6	0.76	1.395
13C12-3,4,4',5 - TeCB	81L			2000	1460	72.8	0.76	1.372
13C12-2,2',4,6,6' - PeCB	104L			2000	977	48.8	1.55	0.808
13C12-2,3,3',4,4' - PeCB	105L			2000	1700	84.8	1.57	1.199
13C12-2,3,4,4',5 - PeCB	114L			2000	1630	81.6	1.59	1.178
13C12-2,3',4,4',5 - PeCB	118L			2000	1680	83.8	1.58	1.161
13C12-2',3,4,4',5 - PeCB	123L			2000	1650	82.6	1.58	1.150
13C12-3,3',4,4',5 - PeCB	126L			2000	1730	86.4	1.56	1.299
13C12-2,2',4,4',6,6' - HxCB	155L			2000	1270	63.6	1.27	0.787
13C12-2,3,3',4,4',5 - HxCB	156L	156L + 157L	C	4000	3230	80.8	1.30	1.107
13C12-2,3,3',4,4',5' - HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5' - HxCB	167L			2000	1610	80.4	1.31	1.077
13C12-3,3',4,4',5,5' - HxCB	169L			2000	1590	79.4	1.33	1.190
13C12-2,2',3,3',4,4',5 - HpCB	170L			2000	1660	82.8	1.07	0.897
13C12-2,2',3,4,4',5,5' - HpCB	180L			2000	1620	80.9	1.07	0.873
13C12-2,2',3,4',5,6,6' - HpCB	188L			2000	1530	76.5	1.08	0.713
13C12-2,3,3',4,4',5,5' - HpCB	189L			2000	1730	86.5	1.05	0.959
13C12-2,2',3,3',5,5',6,6' - OcCB	202L			2000	1640	81.9	0.92	0.818
13C12-2,3,3',4,4',5,5',6 - OcCB	205L			2000	1620	80.8	0.91	1.009
13C12-2,2',3,3',4,4',5,5',6 - NoCB	206L			2000	1560	77.9	0.80	1.043
13C12-2,2',3,3',4,5,5',6,6' - NoCB	208L			2000	1590	79.6	0.83	0.950
13C12-2,2',3,3',4,4',5,5',6,6' - DeCB	209L			2000	1630	81.7	1.22	1.075

Form 2 (Continued)
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D16GW-030515

Lab Name: AXYS ANALYTICAL SERVICES		Sample Collection:	15-May-2003
Contract No.: 9952		Lab Sample ID:	L5850-4
Matrix: AQUEOUS		Sample Size:	0.925 L
Sample Receipt Date: 16-May-2003		Initial Calibration Date:	19-Jun-2003
Extraction Date: 30-Jun-2003		Instrument ID:	HR GC/MS
Analysis Date: 07-Jul-2003	Time: 4:22:53	GC Column ID:	SPB-OCTYL
Extract Volume (µL): 22		Sample Datafile:	PB3C_357 S:8
Injection Volume (µL): 1.0		Blank Data Filename:	PB3C_357 S:4
Dilution Factor: N/A		Cal. Ver. Data Filename:	PB3C_357 S:1
Concentration Units : pg absolute			

CLEAN-UP STANDARD	IUPAC NO. ¹	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12- 2,4,4' - TriCB	28L		2000	1310	65.7	1.03	0.925
13C12-2,3,3',5,5' - PeCB	111L		2000	1610	80.4	1.61	1.087
13C12-2,2',3,3',5,5',6 - HpCB	178L		2000	1760	87.9	1.08	1.012

(1) Suffix "L" indicates labeled compound

(2) C = co-eluting congener; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

(3) R% = percent recovery of labeled compounds

Form 1A
HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.:	9952	Lab Sample ID:	L5850-4	
Matrix:	AQUEOUS	Sample Size:	0.925 L	
Sample Receipt Date:	16-May-2003	Initial Calibration Date:	19-Jun-2003	
Extraction Date:	30-Jun-2003	Instrument ID:	HR GC/MS	
Analysis Date:	07-Jul-2003	Time: 4:22:53	GC Column ID:	SPB-OCTYL
Extract Volume (µL):	22	Blank Data Filename:	PB3C_357 S:4	
Injection Volume (µL):	1.0	Cal. Ver. Data Filename:	PB3C_357 S:1	
Dilution Factor:	N/A	Sample Datafile(s):	PB3C_357 S:8	
Concentration Units :	pg/L			

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Total Monochloro Biphenyls		3.38 U	0.302
Total Dichloro Biphenyls		5.48 U	1.05
Total Trichloro Biphenyls		12.2 U	0.416
Total Tetrachloro Biphenyls		15.9 92.8	0.761
Total Pentachloro Biphenyls		0.469 25.3	0.243
Total Hexachloro Biphenyls		0.884 18.7	0.241
Total Heptachloro Biphenyls	RM	1.17 9.44	0.0182
Total Octachloro Biphenyls		1.19 2.84	0.0261
Total Nonachloro Biphenyls	U		1.03
Decachloro Biphenyl	U		0.0138
TOTAL PCBs		19.6 167	

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(1) U = Not detected
(2) All header information pertains to the initial instrumental analysis of the sample extract.
Additional sample datafiles listed refer to secondary analysis of the sample extract.

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES
Contract No.: 9952
Matrix: AQUEOUS
Sample Size: 0.925 L
Concentration Units: pg/L

Sample Collection: 15-May-2003
Lab Sample ID: L5850-4
GC Column ID(s): SPB-OCTYL
Sample Datafile(s): PB3C_357 S:8

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ	
							U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			1.26	0.761	0.0001	1.26E-04	1.26E-04
3,4,4',5-TetraCB	81		U		0.672	0.0001	3.36E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			3.95 UB1	0.216	0.0001	3.95E-04 7.08E-5	3.95E-04 0.0
2,3,4,4',5-PentaCB	114			0.469	0.207	0.0005	2.35E-04	2.35E-04
2,3',4,4',5-PentaCB	118		U		0.207	0.0001	1.04E-05	0.00E+00
2',3,4,4',5-PentaCB	123		U		0.216	0.0001	1.08E-05	0.00E+00
3,3',4,4',5-PentaCB	126		U		0.243	0.1	1.21E-02	0.00E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	C	0.853 UB	0.200	0.0005	4.27E-04 5.0E-5	4.27E-04 0.0
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			0.391 UB2	0.160	0.00001	3.91E-06 8.0E-7	3.91E-06 0.0
3,3',4,4',5,5'-HexaCB	169		U		0.176	0.01	8.80E-04	0.00E+00
2,2',3,3',4,4',5-HeptaCB	170		Z					
2,2',3,4,4',5,5'-HeptaCB	180	180 + 193	Z					
2,3,3',4,4',5,5'-HeptaCB	189		U		0.0104	0.0001	5.20E-07	0.00E+00
2,3,3',4',5,5',6-HeptaCB	193	180 + 193	Z					
TOTAL TEQ							0.0142 0.0134	0.00119 0.00036

(1) C = co-eluting congener; U = not detected; Z = compound not requested
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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Form 1A
PCB AROCLOR EQUIVALENT ANALYSIS REPORT

CLIENT ID:
AN-D16GW-030515

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-4

Matrix: AQUEOUS

Sample Size: 0.925 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 4:22:53

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_357 S: 8

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units: pg/L

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Aroclor 1016	12674-11-2	Z		
Aroclor 1221	11104-28-2	U		0.865
Aroclor 1232	11141-16-5	U		1.03
Aroclor 1242	53469-21-9 <i>8/18/2012/131 X 3</i>		<i>18.0 U</i>	1.85
Aroclor 1248	12672-29-6	U		3.74
Aroclor 1254	11097-69-1 <i>83/86 X 8</i>		<i>28.0 U</i>	1.29
Aroclor 1260	11096-82-5 <i>120/180/183 X 5</i>		<i>28.9 U</i>	0.0910

(1) U = not detected; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately
(2) PCB Aroclor equivalents were calculated from individual PCB congener concentrations using empirically determined conversion factors.

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11/19/03

Approved by: *Kawthorne* QA/QC Chemist

SAMPLE NO. AN-D66GW-030515

Field Duplicate of
AN-D16GW-030515
(L5850-4)

AXYS METHOD MLA-010 Rev 04
1668A-S1_209

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D66GW-030515

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-5

Matrix: AQUEOUS

Sample Size: 0.901 L

Sample Receipt Date: 18-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 18-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 1:56:54

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Data Filename: PB3C_393 S:5

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_392 S:7

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_393 S:1

Concentration Units : pg/L

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		K	2.85 UBR	0.765	2.27	1.001
3 - MoCB	2			2.99 UB	0.808	2.97	0.988
4 - MoCB	3		K	4.17 UBR	0.685	3.84	1.000
2,2' - DiCB	4		U		2.13	not run	
2,3 - DiCB	5		U		1.52		
2,3' - DiCB	6		U		1.41		
2,4 - DiCB	7			29.1 UB	1.39	1.41	1.159
2,4' - DiCB	8		K	4.55 UBR	1.32	0.93	1.209
2,5 - DiCB	9		U		1.39		
2,6 - DiCB	10		U		1.45		
3,3' - DiCB	11		K	14.2 UBR	1.53	1.94	0.970
3,4 - DiCB	12	12 + 13	CU		1.50		
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		1.50		
4,4' - DiCB	15		K	3.25 UR	1.82	1.04	1.000
2,2',3 - TriCB	16			1.46 UB2	0.510	1.05	1.164
2,2',4 - TriCB	17			2.04 UB	0.439	1.18	1.138
2,2',5 - TriCB	18	18 + 30	CK	3.64 UBR	0.358	1.35	1.113
2,2',6 - TriCB	19			0.641 UB1	0.503	1.11	1.000
2,3,3' - TriCB	20	20 + 28	C	5.88 UB	0.364	1.15	0.848

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Approved by: Rawsthorne QA/QC Chemist

28-08-2003
dd-mm-yyyy

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	C	3.98 UB	0.352	0.89	0.856
2,3,4' - TriCB	22			1.91 UB	0.404	1.17	0.871
2,3,5 - TriCB	23		U		0.372		
2,3,6 - TriCB	24		U		0.307		
2,3',4 - TriCB	25		K	0.574 UR	0.329	0.79	0.825
2,3',5 - TriCB	26	26 + 29	CK	0.912 UR	0.375	1.23	1.301
2,3',6 - TriCB	27		U		0.300		
2,4,4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31			5.55 UB	0.361	1.08	0.837
2,4',6 - TriCB	32		K	1.09 UBR	0.351	1.24	1.196
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34		U		0.380		
3,3',4 - TriCB	35		U		0.388		
3,3',5 - TriCB	36		U		0.377		
3,4,4' - TriCB	37		K	2.42 UR	0.414	1.31	1.000
3,4,5 - TriCB	38		U		0.393		
3,4',5 - TriCB	39		U		0.373		
2,2',3,3' - TeCB	40	40 + 41 + 71	C	2.68 UB1	0.408	0.87	1.335
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		K	0.664 UR	0.428	0.98	1.311
2,2',3,5 - TeCB	43		U		0.470		
2,2',3,5' - TeCB	44	44 + 47 + 65	C	42.7 UB1	0.378	0.83	1.287
2,2',3,6 - TeCB	45	45 + 51	C	38.3 UB1	0.403	0.81	1.149
2,2',3,6' - TeCB	46		U		0.486		
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48		U		0.404		
2,2',4,5' - TeCB	49	49 + 69	C	3.78 UB	0.354	0.71	1.259
2,2',4,6 - TeCB	50	50 + 53	CK	0.782 UR	0.388	0.96	1.110
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52			9.17 UB	0.401	0.82	1.234
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54		U		0.324		
2,3,3',4 - TeCB	55		U		0.611		
2,3,3',4' - TeCB	56			1.96	0.640	0.74	0.905
2,3,3',5 - TeCB	57		U		0.592		
2,3,3',5' - TeCB	58		U		0.594		
2,3,3',6 - TeCB	59	59 + 62 + 75	C U		0.311		
2,3,4,4' - TeCB	60			1.24	0.832	0.78	0.911
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	C	10.4 UB	0.595	0.81	0.875
2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3,4',5 - TeCB	63		U		0.597		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4',6 - TeCB	64			5.93	0.299	0.68	1.348
2,3,5,8 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66			10.6	0.609	0.86	0.885
2,3',4,5 - TeCB	67		U		0.528		
2,3',4,5' - TeCB	68			23.3 <i>UBI</i>	0.540	0.80	0.832
2,3',4,6 - TeCB	69	49 + 69	C49				
2,3',4',5 - TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6 - TeCB	71	40 + 41 + 71	C40				
2,3',5,5' - TeCB	72		U		0.568		
2,3',5',6 - TeCB	73		U		0.303		
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6 - TeCB	75	59 + 62 + 75	C59				
2',3,4,5 - TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB	77		K	1.92 <i>UR</i>	0.711	0.92	1.000
3,3',4,5 - TeCB	78		U		0.679		
3,3',4,5' - TeCB	79		U		0.545		
3,3',5,5' - TeCB	80		U		0.593		
3,4,4',5 - TeCB	81		U		0.722		
2,2',3,3',4 - PeCB	82		U		0.454		
2,2',3,3',5 - PeCB	83	83 + 99	C	6.23 <i>UBI</i>	0.397	1.78	1.261
2,2',3,3',6 - PeCB	84			3.58	0.445	1.71	1.163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	C	4.31	0.338	1.65	1.309
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	7.69 <i>UBI</i>	0.336	1.65	1.284
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	C	2.30	0.384	1.40	1.154
2,2',3,4,6' - PeCB	89		U		0.416		
2,2',3,4',5 - PeCB	90	90 + 101 + 113	C	13.3	0.343	1.68	1.238
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92			2.73 <i>UBI</i>	0.400	1.59	0.853
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	C U		0.369		
2,2',3,5,6' - PeCB	94		U		0.398		
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			0.055	0.0541	1.43	1.015
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103		U		0.336		
2,2',4,6,6' - PeCB	104		K	0.069 <i>UR</i>	0.0582	0.55	1.001
2,3,3',4,4' - PeCB	105			7.12 <i>UBI</i>	0.543	1.63	1.000
2,3,3',4,5 - PeCB	106		U		0.544		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5 - PeCB	107	107 + 124	CK	0.889 <i>UR</i>	0.555	1.16	1.410
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6 - PeCB	109			1.28	0.500	1.63	1.419
2,3,3',4',6 - PeCB	110	110 + 115	C	20.7	0.290	1.74	1.317
2,3,3',5,5' - PeCB	111		U		0.298		
2,3,3',5,6 - PeCB	112		U		0.294		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114		K	0.716 <i>UR</i>	0.537	1.16	1.000
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3,4,5,6 - PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6 - PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5 - PeCB	118			13.8 <i>UBI</i>	0.529	1.57	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120		U		0.292		
2,3',4,5',6 - PeCB	121		U		0.285		
2',3,3',4,5 - PeCB	122		U		0.602		
2',3,4,4',5 - PeCB	123		U		0.543		
2',3,4,5,5' - PeCB	124	107 + 124	C107				
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5 - PeCB	126		U		0.632		
3,3',4,5,5' - PeCB	127		U		0.565		
2,2',3,3',4,4' - HxCB	128	126 + 166	CK	4.60 <i>UR</i>	0.300	0.97	0.959
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	C	23.2 <i>UBI</i>	0.295	1.18	0.929
2,2',3,3',4,5' - HxCB	130		K	1.36 <i>UR</i>	0.384	1.57	0.913
2,2',3,3',4,6 - HxCB	131		U		0.355		
2,2',3,3',4,6' - HxCB	132			7.51 <i>UBZ</i>	0.366	1.39	1.174
2,2',3,3',5,5' - HxCB	133		U		0.347		
2,2',3,3',5,6 - HxCB	134	134 + 143	CU		0.356		
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	C	5.73 <i>UB</i>	0.170	1.26	1.103
2,2',3,3',6,6' - HxCB	136			2.36 <i>UBI</i>	0.131	1.38	1.024
2,2',3,4,4',5 - HxCB	137		K	1.34 <i>UR</i>	0.330	0.72	0.919
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6 - HxCB	139	139 + 140	CK	0.383 <i>UR</i>	0.321	0.71	1.152
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141			4.21 <i>UB</i>	0.338	1.11	0.904
2,2',3,4,5,6 - HxCB	142		U		0.368		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5',6 - HxCB	144		K	0.972 <i>UR</i>	0.177	2.07	1.121
2,2',3,4,6,6' - HxCB	145		U		0.132		
2,2',3,4',5,5' - HxCB	146			2.80 <i>UBI</i>	0.311	1.16	0.884
2,2',3,4',5,6 - HxCB	147	147 + 149	C	15.4 <i>UBI</i>	0.323	1.39	1.133
2,2',3,4',5,6' - HxCB	148		U		0.178		
2,2',3,4',5',6 - HxCB	149	147 + 149	C147				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',6,8' - HxCB	150		U		0.126		
2,2',3,5,5',8' - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6' - HxCB	152		U		0.123		
2,2',4,4',5,5' - HxCB	153	153 + 168	C	15.9 <i>UB2</i>	0.267	1.25	0.899
2,2',4,4',5,6' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6' - HxCB	155		K	0.120 <i>UR</i>	0.114	0.59	1.001
2,3,3',4,4',5 - HxCB	156	156 + 157	CK	2.73 <i>UR</i>	0.322	1.53	1.000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6 - HxCB	158		K	2.09 <i>UR</i>	0.243	0.76	0.938
2,3,3',4,5,5' - HxCB	159		U		0.263		
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB	161		U		0.252		
2,3,3',4',5,5' - HxCB	162		U		0.261		
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB	164			1.76	0.265	1.22	0.921
2,3,3',5,5',6 - HxCB	165		U		0.276		
2,3,4,4',5,6 - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167			1.01 <i>UB2</i>	0.240	1.12	1.001
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		0.279		
2,2',3,3',4,4',5 - HpCB	170			4.85 <i>UB1</i>	0.0807	1.20	0.936
2,2',3,3',4,4',6 - HpCB	171	171 + 173	CK	1.38 <i>UR</i>	0.0778	0.81	1.162
2,2',3,3',4,5,5' - HpCB	172		K	0.769 <i>UR</i>	0.0792	0.17	0.897
2,2',3,3',4,5,6 - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6' - HpCB	174		K	3.87 <i>UBR</i>	0.0718	0.78	1.133
2,2',3,3',4,5',6 - HpCB	175		K	0.204 <i>UR</i>	0.0696	0.53	1.103
2,2',3,3',4,6,6' - HpCB	176		K	0.618 <i>UBR</i>	0.0529	1.75	1.033
2,2',3,3',4',5,6 - HpCB	177		K	2.50 <i>UR</i>	0.0749	0.79	1.145
2,2',3,3',5,5',6 - HpCB	178		K	0.981 <i>UR</i>	0.0720	0.68	1.085
2,2',3,3',5,6,6' - HpCB	179			1.86 <i>UB</i>	0.0514	1.08	1.009
2,2',3,4,4',5,5' - HpCB	180	180 + 193	CK	8.84 <i>UBR</i>	0.0629	0.83	0.911
2,2',3,4,4',5,6 - HpCB	181		K	0.250 <i>UR</i>	0.0704	1.57	1.155
2,2',3,4,4',5,6' - HpCB	182		K	0.159 <i>UR</i>	0.0699	0.38	1.114
2,2',3,4,4',5',6 - HpCB	183	183 + 185	C	2.92 <i>UB</i>	0.0692	1.14	1.126
2,2',3,4,4',6,6' - HpCB	184		K	0.050 <i>UR</i>	0.0485	1.36	1.025
2,2',3,4,5,5',6 - HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6' - HpCB	186		U		0.0533		
2,2',3,4',5,5',6 - HpCB	187			6.36 <i>UB</i>	0.0646	1.10	1.109
2,2',3,4',5,6,6' - HpCB	188		K	0.061 <i>UR</i>	0.0510	4.73	1.001
2,3,3',4,4',5,5' - HpCB	189		K	0.150 <i>UBR</i>	0.107	1.53	1.000
2,3,3',4,4',5,6 - HpCB	190			0.942 <i>UB2</i>	0.0595	1.20	0.947
2,3,3',4,4',5',6 - HpCB	191		K	0.132 <i>UR</i>	0.0579	0.28	0.918
2,3,3',4,5,5',6 - HpCB	192		U		0.0614		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194			2.10	0.0842	0.89	0.991
2,2',3,3',4,4',5,6 - OcCB	195			0.817	0.0897	1.02	0.945
2,2',3,3',4,4',5,6' - OcCB	196		K	1.20 <i>UR</i>	0.0754	0.70	0.916
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	C K	0.705 <i>UR</i>	0.0562	0.50	1.046
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	C K	3.08 <i>UR</i>	0.0760	0.67	1.114
2,2',3,3',4,5,5',6' - OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6' - OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6' - OcCB	201		K	0.282 <i>UR</i>	0.0565	1.17	1.023
2,2',3,3',5,5',6,6' - OcCB	202		K	0.675 <i>UR</i>	0.0587	1.14	1.000
2,2',3,4,4',5,5',6 - OcCB	203		K	1.65 <i>UR</i>	0.0700	1.19	0.920
2,2',3,4,4',5,6,6' - OcCB	204		K	0.180 <i>UR</i>	0.0578	0.72	1.039
2,3,3',4,4',5,5',6 - OcCB	205		K	0.277 <i>UR</i>	0.0707	2.75	1.000
2,2',3,3',4,4',5,5',6 - NoCB	206		K	1.44 <i>UR</i>	0.689	1.05	1.000
2,2',3,3',4,4',5,6,6' - NoCB	207		U		0.542		
2,2',3,3',4,5,5',6,6' - NoCB	208		K	0.637 <i>UR</i>	0.561	0.51	1.000
2,2',3,3',4,4',5,5',6,6' - DeCB	209			1.05 <i>UB</i>	0.0764	0.59	1.000

(1) C = co-eluting congener; U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

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Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D66GW-030515

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: 15-May-2003

Contract No.: 9952

Lab Sample ID: L5850-5

Matrix: AQUEOUS

Sample Size: 0.901 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 18-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 1:56:54

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_393 S:5

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_392 S:7

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_393 S:1

Concentration Units : pg absolute

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2 - MoCB	1L		V	2000	370	18.5	3.22	0.719
13C12-4 - MoCB	3L			2000	570	28.5	3.08	0.858
13C12-2,2' - DiCB	4L			2000	684	34.2	1.56	0.873
13C12-4,4' - DiCB	15L			2000	805	40.2	1.53	1.253
13C12-2,2',6 - TriCB	19L			2000	809	40.4	1.06	1.072
13C12-3,4,4' - TriCB	37L			2000	1130	56.7	1.02	1.092
13C12-2,2',6,6' - TeCB	54L			2000	890	44.5	0.80	0.811
13C12-3,3',4,4' - TeCB	77L			2000	1270	63.6	0.75	1.396
13C12-3,4,4',5 - TeCB	81L			2000	1240	62.1	0.76	1.372
13C12-2,2',4,6,6' - PeCB	104L			2000	941	47.0	1.55	0.808
13C12-2,3,3',4,4' - PeCB	105L			2000	1500	75.1	1.60	1.200
13C12-2,3,4,4',5 - PeCB	114L			2000	1430	71.3	1.58	1.179
13C12-2,3',4,4',5 - PeCB	118L			2000	1450	72.4	1.56	1.161
13C12-2',3,4,4',5 - PeCB	123L			2000	1440	72.2	1.58	1.151
13C12-3,3',4,4',5 - PeCB	126L			2000	1480	73.9	1.58	1.300
13C12-2,2',4,4',6,6' - HxCB	155L			2000	1170	58.5	1.30	0.786
13C12-2,3,3',4,4',5 - HxCB	156L	156L + 157L	C	4000	2880	72.0	1.29	1.107
13C12-2,3,3',4,4',5' - HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5' - HxCB	167L			2000	1480	74.2	1.28	1.077
13C12-3,3',4,4',5,5' - HxCB	169L			2000	1360	67.9	1.29	1.191
13C12-2,2',3,3',4,4',5 - HpCB	170L			2000	1580	78.9	1.09	0.897
13C12-2,2',3,4,4',5,5' - HpCB	180L			2000	1590	79.7	1.06	0.873
13C12-2,2',3,4',5,6,6' - HpCB	188L			2000	1530	76.5	1.09	0.713
13C12-2,3,3',4,4',5,5' - HpCB	189L			2000	1530	76.5	1.06	0.959
13C12-2,2',3,3',5,5',6,6' - OcCB	202L			2000	1790	89.6	0.91	0.818
13C12-2,3,3',4,4',5,5',6 - OcCB	205L			2000	1490	74.6	0.90	1.009
13C12-2,2',3,3',4,4',5,5',6 - NoCB	206L			2000	1560	77.8	0.82	1.044
13C12-2,2',3,3',4,5,5',6,6' - NoCB	208L			2000	1640	82.1	0.84	0.949
13C12-2,2',3,3',4,4',5,5',6,6' - DeCB	209L			2000	1570	78.5	1.19	1.075

Form 2 (Continued)
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D68GW-030515

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: 15-May-2003

Contract No.: 9952

Lab Sample ID: L5850-5

Matrix: AQUEOUS

Sample Size: 0.901 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 16-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 1:56:54

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_393 S:5

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_392 S:7

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_393 S:1

Concentration Units : pg absolute

CLEAN-UP STANDARD	IUPAC NO. ¹	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2,4,4' - TriCB	28L		2000	996	49.8	1.05	0.925
13C12-2,3,3',5,5' - PeCB	111L		2000	1300	65.1	1.60	1.087
13C12-2,2',3,3',5,5',6 - HpCB	178L		2000	1450	72.4	1.09	1.012

(1) Suffix "L" indicates labeled compound

(2) C = co-eluting congener; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately; V = surrogate recovery is not within method control limits

(3) R% = percent recovery of labeled compounds

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Approved by:  QA/QC Chemist

28-08-2003
dd-mm-yyyy

Form 1A
HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.:	9952	Lab Sample ID:	L5850-5
Matrix:	AQUEOUS	Sample Size:	0.901 L
Sample Receipt Date:	16-May-2003	Initial Calibration Date:	19-Jun-2003
Extraction Date:	18-Jul-2003	Instrument ID:	HR GC/MS
Analysis Date:	25-Jul-2003	GC Column ID:	SPB-OCTYL
Extract Volume (µL):	22	Blank Data Filename:	PB3C_392 S:7
Injection Volume (µL):	1.0	Cal. Ver. Data Filename:	PB3C_393 S:1
Dilution Factor:	N/A	Sample Datafile(s):	PB3C_393 S:5
Concentration Units :	pg/L		

Time: 1:56:54

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Total Monochloro Biphenyls		2.93 U	0.808
Total Dichloro Biphenyls		29.1 U	2.13
Total Trichloro Biphenyls		21.3 U	0.510
Total Tetrachloro Biphenyls		19.7 150	0.722
Total Pentachloro Biphenyls		45.5 93.1	0.632
Total Hexachloro Biphenyls		1.76 79.9	0.384
Total Heptachloro Biphenyls		16.9 U	0.107
Total Octachloro Biphenyls		2.92	0.0897
Total Nonachloro Biphenyls	U		0.689
Decachloro Biphenyl		1.05 U	0.0764
TOTAL PCBs		69.9 387	

(1) U = Not detected
(2) All header information pertains to the initial instrumental analysis of the sample extract.
Additional sample datafiles listed refer to secondary analysis of the sample extract.

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: 15-May-2003

Contract No.: 9952

Matrix: AQUEOUS

Lab Sample ID: L5850-5

Sample Size: 0.901 L

GC Column ID(s): SPB-OCTYL

Concentration Units: pg/L

Sample Datafile(s): PB3C_393 S:5

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
							U=1/2 DL	U=0	
3,3',4,4'-TetraCB	77		U		0.711	0.0001	3.55E-05	0.00E+00	
3,4,4',5-TetraCB	81		U		0.722	0.0001	3.61E-05	0.00E+00	
2,3,3',4,4'-PentaCB	105			1.12 UB1	0.543	0.0001	7.12E-04 2.72E-5	7.12E-04 0.00	
2,3,4,4',5-PentaCB	114		U		0.537	0.0005	1.34E-04	0.00E+00	
2,3',4,4',5-PentaCB	118			1.18 UB1	0.529	0.0001	1.38E-03 2.67E-5	1.38E-03 0.00	
2',3,4,4',5-PentaCB	123		U		0.543	0.0001	2.72E-05	0.00E+00	
3,3',4,4',5-PentaCB	126		U		0.632	0.1	3.16E-02	0.00E+00	
2,3,3',4,4',5-HexaCB	156	156 + 157	C U		0.322	0.0005	8.04E-05	0.00E+00	
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156				1.2E-6		
2,3',4,4',5,5'-HexaCB	167			1.01 UB2	0.240	0.00001	4.01E-05	1.01E-05 0.00	
3,3',4,4',5,5'-HexaCB	169		U		0.279	0.01	1.40E-03	0.00E+00	
2,2',3,3',4,4',5-HeptaCB	170		Z						
2,2',3,4,4',5,5'-HeptaCB	180	180 + 193	Z						
2,3,3',4,4',5,5'-HeptaCB	189		U		0.107	0.0001	5.34E-06	0.00E+00	
2,3,3',4',5,5',6-HeptaCB	193	180 + 193	Z						
TOTAL TEQ							0.0354	0.00210	0.00

0.0333

(1) C = co-eluting congener; U = not detected; Z = compound not requested
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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Form 1A
PCB AROCLOR EQUIVALENT ANALYSIS REPORT

CLIENT ID:
AN-D66GW-030515

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-5

Matrix: AQUEOUS

Sample Size: 0.901 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 18-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 1:56:54

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Blank Data Filename: PB3C_392 S:7

Injection Volume (µL): 1.0

Cal. Ver. Data Filename: PB3C_393 S:1

Dilution Factor: N/A

Sample Datafile(s): PB3C_393 S: 5

Concentration Units: pg/L

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Aroclor 1016	12674-11-2	Z		
Aroclor 1221	11104-28-2	U		1.85
Aroclor 1232	11141-16-5	U		2.60
Aroclor 1242	53469-21-9 <i>8/18/20/31 x 3</i>		<i>33.7 U</i>	3.96
Aroclor 1248	12672-29-6	U		3.71
Aroclor 1254	11097-69-1 <i>53/86 x 8</i>		<i>111 U</i>	3.18
Aroclor 1260	11096-82-5 <i>120/150/183 x 5</i>		<i>38.9 U</i>	0.404

(1) U = not detected; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

(2) PCB Aroclor equivalents were calculated from individual PCB congener concentrations using empirically determined conversion factors.

(3) All header information pertains to the initial instrumental analysis of the sample extract.

Additional sample datafiles listed refer to secondary analysis of the sample extract.

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SAMPLE NO. AN-D64GW-030515

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D64GW-030515

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-6

Matrix: AQUEOUS

Sample Size: 0.920 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 18-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 3:01:13

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Data Filename: PB3C_393 S:6

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_392 S:7

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_393 S:1

Concentration Units : pg/L

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		NQ				
3 - MoCB	2		NQ				
4 - MoCB	3		K	4.91 <i>UBR</i>	0.916	4.03	1.000
2,2' - DICB	4		K	3.32 <i>UR</i>	2.18	0.78	1.001
2,3 - DICB	5		U		1.78		
2,3' - DICB	6		U		1.64		
2,4 - DICB	7			7.38 <i>UB</i>	1.62	1.38	1.158
2,4' - DICB	8			3.94 <i>UBI</i>	1.54	1.70	1.208
2,5 - DICB	9		U		1.63		
2,6 - DICB	10		U		1.69		
3,3' - DICB	11		K	14.4 <i>UBR</i>	1.79	2.30	0.970
3,4 - DICB	12	12 + 13	CU		1.75		
3,4' - DICB	13	12 + 13	C12				
3,5 - DICB	14		U		1.75		
4,4' - DICB	15		U		2.31		
2,2',3 - TriCB	16		K	2.01 <i>UR</i>	0.693	0.79	1.165
2,2',4 - TriCB	17			2.62 <i>UB</i>	0.596	0.90	1.138
2,2',5 - TriCB	18	18 + 30	C	3.88 <i>UB</i>	0.486	0.92	1.114
2,2',6 - TriCB	19			0.670 <i>UBI</i>	0.626	1.10	1.001
2,3,3' - TriCB	20	20 + 28	C	4.58 <i>UB</i>	0.402	1.17	0.848

rem
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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	C	2.72 UB	0.388	1.00	0.856
2,3,4' - TriCB	22			1.82 UB	0.446	0.92	0.872
2,3,5 - TriCB	23		U		0.410		
2,3,6 - TriCB	24		U		0.417		
2,3',4 - TriCB	25		K	0.414 UR	0.363	0.63	0.825
2,3',5 - TriCB	26	26 + 29	CK	0.889 UR	0.413	0.66	1.302
2,3',6 - TriCB	27		K	0.551 UR	0.407	0.36	1.152
2,4,4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	28 + 29	C28				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31			4.01 UB	0.398	1.03	0.836
2,4',6 - TriCB	32		K	1.43 UBR	0.387	1.33	1.197
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34		U		0.419		
3,3',4 - TriCB	35		U		0.428		
3,3',5 - TriCB	36		U		0.415		
3,4,4' - TriCB	37			1.22 UB1	0.480	1.05	1.000
3,4,5 - TriCB	38		U		0.433		
3,4',5 - TriCB	39		U		0.411		
2,2',3,3' - TeCB	40	40 + 41 + 71	CK	1.09 UR	0.0746	1.07	1.337
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42			0.395	0.0782	0.76	1.312
2,2',3,5 - TeCB	43		K	0.134 UR	0.0859	8.41	1.247
2,2',3,5' - TeCB	44	44 + 47 + 65	CK	17.3 UBR	0.0691	1.02	1.286
2,2',3,6 - TeCB	45	45 + 51	C	27.0 UB1	0.0737	0.81	1.148
2,2',3,6' - TeCB	46		K	0.438 UR	0.0887	0.35	1.168
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48			0.451 UB2	0.0738	0.67	1.274
2,2',4,5' - TeCB	49	49 + 69	CK	2.47 UBR	0.0647	1.07	1.259
2,2',4,6 - TeCB	50	50 + 53	CK	0.923 UR	0.0708	0.94	1.110
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52			5.79 UB	0.0733	0.70	1.233
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54		K	0.181 UR	0.0565	1.07	1.001
2,3,3',4 - TeCB	55		U		0.709		
2,3,3',4' - TeCB	56			0.982	0.743	0.86	0.905
2,3,3',5 - TeCB	57		U		0.687		
2,3,3',5' - TeCB	58		U		0.689		
2,3,3',6 - TeCB	59	59 + 62 + 75	C	0.355	0.0567	0.80	1.301
2,3,4,4' - TeCB	60		K	0.901 UR	0.733	0.99	0.910
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	C	5.71 UB	0.691	0.87	0.876
2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3,4',5 - TeCB	63		U		0.692		

rev
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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4',6 - TeCB	64			2.83	0.0545	0.82	1.347
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		K	3.65 <i>UR</i>	0.706	0.58	0.885
2,3',4,5 - TeCB	67		U		0.613		
2,3',4,5' - TeCB	68			11.3 <i>UBI</i>	0.626	0.78	0.831
2,3',4,6 - TeCB	69	49 + 69	C49				
2,3',4',5 - TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6 - TeCB	71	40 + 41 + 71	C40				
2,3',5,5' - TeCB	72		U		0.659		
2,3',5',6 - TeCB	73		U		0.0554		
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6 - TeCB	75	59 + 62 + 75	C59				
2',3,4,5 - TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB	77		U		0.868		
3,3',4,5 - TeCB	78		U		0.788		
3,3',4,5' - TeCB	79		U		0.632		
3,3',5,5' - TeCB	80		U		0.688		
3,4,4',5 - TeCB	81		U		0.822		
2,2',3,3',4 - PeCB	82		U		0.566		
2,2',3,3',5 - PeCB	83	83 + 99	C K	2.51 <i>UBR</i>	0.495	2.10	1.262
2,2',3,3',6 - PeCB	84		K	0.977 <i>UR</i>	0.555	1.22	1.163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	C	1.61	0.418	1.65	1.310
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	3.57 <i>UB</i>	0.418	1.62	1.283
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	C	0.746	0.478	1.37	1.155
2,2',3,4,6' - PeCB	89		U		0.518		
2,2',3,4',5 - PeCB	90	90 + 101 + 113	C	5.48 <i>UB</i>	0.428	1.63	1.237
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		K	1.09 <i>UR</i>	0.498	2.35	0.853
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	C K	4.51 <i>UBR</i>	0.460	1.03	1.121
2,2',3,5,6' - PeCB	94		U		0.496		
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96		U		0.202		
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103		U		0.419		
2,2',4,6,6' - PeCB	104		U		0.214		
2,3,3',4,4' - PeCB	105		K	2.83 <i>UR</i>	0.343	2.21	1.000
2,3,3',4,5 - PeCB	106		U		0.343		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5 - PeCB	107	107 + 124	C U		0.350		
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6 - PeCB	109		U		0.315		
2,3,3',4',6 - PeCB	110	110 + 115	C	5.65 <i>UB</i>	0.361	1.48	1.317
2,3,3',5,5' - PeCB	111		U		0.372		
2,3,3',5,6 - PeCB	112		U		0.366		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114		U		0.339		
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3,4,5,6 - PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6 - PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5 - PeCB	118			5.56 <i>UB</i>	0.331	1.56	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120		U		0.364		
2,3',4,5',6 - PeCB	121		U		0.355		
2',3,3',4,5 - PeCB	122		U		0.380		
2',3,4,4',5 - PeCB	123		U		0.347		
2',3,4,5,5' - PeCB	124	107 + 124	C107				
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5 - PeCB	126		U		0.409		
3,3',4,5,5' - PeCB	127		U		0.356		
2,2',3,3',4,4' - HxCB	128	128 + 166	C U		0.550		
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	C	8.32 <i>UB</i>	0.541	1.12	0.929
2,2',3,3',4,5' - HxCB	130		U		0.704		
2,2',3,3',4,6 - HxCB	131		U		0.651		
2,2',3,3',4,6' - HxCB	132			2.24 <i>UB</i>	0.671	1.14	1.174
2,2',3,3',5,5' - HxCB	133		U		0.636		
2,2',3,3',5,6 - HxCB	134	134 + 143	C U		0.653		
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	C	2.55 <i>UB</i>	0.0830	1.25	1.103
2,2',3,3',6,6' - HxCB	136			0.992 <i>UB</i>	0.0640	1.42	1.023
2,2',3,4,4',5 - HxCB	137		U		0.604		
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6 - HxCB	139	139 + 140	C U		0.588		
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141			1.48 <i>UB</i>	0.619	1.19	0.904
2,2',3,4,5,6 - HxCB	142		U		0.674		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5',6 - HxCB	144		K	0.527 <i>UB</i>	0.0862	1.54	1.121
2,2',3,4,6,6' - HxCB	145		K	0.092 <i>UB</i>	0.0645	0.80	1.035
2,2',3,4',5,5' - HxCB	146		K	0.948 <i>UB</i>	0.570	0.58	0.884
2,2',3,4',5,6 - HxCB	147	147 + 149	C	4.85 <i>UB</i>	0.591	1.07	1.132
2,2',3,4',5,6' - HxCB	148		U		0.0867		
2,2',3,4',5',6 - HxCB	149	147 + 149	C147				

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11/19/03



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',5,6' - HxCB	150		U		0.0613		
2,2',3,5,5',6' - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6' - HxCB	152		U		0.0598		
2,2',4,4',5,5' - HxCB	153	153 + 168	C	6.40 UBI	0.490	1.35	0.899
2,2',4,4',5,6' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6' - HxCB	155		K	0.083 UR	0.0555	1.51	0.999
2,3,3',4,4',5' - HxCB	156	156 + 157	CK	1.44 UBR	0.583	2.45	1.000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6' - HxCB	158		K	1.06 UR	0.445	1.57	0.939
2,3,3',4,5,5' - HxCB	159		U		0.482		
2,3,3',4,5,6' - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5,6' - HxCB	161		U		0.462		
2,3,3',4',5,5' - HxCB	162		U		0.478		
2,3,3',4',5,6' - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6' - HxCB	164		U		0.486		
2,3,3',5,5',6' - HxCB	165		U		0.505		
2,3,4,4',5,6' - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167			0.610	0.436	1.33	1.001
2,3',4,4',5,6' - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		0.526		
2,2',3,3',4,4',5' - HpCB	170		K	2.06 UR	0.0979	0.81	0.936
2,2',3,3',4,4',6' - HpCB	171	171 + 173	CU		0.0944		
2,2',3,3',4,5,5' - HpCB	172		K	0.690 UR	0.0960	1.81	0.897
2,2',3,3',4,5,6' - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6' - HpCB	174		K	2.29 UBR	0.0871	1.21	1.133
2,2',3,3',4,5',6' - HpCB	175		K	0.329 UR	0.0844	5.72	1.103
2,2',3,3',4,6,6' - HpCB	176			0.175 UB	0.0641	1.17	1.034
2,2',3,3',4',5,6' - HpCB	177		K	1.62 UR	0.0909	1.30	1.145
2,2',3,3',5,5',6' - HpCB	178		K	0.649 UR	0.0873	1.55	1.085
2,2',3,3',5,6,6' - HpCB	179		K	1.02 UBR	0.0623	1.40	1.010
2,2',3,4,4',5,5' - HpCB	180	180 + 193	C	4.63 UB	0.0763	1.06	0.911
2,2',3,4,4',5,6' - HpCB	181		U		0.0853		
2,2',3,4,4',5,6' - HpCB	182		K	0.117 UR	0.0847	0.32	1.116
2,2',3,4,4',5',6' - HpCB	183	183 + 185	CK	1.43 UBR	0.0839	0.55	1.126
2,2',3,4,4',6,6' - HpCB	184		K	0.183 UR	0.0589	2.49	1.025
2,2',3,4,5,5',6' - HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6' - HpCB	186		U		0.0647		
2,2',3,4',5,5',6' - HpCB	187		K	2.39 UBR	0.0784	1.55	1.109
2,2',3,4',5,6,6' - HpCB	188		K	0.067 UR	0.0649	8.24	1.000
2,3,3',4,4',5,5' - HpCB	189		K	0.152 UBR	0.0634	0.44	1.000
2,3,3',4,4',5,6' - HpCB	190		U		0.0722		
2,3,3',4,4',5',6' - HpCB	191		K	0.166 UR	0.0702	3.20	0.917
2,3,3',4,5,5',6' - HpCB	192		U		0.0744		

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11/19/02

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194		K	0.788 UR	0.0703	0.65	0.991
2,2',3,3',4,4',5,6 - OcCB	195		K	0.500 UR	0.0749	1.89	0.946
2,2',3,3',4,4',5,6' - OcCB	196		K	0.341 UBR	0.0970	0.58	0.916
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	CK	0.134 UR	0.0724	1.38	1.046
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	C	1.27	0.0978	0.83	1.114
2,2',3,3',4,5,5',6' - OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6' - OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6' - OcCB	201		K	0.281 UR	0.0728	1.53	1.023
2,2',3,3',5,5',6,6' - OcCB	202		U		0.0756		
2,2',3,4,4',5,5',6 - OcCB	203			0.687	0.0901	0.82	0.920
2,2',3,4,4',5,6,6' - OcCB	204		K	0.203 UR	0.0743	1.89	1.039
2,3,3',4,4',5,5',6 - OcCB	205		K	0.094 UR	0.0591	2.22	1.001
2,2',3,3',4,4',5,5',6 - NoCB	206		U		1.11		
2,2',3,3',4,4',5,6,6' - NoCB	207		U		0.863		
2,2',3,3',4,5,5',6,6' - NoCB	208		U		0.886		
2,2',3,3',4,4',5,5',6,6' - DeCB	209			0.677 UB	0.0896	0.59	1.000

(1) C = co-eluting congener; U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately; NQ = data not quantifiable

rem
11/19/07

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Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D64GW-030515

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Matrix: AQUEOUS

Sample Receipt Date: 16-May-2003

Extraction Date: 18-Jul-2003

Analysis Date: 25-Jul-2003

Extract Volume (µL): 22

Injection Volume (µL): 1.0

Dilution Factor: N/A

Concentration Units : pg absolute

Sample Collection: 15-May-2003

Lab Sample ID: L5850-6

Sample Size: 0.920 L

Initial Calibration Date: 19-Jun-2003

Instrument ID: HR GC/MS

GC Column ID: SPB-OCTYL

Sample Datafile: PB3C_393 S:6

Blank Data Filename: PB3C_392 S:7

Cal. Ver. Data Filename: PB3C_393 S:1

Time: 3:01:13

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2 - MoCB	1L		NQ					
13C12-4 - MoCB	3L		V	2000	308	15.4	3.12	0.859
13C12-2,2' - DiCB	4L			2000	515	25.7	1.57	0.873
13C12-4,4' - DiCB	15L			2000	519	25.9	1.55	1.253
13C12-2,2',6 - TriCB	19L			2000	554	27.7	1.06	1.071
13C12-3,4,4' - TriCB	37L			2000	670	33.5	1.03	1.092
13C12-2,2',6,6' - TeCB	54L			2000	566	28.3	0.81	0.811
13C12-3,3',4,4' - TeCB	77L			2000	803	40.2	0.77	1.395
13C12-3,4,4',5 - TeCB	81L			2000	810	40.5	0.77	1.372
13C12-2,2',4,6,6' - PeCB	104L			2000	577	28.9	1.53	0.809
13C12-2,3,3',4,4' - PeCB	105L			2000	910	45.5	1.56	1.200
13C12-2,3,4,4',5 - PeCB	114L			2000	858	42.9	1.58	1.178
13C12-2,3',4,4',5 - PeCB	118L			2000	896	44.8	1.59	1.161
13C12-2',3,4,4',5 - PeCB	123L			2000	880	44.0	1.59	1.151
13C12-3,3',4,4',5 - PeCB	126L			2000	885	44.2	1.56	1.300
13C12-2,2',4,4',6,6' - HxCB	155L			2000	706	35.3	1.28	0.786
13C12-2,3,3',4,4',5 - HxCB	156L	156L + 157L	C	4000	1750	43.7	1.28	1.107
13C12-2,3,3',4,4',5' - HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5' - HxCB	167L			2000	893	44.6	1.29	1.077
13C12-3,3',4,4',5,5' - HxCB	169L			2000	813	40.6	1.28	1.191
13C12-2,2',3,3',4,4',5 - HpCB	170L			2000	939	47.0	1.09	0.897
13C12-2,2',3,4,4',5,5' - HpCB	180L			2000	918	45.9	1.10	0.873
13C12-2,2',3,4',5,6,6' - HpCB	188L			2000	865	43.2	1.11	0.713
13C12-2,3,3',4,4',5,5' - HpCB	189L			2000	911	45.5	1.04	0.959
13C12-2,2',3,3',5,5',6,6' - OcCB	202L			2000	1070	53.3	0.91	0.818
13C12-2,3,3',4,4',5,5',6 - OcCB	205L			2000	896	44.8	0.90	1.009
13C12-2,2',3,3',4,4',5,5',6 - NoCB	206L			2000	919	46.0	0.80	1.043
13C12-2,2',3,3',4,5,5',6,6' - NoCB	208L			2000	1010	50.7	0.82	0.949
13C12-2,2',3,3',4,4',5,5',6,6' - DeCB	209L			2000	956	47.8	1.19	1.075

Form 2 (Continued)
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-D64GW-030515

Lab Name: AXYS ANALYTICAL SERVICES	Sample Collection: 15-May-2003
Contract No.: 9952	Lab Sample ID: L5850-6
Matrix: AQUEOUS	Sample Size: 0.920 L
Sample Receipt Date: 16-May-2003	Initial Calibration Date: 19-Jun-2003
Extraction Date: 18-Jul-2003	Instrument ID: HR GC/MS
Analysis Date: 25-Jul-2003	GC Column ID: SPB-OCTYL
Extract Volume (µL): 22	Sample Datafile: PB3C_393 S:6
Injection Volume (µL): 1.0	Blank Data Filename: PB3C_392 S:7
Dilution Factor: N/A	Cal. Ver. Data Filename: PB3C_393 S:1
Concentration Units : pg absolute	

Time: 3:01:13

CLEAN-UP STANDARD	IUPAC NO. ¹	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12- 2,4,4' - TrICB	28L		2000	621	31.0	1.03	0.925
13C12-2,3,3',5,5' - PeCB	111L		2000	807	40.4	1.60	1.087
13C12-2,2',3,3',5,5',6 - HpCB	178L		2000	840	42.0	1.11	1.012

(1) Suffix "L" indicates labeled compound

(2) C = co-eluting congener; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately; V = surrogate recovery is not within method control limits; NQ = data not quantifiable

(3) R% = percent recovery of labeled compounds

9761AD2_1.xls, S4

Approved by:  QA/QC Chemist

28-08-2003
dd-mm-yyyy

Form 1A
HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952 Lab Sample ID: L5850-6
Matrix: AQUEOUS Sample Size: 0.920 L
Sample Receipt Date: 16-May-2003 Initial Calibration Date: 19-Jun-2003
Extraction Date: 18-Jul-2003 Instrument ID: HR GC/MS
Analysis Date: 25-Jul-2003 Time: 3:01:13 GC Column ID: SPB-OCTYL
Extract Volume (µL): 22 Blank Data Filename: PB3C_392 S:7
Injection Volume (µL): 1.0 Cal. Ver. Data Filename: PB3C_393 S:1
Dilution Factor: N/A Sample Datafile(s): PB3C_393 S:6
Concentration Units : pg/L

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Total Monochloro Biphenyls	U		0.916
Total Dichloro Biphenyls		11.3 U	2.31
Total Trichloro Biphenyls		21.8 U	0.693
Total Tetrachloro Biphenyls		4.36 54.6	0.868
Total Pentachloro Biphenyls		2.36 22.6	0.566
Total Hexachloro Biphenyls		0.610 27.4	0.704
Total Heptachloro Biphenyls		1.80 U	0.0979
Total Octachloro Biphenyls		1.96	0.0978
Total Nonachloro Biphenyls	U		1.11
Decachloro Biphenyl		0.877 U	0.0896
TOTAL PCBs		9.29 145	

(1) U = Not detected
(2) All header information pertains to the initial instrumental analysis of the sample extract.
Additional sample datafiles listed refer to secondary analysis of the sample extract.

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES
Contract No.: 9952
Matrix: AQUEOUS
Sample Size: 0.920 L
Concentration Units: pg/L

Sample Collection: 15-May-2003
Lab Sample ID: L5850-6
GC Column ID(s): SPB-OCTYL
Sample Datafile(s): PB3C_393 S:6

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
							U=1/2 DL	U=0	
3,3',4,4'-TetraCB	77		U		0.868	0.0001	4.34E-05	0.00E+00	
3,4,4',5-TetraCB	81		U		0.822	0.0001	4.11E-05	0.00E+00	
2,3,3',4,4'-PentaCB	105		U		0.343	0.0001	1.72E-05	0.00E+00	
2,3,4,4',5-PentaCB	114		U		0.339	0.0005	8.48E-05	0.00E+00	
2,3',4,4',5-PentaCB	118			5.56	0.331	0.0001	5.56E-04 1.66E-5	5.56E-04 0.0	
2',3,4,4',5-PentaCB	123		U		0.347	0.0001	1.74E-05	0.00E+00	
3,3',4,4',5-PentaCB	126		U		0.409	0.1	2.05E-02	0.00E+00	
2,3,3',4,4',5-HexaCB	156	156 + 157	C U		0.583	0.0005	1.46E-04	0.00E+00	
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156						
2,3',4,4',5,5'-HexaCB	167			0.610	0.436	0.00001	6.10E-06	6.10E-06	
3,3',4,4',5,5'-HexaCB	169		U		0.526	0.01	2.63E-03	0.00E+00	
2,2',3,3',4,4',5-HeptaCB	170		Z						
2,2',3,4,4',5,5'-HeptaCB	180	180 + 193	Z						
2,3,3',4,4',5,5'-HeptaCB	189		U		0.0634	0.0001	3.17E-06	0.00E+00	
2,3,3',4',5,5',6-HeptaCB	193	180 + 193	Z						
TOTAL TEQ							0.0240	0.000663	0.0000067
							0.0235		

(1) C = co-eluting congener; U = not detected; Z = compound not requested
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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Form 1A
PCB AROCLOR EQUIVALENT ANALYSIS REPORT

CLIENT ID:
AN-D64GW-030515

Sample Collection: 15-May-2003

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-6

Matrix: AQUEOUS

Sample Size: 0.920 L

Sample Receipt Date: 16-May-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 18-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 3:01:13

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Blank Data Filename: PB3C_392 S:7

Injection Volume (µL): 1.0

Cal. Ver. Data Filename: PB3C_393 S:1

Dilution Factor: N/A

Sample Datafile(s): PB3C_393 S: 6

Concentration Units: pg/L

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Aroclor 1016	12674-11-2	Z		
Aroclor 1221	11104-28-2	U		2.16
Aroclor 1232	11141-16-5	U		3.60
Aroclor 1242	53469-21-9 <i>8/18/20/31 x 3</i>		<i>48.2 U</i>	4.62
Aroclor 1248	12672-29-6	U		4.31
Aroclor 1254	11097-69-1 <i>8/3/86 x 8</i>		<i>28.6 U</i>	3.96
Aroclor 1260	11096-82-5 <i>170/180/183 x 5</i>		<i>23.1 U</i>	0.490

(1) U = not detected; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

(2) PCB Aroclor equivalents were calculated from individual PCB congener concentrations using empirically determined conversion factors.

(3) All header information pertains to the initial instrumental analysis of the sample extract.

Additional sample datafiles listed refer to secondary analysis of the sample extract.

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11/19/03

SAMPLE NO. AN-EWGW-030612

Electric Well

AXYS METHOD MLA-010 Rev 04
1688A-S1_209

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-EWGW-030812

Sample Collection: 12-Jun-2003 09:40

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952
Matrix: AQUEOUS
Sample Receipt Date: 13-Jun-2003
Extraction Date: 18-Jul-2003
Analysis Date: 25-Jul-2003
Extract Volume (µL): 22
Injection Volume (µL): 1.0
Dilution Factor: N/A
Concentration Units : pg/L

Lab Sample ID: L5850-7
Sample Size: 0.945 L
Initial Calibration Date: 19-Jun-2003
Instrument ID: HR GC/MS
GC Column ID: SPB-OCTYL
Sample Data Filename: PB3C_393 S:7
Blank Data Filename: PB3C_392 S:7
Cal. Ver. Data Filename: PB3C_393 S:1

Time: 4:05:33

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1			4.34 <i>UB</i>	0.551	2.67	1.001
3 - MoCB	2			3.82 <i>UB</i>	0.795	3.56	0.987
4 - MoCB	3			7.63 <i>UB</i>	0.887	2.92	1.000
2,2' - DICB	4		U		3.19		
2,3 - DICB	5		U		2.48		
2,3' - DICB	6		U		2.29		
2,4 - DICB	7			23.5 <i>UB</i>	2.26	1.43	1.159
2,4' - DICB	8		K	4.80 <i>UR</i>	2.15	1.04	1.207
2,5 - DICB	9		U		2.27		
2,6 - DICB	10		U		2.35		
3,3' - DICB	11		K	11.5 <i>UBR</i>	2.49	1.91	0.968
3,4 - DICB	12	12 + 13	CU		2.44		
3,4' - DICB	13	12 + 13	C12				
3,5 - DICB	14		U		2.44		
4,4' - DICB	15		U		3.12		
2,2',3 - TriCB	16		K	1.80 <i>UR</i>	0.795	0.73	1.166
2,2',4 - TriCB	17			1.23 <i>UB</i>	0.684	0.94	1.138
2,2',5 - TriCB	18	18 + 30	CK	3.88 <i>UBR</i>	0.557	1.34	1.114
2,2',6 - TriCB	19		K	0.767 <i>UR</i>	0.767	2.13	1.001
2,3,3' - TriCB	20	20 + 28	C	3.81 <i>UB</i>	0.630	1.17	0.848

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Approved by: *Rawsthorne* QA/QC Chemist

28-08-2003
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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	C	1.86 <i>UR</i>	0.609	1.15	0.857
2,3,4' - TriCB	22		K	1.39 <i>UR</i>	0.699	0.71	0.871
2,3,5 - TriCB	23		U		0.643		
2,3,6 - TriCB	24		U		0.478		
2,3',4 - TriCB	25		U		0.569		
2,3',5 - TriCB	26	26 + 29	C K	0.729 <i>UR</i>	0.648	1.39	1.302
2,3',6 - TriCB	27		U		0.467		
2,4,4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31			3.17 <i>UB</i>	0.825	1.13	0.837
2,4',6 - TriCB	32		K	0.931 <i>UR</i>	0.607	1.52	1.197
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34		U		0.658		
3,3',4 - TriCB	35		K	0.699 <i>UR</i>	0.671	1.54	0.985
3,3',5 - TriCB	36		U		0.651		
3,4,4' - TriCB	37		U		0.723		
3,4,5 - TriCB	38		U		0.679		
3,4',5 - TriCB	39		U		0.845		
2,2',3,3' - TeCB	40	40 + 41 + 71	C K	1.31 <i>UR</i>	0.332	0.54	1.336
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		U		0.348		
2,2',3,5 - TeCB	43		U		0.382		
2,2',3,5' - TeCB	44	44 + 47 + 65	C	4.50 <i>UB</i>	0.307	0.83	1.284
2,2',3,6 - TeCB	45	45 + 51	C	0.775 <i>J</i>	0.328	0.85	1.148
2,2',3,6' - TeCB	46		U		0.395		
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48			0.457 <i>J</i>	0.329	0.80	1.271
2,2',4,5' - TeCB	49	49 + 69	C	2.13 <i>UB</i>	0.288	0.76	1.258
2,2',4,6 - TeCB	50	50 + 53	C K	0.608 <i>UR</i>	0.315	1.08	1.111
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52		K	7.68 <i>UR</i>	0.326	0.91	1.234
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54		U		0.259		
2,3,3',4 - TeCB	55		U		0.543		
2,3,3',4' - TeCB	56		K	0.946 <i>UR</i>	0.569	0.65	0.905
2,3,3',5 - TeCB	57		U		0.526		
2,3,3',5' - TeCB	58		U		0.528		
2,3,3',6 - TeCB	59	59 + 62 + 75	C U		0.253		
2,3,4,4' - TeCB	60		K	0.594 <i>UR</i>	0.562	0.97	0.910
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	C	5.88 <i>UB</i>	0.529	0.70	0.875
2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3,4',5 - TeCB	63		U		0.530		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4',6 - TeCB	64		K	1.35 <i>UR</i>	0.243	0.64	1.348
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		K	2.61 <i>UR</i>	0.541	0.62	0.884
2,3',4,5 - TeCB	67		U		0.470		
2,3',4,5' - TeCB	68		U		0.480		
2,3',4,6 - TeCB	69	49 + 69	C49				
2,3',4',5 - TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4',6 - TeCB	71	40 + 41 + 71	C40				
2,3',5,5' - TeCB	72		U		0.505		
2,3',5',6 - TeCB	73		U		0.247		
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6 - TeCB	75	59 + 62 + 75	C59				
2',3,4,5 - TeCB	76	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB	77			0.681 <i>UR</i>	0.646	0.73	1.001
3,3',4,5 - TeCB	78		U		0.603		
3,3',4,5' - TeCB	79		U		0.484		
3,3',5,5' - TeCB	80		U		0.527		
3,4,4',5 - TeCB	81		U		0.634		
2,2',3,3',4 - PeCB	82		U		0.724		
2,2',3,3',5 - PeCB	83	83 + 99	C	2.44 <i>UB</i>	0.833	1.62	1.261
2,2',3,3',6 - PeCB	84		K	1.10 <i>UR</i>	0.709	0.88	1.163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	C	0.761	0.535	1.42	1.310
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C K	2.94 <i>UBR</i>	0.535	1.17	1.283
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	C U		0.611		
2,2',3,4,6' - PeCB	89		U		0.663		
2,2',3,4',5 - PeCB	90	90 + 101 + 113	C K	5.49 <i>UBR</i>	0.547	1.80	1.238
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		K	1.18 <i>UR</i>	0.637	0.98	0.853
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	C U		0.588		
2,2',3,5,6' - PeCB	94		U		0.634		
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96		U		0.217		
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103		U		0.535		
2,2',4,6,6' - PeCB	104		U		0.228		
2,3,3',4,4' - PeCB	105			2.05	0.635	1.50	1.000
2,3,3',4,5 - PeCB	106		U		0.583		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5' - PeCB	107	107 + 124	C U		0.594		
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6' - PeCB	109		U		0.535		
2,3,3',4',6' - PeCB	110	110 + 115	C K	5.16 <i>UBR</i>	0.462	2.09	1.317
2,3,3',5,5' - PeCB	111		U		0.475		
2,3,3',5,6' - PeCB	112		U		0.468		
2,3,3',5',6' - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5' - PeCB	114		U		0.557		
2,3,4,4',6' - PeCB	115	110 + 115	C110				
2,3,4,5,6' - PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6' - PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5' - PeCB	118			3.97 <i>UB</i>	0.559	1.45	1.000
2,3',4,4',6' - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120		U		0.465		
2,3',4,5',6' - PeCB	121		U		0.454		
2',3,3',4,5' - PeCB	122		U		0.645		
2',3,4,4',5' - PeCB	123		U		0.569		
2',3,4,5,5' - PeCB	124	107 + 124	C107				
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5' - PeCB	126		U		0.760		
3,3',4,5,5' - PeCB	127		U		0.605		
2,2',3,3',4,4' - HxCB	128	128 + 166	C K	1.10 <i>UR</i>	0.273	1.75	0.959
2,2',3,3',4,5' - HxCB	129	129 + 138 + 160 + 163	C	5.84 <i>UB</i>	0.268	1.19	0.929
2,2',3,3',4,5' - HxCB	130		U		0.350		
2,2',3,3',4,6' - HxCB	131		U		0.323		
2,2',3,3',4,6' - HxCB	132			1.83 <i>UB</i>	0.333	1.32	1.174
2,2',3,3',5,5' - HxCB	133		U		0.316		
2,2',3,3',5,6' - HxCB	134	134 + 143	C U		0.324		
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	C K	2.29 <i>UBR</i>	0.0758	1.48	1.103
2,2',3,3',6,6' - HxCB	136			1.06 <i>UB</i>	0.0584	1.36	1.024
2,2',3,4,4',5' - HxCB	137		U		0.300		
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6' - HxCB	139	139 + 140	C U		0.292		
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141			1.64 <i>UB</i>	0.307	1.35	0.904
2,2',3,4,5,6' - HxCB	142		U		0.335		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5',6' - HxCB	144		U		0.0786		
2,2',3,4,6,6' - HxCB	145		U		0.0588		
2,2',3,4',5,5' - HxCB	146		K	0.796 <i>UR</i>	0.283	0.80	0.884
2,2',3,4',5,6' - HxCB	147	147 + 149	C	4.37	0.293	1.08	1.133
2,2',3,4',5,6' - HxCB	148		U		0.0791		
2,2',3,4',5',6' - HxCB	149	147 + 149	C147				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',6,6' - HxCB	150		U		0.0559		
2,2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6' - HxCB	152		K	0.084 <i>UB</i>	0.0546	0.81	1.008
2,2',4,4',5,5' - HxCB	153	153 + 168	C	5.47	0.243	1.17	0.899
2,2',4,4',5,6' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6' - HxCB	155		K	0.204 <i>UR</i>	0.0472	2.18	1.000
2,3,3',4,4',5 - HxCB	156	156 + 157	C	0.996 <i>UB</i>	0.295	1.14	1.000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6 - HxCB	158		K	0.946 <i>UR</i>	0.221	1.96	0.938
2,3,3',4,5,5' - HxCB	159		U		0.239		
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB	161		U		0.229		
2,3,3',4',5,5' - HxCB	162		U		0.237		
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB	164		K	0.448 <i>UBR</i>	0.241	0.87	0.922
2,3,3',5,5',6 - HxCB	165		U		0.251		
2,3,4,4',5,6 - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167		K	0.345 <i>UR</i>	0.206	0.53	1.000
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		0.289		
2,2',3,3',4,4',5 - HpCB	170		K	1.06 <i>UR</i>	0.107	1.53	0.936
2,2',3,3',4,4',6 - HpCB	171	171 + 173	C K	0.744 <i>UR</i>	0.103	0.73	1.163
2,2',3,3',4,5,5' - HpCB	172		K	0.349 <i>UR</i>	0.104	2.80	0.896
2,2',3,3',4,5,6 - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6' - HpCB	174			2.21 <i>UB</i>	0.0948	1.02	1.133
2,2',3,3',4,5',6 - HpCB	175		U		0.0918		
2,2',3,3',4,6,6' - HpCB	176		K	0.283 <i>UBR</i>	0.0698	2.04	1.035
2,2',3,3',4',5,6 - HpCB	177		K	1.57 <i>UR</i>	0.0988	0.76	1.145
2,2',3,3',5,5',6 - HpCB	178		K	0.238 <i>UR</i>	0.0950	1.56	1.086
2,2',3,3',5,6,6' - HpCB	179		K	0.584 <i>UBR</i>	0.0678	1.37	1.010
2,2',3,4,4',5,5' - HpCB	180	180 + 193	C	2.20 <i>UB</i>	0.0830	1.20	0.910
2,2',3,4,4',5,6 - HpCB	181		U		0.0928		
2,2',3,4,4',5,6' - HpCB	182		U		0.0922		
2,2',3,4,4',5',6 - HpCB	183	183 + 185	C K	1.33 <i>UBR</i>	0.0913	1.74	1.127
2,2',3,4,4',6,6' - HpCB	184		U		0.0641		
2,2',3,4,5,5',6 - HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6' - HpCB	186		U		0.0704		
2,2',3,4',5,5',6 - HpCB	187			2.51 <i>UB</i>	0.0853	1.20	1.109
2,2',3,4',5,6,6' - HpCB	188		K	0.171 <i>UR</i>	0.0692	2.03	1.001
2,3,3',4,4',5,5' - HpCB	189			0.214 <i>UB</i>	0.0776	0.95	1.001
2,3,3',4,4',5,6 - HpCB	190		K	0.298 <i>UR</i>	0.0785	0.29	0.946
2,3,3',4,4',5',6 - HpCB	191		K	0.363 <i>UR</i>	0.0763	4.12	0.918
2,3,3',4,5,5',6 - HpCB	192		U		0.0810		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194		K	0.310 <i>UR</i>	0.103	0.39	0.991
2,2',3,3',4,4',5,6' - OcCB	195		K	0.326 <i>UR</i>	0.110	1.26	0.946
2,2',3,3',4,4',5,6' - OcCB	196		K	0.457 <i>UR</i>	0.121	2.51	0.916
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	CK	0.124 <i>UR</i>	0.0899	4.83	1.047
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	CK	0.891 <i>UR</i>	0.122	0.63	1.114
2,2',3,3',4,5,5',6' - OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6' - OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6' - OcCB	201		U		0.0904		
2,2',3,3',5,5',6,6' - OcCB	202		K	0.174 <i>UR</i>	0.0943	0.31	1.002
2,2',3,4,4',5,5',6 - OcCB	203		U		0.112		
2,2',3,4,4',5,6,6' - OcCB	204		K	0.099 <i>UR</i>	0.0923	3.81	1.039
2,3,3',4,4',5,5',6 - OcCB	205		U		0.0862		
2,2',3,3',4,4',5,5',6 - NoCB	206		U		0.967		
2,2',3,3',4,4',5,6,6' - NoCB	207		U		0.758		
2,2',3,3',4,5,5',6,6' - NoCB	208		U		0.784		
2,2',3,3',4,4',5,5',6,6' - DeCB	209		K	0.861 <i>UR</i>	0.101	0.89	1.001

(1) C = co-eluting congener; U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

RM
11/19/03

JK

Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-EWGW-030612

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: 12-Jun-2003 09:40

Contract No.: 9952

Lab Sample ID: L5850-7

Matrix: AQUEOUS

Sample Size: 0.945 L

Sample Receipt Date: 13-Jun-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 18-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 4:05:33

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_393 S:7

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_392 S:7

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_393 S:1

Concentration Units : pg absolute

LABELED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2 - MoCB	1L			2000	479	23.9	3.17	0.720
13C12-4 - MoCB	3L			2000	418	20.9	3.07	0.859
13C12-2,2' - DiCB	4L		V	2000	381	19.0	1.59	0.874
13C12-4,4' - DiCB	15L		V	2000	406	20.3	1.53	1.254
13C12-2,2',6 - TriCB	19L		V	2000	418	20.9	1.08	1.072
13C12-3,4,4' - TriCB	37L			2000	545	27.3	1.01	1.092
13C12-2,2',6,6' - TeCB	54L		V	2000	432	21.6	0.81	0.811
13C12-3,3',4,4' - TeCB	77L			2000	623	31.1	0.76	1.396
13C12-3,4,4',5 - TeCB	81L			2000	619	30.9	0.76	1.372
13C12-2,2',4,8,8' - PeCB	104L			2000	528	26.4	1.51	0.808
13C12-2,3,3',4,4' - PeCB	105L			2000	749	37.5	1.57	1.200
13C12-2,3,4,4',5 - PeCB	114L			2000	793	39.7	1.58	1.179
13C12-2,3',4,4',5 - PeCB	118L			2000	821	41.1	1.60	1.161
13C12-2',3,4,4',5 - PeCB	123L			2000	824	41.2	1.59	1.151
13C12-3,3',4,4',5 - PeCB	126L			2000	723	36.2	1.57	1.300
13C12-2,2',4,4',6,6' - HxCB	155L			2000	703	35.1	1.29	0.786
13C12-2,3,3',4,4',5 - HxCB	156L	156L + 157L	C	4000	1600	39.9	1.27	1.107
13C12-2,3,3',4,4',5' - HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5' - HxCB	167L			2000	869	43.4	1.29	1.077
13C12-3,3',4,4',5,5' - HxCB	169L			2000	675	33.8	1.27	1.191
13C12-2,2',3,3',4,4',5 - HpCB	170L			2000	843	42.1	1.07	0.898
13C12-2,2',3,4,4',5,5' - HpCB	180L			2000	915	45.7	1.07	0.873
13C12-2,2',3,4',5,6,6' - HpCB	188L			2000	879	44.0	1.08	0.713
13C12-2,3,3',4,4',5,5' - HpCB	189L			2000	878	43.9	1.04	0.959
13C12-2,2',3,3',5,5',6,6' - OcCB	202L			2000	1060	52.8	0.92	0.818
13C12-2,3,3',4,4',5,5',6 - OcCB	205L			2000	884	44.2	0.91	1.009
13C12-2,2',3,3',4,4',5,5',6 - NoCB	206L			2000	898	44.9	0.79	1.044
13C12-2,2',3,3',4,5,5',6,6' - NoCB	208L			2000	957	47.9	0.83	0.950
13C12-2,2',3,3',4,4',5,5',6,6' - DeCB	209L			2000	931	46.5	1.20	1.075

Form 2 (Continued)
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-EWGW-030812

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: 12-Jun-2003 09:40

Contract No.: 9952

Lab Sample ID: L5850-7

Matrix: AQUEOUS

Sample Size: 0.945 L

Sample Receipt Date: 13-Jun-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 18-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 4:05:33

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_393 S:7

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_392 S:7

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_393 S:1

Concentration Units : pg absolute

CLEAN-UP STANDARD	IUPAC NO. ¹	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12- 2,4,4' - TriCB	28L	V	2000	533	26.6	1.02	0.924
13C12-2,3,3',5,5' - PeCB	111L		2000	779	38.9	1.64	1.087
13C12-2,2',3,3',5,5',6 - HpCB	178L		2000	846	42.3	1.06	1.012

(1) Suffix "L" indicates labeled compound

(2) C = co-eluting congener; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately; V = surrogate recovery is not within method control limits

(3) R% = percent recovery of labeled compounds

9761AD2_1.xls, S5

Approved by:  QA/QC Chemist

28-08-2003
dd-mm-yyyy

Form 1A
HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

Sample Collection: 12-Jun-2003 09:40

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.:	9952	Lab Sample ID:	L5850-7	
Matrix:	AQUEOUS	Sample Size:	0.945 L	
Sample Receipt Date:	13-Jun-2003	Initial Calibration Date:	19-Jun-2003	
Extraction Date:	18-Jul-2003	Instrument ID:	HR GC/MS	
Analysis Date:	25-Jul-2003	Time: 4:05:33	GC Column ID:	SPB-OCTYL
Extract Volume (µL):	22	Blank Data Filename:	PB3C_392 S:7	
Injection Volume (µL):	1.0	Cal. Ver. Data Filename:	PB3C_393 S:1	
Dilution Factor:	N/A	Sample Datafile(s):	PB3C_393 S:7	
Concentration Units :	pg/L			

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Total Monochloro Biphenyls		15.8 U	0.867
Total Dichloro Biphenyls		23.5 U	3.19
Total Trichloro Biphenyls		10.1 U	0.795
Total Tetrachloro Biphenyls		1.23 14.4	0.646
Total Pentachloro Biphenyls		2.81 9.22	0.760
Total Hexachloro Biphenyls		9.84 21.2	0.350
Total Heptachloro Biphenyls		7.14 U	0.107
Total Octachloro Biphenyls	U		0.122
Total Nonachloro Biphenyls	U		0.967
Decachloro Biphenyl	U		0.101
TOTAL PCBs		13.9 101	

(1) U = Not detected
(2) All header information pertains to the initial instrumental analysis of the sample extract.
Additional sample datafiles listed refer to secondary analysis of the sample extract.

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES
Contract No.: 9952
Matrix: AQUEOUS
Sample Size: 0.945 L
Concentration Units: pg/L

Sample Collection: 12-Jun-2003 09:40
Lab Sample ID: L5850-7
GC Column ID(s): SPB-OCTYL
Sample Datafile(s): PB3C_393 S:7

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ	
							U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			0.881 UB	0.646	0.0001	6.81E-05	6.81E-05 0.00
3,4,4',5-TetraCB	81		U		0.634	0.0001	3.17E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			2.05	0.635	0.0001	2.05E-04	2.05E-04
2,3,4,4',5-PentaCB	114		U		0.557	0.0005	1.39E-04	0.00E+00
2,3',4,4',5-PentaCB	118			3.97 UB	0.559	0.0001	3.97E-04	3.97E-04 0.00
2',3,4,4',5-PentaCB	123		U		0.569	0.0001	2.85E-05	0.00E+00
3,3',4,4',5-PentaCB	126		U		0.760	0.1	3.80E-02	0.00E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	C	0.896 UB	0.295	0.0005	4.98E-04	4.98E-04 0.00
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167		U		0.206	0.00001	1.03E-06	0.00E+00
3,3',4,4',5,5'-HexaCB	169		U		0.289	0.01	1.44E-03	0.00E+00
2,2',3,3',4,4',5-HeptaCB	170		Z					
2,2',3,4,4',5,5'-HeptaCB	180	180 + 193	Z					
2,3,3',4,4',5,5'-HeptaCB	189			0.214 UB	0.0776	0.0001	2.14E-05	2.14E-05 0.00
2,3,3',4',5,5',6-HeptaCB	193	180 + 193	Z					
TOTAL TEQ							0.0408	0.00119 0.000205
							0.0400	

(1) C = co-eluting congener; U = not detected; Z = compound not requested
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

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11/19/03

Form 1A
PCB AROCLOR EQUIVALENT ANALYSIS REPORT

CLIENT ID:
AN-EWGW-030612

Sample Collection: 12-Jun-2003 09:40

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-7

Matrix: AQUEOUS

Sample Size: 0.945 L

Sample Receipt Date: 13-Jun-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 18-Jul-2003

Instrument ID: HR GC/MS

Analysis Date: 25-Jul-2003

Time: 4:05:33

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Blank Data Filename: PB3C_392 S:7

Injection Volume (µL): 1.0

Cal. Ver. Data Filename: PB3C_393 S:1

Dilution Factor: N/A

Sample Datafile(s): PB3C_393 S: 7

Concentration Units: pg/L

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Aroclor 1016	12674-11-2	Z		
Aroclor 1221	11104-28-2	U		3.01
Aroclor 1232	11141-16-5	U		3.01
Aroclor 1242	53469-21-9		21.0 CI	6.45
Aroclor 1248	12672-29-6	U		3.30
Aroclor 1254	11097-69-1		19.5 CI	5.06
Aroclor 1260	11096-82-5		11.0 CI	0.533

(1) U = not detected; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

(2) PCB Aroclor equivalents were calculated from individual PCB congener concentrations using empirically determined conversion factors.

(3) All header information pertains to the initial instrumental analysis of the sample extract.

Additional sample datafiles listed refer to secondary analysis of the sample extract.

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11/19/03

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Approved by: *Mawsthorpe* QA/QC Chemist

28-08-2003
dd-mm-yyyy

SAMPLE NO. AN-EW50GW-030612

AN-EWGW-030612
(L5850-7)

AXYS METHOD MLA-010 Rev 04
1688A-S1_209

Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-EW50GW-030612

Sample Collection: 12-Jun-2003 09:40

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-8

Matrix: AQUEOUS

Sample Size: 0.938 L

Sample Receipt Date: 13-Jun-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 5:27:14

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Data Filename: PB3C_357 S:9

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units : pg/L

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1			1.47 UB	0.209	3.46	1.000
3 - MoCB	2			1.30 UB	0.303	2.93	0.987
4 - MoCB	3		K	2.38 UBR	0.375	4.86	1.000
2,2' - DICB	4		K	2.14 UR	0.980	0.47	1.001
2,3 - DICB	5		U		0.922		
2,3' - DICB	6		U		0.828		
2,4 - DICB	7		U		0.801		
2,4' - DICB	8		K	1.38 UR	0.755	2.48	1.208
2,5 - DICB	9		U		0.830		
2,6 - DICB	10		U		0.819		
3,3' - DICB	11			4.01	0.922	1.48	0.970
3,4 - DICB	12	12 + 13	CU		0.911		
3,4' - DICB	13	12 + 13	C12				
3,5 - DICB	14		U		0.883		
4,4' - DICB	15		U		1.38		
2,2',3 - TriCB	16			0.760 UB	0.520	1.12	1.166
2,2',4 - TriCB	17			0.972 UB	0.474	0.96	1.139
2,2',5 - TriCB	18	18 + 30	C	1.68	0.366	0.92	1.114
2,2',6 - TriCB	19		K	0.532 UR	0.413	0.60	1.001
2,3,3' - TriCB	20	20 + 28	C	1.94 UB	0.422	1.03	0.847

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Approved by: Paul Shorne QA/QC Chemist

24-08-2003
dd-mm-yyyy

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	CK	1.10 <i>UBR</i>	0.407	0.82	0.857
2,3,4' - TriCB	22		U		0.468		
2,3,5 - TriCB	23		U		0.428		
2,3,6 - TriCB	24		U		0.333		
2,3',4 - TriCB	25		U		0.376		
2,3',5 - TriCB	26	26 + 29	CU		0.429		
2,3',6 - TriCB	27		U		0.329		
2,4,4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31			1.37 <i>UB</i>	0.416	1.04	0.838
2,4',6 - TriCB	32			0.569 <i>UB</i>	0.410	0.90	1.198
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34		U		0.433		
3,3',4 - TriCB	35		U		0.490		
3,3',5 - TriCB	36		U		0.444		
3,4,4' - TriCB	37		U		0.579		
3,4,5 - TriCB	38		U		0.450		
3,4',5 - TriCB	39		U		0.433		
2,2',3,3' - TeCB	40	40 + 41 + 71	C	0.572 <i>UB</i>	0.193	0.85	1.335
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42			0.424	0.201	0.74	1.312
2,2',3,5 - TeCB	43		U		0.222		
2,2',3,5' - TeCB	44	44 + 47 + 65	C	2.82 <i>UB</i>	0.176	0.66	1.285
2,2',3,6 - TeCB	45	45 + 51	C	0.478 <i>UB</i>	0.191	0.76	1.147
2,2',3,6' - TeCB	46		U		0.225		
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48		K	0.287 <i>UBR</i>	0.189	1.99	1.273
2,2',4,5' - TeCB	49	49 + 69	C	0.757 <i>UB</i>	0.165	0.75	1.259
2,2',4,6 - TeCB	50	50 + 53	CK	0.293 <i>UR</i>	0.183	1.70	1.110
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52			5.03 <i>UB</i>	0.183	0.67	1.233
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54		U		0.130		
2,3,3',4 - TeCB	55		U		0.414		
2,3,3',4' - TeCB	56		K	0.474 <i>UR</i>	0.421	0.50	0.904
2,3,3',5 - TeCB	57		U		0.404		
2,3,3',5' - TeCB	58		U		0.404		
2,3,3',6 - TeCB	59	59 + 62 + 75	CU		0.144		
2,3,4,4' - TeCB	60		U		0.420		
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	C	3.14 <i>UB</i>	0.388	0.85	0.875
2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3,4',5 - TeCB	63		U		0.393		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4',6 - TeCB	64			0.695	0.141	0.78	1.348
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66			0.927 <i>UB</i>	0.396	0.75	0.885
2,3',4,5 - TeCB	67		U		0.359		
2,3',4,5' - TeCB	68		U		0.365		
2,3',4,6 - TeCB	69	49 + 69	C49				
2,3',4',5 - TeCB	70	61 + 70 + 74 + 76	C81				
2,3',4',6 - TeCB	71	40 + 41 + 71	C40				
2,3',5,5' - TeCB	72		U		0.375		
2,3',5',6 - TeCB	73		U		0.144		
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C81				
2,4,4',6 - TeCB	75	59 + 62 + 75	C59				
2',3,4,5 - TeCB	76	61 + 70 + 74 + 76	C81				
3,3',4,4' - TeCB	77		U		0.528		
3,3',4,5 - TeCB	78		U		0.433		
3,3',4,5' - TeCB	79		U		0.351		
3,3',5,5' - TeCB	80		U		0.401		
3,4,4',5 - TeCB	81		U		0.489		
2,2',3,3',4 - PeCB	82			0.454 <i>UB</i>	0.208	1.48	1.329
2,2',3,3',5 - PeCB	83	83 + 99	C K	1.86 <i>UBR</i>	0.183	1.95	1.259
2,2',3,3',6 - PeCB	84			0.800 <i>UB</i>	0.205	1.75	1.164
2,2',3,4,4' - PeCB	85	85 + 116 + 117	C K	0.681 <i>UBR</i>	0.155	0.90	1.310
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C K	2.51 <i>UR</i>	0.156	1.23	1.282
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	C K	0.441 <i>UBR</i>	0.176	2.00	1.155
2,2',3,4,6' - PeCB	89		U		0.191		
2,2',3,4',5 - PeCB	90	90 + 101 + 113	C	3.26 <i>UB</i>	0.159	1.49	1.237
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92			0.820	0.183	1.47	0.854
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	C	4.41 <i>UB</i>	0.170	1.53	1.120
2,2',3,5,6' - PeCB	94		U		0.185		
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96		U		0.0145		
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103		U		0.159		
2,2',4,6,6' - PeCB	104		K	0.141 <i>UR</i>	0.0159	0.62	1.001
2,3,3',4,4' - PeCB	105		K	1.34 <i>UR</i>	0.216	1.02	1.000
2,3,3',4,5 - PeCB	106		U		0.186		

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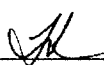
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5' - PeCB	107	107 + 124	C U		0.201		
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6' - PeCB	109			0.266	0.195	1.48	1.420
2,3,3',4',6' - PeCB	110	110 + 115	C	3.95 UB	0.135	1.52	1.316
2,3,3',5,5' - PeCB	111		U		0.137		
2,3,3',5,6' - PeCB	112		U		0.135		
2,3,3',5',6' - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5' - PeCB	114		K	0.234 UR	0.197	0.92	1.000
2,3,4,4',6' - PeCB	115	110 + 115	C110				
2,3,4,5,6' - PeCB	116	85 + 116 + 117	C85				
2,3,4',5,6' - PeCB	117	85 + 116 + 117	C85				
2,3',4,4',5' - PeCB	118			2.55 UB	0.192	1.45	1.000
2,3',4,4',6' - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120		U		0.135		
2,3',4,5',6' - PeCB	121		U		0.134		
2',3,3',4,5' - PeCB	122		U		0.214		
2',3,4,4',5' - PeCB	123		U		0.203		
2',3,4,5,5' - PeCB	124	107 + 124	C107				
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5' - PeCB	126		U		0.266		
3,3',4,5,5' - PeCB	127		U		0.209		
2,2',3,3',4,4' - HxCB	128	126 + 166	C K	0.449 UBR	0.172	2.96	0.958
2,2',3,3',4,5' - HxCB	129	129 + 138 + 160 + 163	C	2.57	0.167	1.07	0.929
2,2',3,3',4,5' - HxCB	130		U		0.215		
2,2',3,3',4,6' - HxCB	131		U		0.197		
2,2',3,3',4,6' - HxCB	132		K	0.706 UR	0.196	0.98	1.174
2,2',3,3',5,5' - HxCB	133		U		0.193		
2,2',3,3',5,6' - HxCB	134	134 + 143	C U		0.197		
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	C K	1.19 UR	0.0249	0.87	1.104
2,2',3,3',6,6' - HxCB	136		K	0.489 UBR	0.0187	0.94	1.023
2,2',3,4,4',5' - HxCB	137		K	0.264 UR	0.192	0.48	0.919
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6' - HxCB	139	139 + 140	C U		0.178		
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141		K	0.401 UR	0.189	1.80	0.904
2,2',3,4,5,6' - HxCB	142		U		0.200		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5',6' - HxCB	144		K	0.172 UR	0.0262	0.16	1.120
2,2',3,4,6,6' - HxCB	145		U		0.0191		
2,2',3,4',5,5' - HxCB	146		K	0.349 UBR	0.171	0.92	0.884
2,2',3,4',5,6' - HxCB	147	147 + 149	C	1.92 UB	0.177	1.43	1.133
2,2',3,4',5,6' - HxCB	148		U		0.0259		
2,2',3,4',5',6' - HxCB	149	147 + 149	C147				

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',6,8' - HxCB	150		U		0.0182		
2,2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,8' - HxCB	152		U		0.0178		
2,2',4,4',5,5' - HxCB	153	153 + 168	C	1.35 <i>UB</i>	0.150	1.06	0.899
2,2',4,4',5,6' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,8' - HxCB	155		K	0.122 <i>UBR</i>	0.0167	1.93	1.001
2,3,3',4,4',5 - HxCB	156	156 + 157	CK	0.357 <i>UBR</i>	0.181	0.98	1.000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6 - HxCB	158		K	0.259 <i>UBR</i>	0.135	1.74	0.938
2,3,3',4,5,5' - HxCB	159		U		0.149		
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB	161		U		0.140		
2,3,3',4',5,5' - HxCB	162		U		0.147		
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB	164			0.168	0.145	1.17	0.922
2,3,3',5,5',6 - HxCB	165		U		0.150		
2,3,4,4',5,6 - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167		K	0.185 <i>UR</i>	0.137	1.61	1.000
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		0.174		
2,2',3,3',4,4',5 - HpCB	170		K	0.495 <i>UBR</i>	0.0316	6.07	0.937
2,2',3,3',4,4',6 - HpCB	171	171 + 173	C	0.240	0.0304	1.08	1.161
2,2',3,3',4,5,5' - HpCB	172		U		0.0314		
2,2',3,3',4,5,6 - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6' - HpCB	174			0.270	0.0279	1.04	1.133
2,2',3,3',4,5',6 - HpCB	175		U		0.0274		
2,2',3,3',4,6,6' - HpCB	176		U		0.0207		
2,2',3,3',4',5,6 - HpCB	177		K	0.215 <i>UR</i>	0.0310	1.28	1.145
2,2',3,3',5,5',6 - HpCB	178		U		0.0281		
2,2',3,3',5,6,6' - HpCB	179		U		0.0195		
2,2',3,4,4',5,5' - HpCB	180	180 + 193	C	0.395	0.0246	0.99	0.911
2,2',3,4,4',5,6 - HpCB	181		U		0.0277		
2,2',3,4,4',5,6' - HpCB	182		K	0.161 <i>UR</i>	0.0272	7.65	1.116
2,2',3,4,4',5',6 - HpCB	183	183 + 185	C	0.323	0.0272	1.08	1.127
2,2',3,4,4',6,6' - HpCB	184		U		0.0187		
2,2',3,4,5,5',6 - HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6' - HpCB	186		U		0.0205		
2,2',3,4',5,5',6 - HpCB	187		K	0.478 <i>UR</i>	0.0251	0.72	1.109
2,2',3,4',5,6,6' - HpCB	188		K	0.135 <i>UR</i>	0.0192	1.23	1.001
2,3,3',4,4',5,5' - HpCB	189			0.074 <i>UB</i>	0.0151	1.02	1.000
2,3,3',4,4',5,6 - HpCB	190		K	0.068 <i>UR</i>	0.0227	0.18	0.947
2,3,3',4,4',5',6 - HpCB	191		K	0.095 <i>UR</i>	0.0224	2.97	0.917
2,3,3',4,5,5',6 - HpCB	192		U		0.0245		

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COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194			0.058 <i>UR</i>	0.0202	0.75	0.991
2,2',3,3',4,4',5,6 - OcCB	195		K	0.097 <i>UR</i>	0.0215	1.46	0.946
2,2',3,3',4,4',5,8' - OcCB	196		K	0.164 <i>UR</i>	0.0442	0.22	0.916
2,2',3,3',4,4',8,8' - OcCB	197	197 + 200	CK	0.143 <i>UR</i>	0.0308	2.35	1.046
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	CK	0.257 <i>UR</i>	0.0422	0.50	1.114
2,2',3,3',4,5,5',8' - OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6' - OcCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6' - OcCB	201		U		0.0320		
2,2',3,3',5,5',6,6' - OcCB	202		K	0.075 <i>UR</i>	0.0332	0.24	1.000
2,2',3,4,4',5,5',6 - OcCB	203		U		0.0408		
2,2',3,4,4',5,6,6' - OcCB	204		U		0.0312		
2,3,3',4,4',5,5',6 - OcCB	205		K	0.159 <i>UR</i>	0.0174	1.77	1.000
2,2',3,3',4,4',5,5',8 - NoCB	206		U		1.62		
2,2',3,3',4,4',5,6,6' - NoCB	207		U		1.22		
2,2',3,3',4,5,5',6,6' - NoCB	208		U		1.32		
2,2',3,3',4,4',5,5',6,6' - DeCB	209		K	0.457 <i>UR</i>	0.0190	0.55	1.001

(1) C = co-eluting congener; U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

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Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-EW50GW-030612

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: 12-Jun-2003 09:40

Contract No.: 9952

Lab Sample ID: L5850-8

Matrix: AQUEOUS

Sample Size: 0.938 L

Sample Receipt Date: 13-Jun-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 5:27:14

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_357 S:9

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4


Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units : pg absolute

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2 - MoCB	1L			2000	1140	57.0	3.20	0.719
13C12-4 - MoCB	3L			2000	872	43.6	3.12	0.859
13C12-2,2' - DiCB	4L			2000	985	49.2	1.54	0.873
13C12-4,4' - DiCB	15L			2000	724	36.2	1.54	1.254
13C12-2,2',6 - TriCB	19L			2000	969	48.5	1.07	1.072
13C12-3,4,4' - TriCB	37L			2000	891	44.5	1.01	1.092
13C12-2,2',6,6' - TeCB	54L			2000	914	45.7	0.82	0.811
13C12-3,3',4,4' - TeCB	77L			2000	986	49.3	0.75	1.395
13C12-3,4,4',5 - TeCB	81L			2000	1020	51.0	0.77	1.372
13C12-2,2',4,6,6' - PeCB	104L			2000	873	43.6	1.57	0.809
13C12-2,3,3',4,4' - PeCB	105L			2000	1230	61.4	1.60	1.199
13C12-2,3,4,4',5 - PeCB	114L			2000	1260	63.0	1.60	1.178
13C12-2,3',4,4',5 - PeCB	118L			2000	1290	64.7	1.58	1.161
13C12-2',3,4,4',5 - PeCB	123L			2000	1270	63.5	1.57	1.150
13C12-3,3',4,4',5 - PeCB	126L			2000	1180	59.2	1.62	1.300
13C12-2,2',4,4',6,6' - HxCB	155L			2000	1050	52.4	1.28	0.787
13C12-2,3,3',4,4',5 - HxCB	156L	156L + 157L	C	4000	2440	60.9	1.30	1.107
13C12-2,3,3',4,4',5' - HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5' - HxCB	167L			2000	1250	62.7	1.30	1.078
13C12-3,3',4,4',5,5' - HxCB	169L			2000	1100	54.8	1.31	1.191
13C12-2,2',3,3',4,4',5 - HpCB	170L			2000	1290	64.3	1.08	0.897
13C12-2,2',3,4,4',5,5' - HpCB	180L			2000	1250	62.7	1.09	0.873
13C12-2,2',3,4',5,6,6' - HpCB	188L			2000	1160	58.1	1.07	0.713
13C12-2,3,3',4,4',5,5' - HpCB	189L			2000	1310	65.6	1.07	0.959
13C12-2,2',3,3',5,5',6,6' - OcCB	202L			2000	1270	63.3	0.92	0.818
13C12-2,3,3',4,4',5,5',6 - OcCB	205L			2000	1250	62.4	0.90	1.009
13C12-2,2',3,3',4,4',5,5',6 - NoCB	206L			2000	1200	59.8	0.81	1.043
13C12-2,2',3,3',4,5,5',6,6' - NoCB	208L			2000	1270	63.6	0.84	0.950
13C12-2,2',3,3',4,4',5,5',6,6' - DeCB	209L			2000	1280	64.0	1.20	1.075

9139AD2_1.xls, S7

Approved by:  QA/QC Chemist

24-08-2003
dd-mm-yyyy

Form 2 (Continued)
PCB CONGENER ANALYSIS REPORT

CLIENT ID:
AN-EW50GW-030612

Lab Name: AXYS ANALYTICAL SERVICES

Sample Collection: 12-Jun-2003 09:40

Contract No.: 9952

Lab Sample ID: L5850-8

Matrix: AQUEOUS

Sample Size: 0.938 L

Sample Receipt Date: 13-Jun-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 5:27:14

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_357 S:9

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units : pg absolute

CLEAN-UP STANDARD	IUPAC NO. ¹	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12- 2,4,4' - TriCB	28L		2000	1160	58.0	1.04	0.924
13C12-2,3,3',5,5' - PeCB	111L		2000	1340	67.2	1.61	1.087
13C12-2,2',3,3',5,5',6 - HpCB	178L		2000	1450	72.3	1.09	1.012

(1) Suffix "L" indicates labeled compound

(2) C = co-eluting congener; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately

(3) R% = percent recovery of labeled compounds

9139AD2_1.xls, S7

Approved by: _____

QA/QC Chemist

24-08-2003
dd-mm-yyyy

Form 1A
HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

Sample Collection: 12-Jun-2003 09:40

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.:	9952	Lab Sample ID:	L5850-8
Matrix:	AQUEOUS	Sample Size:	0.938 L
Sample Receipt Date:	13-Jun-2003	Initial Calibration Date:	19-Jun-2003
Extraction Date:	30-Jun-2003	Instrument ID:	HR GC/MS
Analysis Date:	07-Jul-2003	Time: 5:27:14	GC Column ID: SPB-OCTYL
Extract Volume (µL):	22	Blank Data Filename:	PB3C_357 S:4
Injection Volume (µL):	1.0	Cal. Ver. Data Filename:	PB3C_357 S:1
Dilution Factor:	N/A	Sample Datafile(s):	PB3C_357 S:9
Concentration Units :	pg/L		

PCB HOMOLOGUE GROUP	LAB FLAG [†]	CONC. FOUND	DETECTION LIMIT
Total Monochloro Biphenyls		2.77 U	0.375
Total Dichloro Biphenyls		4.01	1.38
Total Trichloro Biphenyls		1.68 2.29	0.579
Total Tetrachloro Biphenyls		1.12 14.8	0.526
Total Pentachloro Biphenyls		1.09 18.5	0.266
Total Hexachloro Biphenyls		2.74 6.01	0.215
Total Heptachloro Biphenyls		1.23 1.30	0.0316
Total Octachloro Biphenyls		0.056 U	0.0442
Total Nonachloro Biphenyls	U		1.62
Decachloro Biphenyl	U		0.0190
TOTAL PCBs		11.9 52.8	

(1) U = Not detected
(2) All header information pertains to the initial instrumental analysis of the sample extract.
Additional sample datafiles listed refer to secondary analysis of the sample extract.

RW
11/19/03

Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES
Contract No.: 9952
Matrix: AQUEOUS
Sample Size: 0.938 L
Concentration Units: pg/L

Sample Collection: 12-Jun-2003 09:40
Lab Sample ID: L5850-8
GC Column ID(s): SPB-OCTYL
Sample Datafile(s): PB3C_357 S:9

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	TEQ		
							U=1/2 DL	U=0	
3,3',4,4'-TetraCB	77		U		0.526	0.0001	2.63E-05	0.00E+00	
3,4,4',5-TetraCB	81		U		0.489	0.0001	2.44E-05	0.00E+00	
2,3,3',4,4'-PentaCB	105		U		0.216	0.0001	1.08E-05	0.00E+00	
2,3,4,4',5-PentaCB	114		U		0.197	0.0005	4.93E-05	0.00E+00	
2,3',4,4',5-PentaCB	118			2.55 UB	0.192	0.0001	9.6 E-6 2.56E-04	2.55E-04 0.00	
2',3,4,4',5-PentaCB	123		U		0.203	0.0001	1.01E-05	0.00E+00	
3,3',4,4',5-PentaCB	126		U		0.266	0.1	1.33E-02	0.00E+00	
2,3,3',4,4',5-HexaCB	156	156 + 157	C U		0.181	0.0005	4.53E-05	0.00E+00	
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156						
2,3',4,4',5,5'-HexaCB	167		U		0.137	0.00001	6.83E-07	0.00E+00	
3,3',4,4',5,5'-HexaCB	169		U		0.174	0.01	8.70E-04	0.00E+00	
2,2',3,3',4,4',5-HeptaCB	170		Z						
2,2',3,4,4',5,5'-HeptaCB	180	180 + 193	Z				7.55E-7		
2,3,3',4,4',5,5'-HeptaCB	189			0.074 UB	0.0151	0.0001	2.40E-06	7.40E-06 0.00	
2,3,3',4',5,5',6-HeptaCB	193	180 + 193	Z						
TOTAL TEQ							0.0146	0.000263	0.0000

(1) C = co-eluting congener; U = not detected; Z = compound not requested
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

0.00
0.00143

RM
11/19/03

Form 1A
PCB AROCLOR EQUIVALENT ANALYSIS REPORT

Sample Collection: 12-Jun-2003 09:40

Lab Name: AXYS ANALYTICAL SERVICES

Contract No.: 9952

Lab Sample ID: L5850-8

Matrix: AQUEOUS

Sample Size: 0.938 L

Sample Receipt Date: 13-Jun-2003

Initial Calibration Date: 19-Jun-2003

Extraction Date: 30-Jun-2003

Instrument ID: HR GC/MS

Analysis Date: 07-Jul-2003

Time: 5:27:14

GC Column ID: SPB-OCTYL

Extract Volume (µL): 22

Sample Datafile: PB3C_357 S: 9

Injection Volume (µL): 1.0

Blank Data Filename: PB3C_357 S:4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB3C_357 S:1

Concentration Units: pg/L

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT
Aroclor 1016	12674-11-2	Z		
Aroclor 1221	11104-28-2	U		1.06
Aroclor 1232	11141-16-5	U		1.31
Aroclor 1242	53469-21-9	5.0	15.0	2.27
Aroclor 1248	12672-29-6	U		2.41
Aroclor 1254	11097-69-1	U		1.47
Aroclor 1260	11096-82-5		3.59	0.158

(1) U = not detected; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; X = results reported separately
(2) PCB Aroclor equivalents were calculated from individual PCB congener concentrations using empirically determined conversion factors.

Rm
11/19/03

2. Blanks – Acceptable. The laboratory blank contained 9.4 pg/L of total PCBs and the trip blanks contained 14 and 21 pg/L of total PCBs. This is in the same range as the field samples. Data were both blank-corrected and qualified in Excel data summaries (application of UB qualifier).
3. Surrogates – Acceptable. . The laboratory noted that several C-13 labeled surrogates were below method criteria in this sample. Because the surrogate recoveries were in a range that Axys does not believe effects the sample results, no action was taken.
- 4.
5. Matrix Spike – Acceptable. Recoveries ranged from 91-118%.
6. Reporting Limits – Acceptable.
7. Notes – The laboratory noted that this issues discussed above relative to surrogate recoveries are not believe to effect the sample results. .

Overall Assessment of Data

The completeness of Axys Analytical WG10228 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary beyond those applied due to associated blanks.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UB The analyte was detected, but was <5 times the level in an associated blank and was therefore qualified as not detected.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Laboratory Qualifier Definitions:

- Cx Co-elutes with indicated congener. Data is provided under the lowest IUPAC designated congener in the group. "X" denotes the IUPAC number of the lowest congener.
- K Could not be confirmed.
- U Not detected.

3. Surrogates – Acceptable. The laboratory did not note any recoveries of C-13 labeled congeners that fell outside limits.
4. Matrix Spike – Acceptable. Recoveries ranged from 87-100%.
5. Reporting Limits – Acceptable.
6. Notes – The laboratory noted no analytical issues with these samples.

Overall Assessment of Data

The completeness of Axys Analytical WG10229 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary beyond those applied due to associated blanks.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UB The analyte was detected, but was <5 times the level in an associated blank and was therefore qualified as not detected.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Laboratory Qualifier Definitions:

- Cx Co-elutes with indicated congener. Data is provided under the lowest IUPAC designated congener in the group. "X" denotes the IUPAC number of the lowest congener.
- K Could not be confirmed.
- U Not detected.

4. Matrix Spike – Acceptable. Recoveries ranged from 92-109%.
5. Reporting Limits – Acceptable.
6. Notes – The laboratory noted that this issues discussed above relative to surrogate recoveries are not believe to effect the sample results. It was also noted that the laboratory blanks was analyzed twice because contamination due to carryover was suspected. The results of the re-analysis are reported and no results are effected.

Overall Assessment of Data

The completeness of Axy's Analytical workgroup number WG10490 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary beyond those applied due to the associated blanks.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UB The analyte was detected, but was <5 times the level in an associated blank and was therefore qualified as not detected.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Laboratory Qualifier Definitions:

- Cx Co-elutes with indicated congener. Data is provided under the lowest IUPAC designated congener in the group. "X" denotes the IUPAC number of the lowest congener.
- K Could not be confirmed.
- U Not detected.

4. Matrix Spike – Acceptable. Recoveries ranged from 92-109%.
5. Reporting Limits – Acceptable.
6. Notes – The laboratory noted that this issues discussed above relative to surrogate recoveries are not believe to effect the sample results. It was also noted that the laboratory blanks was analyzed twice because contamination due to carryover was suspected. The results of the re-analysis are reported and no results are effected.

Overall Assessment of Data

The completeness of Axys Analytical WG10490 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary beyond those applied due to the associated blanks.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UB The analyte was detected, but was <5 times the level in an associated blank and was therefore qualified as not detected.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Laboratory Qualifier Definitions:

- Cx Co-elutes with indicated congener. Data is provided under the lowest IUPAC designated congener in the group. "X" denotes the IUPAC number of the lowest congener.
- K Could not be confirmed.
- U Not detected.

6. Notes – The laboratory noted that the laboratory blank was analyzed twice because contamination due to carryover was suspected. The results of the re-analysis are reported and no results are effected. There were also two other minor instances (power failure, etc) that resulted in re-analyses for reason not related to analytical issues.

Overall Assessment of Data

The completeness of Axys Analytical WG10490 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary beyond those applied due to associated blanks.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UB The analyte was detected, but was <5 times the level in an associated blank and was therefore qualified as not detected.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Laboratory Qualifier Definitions:

- Cx Co-elutes with indicated congener. Data is provided under the lowest IUPAC designated congener in the group. "X" denotes the IUPAC number of the lowest congener.
- K Could not be confirmed.
- U Not detected.

6. Notes – The laboratory noted that the laboratory blank was analyzed twice because contamination due to carryover was suspected. The results of the re-analysis are reported and no results are effected.

Overall Assessment of Data

The completeness of Axys Analytical WG10490 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary beyond those applied due to associated blanks.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UB The analyte was detected, but was <5 times the level in an associated blank and was therefore qualified as not detected.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Laboratory Qualifier Definitions:

- Cx Co-elutes with indicated congener. Data is provided under the lowest IUPAC designated congener in the group. "X" denotes the IUPAC number of the lowest congener.
- K Could not be confirmed.
- U Not detected.

Overall Assessment of Data

The completeness of Axys Analytical WG10590 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UB The analyte was detected, but was <5 times the level in an associated blank and was therefore qualified as not detected.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Laboratory Qualifier Definitions:

- Cx Co-elutes with indicated congener. Data is provided under the lowest IUPAC designated congener in the group. "X" denotes the IUPAC number of the lowest congener.
- K Could not be confirmed.
- U Not detected.

6. Notes – The laboratory noted no significant issues with these analyses.

Overall Assessment of Data

The completeness of Axys Analytical WG10754 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary beyond those applied due to associated blanks.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UB The analyte was detected, but was <5 times the level in an associated blank and was therefore qualified as not detected.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Laboratory Qualifier Definitions:

- Cx Co-elutes with indicated congener. Data is provided under the lowest IUPAC designated congener in the group. "X" denotes the IUPAC number of the lowest congener.
- K Could not be confirmed.
- U Not detected.

5. Reporting Limits – Acceptable.
6. Notes – The laboratory noted no significant issues with these analyses.

Overall Assessment of Data

The completeness of Axys Analytical WG10754 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary beyond those applied due to associated blanks.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- UB The analyte was detected, but was <5 times the level in an associated blank and was therefore qualified as not detected.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Laboratory Qualifier Definitions:

- Cx Co-elutes with indicated congener. Data is provided under the lowest IUPAC designated congener in the group. "X" denotes the IUPAC number of the lowest congener.
- K Could not be confirmed.
- U Not detected.

Overall Assessment of Data

The completeness of CAS Service Requests K2304404 AND K2303705 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

5. Matrix Spike – Acceptable. Recoveries ranged from 96-101%.
6. Reporting Limits – Acceptable.

Turbidity

Samples were analyzed for Turbidity by the EPA Method 180.1.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times.
2. Blanks – Acceptable. Blanks contained non-detectable levels
3. Laboratory Duplicates - Acceptable. Duplicate relative percent differences were <1%.
4. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recovery was 94%.
5. Reporting Limits – Acceptable.

TSS

Samples were analyzed for TSS by the EPA Method 160.2.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times.
2. Blanks – Acceptable. Blanks contained non-detectable levels of TSS.
3. Laboratory Duplicates – Acceptable. The sample duplicated did not contain detectable TSS and duplicate RPDs could not be calculated.
4. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recovery was 95%.
5. Reporting Limits – Acceptable

pH

Samples were analyzed for pH by the EPA Method 150.1.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times.
2. Laboratory Duplicates – Acceptable. Duplicate relative percent differences were <1%.
3. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recovery was 100%.

Conductivity

Samples were analyzed for TSS by the EPA Method 160.2.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times.
2. Blanks – Acceptable. Blanks contained non-detectable conductivity.
3. Laboratory Duplicates – Acceptable. Relative percent difference was <1%.
4. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recovery was 94%.

5. Reporting Limits – Acceptable

Overall Assessment of Data

The completeness of CAS Service Requests K2306740 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Overall Assessment of Data

The completeness of CAS Service Requests K2306814 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

for Organic Data Review, October 1999 and USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review, July 2002.

PCBs

Samples were analyzed for PCBs by the EPA Method 8082.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times.
2. Blanks – Acceptable. Blanks contained non-detectable levels of target chemicals.
3. Surrogates – Acceptable. All recoveries of the surrogate used (decachlorobiphenyl) were acceptable (79-95% recovery).
4. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recoveries ranged from 88-102%.
5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable. Recoveries ranged from 101-117% and relative percent differences were low 1-2%.
6. Field Duplicates – Acceptable. PCBs were either not-detected or detected at very low levels (<5 times detection limits) in these samples. Criteria for duplicate samples are not applicable in this range.
7. Reporting Limits – Acceptable. Elevated detection limits were noted for samples AN-10SD-A and AN-11SD-E due to non-target compounds present in the samples.
8. Notes – The laboratory noted a weathered PCB pattern and selected PCB 1248 as the best match for these samples.

TOC

Samples were analyzed for using PSEP methodology as identified in the introduction to this report.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times.
2. Blanks – Acceptable. Blanks contained non-detectable levels organic carbon.
3. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recovery was 104%.
4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable. Recovery was 96%.
5. Laboratory Duplicates/Triplicates – TOC has low RPD (7%) for the duplicate and a low RSD (8%) for the triplicate analysis
6. Field Duplicates – Acceptable. TOC was detected at very low levels (<5 times detection limits) in these samples. Criteria for duplicate samples are not applicable in this range.
7. Reporting Limits – Acceptable.
8. Notes – None.

Grain Size Analyses

The laboratory noted that samples BWE-9 and AN-11SD-E contained wood and other plant matter. These materials do not conform to the model from which the grain size method is derived and interfere with this determination. Specifically, the silt fraction may be biased high because wood and organic matter floats during this determination.

Overall Assessment of Data

The completeness of CAS Service Request K2306866 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Data validation is based on method performance criteria and QC criteria as documented in the Sampling and Analysis Plan (SAP). If criteria were not available in this document, method criteria or the laboratories' current criteria were used to evaluate the data. This data review included a review of summarized sample results and QA/QC data per the requirements set forth in the QAPP. Holding times, method blanks, surrogate recoveries, laboratory control sample results, laboratory duplicate results, field duplicate results, matrix spike/matrix spike duplicate (MS/MSD) results, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA documents *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, October 1999 and *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review*, July 2002.

PCBs

Samples were analyzed for PCBs by the EPA Method 8082.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times.
2. Blanks – Acceptable. Blanks contained non-detectable levels of target chemicals.
3. Surrogates – Acceptable. All recoveries of the surrogate used (decachlorobiphenyl) were acceptable (85-95% recovery).
4. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recoveries ranged from 88-102%.
5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable. Recoveries ranged from 101-117% and relative percent differences were low (1-2%).
6. Field Duplicates – Acceptable. PCBs were either not-detected or detected at very low levels (<5 times detection limits) in these samples. Criteria for duplicate samples are not applicable in this range.
7. Reporting Limits – Acceptable.
8. Notes – The laboratory noted a weathered PCB pattern and selected PCB 1248 as the best match for these samples.

TOC

Samples were analyzed for using PSEP methodology as identified in the introduction to this report.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times.
2. Blanks – Acceptable. Blanks contained non-detectable levels organic carbon.
3. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recovery was 104%.
4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable. Recovery was 96%.
5. Laboratory Duplicates/Triplicates – TOC has low RPD (7%) for the duplicate and a low RSD (8%) for the triplicate analysis
6. Field Duplicates – Field duplicates were not analyzed in this batch.
7. Reporting Limits – Acceptable.
8. Notes – None.

Grain Size Analyses

The laboratory noted that samples AN-25SD-A, AN-30SD-A, AN-40SD-A, AN-40SD-B, AN-41SD-A, and AN-42SD-A, contained wood and other plant matter. These materials do not conform to the model from which the grain size method is derived and interfere with this determination. Specifically, the silt fraction may be biased high because wood and organic matter floats during this determination.

Overall Assessment of Data

The completeness of CAS Service Request K2306871 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Retene

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times (1 year when frozen at -20°C).
2. Blanks – Acceptable. Blanks contained non-detectable levels of target chemicals.
3. Surrogates / Internal Standards– Acceptable. Internal standard results (chrysene-d12) areas and retention times were within acceptable limits for all samples.
4. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recoveries ranged from 84-88%.
5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable. Recoveries ranged from 85-95% and relative percent differences were low (10%).
6. Field Duplicates – Acceptable. Retene was not detected in the parent or the field duplicate sample.
7. Reporting Limits – Acceptable.
8. Notes – None

Overall Assessment of Data

The completeness of CAS Service Request K2308487 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

<u>COC Sample ID</u>	<u>Type</u>	<u>Requested Analyses</u>
AN-32SD-A	Field Sample	TOC, PCBs
AN-40SD-A	Field Sample	HCID, NWTPH-Dx, SVOCs
AN-41SD-A	Field Sample	HCID, SVOCs

Because these samples were received in September and these analyses were performed in December, sample receipt is not covered by this data package. This information was previously reviewed and no anomalies were noted. These samples were held frozen at -20°C prior to analysis.

Data validation is based on method performance criteria and QC criteria as documented in the Sampling and Analysis Plan (SAP). If criteria were not available in this document, method criteria or the laboratories' current criteria were used to evaluate the data. This data review included a review of summarized sample results and QA/QC data per the requirements set forth in the QAPP. Holding times, method blanks, surrogate recoveries, laboratory control sample results, laboratory duplicate results, field duplicate results, matrix spike/matrix spike duplicate (MS/MSD) results, and reporting limits were reviewed to assess compliance with applicable methods and the QAPP. If data qualification was required, data were qualified based on the definitions and use of qualifying flags outlined in the EPA documents *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review*, October 1999 and *USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Inorganic Data Review*, July 2002.

PCBs

Samples were analyzed for PCBs by the EPA Method 8082.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times (1 year for samples frozen at -20°C).
2. Blanks – Acceptable. Blanks contained non-detectable levels of target chemicals.
3. Surrogates – Acceptable. All recoveries of the surrogate used (decachlorobiphenyl) were acceptable (82-91% recovery).
4. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recoveries ranged from 93-103%.
5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable. Recoveries ranged from 102-107% and relative percent differences were low (2%).
6. Field Duplicates – Acceptable. Semivolatile chemicals were not-detected or detected at very low levels (<5 times detection limits) in these samples. Criteria for duplicate samples are not applicable in this range.
7. Reporting Limits – Acceptable.
8. Notes –None

TOC

Samples were analyzed for using PSEP methodology as identified in the introduction to this report.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times (1 year when frozen at -20°C).
2. Blanks – Acceptable. Blanks contained non-detectable levels organic carbon.
3. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recovery was 89%.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable. Recovery was 94%.
5. Laboratory Duplicates/Triplicates – TOC has low RPD (11%) for the duplicate and a low RSD (13%) for the triplicate analysis.
6. Field Duplicates – The field duplicate analyzed (AN-70SD-A) had an acceptable relative percent difference (16%) from the parent sample despite the low levels of TOC measured (0.13%).
7. Reporting Limits – Acceptable.
8. Notes – None.

Hydrocarbon Identification Scan

Samples were analyzed for Hydrocarbon Identification by Washington State Department of Ecology Methods.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times (1 year for samples frozen at -20°C).
2. Blanks – Acceptable. Blanks contained non-detectable levels of target chemicals.
3. Surrogates – Acceptable. All recoveries of the surrogates used (o-Terphenyl, 4-bromofluorobenzene, and n-Triacontane) were acceptable (72-118% recovery).
4. Field Duplicates – Acceptable. Hydrocarbons were not-detected in these samples. Criteria for duplicate samples are not applicable in this range.
5. Reporting Limits – Acceptable.
6. Notes – The laboratory noted elevated detection limits for samples AN-15SD-A, AN-25SD-A, AN-40SD-A, AN-41SD-A, and BWE-9 due to low total solids.

NWTPH-Diesel and Residual Range Organics

Based upon the results of the Hydrocarbon Identification analysis samples were analyzed for NWTPH Diesel and Residual Range Organics by Washington State Department of Ecology Methods.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times (1 year for samples frozen at -20°C).
2. Blanks – Acceptable. Blanks contained non-detectable levels of target chemicals.
3. Surrogates – Acceptable. All recoveries of the surrogates used (o-terphenyl and n-Triacontane) were acceptable (82-110% recovery).
4. Laboratory Duplicate Analyses – Acceptable. Although in the same range as the detection limits, duplicate relative percent difference were acceptable (5-9% RPD).
5. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recoveries ranged from 103-109%.
6. Field Duplicates – None analyzed because hydrocarbons were not detected during the HCID analysis.
7. Reporting Limits – Acceptable.

8. Notes – The laboratory noted elevated detection limits for samples AN-15SD-A, AN-25SD-A, AN-40SD-A, AN-41SD-A, and BWE-9 due to low total solids.

SVOCs

Samples were analyzed for SVOCs by the EPA Method 8270.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times (1 year for samples frozen at -20°C).
2. Blanks – Acceptable. Blanks contained non-detectable levels of target chemicals.
3. Surrogates – Acceptable. All recoveries of the surrogates used (phenol-d6, nitrobenzene-d5, 2-fluorobiphenyl, terphenyl-d14) were acceptable (28-144% recovery).
4. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recoveries ranged from 33-130%.
5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) – Acceptable. Recoveries ranged from 68-101% and relative percent differences were low (0-8%).
6. Field Duplicates – Acceptable. PCBs were either not-detected or detected at very low levels (<5 times detection limits) in these samples. Criteria for duplicate samples are not applicable in this range.
7. Reporting Limits – Acceptable.

Notes – The laboratory noted a weathered PCB pattern and selected PCB 1248 as the best match for these samples

Overall Assessment of Data

The completeness of CAS Service Request K2308487 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary.

Data Qualifier Definitions:

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

5. Matrix Spike – Acceptable. Recoveries ranged from 106-107%.
6. Reporting Limits – Acceptable.

TSS

Samples were analyzed for TSS by the EPA Method 160.2.

1. Holding Times – Acceptable. All samples were analyzed within applicable holding times.
2. Blanks – Acceptable. Blanks contained non-detectable levels of TSS.
3. Laboratory Duplicates – Acceptable. The sample duplicated did not contain detectable TSS and duplicate RPDs could not be calculated.
4. Laboratory Control Samples (LCS or Blank Spike) – Acceptable. Recovery was 98%.
5. Reporting Limits – Acceptable

Overall Assessment of Data

The completeness of CAS Service Requests K2310030 is 100%. The usefulness of this data is based on USEPA guidance documents. Upon consideration of the information presented above, the data are acceptable and no flags or qualifiers are necessary.

Data Qualifier Definitions:

- | | |
|----|---|
| U | The analyte was analyzed for, but was not detected above the reported sample quantitation limit. |
| J | The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. |
| UJ | The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |
| R | (Not used) The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified. |

APPENDIX H

RADIOISOTOPE DATA

Table H-1
Radioisotope and PCB Aroclor® results for Deposit 1 sediment samples, Upriver Dam

Survey	Survey station	Date	Upper Interval (cm)	Lower Interval (cm)	TOC (% dry)	PCBs (mg/kg dry)	Cesium-137 (dpm/g dry)	Lead-210 (dpm/g dry)	Average Net Sedimentation Rate (cm/yr)	Approx. Deposition Date
UPRIVER	HC-5	8/12/1994	0	5	10.2%	1.010	0.98		0.8	1990
UPRIVER	HC-5	8/12/1994	10	15	11.7%	2.341	1.07			1980
UPRIVER	HC-5	8/12/1994	20	25	8.7%	5.608	3.25			1970
UPRIVER	HC-5	8/12/1994	25	30	13.2%	14.700	4.75			1960
UPRIVER	HC-5	8/12/1994	36	41	8.3%	0.231	0.70			1950
UPRIVER	HC-5	8/12/1994	61	66	4.9%	0.025	0.86 U			
UPRIVER	11	8/22/2001	0	4	1.9%	0.180		4.3	0.4	2000
UPRIVER	11	8/22/2001	4	7	2.6%	0.350	1.8	3.5		1990
UPRIVER	11	8/22/2001	7	10	2.2%	2.500	1.0			1980
UPRIVER	11	8/22/2001	10	15	4.0%	1.100				1970
UPRIVER	11	8/22/2001	15	20	4.1%	20.000	4.3	2.5		1960
UPRIVER	11	8/22/2001	20	25	20.5%	19.000				1950
UPRIVER	11	8/22/2001	25	30	9.0%	1.000	1.9	2.6		1940
UPRIVER	11	8/22/2001	30	35	16.7%	0.390				1930
UPRIVER	11	8/22/2001	35	40	10.0%	0.400		2.9		
UPRIVER	11	8/22/2001	40	45	10.6%	0.310				
UPRIVER	11	8/22/2001	45	50	13.1%	0.350		2.6		
UPRIVER	11	8/22/2001	50	55	10.3%	0.150				
UPRIVER	11	8/22/2001	55	60	14.1%	0.150		2.9		
UPRIVER	11	8/22/2001	60	65	16.2%	0.081				
UPRIVER	11	8/22/2001	65	70	13.7%	0.062				
UPRIVER	12	8/22/2001	0	4	15.7%	0.960		12.4	0.5	2000
UPRIVER	12	8/22/2001	4	7	5.8%	1.600	1.6	7.6		1990
UPRIVER	12	8/22/2001	7	10	5.6%	3.300	2.2			1980
UPRIVER	12	8/22/2001	10	15	13.6%	4.500				1970
UPRIVER	12	8/22/2001	15	20	13.5%	8.700	3.3	5.0		1960
UPRIVER	12	8/22/2001	20	25	12.8%	5.700				1950
UPRIVER	12	8/22/2001	25	30	10.1%	0.760	1.4	3.6		1940
UPRIVER	12	8/22/2001	30	35	8.0%	0.250				1930
UPRIVER	12	8/22/2001	35	40	10.8%	0.074		2.0		
UPRIVER	12	8/22/2001	40	45	14.9%	0.070				
UPRIVER	12	8/22/2001	45	50	15.2%	0.096		2.6		
UPRIVER	12	8/22/2001	50	55	14.0%	0.074				
UPRIVER	12	8/22/2001	55	60	13.9%	0.076				
UPRIVER	12	8/22/2001	60	65	11.2%	0.034				
UPRIVER	13	8/22/2001	0	4	5.0%	0.340		2.5	1.0 (est.)	2000
UPRIVER	13	8/22/2001	4	15		0.310				1990
UPRIVER	13	8/22/2001	15	20		6.700				1980
UPRIVER	13	8/22/2001	25	30		8.800				1970
UPRIVER	13	8/22/2001	30	45		12.000				1960
UPRIVER	13	8/22/2001	45	50		0.740				1950
UPRIVER	13	8/22/2001	50	70		0.190				

cm = centimeters

mg/kg dry = milligrams / kilogram dry weight

dpm/g dry = disintegrations / minute dry weight

cm/yr = centimeters / year