

BATCH SUMMARY

Batch ID: WG30100	Date: 08-Jan-2010															
Analysis Type: PCB Congener	Matrix Type: Tissue															
BATCH MAKEUP																
Contract: 4574 Samples: L13452-2 East Bay- 9 Females L13452-7 Deer Meadow Bk- 20 Males L13452-11 Squamscott R. -11 Females L13452-13 Long Creek - 12 Males L13452-16 Mast Landing -10 Males L13452-18 East Bay - 10 Males L13452-19 Mast Landing - 10 Females L13452-20 Chandler River - 7 Males L13452-21 Deer Meadow Bk- 20 Females L13452-22 Long Creek- 7 Females L13452-23 Crane River- 10 Males L13452-24 Parker River- 10 Males L13452-25 Fore River - 10 Males	Blank: WG30100-101 Reference or Spike: WG30100-102 Duplicate: WG30100-103															
<ol style="list-style-type: none"> 1. Data are not blank corrected. 2. In all field samples except "East Bay – 10 Males and Chandler River – 7 Males", there was an interference affecting 13C-labeled PCB 206, making the recovery of this surrogate appear high. Native PCBs 206 and 207 have therefore been recalculated against labeled PCB 208. (PCB 206 is normally calculated against labeled PCB 206, PCB 207 against the average of labeled PCBs 206 and 208). This re-calculation against an alternative internal standard does not significantly affect the data. PCBs 206 and 207 are flagged "T", to indicate the deviation from the routine calculation. 3. The percent recoveries of some 13C-labeled PCB surrogates did not meet the method criteria in the samples tabulated below. The affected surrogates are listed in the table and have been flagged with a 'V' on sample reports and a '*' in the database. It is Axys' experience that target analyte quantification would not significantly be affected by the noted variances. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">CLIENT ID</th> <th style="text-align: left;">AXYS ID</th> <th style="text-align: left;">SURROGATE V-FLAGGED</th> </tr> </thead> <tbody> <tr> <td>Chandler River – 7 Males</td> <td>L13452-20</td> <td>PCB 1, 3, 4</td> </tr> <tr> <td>Crane River – 10 Males</td> <td>L13452-23</td> <td>PCB 206</td> </tr> <tr> <td>Parker River – 10 Males</td> <td>L13452-25</td> <td>PCB 1</td> </tr> <tr> <td>OPR</td> <td>WG30100-102</td> <td>PCB 4</td> </tr> </tbody> </table>		CLIENT ID	AXYS ID	SURROGATE V-FLAGGED	Chandler River – 7 Males	L13452-20	PCB 1, 3, 4	Crane River – 10 Males	L13452-23	PCB 206	Parker River – 10 Males	L13452-25	PCB 1	OPR	WG30100-102	PCB 4
CLIENT ID	AXYS ID	SURROGATE V-FLAGGED														
Chandler River – 7 Males	L13452-20	PCB 1, 3, 4														
Crane River – 10 Males	L13452-23	PCB 206														
Parker River – 10 Males	L13452-25	PCB 1														
OPR	WG30100-102	PCB 4														

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Form 3A
PCB CONGENERS INITIAL CALIBRATION RELATIVE RESPONSES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_274A S: 8

CS2 Data Filename: PB9C_274A S: 7

CS3 Data Filename: PB9C_274A S: 6

CS4 Data Filename: PB9C_274A S: 5

CS5 Data Filename: PB9C_274A S: 4

CS6 Data Filename: N/A

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV ² (%RSD)
				CS0	CS1	CS2	CS3	CS4	CS5		
2-MoCB	1				1.14	1.17	1.14	1.17	1.19	1.16	1.77
4-MoCB	3				1.10	1.10	1.09	1.11	1.12	1.10	1.17
2,2'-DiCB	4				0.90	0.91	0.93	0.94	0.95	0.93	1.80
4,4'-DiCB	15				0.94	0.97	0.98	1.02	1.01	0.98	3.35
2,2',6-TriCB	19				1.01	1.04	1.04	1.07	1.07	1.05	2.34
3,4,4'-TriCB	37				0.94	0.96	0.95	0.98	0.98	0.96	1.86
2,2',6,6'-TeCB	54				1.06	1.06	1.06	1.09	1.09	1.07	1.58
3,3',4,4'-TeCB	77				1.02	1.03	1.04	1.06	1.07	1.04	2.20
3,4,4',5-TeCB	81				0.98	1.00	0.99	1.02	1.00	1.00	1.31
2,2',4,6,6'-PeCB	104				1.08	1.09	1.09	1.12	1.11	1.10	1.35
2,3,3',4,4'-PeCB	105				0.95	0.95	0.97	1.00	1.01	0.98	2.69
2,3,4,4',5-PeCB	114				0.98	0.95	0.97	0.99	0.99	0.98	1.77
2,3',4,4',5-PeCB	118				0.92	0.93	0.93	0.95	0.96	0.94	1.84
2',3,4,4',5-PeCB	123				0.90	0.90	0.91	0.95	0.94	0.92	2.60
3,3',4,4',5-PeCB	126				0.88	0.96	0.99	1.01	0.99	0.97	5.17
2,2',4,4',6,6'-HxCB	155				0.96	0.98	1.00	1.03	1.04	1.00	3.24
2,3,3',4,4',5-HxCB	156	156 + 157	C		1.01	1.02	1.03	1.07	1.06	1.04	2.55
2,3,3',4,4',5-HxCB	157	156 + 157	C156								
2,3',4,4',5,5'-HxCB	167				0.98	1.03	1.04	1.06	1.07	1.04	3.48
3,3',4,4',5,5'-HxCB	169				0.95	1.03	1.01	1.05	1.05	1.02	4.02
2,2',3,4',5,6,6'-HpCB	188				1.00	1.02	1.01	1.06	1.06	1.03	2.72
2,3,3',4,4',5,5'-HpCB	189				0.83	0.86	0.87	0.91	0.89	0.87	3.65
2,2',3,3',5,5',6,6'-OcCB	202				0.86	0.83	0.90	0.93	0.93	0.89	4.82
2,3,3',4,4',5,5',6-OcCB	205				0.94	0.94	0.93	0.97	0.96	0.95	1.72
2,2',3,3',4,4',5,5',6-NoCB	206				1.07	1.06	1.05	1.09	1.09	1.07	1.77
2,2',3,3',4,5,5',6,6'-NoCB	208				0.96	1.03	0.99	1.03	1.04	1.01	3.21
2,2',3,3',4,4',5,5',6,6'-DeCB	209				0.94	1.05	1.03	1.06	1.07	1.03	5.28

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) For contract CV specifications, see Section 10.4.4, Method 1668A.

Approved by: _____ Jeffrey Chong _____ QA/QC Chemist



Form 3B
PCB CONGENERS INITIAL CALIBRATION RELATIVE RESPONSES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_274A S: 8

CS2 Data Filename: PB9C_274A S: 7

CS3 Data Filename: PB9C_274A S: 6

CS4 Data Filename: PB9C_274A S: 5

CS5 Data Filename: PB9C_274A S: 4

CS6 Data Filename: N/A

COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RELATIVE RESPONSE (RR)						MEAN RR	CV ³ (%RSD)
				CS0	CS1	CS2	CS3	CS4	CS5		
13C12-2-MoCB	1L			0.99	0.98	0.99	0.96	0.98	0.98	1.47	
13C12-4-MoCB	3L			0.96	0.94	0.94	0.98	0.97	0.96	1.59	
13C12-2,2'-DiCB	4L			0.65	0.64	0.65	0.65	0.64	0.65	0.54	
13C12-4,4'-DiCB	15L			1.00	0.96	0.99	1.04	1.06	1.01	3.93	
13C12-2,2',6-TriCB	19L			0.49	0.50	0.49	0.49	0.49	0.49	0.63	
13C12-3,4,4'-TriCB	37L			1.74	1.68	1.72	1.83	1.82	1.76	3.62	
13C12-2,2',6,6'-TeCB	54L			1.34	1.37	1.33	1.32	1.32	1.34	1.55	
13C12-3,3',4,4'-TeCB	77L			1.28	1.26	1.27	1.35	1.33	1.30	3.21	
13C12-3,4,4',5'-TeCB	81L			1.29	1.27	1.28	1.39	1.39	1.32	4.69	
13C12-2,2',4,6,6'-PeCB	104L			1.21	1.18	1.20	1.20	1.24	1.21	1.66	
13C12-2,3,3',4,4'-PeCB	105L			1.31	1.30	1.28	1.39	1.40	1.34	4.06	
13C12-2,3,4,4',5'-PeCB	114L			1.37	1.35	1.33	1.42	1.49	1.39	4.50	
13C12-2,3',4,4',5'-PeCB	118L			1.36	1.35	1.34	1.44	1.46	1.39	3.80	
13C12-2',3,4,4',5'-PeCB	123L			1.36	1.36	1.34	1.43	1.47	1.39	3.95	
13C12-3,3',4,4',5'-PeCB	126L			1.15	1.17	1.13	1.25	1.26	1.19	4.82	
13C12-2,2',4,4',6,6'-HxCB	155L			1.43	1.39	1.41	1.38	1.46	1.42	2.25	
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	1.17	1.17	1.18	1.26	1.30	1.21	4.85	
13C12-2,3,3',4,4',5',5'-HxCB	157L	156L + 157L	C156L								
13C12-3,3',4,4',5,5'-HxCB	167L			1.16	1.16	1.16	1.24	1.25	1.19	4.07	
13C12-3,3',4,4',5,5'-HxCB	169L			1.06	1.06	1.09	1.17	1.15	1.11	4.60	
13C12-2,2',3,4,5,6,6'-HpCB	188L			1.53	1.61	1.56	1.54	1.74	1.60	5.14	
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.37	1.42	1.37	1.43	1.53	1.43	4.46	
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			1.21	1.27	1.21	1.23	1.32	1.25	3.73	
13C12-2,3,3',4,4',5,5',6-OcCB	205L			1.28	1.29	1.29	1.33	1.40	1.32	3.81	
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.82	0.78	0.82	0.84	0.91	0.83	5.43	
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.09	1.10	1.09	1.12	1.22	1.12	4.74	
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			0.87	0.85	0.86	0.89	0.97	0.89	5.45	
CLEAN-UP STANDARD											
13C12-2,4,4'-TriCB	28L			1.89	1.92	1.87	1.84	1.83	1.87	1.94	
13C12-2,3,3',5,5'-PeCB	111L			1.24	1.25	1.23	1.28	1.30	1.26	2.10	
13C12-2,2',3,3',5,5',6-HpCB	178L			0.86	0.87	0.86	0.85	0.85	0.86	1.15	

(1) Suffix "L" indicates labeled compound.

(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(3) For contract CV specifications, see Section 10.4.4, Method 1668A.

Approved by: _____ Jeffrey Chong _____ QA/QC Chemist



Form 3C
PCB CONGENER INITIAL CALIBRATION ION ABUNDANCE RATIOS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_274A S: 8

CS2 Data Filename: PB9C_274A S: 7

CS3 Data Filename: PB9C_274A S: 6

CS4 Data Filename: PB9C_274A S: 5

CS5 Data Filename: PB9C_274A S: 4

CS6 Data Filename: N/A

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	M/Z's FORMING RATIO ²	ION ABUNDANCE RATIO						QC LIMITS ²
					CS0	CS1	CS2	CS3	CS4	CS5	
2-MoCB	1			M/M+2	3.08	3.09	3.07	3.06	3.09		2.66-3.60
4-MoCB	3			M/M+2	3.23	3.12	3.10	3.08	3.09		2.66-3.60
2,2'-DiCB	4			M/M+2	1.60	1.55	1.53	1.50	1.52		1.33-1.79
4,4'-DiCB	15			M/M+2	1.74	1.56	1.55	1.53	1.53		1.33-1.79
2,2',6-TriCB	19			M/M+2	1.05	1.07	1.06	1.06	1.06		0.88-1.20
3,4,4'-TriCB	37			M/M+2	1.05	1.03	1.02	1.02	1.02		0.88-1.20
2,2',6,6'-TeCB	54			M/M+2	0.79	0.79	0.80	0.80	0.80		0.65-0.89
3,3',4,4'-TeCB	77			M/M+2	0.76	0.76	0.77	0.77	0.77		0.65-0.89
3,4,4',5-TeCB	81			M/M+2	0.77	0.79	0.77	0.77	0.77		0.65-0.89
2,2',4,6,6'-PeCB	104			M+2/M+4	1.50	1.56	1.60	1.58	1.58		1.32-1.78
2,3,3',4,4'-PeCB	105			M+2/M+4	1.62	1.63	1.56	1.54	1.53		1.32-1.78
2,3,4,4',5-PeCB	114			M+2/M+4	1.70	1.51	1.56	1.56	1.55		1.32-1.78
2,3',4,4',5-PeCB	118			M+2/M+4	1.65	1.57	1.53	1.55	1.54		1.32-1.78
2',3,4,4',5-PeCB	123			M+2/M+4	1.54	1.48	1.53	1.54	1.54		1.32-1.78
3,3',4,4',5-PeCB	126			M+2/M+4	1.49	1.49	1.55	1.55	1.55		1.32-1.78
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.26	1.22	1.26	1.27	1.26		1.05-1.43
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.28	1.23	1.27	1.26	1.26		1.05-1.43
2,3,3',4,4',5'-HxCB	157	156 + 157	C156								
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.41	1.22	1.26	1.26	1.26		1.05-1.43
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.22	1.28	1.25	1.26	1.27		1.05-1.43
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	0.99	1.10	1.04	1.04	1.05		0.89-1.21
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	0.96	1.04	1.02	1.01	1.01		0.89-1.21
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.92	0.89	0.92	0.91	0.90		0.76-1.02
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.89	0.92	0.90	0.90	0.90		0.76-1.02
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.77	0.79	0.79	0.78	0.79		0.65-0.89
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.73	0.80	0.80	0.79	0.78		0.65-0.89
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.62	0.68	0.71	0.69	0.70		0.59-0.79

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) See Table 8 Method 1668A for m/z specifications and ion abundance ratio control limits.

Approved by: _____ Jeffrey Chong _____ QA/QC Chemist



Form 3D
PCB CONGENER INITIAL CALIBRATION ION ABUNDANCE RATIOS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_274A S: 8

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CS3 Data Filename: PB9C_274A S: 6

CS4 Data Filename: PB9C_274A S: 5

CS5 Data Filename: PB9C_274A S: 4

CS6 Data Filename: N/A

Labeled Compound	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	M/Z's FORMING RATIO ³	ION ABUNDANCE RATIO						QC LIMITS ³	
					CS0	CS1	CS2	CS3	CS4	CS5		CS6
13C12-2-MoCB	1L			M/M+2		3.24	3.24	3.24	3.27	3.25		2.66-3.60
13C12-4-MoCB	3L			M/M+2		3.17	3.22	3.19	3.19	3.19		2.66-3.60
13C12-2,2'-DiCB	4L			M/M+2		1.60	1.60	1.59	1.60	1.61		1.33-1.79
13C12-4,4'-DiCB	15L			M/M+2		1.60	1.61	1.60	1.60	1.60		1.33-1.79
13C12-2,2',6-TriCB	19L			M/M+2		1.06	1.05	1.06	1.06	1.06		0.88-1.20
13C12-3,4,4'-TriCB	37L			M/M+2		1.05	1.04	1.05	1.06	1.05		0.88-1.20
13C12-2,2',6,6'-TeCB	54L			M/M+2		0.81	0.81	0.81	0.81	0.81		0.65-0.89
13C12-3,3',4,4'-TeCB	77L			M/M+2		0.80	0.80	0.80	0.80	0.80		0.65-0.89
13C12-3,4,4',5-TeCB	81L			M/M+2		0.80	0.80	0.79	0.80	0.80		0.65-0.89
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4		1.59	1.60	1.60	1.58	1.62		1.32-1.78
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4		1.58	1.56	1.58	1.60	1.58		1.32-1.78
13C12-2,3,4,4',5-PeCB	114L			M+2/M+4		1.61	1.63	1.60	1.61	1.59		1.32-1.78
13C12-2,3',4,4',5-PeCB	118L			M+2/M+4		1.59	1.59	1.57	1.60	1.56		1.32-1.78
13C12-2',3,4,4',5-PeCB	123L			M+2/M+4		1.58	1.60	1.58	1.57	1.58		1.32-1.78
13C12-3,3',4,4',5-PeCB	126L			M+2/M+4		1.55	1.58	1.57	1.59	1.59		1.32-1.78
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4		1.26	1.25	1.24	1.25	1.26		1.05-1.43
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	M+2/M+4		1.32	1.31	1.29	1.30	1.31		1.05-1.43
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L	M+2/M+4		1.30	1.28	1.29	1.29	1.30		1.05-1.43
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4		1.27	1.28	1.28	1.28	1.28		1.05-1.43
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4		1.27	1.28	1.28	1.28	1.28		1.05-1.43
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4		1.06	1.07	1.05	1.06	1.05		0.89-1.21
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4		1.08	1.05	1.08	1.07	1.09		0.89-1.21
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4		0.91	0.90	0.90	0.92	0.90		0.76-1.02
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4		0.93	0.94	0.92	0.91	0.93		0.76-1.02
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4		0.81	0.78	0.79	0.81	0.80		0.65-0.89
13C12-2,2',3,3',4,4',5,5',6,6'-NoCB	208L			M+2/M+4		0.80	0.81	0.78	0.79	0.79		0.65-0.89
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6		1.19	1.18	1.20	1.19	1.20		0.99-1.33
CLEAN-UP STANDARD												
13C12-2,4,4'-TriCB	28L			M/M+2		1.05	1.05	1.05	1.05	1.05		0.88-1.20
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4		1.60	1.59	1.60	1.59	1.60		1.32-1.78
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4		1.05	1.06	1.03	1.07	1.06		0.89-1.21

(1) Suffix "L" indicates labeled compound.
 (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
 (3) See Table 8 Method 1668A for m/z specifications and ion abundance ratio control limits.

Approved by: _____ Jeffrey Chong _____ QA/QC Chemist



Form 3A
PCB CONGENERS INITIAL CALIBRATION RELATIVE RESPONSES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 28-Nov-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_362D S: 9

CS2 Data Filename: PB9C_362D S: 7

CS3 Data Filename: PB9C_362D S: 6

CS4 Data Filename: PB9C_362D S: 5

CS5 Data Filename: PB9C_362D S: 4

CS6 Data Filename: N/A

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV ² (%RSD)
				CS0	CS1	CS2	CS3	CS4	CS5		
2-MoCB	1				1.00	1.01	1.01	1.03	1.02	1.01	1.31
4-MoCB	3				0.97	0.95	0.95	0.98	0.97	0.96	1.44
2,2'-DiCB	4				0.88	0.86	0.85	0.88	0.88	0.87	1.52
4,4'-DiCB	15				0.87	0.89	0.89	0.92	0.92	0.90	2.29
2,2',6-TriCB	19				0.94	0.94	0.94	0.96	0.95	0.95	0.76
3,4,4'-TriCB	37				0.95	0.91	0.90	0.93	0.91	0.92	1.99
2,2',6,6'-TeCB	54				0.99	0.96	0.95	0.98	0.97	0.97	1.46
3,3',4,4'-TeCB	77				1.00	0.97	0.99	1.00	1.00	0.99	1.67
3,4,4',5-TeCB	81				0.94	0.93	0.94	0.95	0.95	0.94	0.68
2,2',4,6,6'-PeCB	104				1.02	1.03	1.04	1.06	1.05	1.04	1.59
2,3,3',4,4'-PeCB	105				0.98	0.94	0.93	0.94	0.94	0.95	2.30
2,3,4,4',5-PeCB	114				0.95	0.95	0.92	0.95	0.95	0.94	1.54
2,3',4,4',5-PeCB	118				0.99	0.87	0.88	0.89	0.91	0.91	5.24
2',3,4,4',5-PeCB	123				0.85	0.84	0.87	0.89	0.90	0.87	2.94
3,3',4,4',5-PeCB	126				1.00	0.94	0.95	0.96	0.97	0.96	2.45
2,2',4,4',6,6'-HxCB	155				0.95	0.94	0.96	0.98	0.98	0.96	1.63
2,3,3',4,4',5-HxCB	156	156 + 157	C		0.97	0.98	0.99	1.01	1.00	0.99	1.46
2,3,3',4,4',5'-HxCB	157	156 + 157	C156								
2,3',4,4',5,5'-HxCB	167				1.04	0.97	0.99	1.01	0.99	1.00	2.51
3,3',4,4',5,5'-HxCB	169				0.95	0.95	0.96	0.99	0.96	0.96	1.73
2,2',3,4',5,6,6'-HpCB	188				0.97	0.97	0.98	1.00	0.99	0.98	1.26
2,3,3',4,4',5,5'-HpCB	189				0.87	0.89	0.89	0.91	0.90	0.89	1.69
2,2',3,3',5,5',6,6'-OcCB	202				0.87	0.88	0.88	0.90	0.89	0.88	1.49
2,3,3',4,4',5,5',6-OcCB	205				0.92	0.93	0.91	0.92	0.91	0.92	0.90
2,2',3,3',4,4',5,5',6-NoCB	206				1.06	1.06	1.07	1.06	1.04	1.06	0.85
2,2',3,3',4,5,5',6,6'-NoCB	208				0.97	0.96	0.99	1.00	0.99	0.98	1.38
2,2',3,3',4,4',5,5',6,6'-DeCB	209				1.07	1.03	1.03	1.04	1.03	1.04	1.52

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) For contract CV specifications, see Section 10.4.4, Method 1668A.

Approved by: _____ Teresa Rawsthorne _____ QA/QC Chemist



Form 3B
PCB CONGENERS INITIAL CALIBRATION RELATIVE RESPONSES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 28-Nov-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_362D S: 9

CS2 Data Filename: PB9C_362D S: 7

CS3 Data Filename: PB9C_362D S: 6

CS4 Data Filename: PB9C_362D S: 5

CS5 Data Filename: PB9C_362D S: 4

CS6 Data Filename: N/A

COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RELATIVE RESPONSE (RR)						MEAN RR	CV ³ (%RSD)
				CS0	CS1	CS2	CS3	CS4	CS5		
13C12-2-MoCB	1L				1.04	0.91	0.96	0.97	1.01	0.98	4.96
13C12-4-MoCB	3L				0.99	0.95	0.98	1.00	1.05	0.99	3.59
13C12-2,2'-DiCB	4L				0.65	0.64	0.66	0.67	0.67	0.66	1.77
13C12-4,4'-DiCB	15L				1.02	0.99	1.03	1.06	1.12	1.05	4.78
13C12-2,2',6-TriCB	19L				0.67	0.68	0.68	0.68	0.69	0.68	1.37
13C12-3,4,4'-TriCB	37L				1.34	1.28	1.34	1.39	1.48	1.37	5.48
13C12-2,2',6,6'-TeCB	54L				1.27	1.32	1.21	1.19	1.20	1.24	4.17
13C12-3,3',4,4'-TeCB	77L				1.07	1.00	1.11	1.17	1.25	1.12	8.70
13C12-3,4,4',5'-TeCB	81L				1.08	1.02	1.12	1.20	1.27	1.14	8.70
13C12-2,2',4,6,6'-PeCB	104L				1.34	1.42	1.32	1.33	1.38	1.36	2.94
13C12-2,3,3',4,4'-PeCB	105L				1.03	0.97	1.01	1.03	1.12	1.03	5.52
13C12-2,3,4,4',5'-PeCB	114L				1.00	0.94	0.96	1.03	1.11	1.01	6.53
13C12-2,3',4,4',5'-PeCB	118L				1.03	0.99	1.04	1.05	1.14	1.05	5.26
13C12-2',3,4,4',5'-PeCB	123L				1.03	1.01	1.03	1.07	1.15	1.06	5.14
13C12-3,3',4,4',5'-PeCB	126L				0.92	0.88	0.93	0.98	1.08	0.96	7.99
13C12-2,2',4,4',6,6'-HxCB	155L				1.83	1.90	1.74	1.81	1.81	1.82	3.13
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C		1.18	1.21	1.19	1.23	1.37	1.24	6.08
13C12-2,3,3',4,4',5',5'-HxCB	157L	156L + 157L	C156L								
13C12-3,3',4,4',5,5'-HxCB	167L				1.18	1.21	1.16	1.22	1.32	1.22	5.00
13C12-3,3',4,4',5,5'-HxCB	169L				1.08	1.11	1.12	1.15	1.32	1.16	8.15
13C12-2,2',3,4',5,6,6'-HpCB	188L				2.11	2.29	2.08	2.24	2.39	2.22	5.75
13C12-2,3,3',4,4',5,5'-HpCB	189L				1.31	1.34	1.33	1.40	1.50	1.38	5.60
13C12-2,2',3,3',5,5',6,6'-OxCB	202L				1.91	2.10	1.98	2.01	2.07	2.02	3.76
13C12-2,3,3',4,4',5,5',6-OxCB	205L				1.29	1.30	1.30	1.37	1.47	1.35	5.70
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L				0.89	0.92	0.91	0.94	1.02	0.94	5.32
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L				1.20	1.28	1.28	1.32	1.40	1.30	5.46
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L				1.12	1.13	1.09	1.16	1.25	1.15	5.26
CLEAN-UP STANDARD											
13C12-2,4,4'-TriCB	28L				1.42	1.41	1.36	1.35	1.33	1.37	2.71
13C12-2,3,3',5,5'-PeCB	111L				1.26	1.26	1.28	1.32	1.35	1.30	2.94
13C12-2,2',3,3',5,5',6-HpCB	178L				0.94	1.01	0.95	0.93	0.97	0.96	3.17

(1) Suffix "L" indicates labeled compound.

(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(3) For contract CV specifications, see Section 10.4.4, Method 1668A.

Approved by: _____ Teresa Rawsthorne _____ QA/QC Chemist



Form 3C
PCB CONGENER INITIAL CALIBRATION ION ABUNDANCE RATIOS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 28-Nov-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_362D S: 9

CS2 Data Filename: PB9C_362D S: 7

CS3 Data Filename: PB9C_362D S: 6

CS4 Data Filename: PB9C_362D S: 5

CS5 Data Filename: PB9C_362D S: 4

CS6 Data Filename: N/A

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	M/Z's FORMING RATIO ²	ION ABUNDANCE RATIO						QC LIMITS ²
					CS0	CS1	CS2	CS3	CS4	CS5	
2-MoCB	1			M/M+2	2.96	3.02	3.01	3.01	3.01		2.66-3.60
4-MoCB	3			M/M+2	3.44	2.93	3.06	3.03	3.04		2.66-3.60
2,2'-DiCB	4			M/M+2	1.46	1.48	1.52	1.52	1.52		1.33-1.79
4,4'-DiCB	15			M/M+2	1.58	1.51	1.52	1.52	1.53		1.33-1.79
2,2',6-TriCB	19			M/M+2	1.06	1.04	1.05	1.04	1.04		0.88-1.20
3,4,4'-TriCB	37			M/M+2	1.01	1.06	1.02	1.02	1.02		0.88-1.20
2,2',6,6'-TeCB	54			M/M+2	0.78	0.82	0.78	0.80	0.79		0.65-0.89
3,3',4,4'-TeCB	77			M/M+2	0.84	0.75	0.77	0.77	0.77		0.65-0.89
3,4,4',5-TeCB	81			M/M+2	0.71	0.75	0.76	0.76	0.77		0.65-0.89
2,2',4,6,6'-PeCB	104			M+2/M+4	1.58	1.56	1.56	1.56	1.56		1.32-1.78
2,3,3',4,4'-PeCB	105			M+2/M+4	1.45	1.52	1.58	1.54	1.54		1.32-1.78
2,3,4,4',5-PeCB	114			M+2/M+4	1.70	1.63	1.56	1.55	1.54		1.32-1.78
2,3',4,4',5-PeCB	118			M+2/M+4	1.74	1.55	1.56	1.55	1.54		1.32-1.78
2',3,4,4',5-PeCB	123			M+2/M+4	1.47	1.56	1.53	1.54	1.54		1.32-1.78
3,3',4,4',5-PeCB	126			M+2/M+4	1.41	1.56	1.54	1.55	1.55		1.32-1.78
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.22	1.17	1.25	1.25	1.25		1.05-1.43
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.30	1.25	1.26	1.25	1.25		1.05-1.43
2,3,3',4,4',5'-HxCB	157	156 + 157	C156								
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.27	1.27	1.26	1.24	1.24		1.05-1.43
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.26	1.27	1.27	1.25	1.25		1.05-1.43
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	1.20	1.07	1.02	1.04	1.03		0.89-1.21
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	1.03	0.95	1.00	1.02	1.02		0.89-1.21
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.91	0.92	0.91	0.90	0.91		0.76-1.02
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.93	0.91	0.88	0.90	0.90		0.76-1.02
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.82	0.81	0.78	0.79	0.79		0.65-0.89
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.75	0.77	0.79	0.79	0.79		0.65-0.89
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.65	0.64	0.70	0.70	0.70		0.59-0.79

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) See Table 8 Method 1668A for m/z specifications and ion abundance ratio control limits.

Approved by: _____ Teresa Rawsthorne _____ QA/QC Chemist



Form 3D
PCB CONGENER INITIAL CALIBRATION ION ABUNDANCE RATIOS

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 28-Nov-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

CS0 Data Filename: N/A

CS1 Data Filename: PB9C_362D S: 9

CS2 Data Filename: PB9C_362D S: 7

CS3 Data Filename: PB9C_362D S: 6

CS4 Data Filename: PB9C_362D S: 5

CS5 Data Filename: PB9C_362D S: 4

CS6 Data Filename: N/A

Labeled Compound	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	M/Z's FORMING RATIO ³	ION ABUNDANCE RATIO						QC LIMITS ³
					CS0	CS1	CS2	CS3	CS4	CS5	
13C12-2-MoCB	1L			M/M+2	3.16	3.20	3.17	3.19	3.18		2.66-3.60
13C12-4-MoCB	3L			M/M+2	3.14	3.13	3.14	3.12	3.11		2.66-3.60
13C12-2,2'-DiCB	4L			M/M+2	1.57	1.58	1.58	1.55	1.57		1.33-1.79
13C12-4,4'-DiCB	15L			M/M+2	1.57	1.56	1.55	1.55	1.56		1.33-1.79
13C12-2,2',6-TriCB	19L			M/M+2	1.05	1.04	1.03	1.05	1.04		0.88-1.20
13C12-3,4,4'-TriCB	37L			M/M+2	1.04	1.03	1.04	1.02	1.03		0.88-1.20
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.79	0.80	0.79	0.79	0.80		0.65-0.89
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.79	0.77	0.80	0.78	0.78		0.65-0.89
13C12-3,4,4',5-TeCB	81L			M/M+2	0.79	0.80	0.79	0.79	0.79		0.65-0.89
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.51	1.55	1.55	1.53	1.55		1.32-1.78
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.54	1.55	1.56	1.54	1.55		1.32-1.78
13C12-2,3,4,4',5-PeCB	114L			M+2/M+4	1.55	1.54	1.55	1.56	1.55		1.32-1.78
13C12-2,3',4,4',5-PeCB	118L			M+2/M+4	1.54	1.51	1.56	1.54	1.52		1.32-1.78
13C12-2',3,4,4',5-PeCB	123L			M+2/M+4	1.55	1.55	1.53	1.55	1.55		1.32-1.78
13C12-3,3',4,4',5-PeCB	126L			M+2/M+4	1.55	1.56	1.56	1.55	1.55		1.32-1.78
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.26	1.26	1.25	1.25	1.26		1.05-1.43
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	M+2/M+4	1.28	1.27	1.27	1.29	1.29		1.05-1.43
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L	M+2/M+4	1.25	1.29	1.29	1.30	1.28		1.05-1.43
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.25	1.29	1.29	1.30	1.28		1.05-1.43
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.28	1.28	1.26	1.28	1.26		1.05-1.43
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.06	1.05	1.06	1.07	1.05		0.89-1.21
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	1.06	1.06	1.05	1.05	1.04		0.89-1.21
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.92	0.91	0.91	0.93	0.91		0.76-1.02
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.91	0.92	0.93	0.92	0.93		0.76-1.02
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.81	0.79	0.79	0.82	0.81		0.65-0.89
13C12-2,2',3,3',4,4',5,5',6,6'-NoCB	208L			M+2/M+4	0.79	0.80	0.80	0.80	0.81		0.65-0.89
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6	1.19	1.19	1.17	1.17	1.20		0.99-1.33
CLEAN-UP STANDARD											
13C12-2,4,4'-TriCB	28L			M/M+2	1.04	1.04	1.04	1.04	1.03		0.88-1.20
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.58	1.57	1.57	1.57	1.58		1.32-1.78
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.07	1.05	1.04	1.07	1.06		0.89-1.21

(1) Suffix "L" indicates labeled compound.

(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(3) See Table 8 Method 1668A for m/z specifications and ion abundance ratio control limits.

Approved by: _____ Teresa Rawsthorne _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 East Bay- 9 Females
 Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2
Sample Size: 10.2 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 5, PB9C_357 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 78.0
% Lipid: 1.42

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 30-Oct-2009 **Time:** 12:28:08
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (wet weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.438
Total Dichloro Biphenyls		7.30
Total Trichloro Biphenyls		121
Total Tetrachloro Biphenyls		597
Total Pentachloro Biphenyls		2000
Total Hexachloro Biphenyls		6100
Total Heptachloro Biphenyls		2760
Total Octachloro Biphenyls		744
Total Nonachloro Biphenyls		213
Decachloro Biphenyl		79.5
TOTAL PCBs		12600

(1) Where applicable, custom lab flags have been used on this report.
 (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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 East Bay- 9 Females
 Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2
Sample Size: 2.25 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 5, PB9C_357 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 78.0
% Lipid: 1.42

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 30-Oct-2009 **Time:** 12:28:08
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (dry weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		1.99
Total Dichloro Biphenyls		33.2
Total Trichloro Biphenyls		550
Total Tetrachloro Biphenyls		2710
Total Pentachloro Biphenyls		9100
Total Hexachloro Biphenyls		27800
Total Heptachloro Biphenyls		12500
Total Octachloro Biphenyls		3380
Total Nonachloro Biphenyls		969
Decachloro Biphenyl		361
TOTAL PCBs		57400

(1) Where applicable, custom lab flags have been used on this report.
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Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2
Sample Size: 0.145 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 5, PB9C_357 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 78.0
% Lipid: 1.42

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 30-Oct-2009 **Time:** 12:28:08
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		30.8
Total Dichloro Biphenyls		515
Total Trichloro Biphenyls		8530
Total Tetrachloro Biphenyls		42100
Total Pentachloro Biphenyls		141000
Total Hexachloro Biphenyls		430000
Total Heptachloro Biphenyls		195000
Total Octachloro Biphenyls		52400
Total Nonachloro Biphenyls		15000
Decachloro Biphenyl		5600
TOTAL PCBs		890000

(1) Where applicable, custom lab flags have been used on this report.
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Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
 Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-2_Form1AHT_SJ1078263_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.2 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 5
PB9C_357 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			7.75	0.685	0.0001	7.75e-04	7.75e-04	7.75e-04	
3,4,4',5-TeCB	81		U		0.855	0.0003	0.00e+00	1.28e-04	2.57e-04	
2,3,3',4,4'-PeCB	105			157	1.08	0.00003	4.71e-03	4.71e-03	4.71e-03	
2,3,4,4',5-PeCB	114			8.24	1.29	0.00003	2.47e-04	2.47e-04	2.47e-04	
2,3',4,4',5-PeCB	118			424	1.22	0.00003	1.27e-02	1.27e-02	1.27e-02	
2',3,4,4',5-PeCB	123			6.54	1.31	0.00003	1.96e-04	1.96e-04	1.96e-04	
3,3',4,4',5-PeCB	126			1.99	1.56	0.1	1.99e-01	1.99e-01	1.99e-01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	86.7	0.862	0.00003	2.60e-03	2.60e-03	2.60e-03	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			51.4	0.643	0.00003	1.54e-03	1.54e-03	1.54e-03	
3,3',4,4',5,5'-HxCB	169		U		1.82	0.03	0.00e+00	2.73e-02	5.46e-02	
2,3,3',4,4',5,5'-HpCB	189			9.66	0.115	0.00003	2.90e-04	2.90e-04	2.90e-04	
TOTAL TEQ								0.222	0.250	0.277

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-2_TEQ_SJ1078263.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.25 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 5
PB9C_357 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			35.2	3.11	0.0001	3.52e-03	3.52e-03	3.52e-03
3,4,4',5-TeCB	81		U		3.88	0.0003	0.00e+00	5.82e-04	1.16e-03
2,3,3',4,4'-PeCB	105			713	4.91	0.00003	2.14e-02	2.14e-02	2.14e-02
2,3,4,4',5-PeCB	114			37.4	5.86	0.00003	1.12e-03	1.12e-03	1.12e-03
2,3',4,4',5-PeCB	118			1930	5.54	0.00003	5.79e-02	5.79e-02	5.79e-02
2',3,4,4',5-PeCB	123			29.7	5.95	0.00003	8.91e-04	8.91e-04	8.91e-04
3,3',4,4',5-PeCB	126			9.04	7.09	0.1	9.04e-01	9.04e-01	9.04e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	394	3.92	0.00003	1.18e-02	1.18e-02	1.18e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			233	2.92	0.00003	6.99e-03	6.99e-03	6.99e-03
3,3',4,4',5,5'-HxCB	169		U		8.27	0.03	0.00e+00	1.24e-01	2.48e-01
2,3,3',4,4',5,5'-HpCB	189			43.9	0.522	0.00003	1.32e-03	1.32e-03	1.32e-03
TOTAL TEQ							1.01	1.13	1.26

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-2_TEQ_SJ1078263_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-2

Sample Size: 0.145 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s):

PB9C_331 S: 5
PB9C_357 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			546	48.3	0.0001	5.46e-02	5.46e-02	5.46e-02
3,4,4',5-TeCB	81		U		60.2	0.0003	0.00e+00	9.03e-03	1.81e-02
2,3,3',4,4'-PeCB	105			11100	76.2	0.00003	3.33e-01	3.33e-01	3.33e-01
2,3,4,4',5-PeCB	114			580	90.9	0.00003	1.74e-02	1.74e-02	1.74e-02
2,3',4,4',5-PeCB	118			29900	86.0	0.00003	8.97e-01	8.97e-01	8.97e-01
2',3,4,4',5-PeCB	123			461	92.3	0.00003	1.38e-02	1.38e-02	1.38e-02
3,3',4,4',5-PeCB	126			140	110	0.1	1.40e+01	1.40e+01	1.40e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	6110	60.8	0.00003	1.83e-01	1.83e-01	1.83e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			3620	45.3	0.00003	1.09e-01	1.09e-01	1.09e-01
3,3',4,4',5,5'-HxCB	169		U		128	0.03	0.00e+00	1.92e+00	3.84e+00
2,3,3',4,4',5,5'-HpCB	189			681	8.10	0.00003	2.04e-02	2.04e-02	2.04e-02
TOTAL TEQ							15.6	17.6	19.5

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-2_TEQ_SJ1078263_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 Deer Meadow Bk- 20 Males
Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-7 (A)

Matrix: TISSUE

Sample Size: 10.1 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 **Time:** 13:32:39

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_331 S: 6

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 79.6
% Lipid: 1.69

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.501
Total Dichloro Biphenyls		6.91
Total Trichloro Biphenyls		192
Total Tetrachloro Biphenyls		1800
Total Pentachloro Biphenyls		6270
Total Hexachloro Biphenyls		17200
Total Heptachloro Biphenyls		7230
Total Octachloro Biphenyls		1480
Total Nonachloro Biphenyls		483
Decachloro Biphenyl		199
TOTAL PCBs		34900

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-7 (A)
Sample Size: 2.05 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 79.6
% Lipid: 1.69

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 30-Oct-2009 **Time:** 13:32:39
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (dry weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		2.46
Total Dichloro Biphenyls		34.0
Total Trichloro Biphenyls		946
Total Tetrachloro Biphenyls		8850
Total Pentachloro Biphenyls		30800
Total Hexachloro Biphenyls		84400
Total Heptachloro Biphenyls		35600
Total Octachloro Biphenyls		7260
Total Nonachloro Biphenyls		2370
Decachloro Biphenyl		978
TOTAL PCBs		171000

(1) Where applicable, custom lab flags have been used on this report.
 (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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-7 (A)

Matrix: TISSUE

Sample Size: 0.171 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 13:32:39

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_331 S: 6

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 79.6
% Lipid: 1.69

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		29.5
Total Dichloro Biphenyls		407
Total Trichloro Biphenyls		11300
Total Tetrachloro Biphenyls		106000
Total Pentachloro Biphenyls		369000
Total Hexachloro Biphenyls		1010000
Total Heptachloro Biphenyls		426000
Total Octachloro Biphenyls		87100
Total Nonachloro Biphenyls		28400
Decachloro Biphenyl		11700
TOTAL PCBs		2050000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-7_Form1AHT_SJ1078265_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.1 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-7 (A)
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			18.3	2.10	0.0001	1.83e-03	1.83e-03	1.83e-03
3,4,4',5-TeCB	81		U		2.30	0.0003	0.00e+00	3.45e-04	6.90e-04
2,3,3',4,4'-PeCB	105			381	3.12	0.00003	1.14e-02	1.14e-02	1.14e-02
2,3,4,4',5-PeCB	114			20.4	3.26	0.00003	6.12e-04	6.12e-04	6.12e-04
2,3',4,4',5-PeCB	118			1220	2.95	0.00003	3.66e-02	3.66e-02	3.66e-02
2',3,4,4',5-PeCB	123			17.0	3.51	0.00003	5.10e-04	5.10e-04	5.10e-04
3,3',4,4',5-PeCB	126		U		4.05	0.1	0.00e+00	2.03e-01	4.05e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	198	3.81	0.00003	5.94e-03	5.94e-03	5.94e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			111	2.76	0.00003	3.33e-03	3.33e-03	3.33e-03
3,3',4,4',5,5'-HxCB	169		U		4.19	0.03	0.00e+00	6.29e-02	1.26e-01
2,3,3',4,4',5,5'-HpCB	189			18.6	0.207	0.00003	5.58e-04	5.58e-04	5.58e-04
TOTAL TEQ							0.0608	0.327	0.592

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-7_TEQ_SJ1078265.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.05 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-7 (A)
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			89.9	10.3	0.0001	8.99e-03	8.99e-03	8.99e-03
3,4,4',5-TeCB	81		U		11.3	0.0003	0.00e+00	1.70e-03	3.39e-03
2,3,3',4,4'-PeCB	105			1870	15.3	0.00003	5.61e-02	5.61e-02	5.61e-02
2,3,4,4',5-PeCB	114			100	16.0	0.00003	3.00e-03	3.00e-03	3.00e-03
2,3',4,4',5-PeCB	118			5990	14.5	0.00003	1.80e-01	1.80e-01	1.80e-01
2',3,4,4',5-PeCB	123			83.5	17.2	0.00003	2.51e-03	2.51e-03	2.51e-03
3,3',4,4',5-PeCB	126		U		19.9	0.1	0.00e+00	9.95e-01	1.99e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	973	18.7	0.00003	2.92e-02	2.92e-02	2.92e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			545	13.6	0.00003	1.64e-02	1.64e-02	1.64e-02
3,3',4,4',5,5'-HxCB	169		U		20.6	0.03	0.00e+00	3.09e-01	6.18e-01
2,3,3',4,4',5,5'-HpCB	189			91.4	1.02	0.00003	2.74e-03	2.74e-03	2.74e-03
TOTAL TEQ							0.299	1.60	2.91

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-7_TEQ_SJ1078265_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-7 (A)

Sample Size: 0.171 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_331 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			1080	123	0.0001	1.08e-01	1.08e-01	1.08e-01	
3,4,4',5-TeCB	81		U		135	0.0003	0.00e+00	2.03e-02	4.05e-02	
2,3,3',4,4'-PeCB	105			22400	183	0.00003	6.72e-01	6.72e-01	6.72e-01	
2,3,4,4',5-PeCB	114			1200	192	0.00003	3.60e-02	3.60e-02	3.60e-02	
2,3',4,4',5-PeCB	118			71800	174	0.00003	2.15e+00	2.15e+00	2.15e+00	
2',3,4,4',5-PeCB	123			1000	206	0.00003	3.00e-02	3.00e-02	3.00e-02	
3,3',4,4',5-PeCB	126		U		239	0.1	0.00e+00	1.20e+01	2.39e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	11700	224	0.00003	3.51e-01	3.51e-01	3.51e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			6530	163	0.00003	1.96e-01	1.96e-01	1.96e-01	
3,3',4,4',5,5'-HxCB	169		U		247	0.03	0.00e+00	3.71e+00	7.41e+00	
2,3,3',4,4',5,5'-HpCB	189			1100	12.2	0.00003	3.30e-02	3.30e-02	3.30e-02	
TOTAL TEQ								3.58	19.3	34.9

- (1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
- (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-7_TEQ_SJ1078265_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 **Time:** 14:37:03

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-11

Sample Size: 10.5 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename(s): **PB9C_331 S: 7, PB9C_357 S: 8**

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 79.2
% Lipid: 1.62

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.550
Total Dichloro Biphenyls		20.9
Total Trichloro Biphenyls		488
Total Tetrachloro Biphenyls		4130
Total Pentachloro Biphenyls		14800
Total Hexachloro Biphenyls		27800
Total Heptachloro Biphenyls		9240
Total Octachloro Biphenyls		2050
Total Nonachloro Biphenyls		675
Decachloro Biphenyl		215
TOTAL PCBs		59400

(1) Where applicable, custom lab flags have been used on this report.
 (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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 **Time:** 14:37:03

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-11

Sample Size: 2.18 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename(s): **PB9C_331 S: 7, PB9C_357 S: 8**

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 79.2
% Lipid: 1.62

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		2.64
Total Dichloro Biphenyls		100
Total Trichloro Biphenyls		2350
Total Tetrachloro Biphenyls		19900
Total Pentachloro Biphenyls		71400
Total Hexachloro Biphenyls		134000
Total Heptachloro Biphenyls		44400
Total Octachloro Biphenyls		9870
Total Nonachloro Biphenyls		3250
Decachloro Biphenyl		1030
TOTAL PCBs		286000

(1) Where applicable, custom lab flags have been used on this report.
 (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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-11

Matrix: TISSUE

Sample Size: 0.168 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 14:37:03

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s): PB9C_331 S: 7, PB9C_357 S: 8

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 79.2
% Lipid: 1.62

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		34.3
Total Dichloro Biphenyls		1300
Total Trichloro Biphenyls		30400
Total Tetrachloro Biphenyls		258000
Total Pentachloro Biphenyls		925000
Total Hexachloro Biphenyls		1730000
Total Heptachloro Biphenyls		576000
Total Octachloro Biphenyls		128000
Total Nonachloro Biphenyls		42100
Decachloro Biphenyl		13400
TOTAL PCBs		3710000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.5 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-11
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 7
PB9C_357 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			45.1	0.417	0.0001	4.51e-03	4.51e-03	4.51e-03	
3,4,4',5-TeCB	81		U		0.445	0.0003	0.00e+00	6.68e-05	1.34e-04	
2,3,3',4,4'-PeCB	105			958	4.07	0.00003	2.87e-02	2.87e-02	2.87e-02	
2,3,4,4',5-PeCB	114			43.2	4.76	0.00003	1.30e-03	1.30e-03	1.30e-03	
2,3',4,4',5-PeCB	118			2680	3.56	0.00003	8.04e-02	8.04e-02	8.04e-02	
2',3,4,4',5-PeCB	123			37.8	4.83	0.00003	1.13e-03	1.13e-03	1.13e-03	
3,3',4,4',5-PeCB	126			7.64	6.25	0.1	7.64e-01	7.64e-01	7.64e-01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	472	1.39	0.00003	1.42e-02	1.42e-02	1.42e-02	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			237	1.02	0.00003	7.11e-03	7.11e-03	7.11e-03	
3,3',4,4',5,5'-HxCB	169		U		5.52	0.03	0.00e+00	8.28e-02	1.66e-01	
2,3,3',4,4',5,5'-HpCB	189			29.2	0.246	0.00003	8.76e-04	8.76e-04	8.76e-04	
TOTAL TEQ								0.902	0.985	1.07

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-11_TEQ_SJ1078267.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Size: 2.18 g (dry)

Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-11
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 7
PB9C_357 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			217	2.00	0.0001	2.17e-02	2.17e-02	2.17e-02
3,4,4',5-TeCB	81		U		2.14	0.0003	0.00e+00	3.21e-04	6.42e-04
2,3,3',4,4'-PeCB	105			4610	19.6	0.00003	1.38e-01	1.38e-01	1.38e-01
2,3,4,4',5-PeCB	114			208	22.9	0.00003	6.24e-03	6.24e-03	6.24e-03
2,3',4,4',5-PeCB	118			12900	17.1	0.00003	3.87e-01	3.87e-01	3.87e-01
2',3,4,4',5-PeCB	123			182	23.2	0.00003	5.46e-03	5.46e-03	5.46e-03
3,3',4,4',5-PeCB	126			36.7	30.0	0.1	3.67e+00	3.67e+00	3.67e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	2270	6.68	0.00003	6.81e-02	6.81e-02	6.81e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1140	4.90	0.00003	3.42e-02	3.42e-02	3.42e-02
3,3',4,4',5,5'-HxCB	169		U		26.5	0.03	0.00e+00	3.98e-01	7.95e-01
2,3,3',4,4',5,5'-HpCB	189			140	1.18	0.00003	4.20e-03	4.20e-03	4.20e-03
TOTAL TEQ							4.34	4.73	5.13

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-11_TEQ_SJ1078267_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-11

Sample Size: 0.168 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s):

PB9C_331 S: 7
PB9C_357 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			2820	26.0	0.0001	2.82e-01	2.82e-01	2.82e-01
3,4,4',5-TeCB	81		U		27.8	0.0003	0.00e+00	4.17e-03	8.34e-03
2,3,3',4,4'-PeCB	105			59800	254	0.00003	1.79e+00	1.79e+00	1.79e+00
2,3,4,4',5-PeCB	114			2700	297	0.00003	8.10e-02	8.10e-02	8.10e-02
2,3',4,4',5-PeCB	118			167000	222	0.00003	5.01e+00	5.01e+00	5.01e+00
2',3,4,4',5-PeCB	123			2360	301	0.00003	7.08e-02	7.08e-02	7.08e-02
3,3',4,4',5-PeCB	126			476	389	0.1	4.76e+01	4.76e+01	4.76e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	29500	86.7	0.00003	8.85e-01	8.85e-01	8.85e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			14800	63.6	0.00003	4.44e-01	4.44e-01	4.44e-01
3,3',4,4',5,5'-HxCB	169		U		344	0.03	0.00e+00	5.16e+00	1.03e+01
2,3,3',4,4',5,5'-HpCB	189			1820	15.3	0.00003	5.46e-02	5.46e-02	5.46e-02
TOTAL TEQ							56.2	61.4	66.5

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-11_TEQ_SJ1078267_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 Long Creek - 12 Males
Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-13

Matrix: TISSUE

Sample Size: 10.1 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 **Time:** 15:41:26

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s): PB9C_331 S: 8, PB9C_357 S: 7

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 76.9
% Lipid: 2.26

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.562
Total Dichloro Biphenyls		42.5
Total Trichloro Biphenyls		489
Total Tetrachloro Biphenyls		4970
Total Pentachloro Biphenyls		21300
Total Hexachloro Biphenyls		37100
Total Heptachloro Biphenyls		12400
Total Octachloro Biphenyls		2250
Total Nonachloro Biphenyls		560
Decachloro Biphenyl		172
TOTAL PCBs		79400

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 15:41:26

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13

Sample Size: 2.33 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename(s): PB9C_331 S: 8, PB9C_357 S: 7

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 76.9
% Lipid: 2.26

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		2.44
Total Dichloro Biphenyls		184
Total Trichloro Biphenyls		2120
Total Tetrachloro Biphenyls		21600
Total Pentachloro Biphenyls		92600
Total Hexachloro Biphenyls		161000
Total Heptachloro Biphenyls		53800
Total Octachloro Biphenyls		9750
Total Nonachloro Biphenyls		2420
Decachloro Biphenyl		746
TOTAL PCBs		344000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-13

Matrix: TISSUE

Sample Size: 0.229 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 15:41:26

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s): PB9C_331 S: 8, PB9C_357 S: 7

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 76.9
% Lipid: 2.26

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		24.8
Total Dichloro Biphenyls		1880
Total Trichloro Biphenyls		21600
Total Tetrachloro Biphenyls		219000
Total Pentachloro Biphenyls		942000
Total Hexachloro Biphenyls		1640000
Total Heptachloro Biphenyls		547000
Total Octachloro Biphenyls		99000
Total Nonachloro Biphenyls		24700
Decachloro Biphenyl		7590
TOTAL PCBs		3500000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.1 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 8
PB9C_357 S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			41.6	1.10	0.0001	4.16e-03	4.16e-03	4.16e-03
3,4,4',5-TeCB	81		U		1.25	0.0003	0.00e+00	1.88e-04	3.75e-04
2,3,3',4,4'-PeCB	105			1390	4.60	0.00003	4.17e-02	4.17e-02	4.17e-02
2,3,4,4',5-PeCB	114			76.4	5.99	0.00003	2.29e-03	2.29e-03	2.29e-03
2,3',4,4',5-PeCB	118			4400	14.0	0.00003	1.32e-01	1.32e-01	1.32e-01
2',3,4,4',5-PeCB	123			54.2	6.11	0.00003	1.63e-03	1.63e-03	1.63e-03
3,3',4,4',5-PeCB	126			8.82	7.44	0.1	8.82e-01	8.82e-01	8.82e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	690	5.73	0.00003	2.07e-02	2.07e-02	2.07e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			311	4.20	0.00003	9.33e-03	9.33e-03	9.33e-03
3,3',4,4',5,5'-HxCB	169		U		7.63	0.03	0.00e+00	1.14e-01	2.29e-01
2,3,3',4,4',5,5'-HpCB	189			33.9	0.300	0.00003	1.02e-03	1.02e-03	1.02e-03
TOTAL TEQ							1.09	1.21	1.32

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-13_TEQ_SJ1078269.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Size: 2.33 g (dry)

Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_331 S: 8
PB9C_357 S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			180	4.77	0.0001	1.80e-02	1.80e-02	1.80e-02
3,4,4',5-TeCB	81		U		5.42	0.0003	0.00e+00	8.13e-04	1.63e-03
2,3,3',4,4'-PeCB	105			6030	19.9	0.00003	1.81e-01	1.81e-01	1.81e-01
2,3,4,4',5-PeCB	114			331	26.0	0.00003	9.93e-03	9.93e-03	9.93e-03
2,3',4,4',5-PeCB	118			19100	60.7	0.00003	5.73e-01	5.73e-01	5.73e-01
2',3,4,4',5-PeCB	123			235	26.5	0.00003	7.05e-03	7.05e-03	7.05e-03
3,3',4,4',5-PeCB	126			38.2	32.3	0.1	3.82e+00	3.82e+00	3.82e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	2990	24.8	0.00003	8.97e-02	8.97e-02	8.97e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1350	18.2	0.00003	4.05e-02	4.05e-02	4.05e-02
3,3',4,4',5,5'-HxCB	169		U		33.1	0.03	0.00e+00	4.97e-01	9.93e-01
2,3,3',4,4',5,5'-HpCB	189			147	1.30	0.00003	4.41e-03	4.41e-03	4.41e-03
TOTAL TEQ									
							4.74	5.24	5.74

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-13_TEQ_SJ1078269_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-13

Sample Size: 0.229 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s):

PB9C_331 S: 8
PB9C_357 S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			1830	48.5	0.0001	1.83e-01	1.83e-01	1.83e-01
3,4,4',5-TeCB	81		U		55.1	0.0003	0.00e+00	8.27e-03	1.65e-02
2,3,3',4,4'-PeCB	105			61400	202	0.00003	1.84e+00	1.84e+00	1.84e+00
2,3,4,4',5-PeCB	114			3370	265	0.00003	1.01e-01	1.01e-01	1.01e-01
2,3',4,4',5-PeCB	118			194000	618	0.00003	5.82e+00	5.82e+00	5.82e+00
2',3,4,4',5-PeCB	123			2390	270	0.00003	7.17e-02	7.17e-02	7.17e-02
3,3',4,4',5-PeCB	126			389	329	0.1	3.89e+01	3.89e+01	3.89e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	30400	252	0.00003	9.12e-01	9.12e-01	9.12e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			13700	185	0.00003	4.11e-01	4.11e-01	4.11e-01
3,3',4,4',5,5'-HxCB	169		U		337	0.03	0.00e+00	5.06e+00	1.01e+01
2,3,3',4,4',5,5'-HpCB	189			1500	13.2	0.00003	4.50e-02	4.50e-02	4.50e-02
TOTAL TEQ							48.3	53.3	58.4

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-13_TEQ_SJ1078269_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing -10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 05:01:27

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-16 L
Sample Size: 10.2 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 9
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 78.3
% Lipid: 2.60

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		16.9
Total Trichloro Biphenyls		336
Total Tetrachloro Biphenyls		2960
Total Pentachloro Biphenyls		11100
Total Hexachloro Biphenyls		17300
Total Heptachloro Biphenyls		7220
Total Octachloro Biphenyls		1530
Total Nonachloro Biphenyls		368
Decachloro Biphenyl		114
TOTAL PCBs		40900

(1) Where applicable, custom lab flags have been used on this report; 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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing -10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 **Time:** 05:01:27

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-16 L

Sample Size: 2.20 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: **PB9C_357 S: 9**
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 78.3
% Lipid: 2.60

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		78.0
Total Trichloro Biphenyls		1550
Total Tetrachloro Biphenyls		13600
Total Pentachloro Biphenyls		51200
Total Hexachloro Biphenyls		79800
Total Heptachloro Biphenyls		33400
Total Octachloro Biphenyls		7080
Total Nonachloro Biphenyls		1700
Decachloro Biphenyl		526
TOTAL PCBs		189000

(1) Where applicable, custom lab flags have been used on this report; 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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
 Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-16_Form1AHT_SJ1090792_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing -10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-16 L

Matrix: TISSUE

Sample Size: 0.266 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009 Time: 05:01:27

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_357 S: 9

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_357 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 78.3
% Lipid: 2.60

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		645
Total Trichloro Biphenyls		12800
Total Tetrachloro Biphenyls		113000
Total Pentachloro Biphenyls		424000
Total Hexachloro Biphenyls		661000
Total Heptachloro Biphenyls		276000
Total Octachloro Biphenyls		58600
Total Nonachloro Biphenyls		14000
Decachloro Biphenyl		4350
TOTAL PCBs		1560000

(1) Where applicable, custom lab flags have been used on this report; 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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-16_Form1AHT_SJ1090792_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing -10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.2 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-16 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_357 S: 9

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			32.3	1.75	0.0001	3.23e-03	3.23e-03	3.23e-03
3,4,4',5-TeCB	81		U		1.84	0.0003	0.00e+00	2.76e-04	5.52e-04
2,3,3',4,4'-PeCB	105			734	1.23	0.00003	2.20e-02	2.20e-02	2.20e-02
2,3,4,4',5-PeCB	114			37.0	1.40	0.00003	1.11e-03	1.11e-03	1.11e-03
2,3',4,4',5-PeCB	118			2420	1.28	0.00003	7.26e-02	7.26e-02	7.26e-02
2',3,4,4',5-PeCB	123			29.4	1.39	0.00003	8.82e-04	8.82e-04	8.82e-04
3,3',4,4',5-PeCB	126			5.33	1.55	0.1	5.33e-01	5.33e-01	5.33e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	307	3.19	0.00003	9.21e-03	9.21e-03	9.21e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			165	2.26	0.00003	4.95e-03	4.95e-03	4.95e-03
3,3',4,4',5,5'-HxCB	169		U		3.75	0.03	0.00e+00	5.63e-02	1.13e-01
2,3,3',4,4',5,5'-HpCB	189			22.3	0.399	0.00003	6.69e-04	6.69e-04	6.69e-04
TOTAL TEQ							0.648	0.704	0.761

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-16_TEQ_SJ1090792.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing -10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.20 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-16 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_357 S: 9

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			149	8.07	0.0001	1.49e-02	1.49e-02	1.49e-02	
3,4,4',5-TeCB	81		U		8.49	0.0003	0.00e+00	1.27e-03	2.55e-03	
2,3,3',4,4'-PeCB	105			3390	5.67	0.00003	1.02e-01	1.02e-01	1.02e-01	
2,3,4,4',5-PeCB	114			171	6.46	0.00003	5.13e-03	5.13e-03	5.13e-03	
2,3',4,4',5-PeCB	118			11200	5.91	0.00003	3.36e-01	3.36e-01	3.36e-01	
2',3,4,4',5-PeCB	123			136	6.41	0.00003	4.08e-03	4.08e-03	4.08e-03	
3,3',4,4',5-PeCB	126			24.6	7.15	0.1	2.46e+00	2.46e+00	2.46e+00	
2,3,3',4,4',5-HxCB	156	156 + 157	C	1420	14.7	0.00003	4.26e-02	4.26e-02	4.26e-02	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			761	10.4	0.00003	2.28e-02	2.28e-02	2.28e-02	
3,3',4,4',5,5'-HxCB	169		U		17.3	0.03	0.00e+00	2.60e-01	5.19e-01	
2,3,3',4,4',5,5'-HpCB	189			103	1.84	0.00003	3.09e-03	3.09e-03	3.09e-03	
TOTAL TEQ								2.99	3.25	3.51

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-16_TEQ_SJ1090792_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing -10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-16 L

Sample Size: 0.266 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_357 S: 9

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			1230	66.7	0.0001	1.23e-01	1.23e-01	1.23e-01	
3,4,4',5-TeCB	81		U		70.2	0.0003	0.00e+00	1.05e-02	2.11e-02	
2,3,3',4,4'-PeCB	105			28000	46.9	0.00003	8.40e-01	8.40e-01	8.40e-01	
2,3,4,4',5-PeCB	114			1410	53.4	0.00003	4.23e-02	4.23e-02	4.23e-02	
2,3',4,4',5-PeCB	118			92600	48.9	0.00003	2.78e+00	2.78e+00	2.78e+00	
2',3,4,4',5-PeCB	123			1120	53.0	0.00003	3.36e-02	3.36e-02	3.36e-02	
3,3',4,4',5-PeCB	126			203	59.1	0.1	2.03e+01	2.03e+01	2.03e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	11700	122	0.00003	3.51e-01	3.51e-01	3.51e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			6290	86.0	0.00003	1.89e-01	1.89e-01	1.89e-01	
3,3',4,4',5,5'-HxCB	169		U		143	0.03	0.00e+00	2.15e+00	4.29e+00	
2,3,3',4,4',5,5'-HpCB	189			852	15.2	0.00003	2.56e-02	2.56e-02	2.56e-02	
TOTAL TEQ								24.7	26.8	29.0

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-16_TEQ_SJ1090792_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 East Bay - 10 Males
 Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-18 L
Sample Size: 10.7 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 10
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 75.7
% Lipid: 2.40

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 **Time:** 06:05:48
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (wet weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		14.2
Total Trichloro Biphenyls		354
Total Tetrachloro Biphenyls		2240
Total Pentachloro Biphenyls		7600
Total Hexachloro Biphenyls		14700
Total Heptachloro Biphenyls		6510
Total Octachloro Biphenyls		1410
Total Nonachloro Biphenyls		291
Decachloro Biphenyl		120
TOTAL PCBs		33200

(1) Where applicable, custom lab flags have been used on this report; 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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-18_Form1AHT_SJ1090794.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 East Bay - 10 Males
 Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-18 L
Sample Size: 2.61 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 10
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 75.7
% Lipid: 2.40

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 **Time:** 06:05:48
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (dry weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		58.5
Total Trichloro Biphenyls		1460
Total Tetrachloro Biphenyls		9230
Total Pentachloro Biphenyls		31300
Total Hexachloro Biphenyls		60300
Total Heptachloro Biphenyls		26800
Total Octachloro Biphenyls		5810
Total Nonachloro Biphenyls		1200
Decachloro Biphenyl		494
TOTAL PCBs		137000

(1) Where applicable, custom lab flags have been used on this report; 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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xml; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
 Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-18_Form1AHT_SJ1090794_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 East Bay - 10 Males
 Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-18 L

Matrix: TISSUE

Sample Size: 0.263 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009 **Time:** 06:05:48

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: **PB9C_357 S: 10**

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_357 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 75.7
% Lipid: 2.40

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls	U	
Total Dichloro Biphenyls		580
Total Trichloro Biphenyls		14500
Total Tetrachloro Biphenyls		91600
Total Pentachloro Biphenyls		310000
Total Hexachloro Biphenyls		599000
Total Heptachloro Biphenyls		266000
Total Octachloro Biphenyls		57700
Total Nonachloro Biphenyls		11900
Decachloro Biphenyl		4900
TOTAL PCBs		1360000

(1) Where applicable, custom lab flags have been used on this report; 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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay - 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.7 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-18 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_357 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			27.9	0.501	0.0001	2.79e-03	2.79e-03	2.79e-03
3,4,4',5-TeCB	81		U		0.618	0.0003	0.00e+00	9.27e-05	1.85e-04
2,3,3',4,4'-PeCB	105			574	0.830	0.00003	1.72e-02	1.72e-02	1.72e-02
2,3,4,4',5-PeCB	114			32.6	1.03	0.00003	9.78e-04	9.78e-04	9.78e-04
2,3',4,4',5-PeCB	118			1730	0.961	0.00003	5.19e-02	5.19e-02	5.19e-02
2',3,4,4',5-PeCB	123			24.0	1.08	0.00003	7.20e-04	7.20e-04	7.20e-04
3,3',4,4',5-PeCB	126			5.92	1.24	0.1	5.92e-01	5.92e-01	5.92e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	247	3.26	0.00003	7.41e-03	7.41e-03	7.41e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			132	2.31	0.00003	3.96e-03	3.96e-03	3.96e-03
3,3',4,4',5,5'-HxCB	169		U		4.67	0.03	0.00e+00	7.01e-02	1.40e-01
2,3,3',4,4',5,5'-HpCB	189			18.7	0.348	0.00003	5.61e-04	5.61e-04	5.61e-04
TOTAL TEQ							0.678	0.748	0.818

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-18_TEQ_SJ1090794.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay - 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.61 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-18 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_357 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			115	2.06	0.0001	1.15e-02	1.15e-02	1.15e-02	
3,4,4',5-TeCB	81		U		2.54	0.0003	0.00e+00	3.81e-04	7.62e-04	
2,3,3',4,4'-PeCB	105			2360	3.42	0.00003	7.08e-02	7.08e-02	7.08e-02	
2,3,4,4',5-PeCB	114			134	4.24	0.00003	4.02e-03	4.02e-03	4.02e-03	
2,3',4,4',5-PeCB	118			7120	3.95	0.00003	2.14e-01	2.14e-01	2.14e-01	
2',3,4,4',5-PeCB	123			98.8	4.44	0.00003	2.96e-03	2.96e-03	2.96e-03	
3,3',4,4',5-PeCB	126			24.4	5.10	0.1	2.44e+00	2.44e+00	2.44e+00	
2,3,3',4,4',5-HxCB	156	156 + 157	C	1020	13.4	0.00003	3.06e-02	3.06e-02	3.06e-02	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			543	9.51	0.00003	1.63e-02	1.63e-02	1.63e-02	
3,3',4,4',5,5'-HxCB	169		U		19.2	0.03	0.00e+00	2.88e-01	5.76e-01	
2,3,3',4,4',5,5'-HpCB	189			76.9	1.43	0.00003	2.31e-03	2.31e-03	2.31e-03	
TOTAL TEQ								2.79	3.08	3.37

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-18_TEQ_SJ1090794_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-18 L

Sample Size: 0.263 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_357 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			1140	20.4	0.0001	1.14e-01	1.14e-01	1.14e-01	
3,4,4',5-TeCB	81		U		25.2	0.0003	0.00e+00	3.78e-03	7.56e-03	
2,3,3',4,4'-PeCB	105			23400	33.9	0.00003	7.02e-01	7.02e-01	7.02e-01	
2,3,4,4',5-PeCB	114			1330	42.1	0.00003	3.99e-02	3.99e-02	3.99e-02	
2,3',4,4',5-PeCB	118			70700	39.2	0.00003	2.12e+00	2.12e+00	2.12e+00	
2',3,4,4',5-PeCB	123			980	44.1	0.00003	2.94e-02	2.94e-02	2.94e-02	
3,3',4,4',5-PeCB	126			242	50.6	0.1	2.42e+01	2.42e+01	2.42e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	10100	133	0.00003	3.03e-01	3.03e-01	3.03e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			5390	94.4	0.00003	1.62e-01	1.62e-01	1.62e-01	
3,3',4,4',5,5'-HxCB	169		U		191	0.03	0.00e+00	2.87e+00	5.73e+00	
2,3,3',4,4',5,5'-HpCB	189			763	14.2	0.00003	2.29e-02	2.29e-02	2.29e-02	
TOTAL TEQ								27.7	30.6	33.4

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-18_TEQ_SJ1090794_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-19 L

Matrix: TISSUE

Sample Size: 10.1 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009 Time: 13:44:56

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_358 S: 6

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_358 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 78.6
% Lipid: 1.34

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		1.33
Total Dichloro Biphenyls		10.2
Total Trichloro Biphenyls		239
Total Tetrachloro Biphenyls		1970
Total Pentachloro Biphenyls		6370
Total Hexachloro Biphenyls		10300
Total Heptachloro Biphenyls		4860
Total Octachloro Biphenyls		1460
Total Nonachloro Biphenyls		392
Decachloro Biphenyl		128
TOTAL PCBs		25700

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 **Time:** 13:44:56

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-19 L

Sample Size: 2.17 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: **PB9C_358 S: 6**
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 78.6
% Lipid: 1.34

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		6.20
Total Dichloro Biphenyls		47.8
Total Trichloro Biphenyls		1110
Total Tetrachloro Biphenyls		9190
Total Pentachloro Biphenyls		29700
Total Hexachloro Biphenyls		48100
Total Heptachloro Biphenyls		22700
Total Octachloro Biphenyls		6790
Total Nonachloro Biphenyls		1830
Decachloro Biphenyl		598
TOTAL PCBs		120000

(1) Where applicable, custom lab flags have been used on this report.
 (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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-19 L

Matrix: TISSUE

Sample Size: 0.136 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009 Time: 13:44:56

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_358 S: 6

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_358 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 78.6
% Lipid: 1.34

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		98.9
Total Dichloro Biphenyls		763
Total Trichloro Biphenyls		17800
Total Tetrachloro Biphenyls		147000
Total Pentachloro Biphenyls		475000
Total Hexachloro Biphenyls		768000
Total Heptachloro Biphenyls		363000
Total Octachloro Biphenyls		108000
Total Nonachloro Biphenyls		29200
Decachloro Biphenyl		9540
TOTAL PCBs		1920000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing - 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.1 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-19 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			29.5	0.339	0.0001	2.95e-03	2.95e-03	2.95e-03
3,4,4',5-TeCB	81		U		0.357	0.0003	0.00e+00	5.36e-05	1.07e-04
2,3,3',4,4'-PeCB	105			499	2.43	0.00003	1.50e-02	1.50e-02	1.50e-02
2,3,4,4',5-PeCB	114			22.8	2.64	0.00003	6.84e-04	6.84e-04	6.84e-04
2,3',4,4',5-PeCB	118			1320	2.42	0.00003	3.96e-02	3.96e-02	3.96e-02
2',3,4,4',5-PeCB	123			21.6	2.62	0.00003	6.48e-04	6.48e-04	6.48e-04
3,3',4,4',5-PeCB	126			6.00	3.05	0.1	6.00e-01	6.00e-01	6.00e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	251	2.64	0.00003	7.53e-03	7.53e-03	7.53e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			121	1.91	0.00003	3.63e-03	3.63e-03	3.63e-03
3,3',4,4',5,5'-HxCB	169		U		2.49	0.03	0.00e+00	3.74e-02	7.47e-02
2,3,3',4,4',5,5'-HpCB	189			21.5	0.209	0.00003	6.45e-04	6.45e-04	6.45e-04
TOTAL TEQ							0.671	0.708	0.745

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-19_TEQ_SJ1087736.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing - 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.17 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-19 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			138	1.58	0.0001	1.38e-02	1.38e-02	1.38e-02
3,4,4',5-TeCB	81		U		1.67	0.0003	0.00e+00	2.51e-04	5.01e-04
2,3,3',4,4'-PeCB	105			2330	11.3	0.00003	6.99e-02	6.99e-02	6.99e-02
2,3,4,4',5-PeCB	114			106	12.3	0.00003	3.18e-03	3.18e-03	3.18e-03
2,3',4,4',5-PeCB	118			6160	11.3	0.00003	1.85e-01	1.85e-01	1.85e-01
2',3,4,4',5-PeCB	123			101	12.2	0.00003	3.03e-03	3.03e-03	3.03e-03
3,3',4,4',5-PeCB	126			28.0	14.2	0.1	2.80e+00	2.80e+00	2.80e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	1170	12.3	0.00003	3.51e-02	3.51e-02	3.51e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			565	8.92	0.00003	1.70e-02	1.70e-02	1.70e-02
3,3',4,4',5,5'-HxCB	169		U		11.6	0.03	0.00e+00	1.74e-01	3.48e-01
2,3,3',4,4',5,5'-HpCB	189			100	0.976	0.00003	3.00e-03	3.00e-03	3.00e-03
TOTAL TEQ							3.13	3.30	3.48

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-19_TEQ_SJ1087736_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing - 10 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-19 L

Sample Size: 0.136 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_358 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			2200	25.2	0.0001	2.20e-01	2.20e-01	2.20e-01
3,4,4',5-TeCB	81		U		26.6	0.0003	0.00e+00	3.99e-03	7.98e-03
2,3,3',4,4'-PeCB	105			37200	180	0.00003	1.12e+00	1.12e+00	1.12e+00
2,3,4,4',5-PeCB	114			1690	196	0.00003	5.07e-02	5.07e-02	5.07e-02
2,3',4,4',5-PeCB	118			98300	180	0.00003	2.95e+00	2.95e+00	2.95e+00
2',3,4,4',5-PeCB	123			1610	195	0.00003	4.83e-02	4.83e-02	4.83e-02
3,3',4,4',5-PeCB	126			447	227	0.1	4.47e+01	4.47e+01	4.47e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	18700	196	0.00003	5.61e-01	5.61e-01	5.61e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			9020	142	0.00003	2.71e-01	2.71e-01	2.71e-01
3,3',4,4',5,5'-HxCB	169		U		185	0.03	0.00e+00	2.78e+00	5.55e+00
2,3,3',4,4',5,5'-HpCB	189			1600	15.6	0.00003	4.80e-02	4.80e-02	4.80e-02
TOTAL TEQ							50.0	52.7	55.5

- (1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
- (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-19_TEQ_SJ1087736_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River - 7 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-20

Matrix: TISSUE

Sample Size:

10.4 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 31-Oct-2009 **Time:** 01:48:34

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename:

PB9C_332A S: 5

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_332A S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture:
% Lipid:

77.2
 2.09

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.654
Total Dichloro Biphenyls		16.1
Total Trichloro Biphenyls		242
Total Tetrachloro Biphenyls		1950
Total Pentachloro Biphenyls		6020
Total Hexachloro Biphenyls		10600
Total Heptachloro Biphenyls		3310
Total Octachloro Biphenyls		662
Total Nonachloro Biphenyls		118
Decachloro Biphenyl		33.3
TOTAL PCBs		22900

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River - 7 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 31-Oct-2009 **Time:** 01:48:34

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-20

Sample Size: 2.37 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: **PB9C_332A S: 5**
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_332A S: 1

% Moisture: 77.2
% Lipid: 2.09

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		2.86
Total Dichloro Biphenyls		70.3
Total Trichloro Biphenyls		1060
Total Tetrachloro Biphenyls		8540
Total Pentachloro Biphenyls		26300
Total Hexachloro Biphenyls		46400
Total Heptachloro Biphenyls		14500
Total Octachloro Biphenyls		2900
Total Nonachloro Biphenyls		516
Decachloro Biphenyl		146
TOTAL PCBs		101000

(1) Where applicable, custom lab flags have been used on this report.
 (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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River - 7 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-20
Sample Size: 0.212 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_332A S: 5
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_332A S: 1
% Moisture: 77.2
% Lipid: 2.09

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 31-Oct-2009 Time: 01:48:34
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		31.9
Total Dichloro Biphenyls		786
Total Trichloro Biphenyls		11800
Total Tetrachloro Biphenyls		95500
Total Pentachloro Biphenyls		295000
Total Hexachloro Biphenyls		519000
Total Heptachloro Biphenyls		162000
Total Octachloro Biphenyls		32400
Total Nonachloro Biphenyls		5760
Decachloro Biphenyl		1630
TOTAL PCBs		1120000

(1) Where applicable, custom lab flags have been used on this report.
(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-20_Form1AHT_SJ1086717_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River - 7 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-20

Sample Size: 10.4 g (wet)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (wet weight basis)

Sample Data Filename(s): PB9C_332A S: 5

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			15.0	0.812	0.0001	1.50e-03	1.50e-03	1.50e-03
3,4,4',5-TeCB	81		U		0.910	0.0003	0.00e+00	1.37e-04	2.73e-04
2,3,3',4,4'-PeCB	105			360	0.566	0.00003	1.08e-02	1.08e-02	1.08e-02
2,3,4,4',5-PeCB	114			18.4	0.576	0.00003	5.52e-04	5.52e-04	5.52e-04
2,3',4,4',5-PeCB	118			1080	0.470	0.00003	3.24e-02	3.24e-02	3.24e-02
2',3,4,4',5-PeCB	123			15.6	0.609	0.00003	4.68e-04	4.68e-04	4.68e-04
3,3',4,4',5-PeCB	126			3.91	0.743	0.1	3.91e-01	3.91e-01	3.91e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	141	0.923	0.00003	4.23e-03	4.23e-03	4.23e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			72.2	0.641	0.00003	2.17e-03	2.17e-03	2.17e-03
3,3',4,4',5,5'-HxCB	169		U		1.85	0.03	0.00e+00	2.78e-02	5.55e-02
2,3,3',4,4',5,5'-HpCB	189			8.38	0.193	0.00003	2.51e-04	2.51e-04	2.51e-04
TOTAL TEQ							0.443	0.471	0.499

- (1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
- (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-20_TEQ_SJ1086717.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River - 7 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.37 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-20
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_332A S: 5

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			65.7	3.56	0.0001	6.57e-03	6.57e-03	6.57e-03
3,4,4',5-TeCB	81		U		3.99	0.0003	0.00e+00	5.99e-04	1.20e-03
2,3,3',4,4'-PeCB	105			1580	2.48	0.00003	4.74e-02	4.74e-02	4.74e-02
2,3,4,4',5-PeCB	114			80.6	2.52	0.00003	2.42e-03	2.42e-03	2.42e-03
2,3',4,4',5-PeCB	118			4730	2.06	0.00003	1.42e-01	1.42e-01	1.42e-01
2',3,4,4',5-PeCB	123			68.3	2.67	0.00003	2.05e-03	2.05e-03	2.05e-03
3,3',4,4',5-PeCB	126			17.1	3.25	0.1	1.71e+00	1.71e+00	1.71e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	618	4.04	0.00003	1.85e-02	1.85e-02	1.85e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			316	2.81	0.00003	9.48e-03	9.48e-03	9.48e-03
3,3',4,4',5,5'-HxCB	169		U		8.10	0.03	0.00e+00	1.22e-01	2.43e-01
2,3,3',4,4',5,5'-HpCB	189			36.7	0.845	0.00003	1.10e-03	1.10e-03	1.10e-03
TOTAL TEQ							1.94	2.06	2.18

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-20_TEQ_SJ1086717_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River - 7 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-20

Sample Size: 0.212 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_332A S: 5

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			734	39.8	0.0001	7.34e-02	7.34e-02	7.34e-02	
3,4,4',5-TeCB	81		U		44.6	0.0003	0.00e+00	6.69e-03	1.34e-02	
2,3,3',4,4'-PeCB	105			17700	27.7	0.00003	5.31e-01	5.31e-01	5.31e-01	
2,3,4,4',5-PeCB	114			901	28.2	0.00003	2.70e-02	2.70e-02	2.70e-02	
2,3',4,4',5-PeCB	118			52900	23.0	0.00003	1.59e+00	1.59e+00	1.59e+00	
2',3,4,4',5-PeCB	123			764	29.8	0.00003	2.29e-02	2.29e-02	2.29e-02	
3,3',4,4',5-PeCB	126			191	36.3	0.1	1.91e+01	1.91e+01	1.91e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	6910	45.2	0.00003	2.07e-01	2.07e-01	2.07e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			3530	31.4	0.00003	1.06e-01	1.06e-01	1.06e-01	
3,3',4,4',5,5'-HxCB	169		U		90.6	0.03	0.00e+00	1.36e+00	2.72e+00	
2,3,3',4,4',5,5'-HpCB	189			410	9.45	0.00003	1.23e-02	1.23e-02	1.23e-02	
TOTAL TEQ								21.7	23.0	24.4

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-20_TEQ_SJ1086717_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
 Deer Meadow Bk- 20 Females
Sample Collection:
 N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 31-Oct-2009 **Time:** 02:52:55

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-21

Sample Size: 10.6 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_332A S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_332A S: 1

% Moisture: 80.2
% Lipid: 1.22

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.705
Total Dichloro Biphenyls		8.22
Total Trichloro Biphenyls		118
Total Tetrachloro Biphenyls		795
Total Pentachloro Biphenyls		3020
Total Hexachloro Biphenyls		8840
Total Heptachloro Biphenyls		5030
Total Octachloro Biphenyls		1310
Total Nonachloro Biphenyls		419
Decachloro Biphenyl		282
TOTAL PCBs		19800

(1) Where applicable, custom lab flags have been used on this report.
 (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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-21_Form1AHT_SJ1086719.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 31-Oct-2009 Time: 02:52:55

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

% Moisture:
% Lipid:

SOC RBS SPRING FYKE NET 2009

L13452-21

2.09 g (dry)

01-Sep-2009

HR GC/MS

SPB OCTYL

PB9C_332A S: 6

PB9C_331 S: 4

PB9C_332A S: 1

80.2
1.22

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		3.57
Total Dichloro Biphenyls		41.6
Total Trichloro Biphenyls		597
Total Tetrachloro Biphenyls		4020
Total Pentachloro Biphenyls		15300
Total Hexachloro Biphenyls		44700
Total Heptachloro Biphenyls		25400
Total Octachloro Biphenyls		6590
Total Nonachloro Biphenyls		2120
Decachloro Biphenyl		1420
TOTAL PCBs		100000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-21

Matrix: TISSUE

Sample Size: 0.128 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 31-Oct-2009 Time: 02:52:55

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_332A S: 6

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_332A S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 80.2
% Lipid: 1.22

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		58.3
Total Dichloro Biphenyls		679
Total Trichloro Biphenyls		9750
Total Tetrachloro Biphenyls		65700
Total Pentachloro Biphenyls		249000
Total Hexachloro Biphenyls		730000
Total Heptachloro Biphenyls		415000
Total Octachloro Biphenyls		108000
Total Nonachloro Biphenyls		34700
Decachloro Biphenyl		23200
TOTAL PCBs		1640000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-21_Form1AHT_SJ1086719_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.6 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-21
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_332A S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			12.1	0.246	0.0001	1.21e-03	1.21e-03	1.21e-03
3,4,4',5-TeCB	81		U		0.301	0.0003	0.00e+00	4.52e-05	9.03e-05
2,3,3',4,4'-PeCB	105			201	1.07	0.00003	6.03e-03	6.03e-03	6.03e-03
2,3,4,4',5-PeCB	114			9.83	1.26	0.00003	2.95e-04	2.95e-04	2.95e-04
2,3',4,4',5-PeCB	118			556	1.04	0.00003	1.67e-02	1.67e-02	1.67e-02
2',3,4,4',5-PeCB	123			9.28	1.25	0.00003	2.78e-04	2.78e-04	2.78e-04
3,3',4,4',5-PeCB	126			3.13	1.49	0.1	3.13e-01	3.13e-01	3.13e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	118	3.01	0.00003	3.54e-03	3.54e-03	3.54e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			70.0	1.87	0.00003	2.10e-03	2.10e-03	2.10e-03
3,3',4,4',5,5'-HxCB	169		U		2.90	0.03	0.00e+00	4.35e-02	8.70e-02
2,3,3',4,4',5,5'-HpCB	189			14.5	0.369	0.00003	4.35e-04	4.35e-04	4.35e-04
TOTAL TEQ							0.344	0.387	0.431

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-21_TEQ_SJ1086719.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-21

Sample Size: 2.09 g (dry)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (dry weight basis)

Sample Data Filename(s): PB9C_332A S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			61.1	1.24	0.0001	6.11e-03	6.11e-03	6.11e-03
3,4,4',5-TeCB	81		U		1.52	0.0003	0.00e+00	2.28e-04	4.56e-04
2,3,3',4,4'-PeCB	105			1020	5.41	0.00003	3.06e-02	3.06e-02	3.06e-02
2,3,4,4',5-PeCB	114			49.7	6.37	0.00003	1.49e-03	1.49e-03	1.49e-03
2,3',4,4',5-PeCB	118			2810	5.25	0.00003	8.43e-02	8.43e-02	8.43e-02
2',3,4,4',5-PeCB	123			46.9	6.32	0.00003	1.41e-03	1.41e-03	1.41e-03
3,3',4,4',5-PeCB	126			15.8	7.53	0.1	1.58e+00	1.58e+00	1.58e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	596	15.2	0.00003	1.79e-02	1.79e-02	1.79e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			354	9.45	0.00003	1.06e-02	1.06e-02	1.06e-02
3,3',4,4',5,5'-HxCB	169		U		14.7	0.03	0.00e+00	2.21e-01	4.41e-01
2,3,3',4,4',5,5'-HpCB	189			73.3	1.86	0.00003	2.20e-03	2.20e-03	2.20e-03
TOTAL TEQ							1.73	1.96	2.18

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-21_TEQ_SJ1086719_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-21

Sample Size: 0.128 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_332A S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			998	20.2	0.0001	9.98e-02	9.98e-02	9.98e-02	
3,4,4',5-TeCB	81		U		24.8	0.0003	0.00e+00	3.72e-03	7.44e-03	
2,3,3',4,4'-PeCB	105			16700	88.3	0.00003	5.01e-01	5.01e-01	5.01e-01	
2,3,4,4',5-PeCB	114			812	104	0.00003	2.44e-02	2.44e-02	2.44e-02	
2,3',4,4',5-PeCB	118			45900	85.7	0.00003	1.38e+00	1.38e+00	1.38e+00	
2',3,4,4',5-PeCB	123			766	103	0.00003	2.30e-02	2.30e-02	2.30e-02	
3,3',4,4',5-PeCB	126			258	123	0.1	2.58e+01	2.58e+01	2.58e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	9730	248	0.00003	2.92e-01	2.92e-01	2.92e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			5780	154	0.00003	1.73e-01	1.73e-01	1.73e-01	
3,3',4,4',5,5'-HxCB	169		U		240	0.03	0.00e+00	3.60e+00	7.20e+00	
2,3,3',4,4',5,5'-HpCB	189			1200	30.4	0.00003	3.60e-02	3.60e-02	3.60e-02	
TOTAL TEQ								28.3	31.9	35.5

- (1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
 (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-21_TEQ_SJ1086719_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek- 7 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-22

Matrix: TISSUE

Sample Size:

10.5 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 31-Oct-2009 **Time:** 03:57:19

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename:

PB9C_332A S: 7

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_332A S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture:
% Lipid:

77.7
 1.53

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.928
Total Dichloro Biphenyls		30.2
Total Trichloro Biphenyls		326
Total Tetrachloro Biphenyls		2480
Total Pentachloro Biphenyls		10400
Total Hexachloro Biphenyls		19700
Total Heptachloro Biphenyls		7320
Total Octachloro Biphenyls		1850
Total Nonachloro Biphenyls		459
Decachloro Biphenyl		141
TOTAL PCBs		42700

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek- 7 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 31-Oct-2009 Time: 03:57:19

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-22
Sample Size: 2.35 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_332A S: 7
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_332A S: 1
% Moisture: 77.7
% Lipid: 1.53

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		4.15
Total Dichloro Biphenyls		135
Total Trichloro Biphenyls		1460
Total Tetrachloro Biphenyls		11100
Total Pentachloro Biphenyls		46300
Total Hexachloro Biphenyls		88200
Total Heptachloro Biphenyls		32700
Total Octachloro Biphenyls		8260
Total Nonachloro Biphenyls		2050
Decachloro Biphenyl		630
TOTAL PCBs		191000

(1) Where applicable, custom lab flags have been used on this report.
(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek- 7 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No.

SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.:

L13452-22

Matrix: TISSUE

Sample Size:

0.161 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date:

01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID:

HR GC/MS

Analysis Date: 31-Oct-2009 **Time:** 03:57:19

GC Column ID:

SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename:

PB9C_332A S: 7

Injection Volume (uL): 1.0

Blank Data Filename:

PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename:

PB9C_332A S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture:

77.7

% Lipid:

1.53

PCB HOMOLOGUE GROUP

**LAB
 FLAG ¹**

**CONC.
 FOUND**

Total Monochloro Biphenyls

60.6

Total Dichloro Biphenyls

1980

Total Trichloro Biphenyls

21300

Total Tetrachloro Biphenyls

162000

Total Pentachloro Biphenyls

676000

Total Hexachloro Biphenyls

1290000

Total Heptachloro Biphenyls

477000

Total Octachloro Biphenyls

121000

Total Nonachloro Biphenyls

29900

Decachloro Biphenyl

9200

TOTAL PCBs

2790000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: Form1668HTIL.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
 Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-22_Form1AHT_SJ1086721_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek- 7 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.5 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-22
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_332A S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			29.0	0.382	0.0001	2.90e-03	2.90e-03	2.90e-03
3,4,4',5-TeCB	81		U		0.475	0.0003	0.00e+00	7.13e-05	1.43e-04
2,3,3',4,4'-PeCB	105			684	1.95	0.00003	2.05e-02	2.05e-02	2.05e-02
2,3,4,4',5-PeCB	114			34.0	2.33	0.00003	1.02e-03	1.02e-03	1.02e-03
2,3',4,4',5-PeCB	118			1840	1.92	0.00003	5.52e-02	5.52e-02	5.52e-02
2',3,4,4',5-PeCB	123			24.6	2.46	0.00003	7.38e-04	7.38e-04	7.38e-04
3,3',4,4',5-PeCB	126			5.42	2.97	0.1	5.42e-01	5.42e-01	5.42e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	378	2.22	0.00003	1.13e-02	1.13e-02	1.13e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			181	1.54	0.00003	5.43e-03	5.43e-03	5.43e-03
3,3',4,4',5,5'-HxCB	169		U		3.61	0.03	0.00e+00	5.42e-02	1.08e-01
2,3,3',4,4',5,5'-HpCB	189			23.7	0.675	0.00003	7.11e-04	7.11e-04	7.11e-04
TOTAL TEQ							0.640	0.694	0.748

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-22_TEQ_SJ1086721.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek- 7 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.35 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-22
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_332A S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			130	1.71	0.0001	1.30e-02	1.30e-02	1.30e-02
3,4,4',5-TeCB	81		U		2.12	0.0003	0.00e+00	3.18e-04	6.36e-04
2,3,3',4,4'-PeCB	105			3060	8.71	0.00003	9.18e-02	9.18e-02	9.18e-02
2,3,4,4',5-PeCB	114			152	10.4	0.00003	4.56e-03	4.56e-03	4.56e-03
2,3',4,4',5-PeCB	118			8220	8.58	0.00003	2.47e-01	2.47e-01	2.47e-01
2',3,4,4',5-PeCB	123			110	11.0	0.00003	3.30e-03	3.30e-03	3.30e-03
3,3',4,4',5-PeCB	126			24.2	13.3	0.1	2.42e+00	2.42e+00	2.42e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	1690	9.92	0.00003	5.07e-02	5.07e-02	5.07e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			809	6.88	0.00003	2.43e-02	2.43e-02	2.43e-02
3,3',4,4',5,5'-HxCB	169		U		16.1	0.03	0.00e+00	2.42e-01	4.83e-01
2,3,3',4,4',5,5'-HpCB	189			106	3.02	0.00003	3.18e-03	3.18e-03	3.18e-03
TOTAL TEQ							2.86	3.10	3.34

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-22_TEQ_SJ1086721_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek- 7 Females

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-22
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_332A S: 7

Matrix: TISSUE
Sample Size: 0.161 g (lipid)
Concentration Units: pg/g (lipid weight basis)

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			1900	25.0	0.0001	1.90e-01	1.90e-01	1.90e-01	
3,4,4',5-TeCB	81		U		30.9	0.0003	0.00e+00	4.64e-03	9.27e-03	
2,3,3',4,4'-PeCB	105			44700	127	0.00003	1.34e+00	1.34e+00	1.34e+00	
2,3,4,4',5-PeCB	114			2220	152	0.00003	6.66e-02	6.66e-02	6.66e-02	
2,3',4,4',5-PeCB	118			120000	125	0.00003	3.60e+00	3.60e+00	3.60e+00	
2',3,4,4',5-PeCB	123			1610	161	0.00003	4.83e-02	4.83e-02	4.83e-02	
3,3',4,4',5-PeCB	126			353	194	0.1	3.53e+01	3.53e+01	3.53e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	24700	145	0.00003	7.41e-01	7.41e-01	7.41e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			11800	100	0.00003	3.54e-01	3.54e-01	3.54e-01	
3,3',4,4',5,5'-HxCB	169		U		235	0.03	0.00e+00	3.53e+00	7.05e+00	
2,3,3',4,4',5,5'-HpCB	189			1550	44.1	0.00003	4.65e-02	4.65e-02	4.65e-02	
TOTAL TEQ								41.7	45.2	48.7

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-22_TEQ_SJ1086721_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-23 L

Matrix: TISSUE

Sample Size: 10.3 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009 Time: 14:49:16

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s): PB9C_358 S: 7, PB9C_376 S: 6

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_358 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 78.2
% Lipid: 1.73

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		39.1
Total Dichloro Biphenyls		398
Total Trichloro Biphenyls		2600
Total Tetrachloro Biphenyls		25700
Total Pentachloro Biphenyls		91500
Total Hexachloro Biphenyls		127000
Total Heptachloro Biphenyls		37200
Total Octachloro Biphenyls		9390
Total Nonachloro Biphenyls		1100
Decachloro Biphenyl		267
TOTAL PCBs		295000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 L
Sample Size: 2.25 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 7, PB9C_376 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.2
% Lipid: 1.73

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 14:49:16
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (dry weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		179
Total Dichloro Biphenyls		1820
Total Trichloro Biphenyls		11900
Total Tetrachloro Biphenyls		118000
Total Pentachloro Biphenyls		419000
Total Hexachloro Biphenyls		581000
Total Heptachloro Biphenyls		170000
Total Octachloro Biphenyls		43000
Total Nonachloro Biphenyls		5050
Decachloro Biphenyl		1220
TOTAL PCBs		1350000

(1) Where applicable, custom lab flags have been used on this report.
(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-23_Form1AHT_SJ1087738_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 L
Sample Size: 0.179 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 7, PB9C_376 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.2
% Lipid: 1.73

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 14:49:16
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		2250
Total Dichloro Biphenyls		22900
Total Trichloro Biphenyls		150000
Total Tetrachloro Biphenyls		1480000
Total Pentachloro Biphenyls		5270000
Total Hexachloro Biphenyls		7300000
Total Heptachloro Biphenyls		2140000
Total Octachloro Biphenyls		541000
Total Nonachloro Biphenyls		63500
Decachloro Biphenyl		15300
TOTAL PCBs		1.70E+07

(1) Where applicable, custom lab flags have been used on this report.
(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.3 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 7
PB9C_376 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			243	2.47	0.0001	2.43e-02	2.43e-02	2.43e-02
3,4,4',5-TeCB	81		U		2.51	0.0003	0.00e+00	3.77e-04	7.53e-04
2,3,3',4,4'-PeCB	105			6710	24.7	0.00003	2.01e-01	2.01e-01	2.01e-01
2,3,4,4',5-PeCB	114			348	25.5	0.00003	1.04e-02	1.04e-02	1.04e-02
2,3',4,4',5-PeCB	118			18900	22.2	0.00003	5.67e-01	5.67e-01	5.67e-01
2',3,4,4',5-PeCB	123			310	25.9	0.00003	9.30e-03	9.30e-03	9.30e-03
3,3',4,4',5-PeCB	126			52.1	31.5	0.1	5.21e+00	5.21e+00	5.21e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	2780	7.49	0.00003	8.34e-02	8.34e-02	8.34e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1280	4.69	0.00003	3.84e-02	3.84e-02	3.84e-02
3,3',4,4',5,5'-HxCB	169		U		11.9	0.03	0.00e+00	1.79e-01	3.57e-01
2,3,3',4,4',5,5'-HpCB	189			174	0.838	0.00003	5.22e-03	5.22e-03	5.22e-03
TOTAL TEQ							6.15	6.33	6.51

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-23_TEQ_SJ1087738.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Size: 2.25 g (dry)

Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 7
PB9C_376 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			1110	11.3	0.0001	1.11e-01	1.11e-01	1.11e-01	
3,4,4',5-TeCB	81		U		11.5	0.0003	0.00e+00	1.73e-03	3.45e-03	
2,3,3',4,4'-PeCB	105			30700	113	0.00003	9.21e-01	9.21e-01	9.21e-01	
2,3,4,4',5-PeCB	114			1590	117	0.00003	4.77e-02	4.77e-02	4.77e-02	
2,3',4,4',5-PeCB	118			86600	102	0.00003	2.60e+00	2.60e+00	2.60e+00	
2',3,4,4',5-PeCB	123			1420	119	0.00003	4.26e-02	4.26e-02	4.26e-02	
3,3',4,4',5-PeCB	126			239	144	0.1	2.39e+01	2.39e+01	2.39e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	12700	34.3	0.00003	3.81e-01	3.81e-01	3.81e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			5870	21.5	0.00003	1.76e-01	1.76e-01	1.76e-01	
3,3',4,4',5,5'-HxCB	169		U		54.5	0.03	0.00e+00	8.18e-01	1.64e+00	
2,3,3',4,4',5,5'-HpCB	189			797	3.84	0.00003	2.39e-02	2.39e-02	2.39e-02	
TOTAL TEQ								28.2	29.0	29.8

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-23_TEQ_SJ1087738_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-23 L

Sample Size: 0.179 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_358 S: 7
PB9C_376 S: 6

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			14000	142	0.0001	1.40e+00	1.40e+00	1.40e+00
3,4,4',5-TeCB	81		U		145	0.0003	0.00e+00	2.18e-02	4.35e-02
2,3,3',4,4'-PeCB	105			386000	1420	0.00003	1.16e+01	1.16e+01	1.16e+01
2,3,4,4',5-PeCB	114			20000	1470	0.00003	6.00e-01	6.00e-01	6.00e-01
2,3',4,4',5-PeCB	118			1090000	1280	0.00003	3.27e+01	3.27e+01	3.27e+01
2',3,4,4',5-PeCB	123			17800	1500	0.00003	5.34e-01	5.34e-01	5.34e-01
3,3',4,4',5-PeCB	126			3000	1810	0.1	3.00e+02	3.00e+02	3.00e+02
2,3,3',4,4',5-HxCB	156	156 + 157	C	160000	431	0.00003	4.80e+00	4.80e+00	4.80e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			73800	270	0.00003	2.21e+00	2.21e+00	2.21e+00
3,3',4,4',5,5'-HxCB	169		U		685	0.03	0.00e+00	1.03e+01	2.06e+01
2,3,3',4,4',5,5'-HpCB	189			10000	48.3	0.00003	3.00e-01	3.00e-01	3.00e-01
TOTAL TEQ							354	364	375

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-23_TEQ_SJ1087738_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-24 L

Matrix: TISSUE

Sample Size: 10.5 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009 Time: 15:53:40

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_358 S: 8

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_358 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 77.1
% Lipid: 2.26

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		1.54
Total Dichloro Biphenyls		61.3
Total Trichloro Biphenyls		1650
Total Tetrachloro Biphenyls		11200
Total Pentachloro Biphenyls		27700
Total Hexachloro Biphenyls		30100
Total Heptachloro Biphenyls		10800
Total Octachloro Biphenyls		2200
Total Nonachloro Biphenyls		467
Decachloro Biphenyl		172
TOTAL PCBs		84400

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-24 L
Sample Size: 2.42 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 8
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 77.1
% Lipid: 2.26

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 **Time:** 15:53:40
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (dry weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		6.72
Total Dichloro Biphenyls		267
Total Trichloro Biphenyls		7210
Total Tetrachloro Biphenyls		48800
Total Pentachloro Biphenyls		120000
Total Hexachloro Biphenyls		131000
Total Heptachloro Biphenyls		46900
Total Octachloro Biphenyls		9570
Total Nonachloro Biphenyls		2030
Decachloro Biphenyl		749
TOTAL PCBs		367000

(1) Where applicable, custom lab flags have been used on this report.
 (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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-24 L

Matrix: TISSUE

Sample Size: 0.240 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009 Time: 15:53:40

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_358 S: 8

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_358 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 77.1
% Lipid: 2.26

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		67.7
Total Dichloro Biphenyls		2700
Total Trichloro Biphenyls		72700
Total Tetrachloro Biphenyls		492000
Total Pentachloro Biphenyls		1210000
Total Hexachloro Biphenyls		1320000
Total Heptachloro Biphenyls		473000
Total Octachloro Biphenyls		96400
Total Nonachloro Biphenyls		20500
Decachloro Biphenyl		7550
TOTAL PCBs		3700000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.5 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-24 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			130	2.57	0.0001	1.30e-02	1.30e-02	1.30e-02
3,4,4',5-TeCB	81		U		2.81	0.0003	0.00e+00	4.22e-04	8.43e-04
2,3,3',4,4'-PeCB	105			1930	1.81	0.00003	5.79e-02	5.79e-02	5.79e-02
2,3,4,4',5-PeCB	114			108	1.95	0.00003	3.24e-03	3.24e-03	3.24e-03
2,3',4,4',5-PeCB	118			5880	1.72	0.00003	1.76e-01	1.76e-01	1.76e-01
2',3,4,4',5-PeCB	123			75.1	1.96	0.00003	2.25e-03	2.25e-03	2.25e-03
3,3',4,4',5-PeCB	126			14.2	2.38	0.1	1.42e+00	1.42e+00	1.42e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	684	1.43	0.00003	2.05e-02	2.05e-02	2.05e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			308	1.01	0.00003	9.24e-03	9.24e-03	9.24e-03
3,3',4,4',5,5'-HxCB	169		U		5.66	0.03	0.00e+00	8.49e-02	1.70e-01
2,3,3',4,4',5,5'-HpCB	189			34.1	0.537	0.00003	1.02e-03	1.02e-03	1.02e-03
TOTAL TEQ							1.70	1.79	1.87

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-24_TEQ_SJ1087740.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.42 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-24 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			566	11.2	0.0001	5.66e-02	5.66e-02	5.66e-02
3,4,4',5-TeCB	81		U		12.2	0.0003	0.00e+00	1.83e-03	3.66e-03
2,3,3',4,4'-PeCB	105			8410	7.88	0.00003	2.52e-01	2.52e-01	2.52e-01
2,3,4,4',5-PeCB	114			470	8.49	0.00003	1.41e-02	1.41e-02	1.41e-02
2,3',4,4',5-PeCB	118			25600	7.49	0.00003	7.68e-01	7.68e-01	7.68e-01
2',3,4,4',5-PeCB	123			327	8.54	0.00003	9.81e-03	9.81e-03	9.81e-03
3,3',4,4',5-PeCB	126			61.8	10.4	0.1	6.18e+00	6.18e+00	6.18e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	2980	6.23	0.00003	8.94e-02	8.94e-02	8.94e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			1340	4.40	0.00003	4.02e-02	4.02e-02	4.02e-02
3,3',4,4',5,5'-HxCB	169		U		24.7	0.03	0.00e+00	3.71e-01	7.41e-01
2,3,3',4,4',5,5'-HpCB	189			149	2.34	0.00003	4.47e-03	4.47e-03	4.47e-03
TOTAL TEQ							7.41	7.79	8.16

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-24_TEQ_SJ1087740_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-24 L

Sample Size: 0.240 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_358 S: 8

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			5710	113	0.0001	5.71e-01	5.71e-01	5.71e-01
3,4,4',5-TeCB	81		U		123	0.0003	0.00e+00	1.85e-02	3.69e-02
2,3,3',4,4'-PeCB	105			84800	79.5	0.00003	2.54e+00	2.54e+00	2.54e+00
2,3,4,4',5-PeCB	114			4740	85.6	0.00003	1.42e-01	1.42e-01	1.42e-01
2,3',4,4',5-PeCB	118			258000	75.5	0.00003	7.74e+00	7.74e+00	7.74e+00
2',3,4,4',5-PeCB	123			3300	86.1	0.00003	9.90e-02	9.90e-02	9.90e-02
3,3',4,4',5-PeCB	126			623	105	0.1	6.23e+01	6.23e+01	6.23e+01
2,3,3',4,4',5-HxCB	156	156 + 157	C	30000	62.8	0.00003	9.00e-01	9.00e-01	9.00e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			13500	44.4	0.00003	4.05e-01	4.05e-01	4.05e-01
3,3',4,4',5,5'-HxCB	169		U		249	0.03	0.00e+00	3.74e+00	7.47e+00
2,3,3',4,4',5,5'-HpCB	189			1500	23.6	0.00003	4.50e-02	4.50e-02	4.50e-02
TOTAL TEQ							74.7	78.5	82.3

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-24_TEQ_SJ1087740_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 L
Sample Size: 10.4 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 9, PB9C_376 S: 7
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 77.1
% Lipid: 2.40

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 16:57:59
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (wet weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		4.43
Total Dichloro Biphenyls		118
Total Trichloro Biphenyls		3270
Total Tetrachloro Biphenyls		39600
Total Pentachloro Biphenyls		129000
Total Hexachloro Biphenyls		175000
Total Heptachloro Biphenyls		57900
Total Octachloro Biphenyls		11100
Total Nonachloro Biphenyls		1700
Decachloro Biphenyl		461
TOTAL PCBs		418000

(1) Where applicable, custom lab flags have been used on this report.
(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-25 L

Matrix: TISSUE

Sample Size: 2.38 g (dry)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009 Time: 16:57:59

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename(s): PB9C_358 S: 9, PB9C_376 S: 7

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_358 S: 1

Concentration Units: pg/g (dry weight basis)

% Moisture: 77.1
% Lipid: 2.40

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		19.3
Total Dichloro Biphenyls		517
Total Trichloro Biphenyls		14300
Total Tetrachloro Biphenyls		173000
Total Pentachloro Biphenyls		563000
Total Hexachloro Biphenyls		764000
Total Heptachloro Biphenyls		253000
Total Octachloro Biphenyls		48500
Total Nonachloro Biphenyls		7440
Decachloro Biphenyl		2010
TOTAL PCBs		1830000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 16:57:59

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 L
Sample Size: 0.253 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 9, PB9C_376 S: 7
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 77.1
% Lipid: 2.40

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		181
Total Dichloro Biphenyls		4860
Total Trichloro Biphenyls		134000
Total Tetrachloro Biphenyls		1620000
Total Pentachloro Biphenyls		5290000
Total Hexachloro Biphenyls		7190000
Total Heptachloro Biphenyls		2380000
Total Octachloro Biphenyls		456000
Total Nonachloro Biphenyls		70000
Decachloro Biphenyl		18900
TOTAL PCBs		1.72E+07

(1) Where applicable, custom lab flags have been used on this report.
(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 10.4 g (wet)
Concentration Units: pg/g (wet weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 9
PB9C_376 S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			372	10.3	0.0001	3.72e-02	3.72e-02	3.72e-02
3,4,4',5-TeCB	81		U		11.0	0.0003	0.00e+00	1.65e-03	3.30e-03
2,3,3',4,4'-PeCB	105			9200	80.8	0.00003	2.76e-01	2.76e-01	2.76e-01
2,3,4,4',5-PeCB	114			476	36.7	0.00003	1.43e-02	1.43e-02	1.43e-02
2,3',4,4',5-PeCB	118			29300	76.4	0.00003	8.79e-01	8.79e-01	8.79e-01
2',3,4,4',5-PeCB	123			398	36.5	0.00003	1.19e-02	1.19e-02	1.19e-02
3,3',4,4',5-PeCB	126			87.1	42.0	0.1	8.71e+00	8.71e+00	8.71e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	4220	16.8	0.00003	1.27e-01	1.27e-01	1.27e-01
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			2020	12.1	0.00003	6.06e-02	6.06e-02	6.06e-02
3,3',4,4',5,5'-HxCB	169		U		26.0	0.03	0.00e+00	3.90e-01	7.80e-01
2,3,3',4,4',5,5'-HpCB	189			233	0.916	0.00003	6.99e-03	6.99e-03	6.99e-03
TOTAL TEQ							10.1	10.5	10.9

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-25_TEQ_SJ1087742.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Size: 2.38 g (dry)
Concentration Units: pg/g (dry weight basis)

Sample Collection: N/A
Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 L
GC Column ID(s): SPB OCTYL
Sample Data Filename(s): PB9C_358 S: 9
PB9C_376 S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			1620	45.0	0.0001	1.62e-01	1.62e-01	1.62e-01	
3,4,4',5-TeCB	81		U		48.0	0.0003	0.00e+00	7.20e-03	1.44e-02	
2,3,3',4,4'-PeCB	105			40200	353	0.00003	1.21e+00	1.21e+00	1.21e+00	
2,3,4,4',5-PeCB	114			2080	160	0.00003	6.24e-02	6.24e-02	6.24e-02	
2,3',4,4',5-PeCB	118			128000	334	0.00003	3.84e+00	3.84e+00	3.84e+00	
2',3,4,4',5-PeCB	123			1740	159	0.00003	5.22e-02	5.22e-02	5.22e-02	
3,3',4,4',5-PeCB	126			380	183	0.1	3.80e+01	3.80e+01	3.80e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	18400	73.3	0.00003	5.52e-01	5.52e-01	5.52e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			8820	52.8	0.00003	2.65e-01	2.65e-01	2.65e-01	
3,3',4,4',5,5'-HxCB	169		U		114	0.03	0.00e+00	1.71e+00	3.42e+00	
2,3,3',4,4',5,5'-HpCB	189			1020	4.00	0.00003	3.06e-02	3.06e-02	3.06e-02	
TOTAL TEQ								44.2	45.9	47.6

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-25_TEQ_SJ1087742_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: L13452-25 L

Sample Size: 0.253 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_358 S: 9
PB9C_376 S: 7

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			15200	423	0.0001	1.52e+00	1.52e+00	1.52e+00
3,4,4',5-TeCB	81		U		452	0.0003	0.00e+00	6.78e-02	1.36e-01
2,3,3',4,4'-PeCB	105			378000	3320	0.00003	1.13e+01	1.13e+01	1.13e+01
2,3,4,4',5-PeCB	114			19600	1510	0.00003	5.88e-01	5.88e-01	5.88e-01
2,3',4,4',5-PeCB	118			1200000	3140	0.00003	3.60e+01	3.60e+01	3.60e+01
2',3,4,4',5-PeCB	123			16400	1500	0.00003	4.92e-01	4.92e-01	4.92e-01
3,3',4,4',5-PeCB	126			3570	1720	0.1	3.57e+02	3.57e+02	3.57e+02
2,3,3',4,4',5-HxCB	156	156 + 157	C	173000	690	0.00003	5.19e+00	5.19e+00	5.19e+00
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			83000	497	0.00003	2.49e+00	2.49e+00	2.49e+00
3,3',4,4',5,5'-HxCB	169		U		1070	0.03	0.00e+00	1.61e+01	3.21e+01
2,3,3',4,4',5,5'-HpCB	189			9600	37.6	0.00003	2.88e-01	2.88e-01	2.88e-01
TOTAL TEQ							415	431	447

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener; D = dilution data.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_HomTotals-TEQs_L13452-25_TEQ_SJ1087742_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. N/A

Lab Sample I.D.: WG30100-101

Matrix: CANOLA OIL

Sample Size: 10.0 g

Sample Receipt Date: N/A

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 **Time:** 11:23:44

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: **PB9C_331 S: 4**

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.146
Total Dichloro Biphenyls		0.837
Total Trichloro Biphenyls		2.07
Total Tetrachloro Biphenyls		3.51
Total Pentachloro Biphenyls		2.01
Total Hexachloro Biphenyls		3.10
Total Heptachloro Biphenyls		0.493
Total Octachloro Biphenyls	U	
Total Nonachloro Biphenyls	U	
Decachloro Biphenyl	U	
TOTAL PCBs		12.2

(1) Where applicable, custom lab flags have been used on this report; 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.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. N/A

Lab Sample I.D.: WG30100-101

Matrix: CANOLA OIL

Sample Size: 2.00 g (dry)

Sample Receipt Date: N/A

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 11:23:44

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_331 S: 4

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g (dry weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.730
Total Dichloro Biphenyls		4.19
Total Trichloro Biphenyls		10.4
Total Tetrachloro Biphenyls		17.6
Total Pentachloro Biphenyls		10.1
Total Hexachloro Biphenyls		15.5
Total Heptachloro Biphenyls		2.47
Total Octachloro Biphenyls	U	
Total Nonachloro Biphenyls	U	
Decachloro Biphenyl	U	
TOTAL PCBs		60.9

(1) Where applicable, custom lab flags have been used on this report; 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.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1A
HOMOLOGUE TOTAL PCB ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. N/A

Lab Sample I.D.: WG30100-101

Matrix: CANOLA OIL

Sample Size: 0.200 g (lipid)

Sample Receipt Date: N/A

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 11:23:44

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_331 S: 4

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g (lipid weight basis)

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		7.30
Total Dichloro Biphenyls		41.9
Total Trichloro Biphenyls		104
Total Tetrachloro Biphenyls		176
Total Pentachloro Biphenyls		101
Total Hexachloro Biphenyls		155
Total Heptachloro Biphenyls		24.7
Total Octachloro Biphenyls	U	
Total Nonachloro Biphenyls	U	
Decachloro Biphenyl	U	
TOTAL PCBs		609

(1) Where applicable, custom lab flags have been used on this report; 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.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. N/A

Matrix: CANOLA OIL

Lab Sample I.D.: WG30100-101

Sample Size: 10.0 g

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g

Sample Data Filename(s): PB9C_331 S: 4

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77		U		0.0526	0.0001	0.00e+00	2.63e-06	5.26e-06	
3,4,4',5-TeCB	81		U		0.0644	0.0003	0.00e+00	9.66e-06	1.93e-05	
2,3,3',4,4'-PeCB	105		U		0.0718	0.00003	0.00e+00	1.08e-06	2.15e-06	
2,3,4,4',5-PeCB	114		U		0.0760	0.00003	0.00e+00	1.14e-06	2.28e-06	
2,3',4,4',5-PeCB	118		U		0.0768	0.00003	0.00e+00	1.15e-06	2.30e-06	
2',3,4,4',5-PeCB	123		U		0.0791	0.00003	0.00e+00	1.19e-06	2.37e-06	
3,3',4,4',5-PeCB	126		U		0.0965	0.1	0.00e+00	4.83e-03	9.65e-03	
2,3,3',4,4',5-HxCB	156	156 + 157	C U		0.109	0.00003	0.00e+00	1.64e-06	3.27e-06	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167		U		0.0795	0.00003	0.00e+00	1.19e-06	2.39e-06	
3,3',4,4',5,5'-HxCB	169		U		0.0893	0.03	0.00e+00	1.34e-03	2.68e-03	
2,3,3',4,4',5,5'-HpCB	189		U		0.0760	0.00003	0.00e+00	1.14e-06	2.28e-06	
TOTAL TEQ								0	0.00619	0.0124

- (1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
- (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30100-101_TEQ_SJ1078261.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. N/A

Matrix: CANOLA OIL

Lab Sample I.D.: WG30100-101

Sample Size: 2.00 g (dry)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (dry weight basis)

Sample Data Filename(s): PB9C_331 S: 4

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77		U		0.263	0.0001	0.00e+00	1.32e-05	2.63e-05	
3,4,4',5-TeCB	81		U		0.322	0.0003	0.00e+00	4.83e-05	9.66e-05	
2,3,3',4,4'-PeCB	105		U		0.359	0.00003	0.00e+00	5.39e-06	1.08e-05	
2,3,4,4',5-PeCB	114		U		0.380	0.00003	0.00e+00	5.70e-06	1.14e-05	
2,3',4,4',5-PeCB	118		U		0.384	0.00003	0.00e+00	5.76e-06	1.15e-05	
2',3,4,4',5-PeCB	123		U		0.396	0.00003	0.00e+00	5.94e-06	1.19e-05	
3,3',4,4',5-PeCB	126		U		0.483	0.1	0.00e+00	2.42e-02	4.83e-02	
2,3,3',4,4',5-HxCB	156	156 + 157	C U		0.545	0.00003	0.00e+00	8.18e-06	1.64e-05	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167		U		0.398	0.00003	0.00e+00	5.97e-06	1.19e-05	
3,3',4,4',5,5'-HxCB	169		U		0.447	0.03	0.00e+00	6.71e-03	1.34e-02	
2,3,3',4,4',5,5'-HpCB	189		U		0.380	0.00003	0.00e+00	5.70e-06	1.14e-05	
TOTAL TEQ								0	0.0310	0.0619

- (1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
- (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30100-101_TEQ_SJ1078261_Dry.html; Workgroup: WG30100; Design ID: 1193]

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Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. N/A

Matrix: CANOLA OIL

Lab Sample I.D.: WG30100-101

Sample Size: 0.200 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_331 S: 4

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77		U		2.63	0.0001	0.00e+00	1.32e-04	2.63e-04	
3,4,4',5-TeCB	81		U		3.22	0.0003	0.00e+00	4.83e-04	9.66e-04	
2,3,3',4,4'-PeCB	105		U		3.59	0.00003	0.00e+00	5.39e-05	1.08e-04	
2,3,4,4',5-PeCB	114		U		3.80	0.00003	0.00e+00	5.70e-05	1.14e-04	
2,3',4,4',5-PeCB	118		U		3.84	0.00003	0.00e+00	5.76e-05	1.15e-04	
2',3,4,4',5-PeCB	123		U		3.96	0.00003	0.00e+00	5.94e-05	1.19e-04	
3,3',4,4',5-PeCB	126		U		4.83	0.1	0.00e+00	2.42e-01	4.83e-01	
2,3,3',4,4',5-HxCB	156	156 + 157	C U		5.45	0.00003	0.00e+00	8.18e-05	1.64e-04	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167		U		3.98	0.00003	0.00e+00	5.97e-05	1.19e-04	
3,3',4,4',5,5'-HxCB	169		U		4.47	0.03	0.00e+00	6.71e-02	1.34e-01	
2,3,3',4,4',5,5'-HpCB	189		U		3.80	0.00003	0.00e+00	5.70e-05	1.14e-04	
TOTAL TEQ								0	0.310	0.619

- (1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
- (2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30100-101_TEQ_SJ1078261_Lipid.html; Workgroup: WG30100; Design ID: 1193]

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HOMOLOGUE TOTAL PCB ANALYSIS REPORT

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 17:50:21

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: WG30100-103 (DUP L13452-7)

Sample Size: 10.9 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_331 S: 10

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 79.4
% Lipid: 1.61

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		0.727
Total Dichloro Biphenyls		7.58
Total Trichloro Biphenyls		189
Total Tetrachloro Biphenyls		1800
Total Pentachloro Biphenyls		6180
Total Hexachloro Biphenyls		17200
Total Heptachloro Biphenyls		7470
Total Octachloro Biphenyls		1540
Total Nonachloro Biphenyls		488
Decachloro Biphenyl		220
TOTAL PCBs		35100

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



HOMOLOGUE TOTAL PCB ANALYSIS REPORT

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 17:50:21

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: WG30100-103 (DUP L13452-7)
Sample Size: 2.24 g (dry)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 10
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 79.4
% Lipid: 1.61

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		3.53
Total Dichloro Biphenyls		36.9
Total Trichloro Biphenyls		919
Total Tetrachloro Biphenyls		8740
Total Pentachloro Biphenyls		30100
Total Hexachloro Biphenyls		83600
Total Heptachloro Biphenyls		36300
Total Octachloro Biphenyls		7470
Total Nonachloro Biphenyls		2370
Decachloro Biphenyl		1070
TOTAL PCBs		171000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



HOMOLOGUE TOTAL PCB ANALYSIS REPORT

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 17:50:21

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: WG30100-103 (DUP L13452-7)
Sample Size: 0.175 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 10
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 79.4
% Lipid: 1.61

PCB HOMOLOGUE GROUP	LAB FLAG ¹	CONC. FOUND
Total Monochloro Biphenyls		45.2
Total Dichloro Biphenyls		472
Total Trichloro Biphenyls		11800
Total Tetrachloro Biphenyls		112000
Total Pentachloro Biphenyls		385000
Total Hexachloro Biphenyls		1070000
Total Heptachloro Biphenyls		465000
Total Octachloro Biphenyls		95600
Total Nonachloro Biphenyls		30400
Decachloro Biphenyl		13700
TOTAL PCBs		2180000

(1) Where applicable, custom lab flags have been used on this report.

(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.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
(Duplicate)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: WG30100-103 (DUP L13452-7)

Sample Size: 10.9 g (wet)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (wet weight basis)

Sample Data Filename(s): PB9C_331 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			18.8	0.386	0.0001	1.88e-03	1.88e-03	1.88e-03
3,4,4',5-TeCB	81		U		0.438	0.0003	0.00e+00	6.57e-05	1.31e-04
2,3,3',4,4'-PeCB	105			376	2.21	0.00003	1.13e-02	1.13e-02	1.13e-02
2,3,4,4',5-PeCB	114			21.6	2.47	0.00003	6.48e-04	6.48e-04	6.48e-04
2,3',4,4',5-PeCB	118			1220	2.13	0.00003	3.66e-02	3.66e-02	3.66e-02
2',3,4,4',5-PeCB	123			18.0	2.53	0.00003	5.40e-04	5.40e-04	5.40e-04
3,3',4,4',5-PeCB	126			3.81	2.98	0.1	3.81e-01	3.81e-01	3.81e-01
2,3,3',4,4',5-HxCB	156	156 + 157	C	198	3.71	0.00003	5.94e-03	5.94e-03	5.94e-03
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			112	2.67	0.00003	3.36e-03	3.36e-03	3.36e-03
3,3',4,4',5,5'-HxCB	169		U		4.36	0.03	0.00e+00	6.54e-02	1.31e-01
2,3,3',4,4',5,5'-HpCB	189			18.5	0.203	0.00003	5.55e-04	5.55e-04	5.55e-04
TOTAL TEQ							0.442	0.507	0.573

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30100-103_TEQ_SJ1078273.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
(Duplicate)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: WG30100-103 (DUP L13452-7)

Sample Size: 2.24 g (dry)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (dry weight basis)

Sample Data Filename(s): PB9C_331 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ		
							U=0	U=1/2 DL	U=DL
3,3',4,4'-TeCB	77			91.4	1.88	0.0001	9.14e-03	9.14e-03	9.14e-03
3,4,4',5-TeCB	81		U		2.13	0.0003	0.00e+00	3.20e-04	6.39e-04
2,3,3',4,4'-PeCB	105			1830	10.7	0.00003	5.49e-02	5.49e-02	5.49e-02
2,3,4,4',5-PeCB	114			105	12.0	0.00003	3.15e-03	3.15e-03	3.15e-03
2,3',4,4',5-PeCB	118			5930	10.4	0.00003	1.78e-01	1.78e-01	1.78e-01
2',3,4,4',5-PeCB	123			87.5	12.3	0.00003	2.63e-03	2.63e-03	2.63e-03
3,3',4,4',5-PeCB	126			18.5	14.5	0.1	1.85e+00	1.85e+00	1.85e+00
2,3,3',4,4',5-HxCB	156	156 + 157	C	963	18.0	0.00003	2.89e-02	2.89e-02	2.89e-02
2,3,3',4,4',5'-HxCB	157	156 + 157	C156						
2,3',4,4',5,5'-HxCB	167			545	13.0	0.00003	1.64e-02	1.64e-02	1.64e-02
3,3',4,4',5,5'-HxCB	169		U		21.2	0.03	0.00e+00	3.18e-01	6.36e-01
2,3,3',4,4',5,5'-HpCB	189			89.9	0.987	0.00003	2.70e-03	2.70e-03	2.70e-03
TOTAL TEQ							2.15	2.46	2.78

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30100-103_TEQ_SJ1078273_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1C
PCB CONGENER TEQ ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
(Duplicate)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Sample Collection: N/A

Project No. SOC RBS SPRING FYKE NET 2009

Matrix: TISSUE

Lab Sample I.D.: WG30100-103 (DUP L13452-7)

Sample Size: 0.175 g (lipid)

GC Column ID(s): SPB OCTYL

Concentration Units: pg/g (lipid weight basis)

Sample Data Filename(s): PB9C_331 S: 10

COMPOUND	IUPAC NO.	COELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 2005 TEF	TEQ			
							U=0	U=1/2 DL	U=DL	
3,3',4,4'-TeCB	77			1170	24.1	0.0001	1.17e-01	1.17e-01	1.17e-01	
3,4,4',5-TeCB	81		U		27.3	0.0003	0.00e+00	4.10e-03	8.19e-03	
2,3,3',4,4'-PeCB	105			23400	137	0.00003	7.02e-01	7.02e-01	7.02e-01	
2,3,4,4',5-PeCB	114			1340	154	0.00003	4.02e-02	4.02e-02	4.02e-02	
2,3',4,4',5-PeCB	118			75900	133	0.00003	2.28e+00	2.28e+00	2.28e+00	
2',3,4,4',5-PeCB	123			1120	157	0.00003	3.36e-02	3.36e-02	3.36e-02	
3,3',4,4',5-PeCB	126			237	186	0.1	2.37e+01	2.37e+01	2.37e+01	
2,3,3',4,4',5-HxCB	156	156 + 157	C	12300	230	0.00003	3.69e-01	3.69e-01	3.69e-01	
2,3,3',4,4',5'-HxCB	157	156 + 157	C156							
2,3',4,4',5,5'-HxCB	167			6980	166	0.00003	2.09e-01	2.09e-01	2.09e-01	
3,3',4,4',5,5'-HxCB	169		U		271	0.03	0.00e+00	4.07e+00	8.13e+00	
2,3,3',4,4',5,5'-HpCB	189			1150	12.6	0.00003	3.45e-02	3.45e-02	3.45e-02	
TOTAL TEQ								27.5	31.6	35.6

(1) Where applicable, custom lab flags have been used on this report; U = not detected; C = co-eluting congener.
(2) Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axys Internal Use Only [XSL Template: 1668TEQ.xsl; Created: 08-Jan-2010 09:33:36; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_HomTotals-TEQs_WG30100-103_TEQ_SJ1078273_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 4A
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_331 S: 1
Instrument ID: HR GC/MS Analysis Date: 30-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 08:10:01

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
2-MoCB	1			M/M+2	3.07	2.66-3.60	22.9	17.5 - 32.5
4-MoCB	3			M/M+2	3.07	2.66-3.60	25.8	17.5 - 32.5
2,2'-DiCB	4			M/M+2	1.49	1.33-1.79	24.9	17.5 - 32.5
4,4'-DiCB	15			M/M+2	1.51	1.33-1.79	25.9	21.4 - 39.8
2,2',6-TriCB	19			M/M+2	1.06	0.88-1.20	25.8	17.5 - 32.5
3,4,4'-TriCB	37			M/M+2	1.00	0.88-1.20	23.3	17.5 - 32.5
2,2',6,6'-TeCB	54			M/M+2	0.80	0.65-0.89	52.2	35.0 - 65.0
3,3',4,4'-TeCB	77			M/M+2	0.77	0.65-0.89	46.9	35.0 - 65.0
3,4,4',5-TeCB	81			M/M+2	0.77	0.65-0.89	52.2	35.0 - 65.0
2,2',4,6,6'-PeCB	104			M+2/M+4	1.58	1.32-1.78	50.7	35.0 - 65.0
2,3,3',4,4'-PeCB	105			M+2/M+4	1.49	1.32-1.78	50.3	35.0 - 65.0
2,3,4,4',5-PeCB	114			M+2/M+4	1.54	1.32-1.78	50.9	35.0 - 65.0
2,3',4,4',5-PeCB	118			M+2/M+4	1.52	1.32-1.78	49.4	35.0 - 65.0
2',3,4,4',5-PeCB	123			M+2/M+4	1.53	1.32-1.78	53.4	35.0 - 65.0
3,3',4,4',5-PeCB	126			M+2/M+4	1.55	1.32-1.78	52.8	39.0 - 72.4
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.25	1.05-1.43	52.4	35.0 - 65.0
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.25	1.05-1.43	104	70.0 - 130
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.26	1.05-1.43	56.3	35.0 - 65.0
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.31	1.05-1.43	56.5	35.0 - 65.0
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	1.05	0.89-1.21	50.2	35.0 - 65.0
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	0.97	0.89-1.21	45.0	35.0 - 65.0
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.90	0.76-1.02	80.4	58.9 - 110
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.89	0.76-1.02	74.1	52.5 - 97.5
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.78	0.65-0.89	71.6	52.5 - 97.5
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.79	0.65-0.89	74.0	58.7 - 109
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.69	0.59-0.79	71.8	52.5 - 97.5

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4B
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_331 S: 1
Instrument ID: HR GC/MS Analysis Date: 30-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 08:10:01

LABELLED COMPOUND	IUPAC NO. 1	CO-ELUTIONS	LAB FLAG 2	MZ's FORMING RATIO 3	ION ABUND. RATIO	QC LIMITS 4	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
13C12-2-MoCB	1L			M/M+2	3.28	2.66-3.60	99.4	50.0 - 150
13C12-4-MoCB	3L			M/M+2	3.22	2.66-3.60	96.4	50.0 - 150
13C12-2,2'-DiCB	4L			M/M+2	1.59	1.33-1.79	103	50.0 - 150
13C12-4,4'-DiCB	15L			M/M+2	1.58	1.33-1.79	85.0	50.0 - 150
13C12-2,2',6-TriCB	19L			M/M+2	1.07	0.88-1.20	103	50.0 - 150
13C12-3,4,4'-TriCB	37L			M/M+2	1.02	0.88-1.20	80.7	50.0 - 150
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.82	0.65-0.89	112	50.0 - 150
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.80	0.65-0.89	77.7	50.0 - 150
13C12-3,4,4',5'-TeCB	81L			M/M+2	0.80	0.65-0.89	76.1	50.0 - 150
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.59	1.32-1.78	106	50.0 - 150
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.55	1.32-1.78	75.9	50.0 - 150
13C12-2,3,4,4',5'-PeCB	114L			M+2/M+4	1.60	1.32-1.78	77.3	50.0 - 150
13C12-2,3',4,4',5'-PeCB	118L			M+2/M+4	1.55	1.32-1.78	77.7	50.0 - 150
13C12-2',3,4,4',5'-PeCB	123L			M+2/M+4	1.55	1.32-1.78	77.9	50.0 - 150
13C12-3,3',4,4',5'-PeCB	126L			M+2/M+4	1.56	1.32-1.78	75.6	50.0 - 150
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.31	1.05-1.43	110	50.0 - 150
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	M+2/M+4	1.28	1.05-1.43	212	100 - 300
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.30	1.05-1.43	101	50.0 - 150
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.28	1.05-1.43	118	50.0 - 150
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.06	0.89-1.21	105	50.0 - 150
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	1.03	0.89-1.21	91.9	50.0 - 150
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.92	0.76-1.02	98.8	50.0 - 150
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.94	0.76-1.02	97.6	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.80	0.65-0.89	99.1	50.0 - 150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			M+2/M+4	0.82	0.65-0.89	105	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6	1.19	0.99-1.33	116	50.0 - 150

CLEAN-UP STANDARD

13C12-2,4,4'-TriCB	28L			M/M+2	1.06	0.88-1.20	93.8	60.0 - 130
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.60	1.32-1.78	96.3	60.0 - 130
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.07	0.89-1.21	96.0	60.0 - 130

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6A
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL

VER Data Filename: PB9C_331 S: 1
Analysis Date: 30-Oct-2009
Analysis Time: 08:10:01

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RETENTION TIME REFERENCE	IUPAC NO. ²	RRT	RRT QC LIMITS
2-MoCB	1			13C12-2-MoCB	1L	1.000	0.999-1.004
4-MoCB	3			13C12-4-MoCB	3L	1.001	0.999-1.004
2,2'-DiCB	4			13C12-2,2'-DiCB	4L	1.001	0.999-1.004
4,4'-DiCB	15			13C12-4,4'-DiCB	15L	1.001	0.999-1.003
2,2',6-TriCB	19			13C12-2,2',6-TriCB	19L	1.002	0.999-1.003
3,4,4'-TriCB	37			13C12-3,4,4'-TriCB	37L	1.001	0.999-1.002
2,2',6,6'-TeCB	54			13C12-2,2',6,6'-TeCB	54L	1.001	0.999-1.002
3,3',4,4'-TeCB	77			13C12-3,3',4,4'-TeCB	77L	1.000	1.000-1.001
3,4,4',5-TeCB	81			13C12-3,4,4',5-TeCB	81L	1.000	1.000-1.001
2,2',4,6,6'-PeCB	104			13C12-2,2',4,6,6'-PeCB	104L	1.001	0.999-1.002
2,3,3',4,4'-PeCB	105			13C12-2,3,3',4,4'-PeCB	105L	1.001	1.000-1.001
2,3,4,4',5-PeCB	114			13C12-2,3,4,4',5-PeCB	114L	1.000	1.000-1.001
2,3',4,4',5-PeCB	118			13C12-2,3',4,4',5-PeCB	118L	1.000	1.000-1.001
2',3,4,4',5-PeCB	123			13C12-2',3,4,4',5-PeCB	123L	1.000	1.000-1.001
3,3',4,4',5-PeCB	126			13C12-3,3',4,4',5-PeCB	126L	1.001	1.000-1.001
2,2',4,4',6,6'-HxCB	155			13C12-2,2',4,4',6,6'-HxCB	155L	1.001	0.999-1.002
2,3,3',4,4',5-HxCB	156	156 + 157	C	13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB	156L/157L	1.000	0.998-1.002
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3',4,4',5,5'-HxCB	167			13C12-2,3',4,4',5,5'-HxCB	167L	1.001	1.000-1.001
3,3',4,4',5,5'-HxCB	169			13C12-3,3',4,4',5,5'-HxCB	169L	1.000	1.000-1.001
2,2',3,4',5,6,6'-HpCB	188			13C12-2,2',3,4',5,6,6'-HpCB	188L	1.001	1.000-1.001
2,3,3',4,4',5,5'-HpCB	189			13C12-2,3,3',4,4',5,5'-HpCB	189L	1.001	1.000-1.001
2,2',3,3',5,5',6,6'-OcCB	202			13C12-2,2',3,3',5,5',6,6'-OcCB	202L	1.000	1.000-1.001
2,3,3',4,4',5,5',6-OcCB	205			13C12-2,3,3',4,4',5,5',6-OcCB	205L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6-NoCB	206			13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	1.001	1.000-1.001
2,2',3,3',4,5,5',6,6'-NoCB	208			13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	1.000	1.000-1.001

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) Suffix "L" indicates labeled compound

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6B
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_331 S: 1
Instrument ID: HR GC/MS Analysis Date: 30-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 08:10:01

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RETENTION TIME REFERENCE	IUPAC NO. ¹	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			13C12-2,5-DiCB	9L	0.722	0.691-0.754
13C12-4-MoCB	3L			13C12-2,5-DiCB	9L	0.860	0.829-0.891
13C12-2,2'-DiCB	4L			13C12-2,5-DiCB	9L	0.875	0.843-0.906
13C12-4,4'-DiCB	15L			13C12-2,5-DiCB	9L	1.253	1.221-1.284
13C12-2,2',6-TriCB	19L			13C12-2,5-DiCB	9L	1.072	1.041-1.103
13C12-3,4,4'-TriCB	37L			13C12-2,2',5,5'-TeCB	52L	1.091	1.071-1.111
13C12-2,2',6,6'-TeCB	54L			13C12-2,2',5,5'-TeCB	52L	0.812	0.799-0.826
13C12-3,3',4,4'-TeCB	77L			13C12-2,2',5,5'-TeCB	52L	1.396	1.383-1.409
13C12-3,4,4',5-TeCB	81L			13C12-2,2',5,5'-TeCB	52L	1.372	1.358-1.385
13C12-2,2',4,6,6'-PeCB	104L			13C12-2,2',4,5,5'-PeCB	101L	0.809	0.798-0.819
13C12-2,3,3',4,4'-PeCB	105L			13C12-2,2',4,5,5'-PeCB	101L	1.200	1.190-1.211
13C12-2,3,4,4',5-PeCB	114L			13C12-2,2',4,5,5'-PeCB	101L	1.179	1.168-1.189
13C12-2,3',4,4',5-PeCB	118L			13C12-2,2',4,5,5'-PeCB	101L	1.162	1.151-1.172
13C12-2',3,4,4',5-PeCB	123L			13C12-2,2',4,5,5'-PeCB	101L	1.151	1.140-1.161
13C12-3,3',4,4',5-PeCB	126L			13C12-2,2',4,5,5'-PeCB	101L	1.301	1.290-1.311
13C12-2,2',4,4',6,6'-HxCB	155L			13C12-2,2',3,4,4',5'-HxCB	138L	0.785	0.777-0.794
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	13C12-2,2',3,4,4',5'-HxCB	138L	1.108	1.100-1.116
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L				
13C12-2,3',4,4',5,5'-HxCB	167L			13C12-2,2',3,4,4',5'-HxCB	138L	1.077	1.069-1.086
13C12-3,3',4,4',5,5'-HxCB	169L			13C12-2,2',3,4,4',5'-HxCB	138L	1.191	1.183-1.199
13C12-2,2',3,4',5,6,6'-HpCB	188L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.712	0.706-0.718
13C12-2,3,3',4,4',5,5'-HpCB	189L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.959	0.953-0.965
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.818	0.812-0.824
13C12-2,3,3',4,4',5,5',6-OcCB	205L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.009	1.000-1.019
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.043	1.034-1.053
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.949	0.943-0.956
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.075	1.065-1.084

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			13C12-2,2',5,5'-TeCB	52L	0.925	0.911-0.938
13C12-2,3,3',5,5'-PeCB	111L			13C12-2,2',4,5,5'-PeCB	101L	1.087	1.076-1.097
13C12-2,2',3,3',5,5',6-HpCB	178L			13C12-2,2',3,4,4',5'-HxCB	138L	1.012	1.004-1.020

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

CAL Data Filename: PB9C_331 S: 1

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009

GC Column ID: SPB OCTYL

Analysis Time: 08:10:01

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3-MoCB	2			1.09	M/M+2	3.13	2.66-3.60	0.988	0.984 - 0.992
2,3-DiCB	5			1.08	M/M+2	1.51	1.33-1.79	1.197	1.193 - 1.200
2,3'-DiCB	6			1.24	M/M+2	1.53	1.33-1.79	1.174	1.171 - 1.178
2,4-DiCB	7			1.23	M/M+2	1.51	1.33-1.79	1.156	1.153 - 1.160
2,4'-DiCB	8			1.37	M/M+2	1.52	1.33-1.79	1.206	1.203 - 1.210
2,5-DiCB	9			1.25	M/M+2	1.53	1.33-1.79	1.144	1.141 - 1.148
2,6-DiCB	10			1.31	M/M+2	1.51	1.33-1.79	1.014	1.011 - 1.018
3,3'-DiCB	11			1.09	M/M+2	1.52	1.33-1.79	0.970	0.968 - 0.973
3,4-DiCB	12	12 + 13	C	1.09	M/M+2	1.53	1.33-1.79	0.986	0.983 - 0.988
3,4'-DiCB	13	12 + 13	C12						
3,5-DiCB	14			1.14	M/M+2	1.51	1.33-1.79	0.925	0.923 - 0.928
2,2',3-TriCB	16			0.91	M/M+2	1.05	0.88-1.20	1.166	1.163 - 1.168
2,2',4-TriCB	17			1.00	M/M+2	1.08	0.88-1.20	1.137	1.134 - 1.140
2,2',5-TriCB	18	18 + 30	C	1.20	M/M+2	1.06	0.88-1.20	1.111	1.108 - 1.114
2,3,3'-TriCB	20	20 + 28	C	1.18	M/M+2	1.01	0.88-1.20	0.848	0.845 - 0.851
2,3,4-TriCB	21	21 + 33	C	1.27	M/M+2	1.02	0.88-1.20	0.856	0.853 - 0.859
2,3,4'-TriCB	22			1.07	M/M+2	1.02	0.88-1.20	0.872	0.870 - 0.874
2,3,5-TriCB	23			1.17	M/M+2	1.01	0.88-1.20	1.279	1.277 - 1.282
2,3,6-TriCB	24			1.29	M/M+2	1.06	0.88-1.20	1.159	1.156 - 1.162
2,3',4-TriCB	25			1.42	M/M+2	1.02	0.88-1.20	0.825	0.823 - 0.827
2,3',5-TriCB	26	26 + 29	C	1.18	M/M+2	1.00	0.88-1.20	1.300	1.295 - 1.305
2,3',6-TriCB	27			1.46	M/M+2	1.07	0.88-1.20	1.151	1.148 - 1.154
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			1.28	M/M+2	1.01	0.88-1.20	0.836	0.834 - 0.838
2,4',6-TriCB	32			1.32	M/M+2	1.01	0.88-1.20	1.196	1.193 - 1.199
2',3,4-TriCB	33	21 + 33	C21						
2',3,5-TriCB	34			1.18	M/M+2	1.00	0.88-1.20	1.272	1.269 - 1.275
3,3',4-TriCB	35			0.92	M/M+2	1.01	0.88-1.20	0.985	0.983 - 0.987
3,3',5-TriCB	36			1.12	M/M+2	1.01	0.88-1.20	0.931	0.929 - 0.933
3,4,5-TriCB	38			1.13	M/M+2	1.00	0.88-1.20	0.967	0.965 - 0.969
3,4',5-TriCB	39			1.10	M/M+2	1.01	0.88-1.20	0.945	0.943 - 0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.86	M/M+2	0.79	0.65-0.89	1.333	1.329 - 1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40						
2,2',3,4'-TeCB	42			0.83	M/M+2	0.79	0.65-0.89	1.309	1.306 - 1.311
2,2',3,5-TeCB	43			0.80	M/M+2	0.79	0.65-0.89	1.244	1.242 - 1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.97	M/M+2	0.79	0.65-0.89	1.283	1.279 - 1.287
2,2',3,6-TeCB	45	45 + 51	C	0.95	M/M+2	0.79	0.65-0.89	1.145	1.141 - 1.150
2,2',3,6'-TeCB	46			0.83	M/M+2	0.79	0.65-0.89	1.160	1.158 - 1.163
2,2',4,4'-TeCB	47	44 + 47 + 65	C44						
2,2',4,5-TeCB	48			0.88	M/M+2	0.78	0.65-0.89	1.270	1.268 - 1.273
2,2',4,5'-TeCB	49	49 + 69	C	1.04	M/M+2	0.79	0.65-0.89	1.255	1.251 - 1.259
2,2',4,6-TeCB	50	50 + 53	C	1.00	M/M+2	0.79	0.65-0.89	1.110	1.106 - 1.114
2,2',4,6'-TeCB	51	45 + 51	C45						
2,2',5,5'-TeCB	52			0.96	M/M+2	0.82	0.65-0.89	1.231	1.228 - 1.233
2,2',5,6'-TeCB	53	50 + 53	C50						
2,3,3',4-TeCB	55			0.89	M/M+2	0.77	0.65-0.89	0.889	0.888 - 0.891
2,3,3',4'-TeCB	56			0.89	M/M+2	0.76	0.65-0.89	0.905	0.904 - 0.907



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,3,3',5-TeCB	57			0.98	M/M+2	0.76	0.65-0.89	0.844	0.842 - 0.845
2,3,3',5'-TeCB	58			1.02	M/M+2	0.76	0.65-0.89	0.851	0.849 - 0.852
2,3,3',6-TeCB	59	59 + 62 + 75	C	1.17	M/M+2	0.79	0.65-0.89	1.299	1.295 - 1.303
2,3,4,4'-TeCB	60			0.89	M/M+2	0.75	0.65-0.89	0.911	0.910 - 0.913
2,3,4,5-TeCB	61	61 + 70 + 74 + 76		1.00	M/M+2	0.76	0.65-0.89	0.874	0.871 - 0.877
2,3,4,6-TeCB	62	59 + 62 + 75	C59						
2,3,4',5-TeCB	63			0.99	M/M+2	0.76	0.65-0.89	0.864	0.863 - 0.866
2,3,4',6-TeCB	64			1.18	M/M+2	0.78	0.65-0.89	1.345	1.343 - 1.348
2,3,5,6-TeCB	65	44 + 47 + 65	C44						
2,3',4,4'-TeCB	66			0.98	M/M+2	0.76	0.65-0.89	0.884	0.883 - 0.886
2,3',4,5-TeCB	67			1.09	M/M+2	0.76	0.65-0.89	0.855	0.854 - 0.857
2,3',4,5'-TeCB	68			1.02	M/M+2	0.76	0.65-0.89	0.831	0.830 - 0.833
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			1.01	M/M+2	0.77	0.65-0.89	0.822	0.820 - 0.823
2,3',5',6-TeCB	73			1.15	M/M+2	0.76	0.65-0.89	1.238	1.236 - 1.241
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',4,5-TeCB	78			0.83	M/M+2	0.76	0.65-0.89	0.987	0.985 - 0.988
3,3',4,5'-TeCB	79			1.09	M/M+2	0.76	0.65-0.89	0.970	0.969 - 0.972
3,3',5,5'-TeCB	80			0.98	M/M+2	0.76	0.65-0.89	0.923	0.921 - 0.924
2,2',3,3',4-PeCB	82			0.76	M+2/M+4	1.53	1.32-1.78	0.934	0.933 - 0.936
2,2',3,3',5-PeCB	83	83 + 99	C	0.87	M+2/M+4	1.59	1.32-1.78	0.884	0.882 - 0.887
2,2',3,3',6-PeCB	84			0.84	M+2/M+4	1.60	1.32-1.78	1.164	1.162 - 1.166
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	1.00	M+2/M+4	1.58	1.32-1.78	0.920	0.917 - 0.922
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	1.02	M+2/M+4	1.58	1.32-1.78	0.901	0.897 - 0.904
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3,4,6-PeCB	88	88 + 91	C	0.95	M+2/M+4	1.58	1.32-1.78	1.153	1.149 - 1.157
2,2',3,4,6'-PeCB	89			0.87	M+2/M+4	1.59	1.32-1.78	1.183	1.181 - 1.185
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	1.04	M+2/M+4	1.58	1.32-1.78	0.869	0.867 - 0.871
2,2',3,4',6-PeCB	91	88 + 91	C88						
2,2',3,5,5'-PeCB	92			0.88	M+2/M+4	1.58	1.32-1.78	0.853	0.852 - 0.854
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	0.99	M+2/M+4	1.58	1.32-1.78	1.129	1.118 - 1.140
2,2',3,5,6'-PeCB	94			0.90	M+2/M+4	1.57	1.32-1.78	1.102	1.100 - 1.104
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93						
2,2',3,6,6'-PeCB	96			1.31	M+2/M+4	1.58	1.32-1.78	1.017	1.014 - 1.020
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			1.07	M+2/M+4	1.58	1.32-1.78	1.093	1.091 - 1.095
2,3,3',4,5-PeCB	106			0.95	M+2/M+4	1.56	1.32-1.78	1.004	1.003 - 1.005
2,3,3',4',5-PeCB	107	107 + 124	C	0.88	M+2/M+4	1.50	1.32-1.78	0.991	0.988 - 0.993
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3,3',4,6-PeCB	109			0.89	M+2/M+4	1.50	1.32-1.78	0.997	0.995 - 0.998
2,3,3',4',6-PeCB	110	110 + 115	C	1.14	M+2/M+4	1.60	1.32-1.78	0.926	0.924 - 0.929
2,3,3',5,5'-PeCB	111			1.15	M+2/M+4	1.56	1.32-1.78	0.945	0.944 - 0.946
2,3,3',5,6-PeCB	112			1.17	M+2/M+4	1.60	1.32-1.78	0.889	0.888 - 0.891
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90						
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',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3',4,5,5'-PeCB	120			1.14	M+2/M+4	1.57	1.32-1.78	0.958	0.957 - 0.959
2,3',4,5',6-PeCB	121			1.16	M+2/M+4	1.59	1.32-1.78	1.198	1.196 - 1.200
2',3,3',4,5-PeCB	122			0.79	M+2/M+4	1.56	1.32-1.78	1.010	1.009 - 1.012
2',3,4,5,5'-PeCB	124	107 + 124	C107						
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86						



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3,3',4,5,5'-PeCB	127			0.83	M+2/M+4	1.51	1.32-1.78	1.040	1.039 - 1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.85	M+2/M+4	1.27	1.05-1.43	0.959	0.957 - 0.961
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	0.85	M+2/M+4	1.23	1.05-1.43	0.930	0.928 - 0.933
2,2',3,3',4,5'-HxCB	130			0.66	M+2/M+4	1.25	1.05-1.43	0.914	0.912 - 0.915
2,2',3,3',4,6-HxCB	131			0.78	M+2/M+4	1.25	1.05-1.43	1.161	1.159 - 1.163
2,2',3,3',4,6'-HxCB	132			0.72	M+2/M+4	1.25	1.05-1.43	1.177	1.174 - 1.179
2,2',3,3',5,5'-HxCB	133			0.78	M+2/M+4	1.23	1.05-1.43	1.192	1.190 - 1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	0.75	M+2/M+4	1.24	1.05-1.43	1.143	1.141 - 1.146
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.80	M+2/M+4	1.27	1.05-1.43	1.108	1.102 - 1.113
2,2',3,3',6,6'-HxCB	136			1.17	M+2/M+4	1.29	1.05-1.43	1.026	1.025 - 1.028
2,2',3,4,4',5-HxCB	137			0.71	M+2/M+4	1.26	1.05-1.43	0.919	0.917 - 0.920
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129						
2,2',3,4,4',6-HxCB	139	139 + 140	C	0.83	M+2/M+4	1.25	1.05-1.43	1.154	1.152 - 1.157
2,2',3,4,4',6'-HxCB	140	139 + 140	C139						
2,2',3,4,5,5'-HxCB	141			0.79	M+2/M+4	1.25	1.05-1.43	0.904	0.903 - 0.905
2,2',3,4,5,6-HxCB	142			0.73	M+2/M+4	1.26	1.05-1.43	1.166	1.165 - 1.168
2,2',3,4,5,6'-HxCB	143	134 + 143	C134						
2,2',3,4,5',6-HxCB	144			0.76	M+2/M+4	1.28	1.05-1.43	1.123	1.121 - 1.124
2,2',3,4,6,6'-HxCB	145			1.07	M+2/M+4	1.23	1.05-1.43	1.036	1.034 - 1.037
2,2',3,4',5,5'-HxCB	146			0.86	M+2/M+4	1.25	1.05-1.43	0.884	0.883 - 0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	0.85	M+2/M+4	1.25	1.05-1.43	1.134	1.132 - 1.137
2,2',3,4',5,6'-HxCB	148			0.80	M+2/M+4	1.28	1.05-1.43	1.084	1.083 - 1.086
2,2',3,4',5,6-HxCB	149	147 + 149	C147						
2,2',3,4',6,6'-HxCB	150			1.12	M+2/M+4	1.27	1.05-1.43	1.014	1.012 - 1.015
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135						
2,2',3,5,6,6'-HxCB	152			1.27	M+2/M+4	1.25	1.05-1.43	1.009	1.007 - 1.010
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.01	M+2/M+4	1.25	1.05-1.43	0.899	0.898 - 0.901
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135						
2,3,3',4,4',6-HxCB	158			1.09	M+2/M+4	1.26	1.05-1.43	0.938	0.937 - 0.940
2,3,3',4,5,5'-HxCB	159			1.00	M+2/M+4	1.23	1.05-1.43	0.982	0.981 - 0.983
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129						
2,3,3',4,5',6-HxCB	161			1.05	M+2/M+4	1.25	1.05-1.43	0.888	0.886 - 0.889
2,3,3',4',5,5'-HxCB	162			0.95	M+2/M+4	1.24	1.05-1.43	0.989	0.988 - 0.990
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129						
2,3,3',4',5',6-HxCB	164			1.01	M+2/M+4	1.26	1.05-1.43	0.922	0.920 - 0.923
2,3,3',5,5',6-HxCB	165			0.92	M+2/M+4	1.26	1.05-1.43	0.878	0.877 - 0.879
2,3,4,4',5,6-HxCB	166	128 + 166	C128						
2,3',4,4',5,6-HxCB	168	153 + 168	C153						
2,2',3,3',4,4',5-HpCB	170			0.76	M+2/M+4	1.05	0.89-1.21	0.936	0.935 - 0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.70	M+2/M+4	1.04	0.89-1.21	1.163	1.161 - 1.165
2,2',3,3',4,5,5'-HpCB	172			0.73	M+2/M+4	1.04	0.89-1.21	0.897	0.896 - 0.898
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171						
2,2',3,3',4,5,6'-HpCB	174			0.77	M+2/M+4	1.03	0.89-1.21	1.134	1.133 - 1.135
2,2',3,3',4,5',6-HpCB	175			0.76	M+2/M+4	1.05	0.89-1.21	1.102	1.101 - 1.104
2,2',3,3',4,6,6'-HpCB	176			1.06	M+2/M+4	1.05	0.89-1.21	1.035	1.034 - 1.036
2,2',3,3',4',5,6-HpCB	177			0.80	M+2/M+4	1.06	0.89-1.21	1.146	1.145 - 1.148
2,2',3,3',5,5',6-HpCB	178			0.77	M+2/M+4	1.05	0.89-1.21	1.085	1.084 - 1.087
2,2',3,3',5,6,6'-HpCB	179			1.09	M+2/M+4	1.05	0.89-1.21	1.011	1.010 - 1.012
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	0.99	M+2/M+4	1.06	0.89-1.21	0.910	0.909 - 0.911
2,2',3,4,4',5,6-HpCB	181			0.72	M+2/M+4	1.06	0.89-1.21	1.157	1.155 - 1.158
2,2',3,4,4',5,6'-HpCB	182			0.76	M+2/M+4	1.05	0.89-1.21	1.115	1.114 - 1.117
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	0.74	M+2/M+4	1.04	0.89-1.21	1.128	1.127 - 1.129
2,2',3,4,4',6,6'-HpCB	184			1.10	M+2/M+4	1.07	0.89-1.21	1.024	1.023 - 1.025
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183						
2,2',3,4,5,6,6'-HpCB	186			0.98	M+2/M+4	1.04	0.89-1.21	1.047	1.046 - 1.049
2,2',3,4',5,5',6-HpCB	187			0.81	M+2/M+4	1.06	0.89-1.21	1.110	1.109 - 1.111
2,3,3',4,4',5,6-HpCB	190			1.01	M+2/M+4	1.09	0.89-1.21	0.947	0.946 - 0.948
2,3,3',4,4',5',6-HpCB	191			0.99	M+2/M+4	1.07	0.89-1.21	0.918	0.917 - 0.919
2,3,3',4,5,5',6-HpCB	192			0.85	M+2/M+4	1.04	0.89-1.21	0.903	0.902 - 0.904
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180						
2,2',3,3',4,4',5,5'-OcCB	194			0.85	M+2/M+4	0.89	0.76-1.02	0.991	0.990 - 0.992
2,2',3,3',4,4',5,6-OcCB	195			0.75	M+2/M+4	0.90	0.76-1.02	0.946	0.945 - 0.947
2,2',3,3',4,4',5,6'-OcCB	196			0.79	M+2/M+4	0.92	0.76-1.02	0.916	0.915 - 0.916



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,2',3,3',4,4',6,6'-O ₂ CB	197	197 + 200	C	0.99	M+2/M+4	0.90	0.76-1.02	1.046	1.043 - 1.048
2,2',3,3',4,5,5',6-O ₂ CB	198	198 + 199	C	0.74	M+2/M+4	0.91	0.76-1.02	1.114	1.112 - 1.116
2,2',3,3',4,5,5',6'-O ₂ CB	199	198 + 199	C198						
2,2',3,3',4,5,6,6'-O ₂ CB	200	197 + 200	C197						
2,2',3,3',4,5',6,6'-O ₂ CB	201			0.98	M+2/M+4	0.90	0.76-1.02	1.023	1.021 - 1.025
2,2',3,4,4',5,5',6-O ₂ CB	203			0.78	M+2/M+4	0.91	0.76-1.02	0.919	0.918 - 0.920
2,2',3,4,4',5,6,6'-O ₂ CB	204			0.97	M+2/M+4	0.90	0.76-1.02	1.038	1.037 - 1.040
2,2',3,3',4,4',5,6,6'-NoCB	207			1.13	M+2/M+4	0.80	0.65-0.89	1.020	1.019 - 1.021

- (1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist

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PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

CAL Data Filename: PB9C_331 S: 1

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009

GC Column ID: SPB OCTYL

Analysis Time: 08:10:01

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RRF	MZ's FORMING RATIO ³	ION ABUND. RATIO	RATIO QC LIMITS ⁴	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			0.97	M/M+2	3.28	2.66-3.60	0.722	0.707 - 0.738
13C12-4-MoCB	3L			0.92	M/M+2	3.22	2.66-3.60	0.860	0.844 - 0.876
13C12-2,2'-DiCB	4L			0.66	M/M+2	1.59	1.33-1.79	0.875	0.859 - 0.890
13C12-4,4'-DiCB	15L			0.86	M/M+2	1.58	1.33-1.79	1.253	1.237 - 1.268
13C12-2,2',6-TriCB	19L			0.50	M/M+2	1.07	0.88-1.20	1.072	1.056 - 1.088
13C12-3,4,4'-TriCB	37L			1.42	M/M+2	1.02	0.88-1.20	1.091	1.081 - 1.101
13C12-2,2',6,6'-TeCB	54L			1.50	M/M+2	0.82	0.65-0.89	0.812	0.806 - 0.819
13C12-3,3',4,4'-TeCB	77L			1.01	M/M+2	0.80	0.65-0.89	1.396	1.389 - 1.403
13C12-3,4,4',5-TeCB	81L			1.01	M/M+2	0.80	0.65-0.89	1.372	1.365 - 1.379
13C12-2,2',4,4',6,6'-PeCB	104L			1.28	M+2/M+4	1.59	1.32-1.78	0.809	0.803 - 0.814
13C12-2,3,3',4,4'-PeCB	105L			1.01	M+2/M+4	1.55	1.32-1.78	1.200	1.195 - 1.205
13C12-2,3,4,4',5-PeCB	114L			1.08	M+2/M+4	1.60	1.32-1.78	1.179	1.174 - 1.184
13C12-2,3',4,4',5-PeCB	118L			1.08	M+2/M+4	1.55	1.32-1.78	1.162	1.157 - 1.167
13C12-2',3,4,4',5-PeCB	123L			1.08	M+2/M+4	1.55	1.32-1.78	1.151	1.146 - 1.156
13C12-3,3',4,4',5-PeCB	126L			0.90	M+2/M+4	1.56	1.32-1.78	1.301	1.295 - 1.306
13C12-2,2',4,4',6,6'-HxCB	155L			1.55	M+2/M+4	1.31	1.05-1.43	0.785	0.781 - 0.789
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	1.29	M+2/M+4	1.28	1.05-1.43	1.108	1.104 - 1.112
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L						
13C12-2,3',4,4',5,5'-HxCB	167L			1.21	M+2/M+4	1.30	1.05-1.43	1.077	1.073 - 1.082
13C12-3,3',4,4',5,5'-HxCB	169L			1.30	M+2/M+4	1.28	1.05-1.43	1.191	1.187 - 1.195
13C12-2,2',3,3',4,4',5-HpCB	170L			1.02	M+2/M+4	1.08	0.89-1.21	0.897	0.893 - 0.901
13C12-2,2',3,4,4',5,5'-HpCB	180L			1.24	M+2/M+4	1.06	0.89-1.21	0.873	0.869 - 0.877
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.68	M+2/M+4	1.06	0.89-1.21	0.712	0.708 - 0.716
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.31	M+2/M+4	1.03	0.89-1.21	0.959	0.954 - 0.964
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			1.23	M+2/M+4	0.92	0.76-1.02	0.818	0.814 - 0.822
13C12-2,3,3',4,4',5,5',6-OcCB	205L			1.29	M+2/M+4	0.94	0.76-1.02	1.009	1.004 - 1.014
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.83	M+2/M+4	0.80	0.65-0.89	1.043	1.038 - 1.048
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.18	M+2/M+4	0.82	0.65-0.89	0.949	0.944 - 0.954

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4A
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_332A S: 1
Instrument ID: HR GC/MS Analysis Date: 30-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 21:30:56

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
2-MoCB	1			M/M+2	3.06	2.66-3.60	23.1	17.5 - 32.5
4-MoCB	3			M/M+2	3.07	2.66-3.60	25.4	17.5 - 32.5
2,2'-DiCB	4			M/M+2	1.48	1.33-1.79	24.7	17.5 - 32.5
4,4'-DiCB	15			M/M+2	1.49	1.33-1.79	25.9	21.4 - 39.8
2,2',6-TriCB	19			M/M+2	1.07	0.88-1.20	27.0	17.5 - 32.5
3,4,4'-TriCB	37			M/M+2	0.99	0.88-1.20	23.6	17.5 - 32.5
2,2',6,6'-TeCB	54			M/M+2	0.80	0.65-0.89	51.1	35.0 - 65.0
3,3',4,4'-TeCB	77			M/M+2	0.79	0.65-0.89	46.8	35.0 - 65.0
3,4,4',5-TeCB	81			M/M+2	0.78	0.65-0.89	52.9	35.0 - 65.0
2,2',4,6,6'-PeCB	104			M+2/M+4	1.59	1.32-1.78	53.2	35.0 - 65.0
2,3,3',4,4'-PeCB	105			M+2/M+4	1.54	1.32-1.78	50.7	35.0 - 65.0
2,3,4,4',5-PeCB	114			M+2/M+4	1.52	1.32-1.78	50.2	35.0 - 65.0
2,3',4,4',5-PeCB	118			M+2/M+4	1.47	1.32-1.78	47.4	35.0 - 65.0
2',3,4,4',5-PeCB	123			M+2/M+4	1.55	1.32-1.78	53.3	35.0 - 65.0
3,3',4,4',5-PeCB	126			M+2/M+4	1.53	1.32-1.78	50.4	39.0 - 72.4
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.27	1.05-1.43	52.1	35.0 - 65.0
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.28	1.05-1.43	107	70.0 - 130
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.30	1.05-1.43	58.3	35.0 - 65.0
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.32	1.05-1.43	61.4	35.0 - 65.0
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	1.05	0.89-1.21	48.9	35.0 - 65.0
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	0.98	0.89-1.21	48.1	35.0 - 65.0
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.89	0.76-1.02	81.0	58.9 - 110
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.90	0.76-1.02	74.2	52.5 - 97.5
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.79	0.65-0.89	71.7	52.5 - 97.5
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.79	0.65-0.89	75.5	58.7 - 109
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.70	0.59-0.79	76.7	52.5 - 97.5

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4B
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_332A S: 1
Instrument ID: HR GC/MS Analysis Date: 30-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 21:30:56

LABELLED COMPOUND	IUPAC NO. 1	CO-ELUTIONS	LAB FLAG 2	MZ's FORMING RATIO 3	ION ABUND. RATIO	QC LIMITS 4	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
13C12-2-MoCB	1L			M/M+2	3.30	2.66-3.60	110	50.0 - 150
13C12-4-MoCB	3L			M/M+2	3.23	2.66-3.60	102	50.0 - 150
13C12-2,2'-DiCB	4L			M/M+2	1.60	1.33-1.79	105	50.0 - 150
13C12-4,4'-DiCB	15L			M/M+2	1.56	1.33-1.79	74.3	50.0 - 150
13C12-2,2',6-TriCB	19L			M/M+2	1.08	0.88-1.20	96.3	50.0 - 150
13C12-3,4,4'-TriCB	37L			M/M+2	1.04	0.88-1.20	84.3	50.0 - 150
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.82	0.65-0.89	132	50.0 - 150
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.80	0.65-0.89	79.1	50.0 - 150
13C12-3,4,4',5-TeCB	81L			M/M+2	0.79	0.65-0.89	76.7	50.0 - 150
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.57	1.32-1.78	101	50.0 - 150
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.56	1.32-1.78	76.7	50.0 - 150
13C12-2,3,4,4',5-PeCB	114L			M+2/M+4	1.57	1.32-1.78	78.7	50.0 - 150
13C12-2,3',4,4',5-PeCB	118L			M+2/M+4	1.56	1.32-1.78	79.4	50.0 - 150
13C12-2',3,4,4',5-PeCB	123L			M+2/M+4	1.58	1.32-1.78	80.3	50.0 - 150
13C12-3,3',4,4',5-PeCB	126L			M+2/M+4	1.56	1.32-1.78	73.9	50.0 - 150
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.29	1.05-1.43	105	50.0 - 150
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	M+2/M+4	1.29	1.05-1.43	194	100 - 300
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.30	1.05-1.43	100	50.0 - 150
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.31	1.05-1.43	98.6	50.0 - 150
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.05	0.89-1.21	115	50.0 - 150
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	1.05	0.89-1.21	90.5	50.0 - 150
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.92	0.76-1.02	99.4	50.0 - 150
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.94	0.76-1.02	98.9	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.80	0.65-0.89	101	50.0 - 150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			M+2/M+4	0.83	0.65-0.89	102	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6	1.19	0.99-1.33	106	50.0 - 150

CLEAN-UP STANDARD

13C12-2,4,4'-TriCB	28L			M/M+2	1.05	0.88-1.20	101	60.0 - 130
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.62	1.32-1.78	94.7	60.0 - 130
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.06	0.89-1.21	92.3	60.0 - 130

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6A
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

VER Data Filename: PB9C_332A S: 1

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009

GC Column ID: SPB OCTYL

Analysis Time: 21:30:56

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RETENTION TIME REFERENCE	IUPAC NO. ²	RRT	RRT QC LIMITS
2-MoCB	1			13C12-2-MoCB	1L	1.001	0.999-1.004
4-MoCB	3			13C12-4-MoCB	3L	1.001	0.999-1.004
2,2'-DiCB	4			13C12-2,2'-DiCB	4L	1.001	0.999-1.004
4,4'-DiCB	15			13C12-4,4'-DiCB	15L	1.001	0.999-1.002
2,2',6-TriCB	19			13C12-2,2',6-TriCB	19L	1.001	0.999-1.003
3,4,4'-TriCB	37			13C12-3,4,4'-TriCB	37L	1.001	0.999-1.002
2,2',6,6'-TeCB	54			13C12-2,2',6,6'-TeCB	54L	1.001	0.999-1.002
3,3',4,4'-TeCB	77			13C12-3,3',4,4'-TeCB	77L	1.000	1.000-1.001
3,4,4',5-TeCB	81			13C12-3,4,4',5-TeCB	81L	1.000	1.000-1.001
2,2',4,6,6'-PeCB	104			13C12-2,2',4,6,6'-PeCB	104L	1.001	0.999-1.002
2,3,3',4,4'-PeCB	105			13C12-2,3,3',4,4'-PeCB	105L	1.001	1.000-1.001
2,3,4,4',5-PeCB	114			13C12-2,3,4,4',5-PeCB	114L	1.000	1.000-1.001
2,3',4,4',5-PeCB	118			13C12-2,3',4,4',5-PeCB	118L	1.001	1.000-1.001
2',3,4,4',5-PeCB	123			13C12-2',3,4,4',5-PeCB	123L	1.000	1.000-1.001
3,3',4,4',5-PeCB	126			13C12-3,3',4,4',5-PeCB	126L	1.000	1.000-1.001
2,2',4,4',6,6'-HxCB	155			13C12-2,2',4,4',6,6'-HxCB	155L	1.001	0.999-1.002
2,3,3',4,4',5-HxCB	156	156 + 157	C	13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB	156L/157L	1.000	0.998-1.003
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3',4,4',5,5'-HxCB	167			13C12-2,3',4,4',5,5'-HxCB	167L	1.001	1.000-1.001
3,3',4,4',5,5'-HxCB	169			13C12-3,3',4,4',5,5'-HxCB	169L	1.001	1.000-1.001
2,2',3,4',5,6,6'-HpCB	188			13C12-2,2',3,4',5,6,6'-HpCB	188L	1.001	1.000-1.001
2,3,3',4,4',5,5'-HpCB	189			13C12-2,3,3',4,4',5,5'-HpCB	189L	1.000	1.000-1.001
2,2',3,3',5,5',6,6'-OcCB	202			13C12-2,2',3,3',5,5',6,6'-OcCB	202L	1.000	1.000-1.001
2,3,3',4,4',5,5',6-OcCB	205			13C12-2,3,3',4,4',5,5',6-OcCB	205L	1.001	1.000-1.001
2,2',3,3',4,4',5,5',6-NoCB	206			13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	1.000	1.000-1.001
2,2',3,3',4,5,5',6,6'-NoCB	208			13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	1.000	1.000-1.001

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) Suffix "L" indicates labeled compound

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6B
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_332A S: 1
Instrument ID: HR GC/MS Analysis Date: 30-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 21:30:56

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RETENTION TIME REFERENCE	IUPAC NO. ¹	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			13C12-2,5-DiCB	9L	0.722	0.690-0.753
13C12-4-MoCB	3L			13C12-2,5-DiCB	9L	0.860	0.829-0.892
13C12-2,2'-DiCB	4L			13C12-2,5-DiCB	9L	0.875	0.844-0.906
13C12-4,4'-DiCB	15L			13C12-2,5-DiCB	9L	1.252	1.221-1.284
13C12-2,2',6-TriCB	19L			13C12-2,5-DiCB	9L	1.073	1.042-1.104
13C12-3,4,4'-TriCB	37L			13C12-2,2',5,5'-TeCB	52L	1.092	1.072-1.112
13C12-2,2',6,6'-TeCB	54L			13C12-2,2',5,5'-TeCB	52L	0.813	0.800-0.826
13C12-3,3',4,4'-TeCB	77L			13C12-2,2',5,5'-TeCB	52L	1.396	1.383-1.409
13C12-3,4,4',5-TeCB	81L			13C12-2,2',5,5'-TeCB	52L	1.372	1.358-1.385
13C12-2,2',4,6,6'-PeCB	104L			13C12-2,2',4,5,5'-PeCB	101L	0.809	0.799-0.820
13C12-2,3,3',4,4'-PeCB	105L			13C12-2,2',4,5,5'-PeCB	101L	1.200	1.190-1.211
13C12-2,3,4,4',5-PeCB	114L			13C12-2,2',4,5,5'-PeCB	101L	1.179	1.168-1.189
13C12-2,3',4,4',5-PeCB	118L			13C12-2,2',4,5,5'-PeCB	101L	1.161	1.151-1.172
13C12-2',3,4,4',5-PeCB	123L			13C12-2,2',4,5,5'-PeCB	101L	1.151	1.140-1.161
13C12-3,3',4,4',5-PeCB	126L			13C12-2,2',4,5,5'-PeCB	101L	1.301	1.290-1.311
13C12-2,2',4,4',6,6'-HxCB	155L			13C12-2,2',3,4,4',5'-HxCB	138L	0.785	0.777-0.794
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	13C12-2,2',3,4,4',5'-HxCB	138L	1.108	1.099-1.116
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L				
13C12-2,3',4,4',5,5'-HxCB	167L			13C12-2,2',3,4,4',5'-HxCB	138L	1.077	1.069-1.086
13C12-3,3',4,4',5,5'-HxCB	169L			13C12-2,2',3,4,4',5'-HxCB	138L	1.191	1.183-1.199
13C12-2,2',3,4',5,6,6'-HpCB	188L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.712	0.706-0.718
13C12-2,3,3',4,4',5,5'-HpCB	189L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.959	0.953-0.965
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.818	0.812-0.824
13C12-2,3,3',4,4',5,5',6-OcCB	205L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.009	1.000-1.019
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.043	1.034-1.053
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.949	0.943-0.956
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.075	1.065-1.084

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			13C12-2,2',5,5'-TeCB	52L	0.925	0.912-0.939
13C12-2,3,3',5,5'-PeCB	111L			13C12-2,2',4,5,5'-PeCB	101L	1.087	1.076-1.097
13C12-2,2',3,3',5,5',6-HpCB	178L			13C12-2,2',3,4,4',5'-HxCB	138L	1.012	1.003-1.020

(1) Suffix "L" indicates labeled compound

(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 3A
**PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
 ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES**

AXYS ANALYTICAL SERVICES
 2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009
 Instrument ID: HR GC/MS
 GC Column ID: SPB OCTYL

CAL Data Filename: PB9C_332A S: 1
 Analysis Date: 30-Oct-2009
 Analysis Time: 21:30:56

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3-MoCB	2			1.03	M/M+2	3.08	2.66-3.60	0.988	0.984 - 0.992
2,3-DiCB	5			1.10	M/M+2	1.52	1.33-1.79	1.197	1.193 - 1.200
2,3'-DiCB	6			1.29	M/M+2	1.53	1.33-1.79	1.174	1.170 - 1.178
2,4-DiCB	7			1.28	M/M+2	1.51	1.33-1.79	1.156	1.153 - 1.160
2,4'-DiCB	8			1.44	M/M+2	1.52	1.33-1.79	1.206	1.203 - 1.210
2,5-DiCB	9			1.31	M/M+2	1.51	1.33-1.79	1.144	1.141 - 1.148
2,6-DiCB	10			1.54	M/M+2	1.52	1.33-1.79	1.014	1.011 - 1.018
3,3'-DiCB	11			1.04	M/M+2	1.50	1.33-1.79	0.970	0.968 - 0.973
3,4-DiCB	12	12 + 13	C	1.05	M/M+2	1.51	1.33-1.79	0.986	0.983 - 0.988
3,4'-DiCB	13	12 + 13	C12						
3,5-DiCB	14			1.12	M/M+2	1.51	1.33-1.79	0.925	0.923 - 0.928
2,2',3-TriCB	16			0.89	M/M+2	0.99	0.88-1.20	1.164	1.161 - 1.167
2,2',4-TriCB	17			1.02	M/M+2	1.09	0.88-1.20	1.136	1.133 - 1.139
2,2',5-TriCB	18	18 + 30	C	1.24	M/M+2	1.08	0.88-1.20	1.110	1.107 - 1.113
2,3,3'-TriCB	20	20 + 28	C	1.13	M/M+2	1.01	0.88-1.20	0.848	0.845 - 0.851
2,3,4-TriCB	21	21 + 33	C	1.18	M/M+2	1.01	0.88-1.20	0.856	0.853 - 0.859
2,3,4'-TriCB	22			0.99	M/M+2	1.00	0.88-1.20	0.872	0.870 - 0.874
2,3,5-TriCB	23			1.16	M/M+2	1.00	0.88-1.20	1.278	1.275 - 1.281
2,3,6-TriCB	24			1.37	M/M+2	1.16	0.88-1.20	1.157	1.155 - 1.160
2,3',4-TriCB	25			1.37	M/M+2	1.01	0.88-1.20	0.825	0.823 - 0.827
2,3',5-TriCB	26	26 + 29	C	1.16	M/M+2	1.01	0.88-1.20	1.298	1.293 - 1.303
2,3',6-TriCB	27			1.50	M/M+2	1.08	0.88-1.20	1.150	1.147 - 1.153
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			1.24	M/M+2	1.00	0.88-1.20	0.836	0.834 - 0.838
2,4',6-TriCB	32			1.33	M/M+2	1.00	0.88-1.20	1.194	1.191 - 1.197
2',3,4-TriCB	33	21 + 33	C21						
2',3,5-TriCB	34			1.11	M/M+2	1.01	0.88-1.20	1.269	1.266 - 1.272
3,3',4-TriCB	35			0.86	M/M+2	0.99	0.88-1.20	0.985	0.983 - 0.987
3,3',5-TriCB	36			1.06	M/M+2	1.01	0.88-1.20	0.931	0.929 - 0.933
3,4,5-TriCB	38			1.07	M/M+2	1.01	0.88-1.20	0.967	0.965 - 0.969
3,4',5-TriCB	39			1.01	M/M+2	1.01	0.88-1.20	0.945	0.943 - 0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.81	M/M+2	0.80	0.65-0.89	1.332	1.328 - 1.336
2,2',3,4-TeCB	41	40 + 41 + 71	C40						
2,2',3,4'-TeCB	42			0.79	M/M+2	0.81	0.65-0.89	1.308	1.305 - 1.310
2,2',3,5-TeCB	43			0.70	M/M+2	0.81	0.65-0.89	1.243	1.241 - 1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.93	M/M+2	0.80	0.65-0.89	1.282	1.278 - 1.287
2,2',3,6-TeCB	45	45 + 51	C	0.92	M/M+2	0.80	0.65-0.89	1.145	1.141 - 1.149
2,2',3,6'-TeCB	46			0.80	M/M+2	0.78	0.65-0.89	1.160	1.158 - 1.163
2,2',4,4'-TeCB	47	44 + 47 + 65	C44						
2,2',4,5-TeCB	48			0.82	M/M+2	0.80	0.65-0.89	1.269	1.267 - 1.272
2,2',4,5'-TeCB	49	49 + 69	C	0.98	M/M+2	0.80	0.65-0.89	1.254	1.250 - 1.258
2,2',4,6-TeCB	50	50 + 53	C	0.98	M/M+2	0.80	0.65-0.89	1.110	1.106 - 1.114
2,2',4,6'-TeCB	51	45 + 51	C45						
2,2',5,5'-TeCB	52			0.93	M/M+2	0.79	0.65-0.89	1.231	1.228 - 1.233
2,2',5,6'-TeCB	53	50 + 53	C50						
2,3,3',4-TeCB	55			0.85	M/M+2	0.78	0.65-0.89	0.890	0.888 - 0.891
2,3,3',4'-TeCB	56			0.85	M/M+2	0.82	0.65-0.89	0.905	0.904 - 0.907



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,3,3',5-TeCB	57			0.93	M/M+2	0.78	0.65-0.89	0.844	0.842 - 0.845
2,3,3',5'-TeCB	58			0.91	M/M+2	0.77	0.65-0.89	0.851	0.850 - 0.853
2,3,3',6-TeCB	59	59 + 62 + 75	C	1.12	M/M+2	0.80	0.65-0.89	1.298	1.294 - 1.302
2,3,4,4'-TeCB	60			0.83	M/M+2	0.79	0.65-0.89	0.911	0.910 - 0.913
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	0.95	M/M+2	0.78	0.65-0.89	0.874	0.871 - 0.877
2,3,4,6-TeCB	62	59 + 62 + 75	C59						
2,3,4',5-TeCB	63			0.94	M/M+2	0.78	0.65-0.89	0.864	0.863 - 0.866
2,3,4',6-TeCB	64			1.13	M/M+2	0.80	0.65-0.89	1.345	1.342 - 1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44						
2,3',4,4'-TeCB	66			0.94	M/M+2	0.78	0.65-0.89	0.884	0.883 - 0.886
2,3',4,5-TeCB	67			1.08	M/M+2	0.77	0.65-0.89	0.855	0.854 - 0.857
2,3',4,5'-TeCB	68			0.95	M/M+2	0.76	0.65-0.89	0.831	0.830 - 0.833
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			0.99	M/M+2	0.76	0.65-0.89	0.822	0.820 - 0.823
2,3',5',6-TeCB	73			1.15	M/M+2	0.80	0.65-0.89	1.237	1.235 - 1.240
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',4,5-TeCB	78			0.77	M/M+2	0.78	0.65-0.89	0.987	0.985 - 0.988
3,3',4,5'-TeCB	79			1.07	M/M+2	0.77	0.65-0.89	0.970	0.969 - 0.972
3,3',5,5'-TeCB	80			0.91	M/M+2	0.84	0.65-0.89	0.923	0.921 - 0.924
2,2',3,3',4-PeCB	82			0.77	M+2/M+4	1.65	1.32-1.78	0.934	0.933 - 0.936
2,2',3,3',5-PeCB	83	83 + 99	C	0.86	M+2/M+4	1.58	1.32-1.78	0.884	0.882 - 0.887
2,2',3,3',6-PeCB	84			0.84	M+2/M+4	1.59	1.32-1.78	1.163	1.161 - 1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	0.99	M+2/M+4	1.60	1.32-1.78	0.920	0.917 - 0.922
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	1.02	M+2/M+4	1.58	1.32-1.78	0.901	0.897 - 0.904
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3,4,6-PeCB	88	88 + 91	C	0.96	M+2/M+4	1.59	1.32-1.78	1.152	1.148 - 1.156
2,2',3,4,6'-PeCB	89			0.86	M+2/M+4	1.58	1.32-1.78	1.183	1.181 - 1.184
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	1.06	M+2/M+4	1.60	1.32-1.78	0.869	0.867 - 0.871
2,2',3,4',6-PeCB	91	88 + 91	C88						
2,2',3,5,5'-PeCB	92			0.86	M+2/M+4	1.60	1.32-1.78	0.853	0.852 - 0.854
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	1.01	M+2/M+4	1.58	1.32-1.78	1.129	1.118 - 1.139
2,2',3,5,6'-PeCB	94			0.89	M+2/M+4	1.59	1.32-1.78	1.102	1.100 - 1.104
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93						
2,2',3,6,6'-PeCB	96			1.30	M+2/M+4	1.59	1.32-1.78	1.017	1.013 - 1.020
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			1.08	M+2/M+4	1.59	1.32-1.78	1.093	1.091 - 1.094
2,3,3',4,5-PeCB	106			0.94	M+2/M+4	1.52	1.32-1.78	1.004	1.003 - 1.005
2,3,3',4',5-PeCB	107	107 + 124	C	0.89	M+2/M+4	1.52	1.32-1.78	0.991	0.988 - 0.993
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3,3',4,6-PeCB	109			0.89	M+2/M+4	1.48	1.32-1.78	0.997	0.995 - 0.998
2,3,3',4',6-PeCB	110	110 + 115	C	1.13	M+2/M+4	1.63	1.32-1.78	0.926	0.924 - 0.929
2,3,3',5,5'-PeCB	111			1.17	M+2/M+4	1.60	1.32-1.78	0.945	0.944 - 0.946
2,3,3',5,6-PeCB	112			1.15	M+2/M+4	1.61	1.32-1.78	0.889	0.888 - 0.891
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90						
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',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3',4,5,5'-PeCB	120			1.14	M+2/M+4	1.61	1.32-1.78	0.958	0.957 - 0.959
2,3',4,5',6-PeCB	121			1.15	M+2/M+4	1.57	1.32-1.78	1.197	1.195 - 1.199
2',3,3',4,5-PeCB	122			0.80	M+2/M+4	1.51	1.32-1.78	1.011	1.009 - 1.012
2',3,4,5,5'-PeCB	124	107 + 124	C107						
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86						



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3,3',4,5,5'-PeCB	127			0.81	M+2/M+4	1.54	1.32-1.78	1.040	1.039 - 1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.92	M+2/M+4	1.26	1.05-1.43	0.959	0.957 - 0.961
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	0.95	M+2/M+4	1.25	1.05-1.43	0.930	0.928 - 0.933
2,2',3,3',4,5'-HxCB	130			0.71	M+2/M+4	1.26	1.05-1.43	0.914	0.912 - 0.915
2,2',3,3',4,6-HxCB	131			0.87	M+2/M+4	1.22	1.05-1.43	1.161	1.159 - 1.163
2,2',3,3',4,6'-HxCB	132			0.80	M+2/M+4	1.28	1.05-1.43	1.176	1.174 - 1.179
2,2',3,3',5,5'-HxCB	133			0.88	M+2/M+4	1.25	1.05-1.43	1.192	1.190 - 1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	0.84	M+2/M+4	1.29	1.05-1.43	1.143	1.141 - 1.146
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.83	M+2/M+4	1.27	1.05-1.43	1.107	1.101 - 1.113
2,2',3,3',6,6'-HxCB	136			1.19	M+2/M+4	1.28	1.05-1.43	1.026	1.025 - 1.028
2,2',3,4,4',5-HxCB	137			0.79	M+2/M+4	1.26	1.05-1.43	0.919	0.917 - 0.920
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129						
2,2',3,4,4',6-HxCB	139	139 + 140	C	0.92	M+2/M+4	1.25	1.05-1.43	1.153	1.151 - 1.156
2,2',3,4,4',6'-HxCB	140	139 + 140	C139						
2,2',3,4,5,5'-HxCB	141			0.83	M+2/M+4	1.22	1.05-1.43	0.904	0.903 - 0.905
2,2',3,4,5,6-HxCB	142			0.81	M+2/M+4	1.27	1.05-1.43	1.166	1.165 - 1.168
2,2',3,4,5,6'-HxCB	143	134 + 143	C134						
2,2',3,4,5',6-HxCB	144			0.78	M+2/M+4	1.26	1.05-1.43	1.123	1.121 - 1.124
2,2',3,4,6,6'-HxCB	145			1.04	M+2/M+4	1.27	1.05-1.43	1.035	1.034 - 1.037
2,2',3,4',5,5'-HxCB	146			0.97	M+2/M+4	1.24	1.05-1.43	0.884	0.883 - 0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	0.96	M+2/M+4	1.26	1.05-1.43	1.134	1.132 - 1.137
2,2',3,4',5,6'-HxCB	148			0.80	M+2/M+4	1.26	1.05-1.43	1.084	1.083 - 1.086
2,2',3,4',5,6-HxCB	149	147 + 149	C147						
2,2',3,4',6,6'-HxCB	150			1.14	M+2/M+4	1.28	1.05-1.43	1.014	1.012 - 1.015
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135						
2,2',3,5,6,6'-HxCB	152			1.34	M+2/M+4	1.25	1.05-1.43	1.009	1.007 - 1.010
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.12	M+2/M+4	1.29	1.05-1.43	0.899	0.897 - 0.901
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135						
2,3,3',4,4',6-HxCB	158			1.17	M+2/M+4	1.25	1.05-1.43	0.938	0.937 - 0.940
2,3,3',4,5,5'-HxCB	159			1.01	M+2/M+4	1.26	1.05-1.43	0.982	0.981 - 0.983
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129						
2,3,3',4,5',6-HxCB	161			1.14	M+2/M+4	1.28	1.05-1.43	0.887	0.886 - 0.888
2,3,3',4',5,5'-HxCB	162			1.01	M+2/M+4	1.31	1.05-1.43	0.989	0.988 - 0.990
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129						
2,3,3',4',5',6-HxCB	164			1.04	M+2/M+4	1.25	1.05-1.43	0.922	0.920 - 0.923
2,3,3',5,5',6-HxCB	165			0.99	M+2/M+4	1.29	1.05-1.43	0.878	0.877 - 0.879
2,3,4,4',5,6-HxCB	166	128 + 166	C128						
2,3',4,4',5,6-HxCB	168	153 + 168	C153						
2,2',3,3',4,4',5-HpCB	170			0.65	M+2/M+4	1.07	0.89-1.21	0.936	0.935 - 0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.68	M+2/M+4	1.03	0.89-1.21	1.163	1.160 - 1.165
2,2',3,3',4,5,5'-HpCB	172			0.66	M+2/M+4	1.07	0.89-1.21	0.897	0.896 - 0.898
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171						
2,2',3,3',4,5,6'-HpCB	174			0.74	M+2/M+4	1.07	0.89-1.21	1.134	1.133 - 1.135
2,2',3,3',4,5',6-HpCB	175			0.74	M+2/M+4	1.07	0.89-1.21	1.102	1.101 - 1.104
2,2',3,3',4,6,6'-HpCB	176			1.07	M+2/M+4	1.08	0.89-1.21	1.035	1.034 - 1.036
2,2',3,3',4',5,6-HpCB	177			0.80	M+2/M+4	1.04	0.89-1.21	1.146	1.145 - 1.148
2,2',3,3',5,5',6-HpCB	178			0.78	M+2/M+4	1.05	0.89-1.21	1.085	1.083 - 1.086
2,2',3,3',5,6,6'-HpCB	179			1.09	M+2/M+4	1.07	0.89-1.21	1.011	1.009 - 1.012
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	0.87	M+2/M+4	1.06	0.89-1.21	0.910	0.909 - 0.911
2,2',3,4,4',5,6-HpCB	181			0.72	M+2/M+4	1.04	0.89-1.21	1.156	1.155 - 1.158
2,2',3,4,4',5,6'-HpCB	182			0.75	M+2/M+4	1.06	0.89-1.21	1.115	1.114 - 1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	0.73	M+2/M+4	1.06	0.89-1.21	1.128	1.127 - 1.129
2,2',3,4,4',6,6'-HpCB	184			1.12	M+2/M+4	1.06	0.89-1.21	1.024	1.023 - 1.025
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183						
2,2',3,4,5,6,6'-HpCB	186			0.99	M+2/M+4	1.04	0.89-1.21	1.047	1.046 - 1.049
2,2',3,4',5,5',6-HpCB	187			0.81	M+2/M+4	1.05	0.89-1.21	1.110	1.108 - 1.111
2,3,3',4,4',5,6-HpCB	190			0.85	M+2/M+4	1.06	0.89-1.21	0.947	0.946 - 0.948
2,3,3',4,4',5',6-HpCB	191			0.86	M+2/M+4	1.07	0.89-1.21	0.918	0.917 - 0.919
2,3,3',4,5,5',6-HpCB	192			0.76	M+2/M+4	1.05	0.89-1.21	0.903	0.902 - 0.904
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180						
2,2',3,3',4,4',5,5'-OcCB	194			0.84	M+2/M+4	0.91	0.76-1.02	0.991	0.990 - 0.992
2,2',3,3',4,4',5,6-OcCB	195			0.74	M+2/M+4	0.91	0.76-1.02	0.946	0.945 - 0.947
2,2',3,3',4,4',5,6'-OcCB	196			0.65	M+2/M+4	0.91	0.76-1.02	0.916	0.915 - 0.917



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	0.92	M+2/M+4	0.92	0.76-1.02	1.045	1.043 - 1.048
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	0.66	M+2/M+4	0.91	0.76-1.02	1.114	1.112 - 1.116
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			0.92	M+2/M+4	0.90	0.76-1.02	1.023	1.021 - 1.025
2,2',3,4,4',5,5',6-OcCB	203			0.66	M+2/M+4	0.90	0.76-1.02	0.920	0.919 - 0.921
2,2',3,4,4',5,6,6'-OcCB	204			0.92	M+2/M+4	0.92	0.76-1.02	1.038	1.037 - 1.039
2,2',3,3',4,4',5,6,6'-NoCB	207			1.13	M+2/M+4	0.77	0.65-0.89	1.020	1.019 - 1.021

- (1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form1668346A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14;
Report Filename: 1668_PCB1668_PB9C_332AS1__Form346A_SJ1086698_GS34349.html; Workgroup: WG30100; Design ID: 1193]



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 CAL Data Filename: PB9C_332A S: 1
Instrument ID: HR GC/MS Analysis Date: 30-Oct-2009
GC Column ID: SPB OCTYL Analysis Time: 21:30:56

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RRF	MZ's FORMING RATIO ³	ION ABUND. RATIO	RATIO QC LIMITS ⁴	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			1.07	M/M+2	3.30	2.66-3.60	0.722	0.706 - 0.737
13C12-4-MoCB	3L			0.98	M/M+2	3.23	2.66-3.60	0.860	0.845 - 0.876
13C12-2,2'-DiCB	4L			0.68	M/M+2	1.60	1.33-1.79	0.875	0.859 - 0.891
13C12-4,4'-DiCB	15L			0.75	M/M+2	1.56	1.33-1.79	1.252	1.237 - 1.268
13C12-2,2',6-TriCB	19L			0.47	M/M+2	1.08	0.88-1.20	1.073	1.057 - 1.089
13C12-3,4,4'-TriCB	37L			1.48	M/M+2	1.04	0.88-1.20	1.092	1.082 - 1.102
13C12-2,2',6,6'-TeCB	54L			1.76	M/M+2	0.82	0.65-0.89	0.813	0.806 - 0.820
13C12-3,3',4,4'-TeCB	77L			1.03	M/M+2	0.80	0.65-0.89	1.396	1.389 - 1.403
13C12-3,4,4',5-TeCB	81L			1.01	M/M+2	0.79	0.65-0.89	1.372	1.365 - 1.379
13C12-2,2',4,6,6'-PeCB	104L			1.21	M+2/M+4	1.57	1.32-1.78	0.809	0.804 - 0.814
13C12-2,3,3',4,4'-PeCB	105L			1.03	M+2/M+4	1.56	1.32-1.78	1.200	1.195 - 1.205
13C12-2,3,4,4',5-PeCB	114L			1.10	M+2/M+4	1.57	1.32-1.78	1.179	1.174 - 1.184
13C12-2,3',4,4',5-PeCB	118L			1.10	M+2/M+4	1.56	1.32-1.78	1.161	1.156 - 1.166
13C12-2',3,4,4',5-PeCB	123L			1.12	M+2/M+4	1.58	1.32-1.78	1.151	1.146 - 1.156
13C12-3,3',4,4',5-PeCB	126L			0.88	M+2/M+4	1.56	1.32-1.78	1.301	1.295 - 1.306
13C12-2,2',4,4',6,6'-HxCB	155L			1.49	M+2/M+4	1.29	1.05-1.43	0.785	0.781 - 0.789
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	1.18	M+2/M+4	1.29	1.05-1.43	1.108	1.103 - 1.112
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L						
13C12-2,3',4,4',5,5'-HxCB	167L			1.20	M+2/M+4	1.30	1.05-1.43	1.077	1.073 - 1.082
13C12-3,3',4,4',5,5'-HxCB	169L			1.09	M+2/M+4	1.31	1.05-1.43	1.191	1.187 - 1.195
13C12-2,2',3,3',4,4',5-HpCB	170L			0.90	M+2/M+4	1.06	0.89-1.21	0.897	0.893 - 0.901
13C12-2,2',3,4,4',5,5'-HpCB	180L			1.12	M+2/M+4	1.08	0.89-1.21	0.872	0.868 - 0.876
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.84	M+2/M+4	1.05	0.89-1.21	0.712	0.708 - 0.716
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.29	M+2/M+4	1.05	0.89-1.21	0.959	0.954 - 0.964
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			1.24	M+2/M+4	0.92	0.76-1.02	0.818	0.814 - 0.822
13C12-2,3,3',4,4',5,5',6-OxCB	205L			1.30	M+2/M+4	0.94	0.76-1.02	1.009	1.004 - 1.014
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.84	M+2/M+4	0.80	0.65-0.89	1.043	1.038 - 1.048
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.14	M+2/M+4	0.83	0.65-0.89	0.949	0.944 - 0.954

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4A
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_357 S: 1
Instrument ID: HR GC/MS Analysis Date: 24-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 20:26:20

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
2-MoCB	1			M/M+2	3.08	2.66-3.60	23.8	17.5 - 32.5
4-MoCB	3			M/M+2	3.10	2.66-3.60	26.8	17.5 - 32.5
2,2'-DiCB	4			M/M+2	1.56	1.33-1.79	27.1	17.5 - 32.5
4,4'-DiCB	15			M/M+2	1.56	1.33-1.79	28.0	21.4 - 39.8
2,2',6-TriCB	19			M/M+2	1.06	0.88-1.20	26.5	17.5 - 32.5
3,4,4'-TriCB	37			M/M+2	1.03	0.88-1.20	25.0	17.5 - 32.5
2,2',6,6'-TeCB	54			M/M+2	0.81	0.65-0.89	51.7	35.0 - 65.0
3,3',4,4'-TeCB	77			M/M+2	0.78	0.65-0.89	47.9	35.0 - 65.0
3,4,4',5-TeCB	81			M/M+2	0.76	0.65-0.89	55.2	35.0 - 65.0
2,2',4,6,6'-PeCB	104			M+2/M+4	1.59	1.32-1.78	53.3	35.0 - 65.0
2,3,3',4,4'-PeCB	105			M+2/M+4	1.54	1.32-1.78	53.2	35.0 - 65.0
2,3,4,4',5-PeCB	114			M+2/M+4	1.55	1.32-1.78	54.9	35.0 - 65.0
2,3',4,4',5-PeCB	118			M+2/M+4	1.53	1.32-1.78	49.4	35.0 - 65.0
2',3,4,4',5-PeCB	123			M+2/M+4	1.54	1.32-1.78	56.0	35.0 - 65.0
3,3',4,4',5-PeCB	126			M+2/M+4	1.58	1.32-1.78	56.7	39.0 - 72.4
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.27	1.05-1.43	52.9	35.0 - 65.0
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.26	1.05-1.43	110	70.0 - 130
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.27	1.05-1.43	59.6	35.0 - 65.0
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.31	1.05-1.43	60.7	35.0 - 65.0
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	1.06	0.89-1.21	50.7	35.0 - 65.0
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	1.01	0.89-1.21	52.7	35.0 - 65.0
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.91	0.76-1.02	84.7	58.9 - 110
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.91	0.76-1.02	75.9	52.5 - 97.5
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.78	0.65-0.89	72.1	52.5 - 97.5
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.79	0.65-0.89	75.8	58.7 - 109
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.69	0.59-0.79	83.5	52.5 - 97.5

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4B
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_357 S: 1
Instrument ID: HR GC/MS Analysis Date: 24-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 20:26:20

LABELLED COMPOUND	IUPAC NO. 1	CO-ELUTIONS	LAB FLAG 2	MZ's FORMING RATIO 3	ION ABUND. RATIO	QC LIMITS 4	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
13C12-2-MoCB	1L			M/M+2	3.25	2.66-3.60	102	50.0 - 150
13C12-4-MoCB	3L			M/M+2	3.19	2.66-3.60	93.4	50.0 - 150
13C12-2,2'-DiCB	4L			M/M+2	1.60	1.33-1.79	104	50.0 - 150
13C12-4,4'-DiCB	15L			M/M+2	1.59	1.33-1.79	85.0	50.0 - 150
13C12-2,2',6-TriCB	19L			M/M+2	1.07	0.88-1.20	96.4	50.0 - 150
13C12-3,4,4'-TriCB	37L			M/M+2	1.05	0.88-1.20	89.1	50.0 - 150
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.81	0.65-0.89	114	50.0 - 150
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.79	0.65-0.89	91.4	50.0 - 150
13C12-3,4,4',5-TeCB	81L			M/M+2	0.80	0.65-0.89	90.9	50.0 - 150
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.62	1.32-1.78	92.7	50.0 - 150
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.60	1.32-1.78	93.7	50.0 - 150
13C12-2,3,4,4',5-PeCB	114L			M+2/M+4	1.58	1.32-1.78	91.4	50.0 - 150
13C12-2,3',4,4',5-PeCB	118L			M+2/M+4	1.56	1.32-1.78	99.4	50.0 - 150
13C12-2',3,4,4',5-PeCB	123L			M+2/M+4	1.58	1.32-1.78	97.1	50.0 - 150
13C12-3,3',4,4',5-PeCB	126L			M+2/M+4	1.55	1.32-1.78	95.1	50.0 - 150
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.27	1.05-1.43	90.2	50.0 - 150
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	M+2/M+4	1.31	1.05-1.43	194	100 - 300
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.30	1.05-1.43	99.5	50.0 - 150
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.32	1.05-1.43	98.2	50.0 - 150
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.07	0.89-1.21	89.4	50.0 - 150
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	1.07	0.89-1.21	96.9	50.0 - 150
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.94	0.76-1.02	79.8	50.0 - 150
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.95	0.76-1.02	98.2	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.84	0.65-0.89	95.3	50.0 - 150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			M+2/M+4	0.83	0.65-0.89	97.1	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6	1.23	0.99-1.33	88.3	50.0 - 150

CLEAN-UP STANDARD

13C12-2,4,4'-TriCB	28L			M/M+2	1.05	0.88-1.20	104	60.0 - 130
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.61	1.32-1.78	98.6	60.0 - 130
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.07	0.89-1.21	91.9	60.0 - 130

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6A
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_357 S: 1
Instrument ID: HR GC/MS Analysis Date: 24-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 20:26:20

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RETENTION TIME REFERENCE	IUPAC NO. ²	RRT	RRT QC LIMITS
2-MoCB	1			13C12-2-MoCB	1L	1.001	0.999-1.004
4-MoCB	3			13C12-4-MoCB	3L	1.001	0.999-1.004
2,2'-DiCB	4			13C12-2,2'-DiCB	4L	1.001	0.999-1.004
4,4'-DiCB	15			13C12-4,4'-DiCB	15L	1.001	0.999-1.003
2,2',6-TriCB	19			13C12-2,2',6-TriCB	19L	1.002	0.999-1.003
3,4,4'-TriCB	37			13C12-3,4,4'-TriCB	37L	1.001	0.999-1.002
2,2',6,6'-TeCB	54			13C12-2,2',6,6'-TeCB	54L	1.001	0.999-1.002
3,3',4,4'-TeCB	77			13C12-3,3',4,4'-TeCB	77L	1.000	1.000-1.001
3,4,4',5-TeCB	81			13C12-3,4,4',5-TeCB	81L	1.000	1.000-1.001
2,2',4,6,6'-PeCB	104			13C12-2,2',4,6,6'-PeCB	104L	1.001	0.999-1.002
2,3,3',4,4'-PeCB	105			13C12-2,3,3',4,4'-PeCB	105L	1.001	1.000-1.001
2,3,4,4',5-PeCB	114			13C12-2,3,4,4',5-PeCB	114L	1.000	1.000-1.001
2,3',4,4',5-PeCB	118			13C12-2,3',4,4',5-PeCB	118L	1.001	1.000-1.001
2',3,4,4',5-PeCB	123			13C12-2',3,4,4',5-PeCB	123L	1.000	1.000-1.001
3,3',4,4',5-PeCB	126			13C12-3,3',4,4',5-PeCB	126L	1.001	1.000-1.001
2,2',4,4',6,6'-HxCB	155			13C12-2,2',4,4',6,6'-HxCB	155L	1.001	0.999-1.002
2,3,3',4,4',5-HxCB	156	156 + 157	C	13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB	156L/157L	1.000	0.998-1.003
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3',4,4',5,5'-HxCB	167			13C12-2,3',4,4',5,5'-HxCB	167L	1.000	1.000-1.001
3,3',4,4',5,5'-HxCB	169			13C12-3,3',4,4',5,5'-HxCB	169L	1.000	1.000-1.001
2,2',3,4',5,6,6'-HpCB	188			13C12-2,2',3,4',5,6,6'-HpCB	188L	1.001	1.000-1.001
2,3,3',4,4',5,5'-HpCB	189			13C12-2,3,3',4,4',5,5'-HpCB	189L	1.001	1.000-1.001
2,2',3,3',5,5',6,6'-OcCB	202			13C12-2,2',3,3',5,5',6,6'-OcCB	202L	1.000	1.000-1.001
2,3,3',4,4',5,5',6-OcCB	205			13C12-2,3,3',4,4',5,5',6-OcCB	205L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6-NoCB	206			13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	1.000	1.000-1.001
2,2',3,3',4,5,5',6,6'-NoCB	208			13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	1.001	1.000-1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	1.000	1.000-1.001

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) Suffix "L" indicates labeled compound

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6B
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_357 S: 1
Instrument ID: HR GC/MS Analysis Date: 24-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 20:26:20

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RETENTION TIME REFERENCE	IUPAC NO. ¹	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			13C12-2,5-DiCB	9L	0.722	0.691-0.753
13C12-4-MoCB	3L			13C12-2,5-DiCB	9L	0.860	0.829-0.891
13C12-2,2'-DiCB	4L			13C12-2,5-DiCB	9L	0.876	0.844-0.907
13C12-4,4'-DiCB	15L			13C12-2,5-DiCB	9L	1.253	1.222-1.284
13C12-2,2',6-TriCB	19L			13C12-2,5-DiCB	9L	1.072	1.041-1.103
13C12-3,4,4'-TriCB	37L			13C12-2,2',5,5'-TeCB	52L	1.092	1.072-1.112
13C12-2,2',6,6'-TeCB	54L			13C12-2,2',5,5'-TeCB	52L	0.812	0.799-0.826
13C12-3,3',4,4'-TeCB	77L			13C12-2,2',5,5'-TeCB	52L	1.396	1.382-1.409
13C12-3,4,4',5-TeCB	81L			13C12-2,2',5,5'-TeCB	52L	1.372	1.359-1.386
13C12-2,2',4,6,6'-PeCB	104L			13C12-2,2',4,5,5'-PeCB	101L	0.808	0.798-0.819
13C12-2,3,3',4,4'-PeCB	105L			13C12-2,2',4,5,5'-PeCB	101L	1.200	1.190-1.211
13C12-2,3,4,4',5-PeCB	114L			13C12-2,2',4,5,5'-PeCB	101L	1.179	1.169-1.189
13C12-2,3',4,4',5-PeCB	118L			13C12-2,2',4,5,5'-PeCB	101L	1.161	1.151-1.172
13C12-2',3,4,4',5-PeCB	123L			13C12-2,2',4,5,5'-PeCB	101L	1.151	1.141-1.161
13C12-3,3',4,4',5-PeCB	126L			13C12-2,2',4,5,5'-PeCB	101L	1.301	1.290-1.311
13C12-2,2',4,4',6,6'-HxCB	155L			13C12-2,2',3,4,4',5'-HxCB	138L	0.785	0.777-0.793
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	13C12-2,2',3,4,4',5'-HxCB	138L	1.108	1.099-1.116
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L				
13C12-2,3',4,4',5,5'-HxCB	167L			13C12-2,2',3,4,4',5'-HxCB	138L	1.078	1.069-1.086
13C12-3,3',4,4',5,5'-HxCB	169L			13C12-2,2',3,4,4',5'-HxCB	138L	1.191	1.183-1.200
13C12-2,2',3,4',5,6,6'-HpCB	188L			13C12-2,2',3,3',4,4',5,5'-OxCB	194L	0.712	0.705-0.718
13C12-2,3,3',4,4',5,5'-HpCB	189L			13C12-2,2',3,3',4,4',5,5'-OxCB	194L	0.959	0.952-0.965
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			13C12-2,2',3,3',4,4',5,5'-OxCB	194L	0.818	0.811-0.824
13C12-2,3,3',4,4',5,5',6-OxCB	205L			13C12-2,2',3,3',4,4',5,5'-OxCB	194L	1.009	1.000-1.019
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			13C12-2,2',3,3',4,4',5,5'-OxCB	194L	1.043	1.034-1.053
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			13C12-2,2',3,3',4,4',5,5'-OxCB	194L	0.949	0.943-0.955
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			13C12-2,2',3,3',4,4',5,5'-OxCB	194L	1.075	1.065-1.084

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			13C12-2,2',5,5'-TeCB	52L	0.924	0.911-0.938
13C12-2,3,3',5,5'-PeCB	111L			13C12-2,2',4,5,5'-PeCB	101L	1.086	1.076-1.097
13C12-2,2',3,3',5,5',6-HpCB	178L			13C12-2,2',3,4,4',5'-HxCB	138L	1.012	1.003-1.020

(1) Suffix "L" indicates labeled compound

(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

CAL Data Filename: PB9C_357 S: 1

Instrument ID: HR GC/MS

Analysis Date: 24-Nov-2009

GC Column ID: SPB OCTYL

Analysis Time: 20:26:20

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3-MoCB	2			1.09	M/M+2	3.15	2.66-3.60	0.989	0.985 - 0.993
2,3-DiCB	5			1.15	M/M+2	1.54	1.33-1.79	1.196	1.192 - 1.199
2,3'-DiCB	6			1.32	M/M+2	1.56	1.33-1.79	1.174	1.171 - 1.178
2,4-DiCB	7			1.32	M/M+2	1.56	1.33-1.79	1.155	1.152 - 1.159
2,4'-DiCB	8			1.48	M/M+2	1.56	1.33-1.79	1.205	1.202 - 1.209
2,5-DiCB	9			1.34	M/M+2	1.56	1.33-1.79	1.143	1.140 - 1.147
2,6-DiCB	10			1.47	M/M+2	1.55	1.33-1.79	1.013	1.010 - 1.017
3,3'-DiCB	11			1.15	M/M+2	1.57	1.33-1.79	0.970	0.967 - 0.972
3,4-DiCB	12	12 + 13	C	1.15	M/M+2	1.56	1.33-1.79	0.985	0.982 - 0.987
3,4'-DiCB	13	12 + 13	C12						
3,5-DiCB	14			1.23	M/M+2	1.54	1.33-1.79	0.926	0.923 - 0.928
2,2',3-TriCB	16			0.84	M/M+2	1.07	0.88-1.20	1.165	1.162 - 1.168
2,2',4-TriCB	17			0.96	M/M+2	1.08	0.88-1.20	1.137	1.135 - 1.140
2,2',5-TriCB	18	18 + 30	C	1.14	M/M+2	1.09	0.88-1.20	1.111	1.108 - 1.114
2,3,3'-TriCB	20	20 + 28	C	1.35	M/M+2	1.01	0.88-1.20	0.848	0.845 - 0.851
2,3,4-TriCB	21	21 + 33	C	1.43	M/M+2	1.03	0.88-1.20	0.856	0.853 - 0.859
2,3,4'-TriCB	22			1.20	M/M+2	1.01	0.88-1.20	0.872	0.870 - 0.874
2,3,5-TriCB	23			1.36	M/M+2	1.04	0.88-1.20	1.280	1.277 - 1.283
2,3,6-TriCB	24			1.29	M/M+2	1.08	0.88-1.20	1.158	1.155 - 1.161
2,3',4-TriCB	25			1.62	M/M+2	1.01	0.88-1.20	0.825	0.823 - 0.827
2,3',5-TriCB	26	26 + 29	C	1.40	M/M+2	1.02	0.88-1.20	1.299	1.294 - 1.304
2,3',6-TriCB	27			1.32	M/M+2	1.08	0.88-1.20	1.150	1.147 - 1.153
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			1.49	M/M+2	1.02	0.88-1.20	0.837	0.835 - 0.839
2,4',6-TriCB	32			1.49	M/M+2	1.03	0.88-1.20	1.196	1.193 - 1.199
2',3,4-TriCB	33	21 + 33	C21						
2',3,5-TriCB	34			1.39	M/M+2	1.04	0.88-1.20	1.271	1.268 - 1.274
3,3',4-TriCB	35			1.05	M/M+2	1.02	0.88-1.20	0.985	0.983 - 0.987
3,3',5-TriCB	36			1.24	M/M+2	1.01	0.88-1.20	0.931	0.930 - 0.933
3,4,5-TriCB	38			1.27	M/M+2	1.03	0.88-1.20	0.967	0.965 - 0.969
3,4',5-TriCB	39			1.25	M/M+2	1.01	0.88-1.20	0.945	0.944 - 0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.81	M/M+2	0.80	0.65-0.89	1.333	1.329 - 1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40						
2,2',3,4'-TeCB	42			0.81	M/M+2	0.81	0.65-0.89	1.310	1.308 - 1.313
2,2',3,5-TeCB	43			0.73	M/M+2	0.82	0.65-0.89	1.244	1.242 - 1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.91	M/M+2	0.80	0.65-0.89	1.284	1.280 - 1.288
2,2',3,6-TeCB	45	45 + 51	C	0.89	M/M+2	0.80	0.65-0.89	1.146	1.142 - 1.150
2,2',3,6'-TeCB	46			0.77	M/M+2	0.81	0.65-0.89	1.160	1.158 - 1.163
2,2',4,4'-TeCB	47	44 + 47 + 65	C44						
2,2',4,5-TeCB	48			0.83	M/M+2	0.81	0.65-0.89	1.272	1.269 - 1.274
2,2',4,5'-TeCB	49	49 + 69	C	0.99	M/M+2	0.80	0.65-0.89	1.255	1.251 - 1.259
2,2',4,6-TeCB	50	50 + 53	C	0.95	M/M+2	0.81	0.65-0.89	1.110	1.106 - 1.114
2,2',4,6'-TeCB	51	45 + 51	C45						
2,2',5,5'-TeCB	52			0.89	M/M+2	0.80	0.65-0.89	1.232	1.230 - 1.235
2,2',5,6'-TeCB	53	50 + 53	C50						
2,3,3',4-TeCB	55			1.00	M/M+2	0.76	0.65-0.89	0.889	0.888 - 0.891
2,3,3',4'-TeCB	56			1.01	M/M+2	0.76	0.65-0.89	0.905	0.904 - 0.906



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,3,3',5-TeCB	57			1.09	M/M+2	0.76	0.65-0.89	0.843	0.842 - 0.845
2,3,3',5'-TeCB	58			1.02	M/M+2	0.81	0.65-0.89	0.850	0.849 - 0.852
2,3,3',6-TeCB	59	59 + 62 + 75	C	1.08	M/M+2	0.81	0.65-0.89	1.299	1.295 - 1.303
2,3,4,4'-TeCB	60			1.00	M/M+2	0.76	0.65-0.89	0.911	0.910 - 0.913
2,3,4,5-TeCB	61	61 + 70 + 74 + 76		1.08	M/M+2	0.76	0.65-0.89	0.874	0.871 - 0.877
2,3,4,6-TeCB	62	59 + 62 + 75	C59						
2,3,4',5-TeCB	63			1.09	M/M+2	0.75	0.65-0.89	0.864	0.863 - 0.866
2,3,4',6-TeCB	64			1.12	M/M+2	0.81	0.65-0.89	1.347	1.344 - 1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44						
2,3',4,4'-TeCB	66			1.06	M/M+2	0.75	0.65-0.89	0.884	0.882 - 0.885
2,3',4,5-TeCB	67			1.18	M/M+2	0.71	0.65-0.89	0.855	0.854 - 0.857
2,3',4,5'-TeCB	68			1.13	M/M+2	0.76	0.65-0.89	0.831	0.830 - 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			1.12	M/M+2	0.76	0.65-0.89	0.822	0.820 - 0.823
2,3',5',6-TeCB	73			1.12	M/M+2	0.80	0.65-0.89	1.240	1.237 - 1.242
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',4,5-TeCB	78			0.98	M/M+2	0.77	0.65-0.89	0.987	0.985 - 0.988
3,3',4,5'-TeCB	79			1.20	M/M+2	0.77	0.65-0.89	0.970	0.968 - 0.971
3,3',5,5'-TeCB	80			1.09	M/M+2	0.77	0.65-0.89	0.923	0.922 - 0.925
2,2',3,3',4-PeCB	82			0.73	M+2/M+4	1.57	1.32-1.78	0.934	0.933 - 0.936
2,2',3,3',5-PeCB	83	83 + 99	C	0.81	M+2/M+4	1.60	1.32-1.78	0.884	0.882 - 0.887
2,2',3,3',6-PeCB	84			0.76	M+2/M+4	1.64	1.32-1.78	1.164	1.162 - 1.166
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	0.95	M+2/M+4	1.61	1.32-1.78	0.919	0.917 - 0.922
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	0.96	M+2/M+4	1.60	1.32-1.78	0.900	0.897 - 0.904
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3,4,6-PeCB	88	88 + 91	C	0.86	M+2/M+4	1.60	1.32-1.78	1.153	1.149 - 1.156
2,2',3,4,6'-PeCB	89			0.81	M+2/M+4	1.62	1.32-1.78	1.184	1.182 - 1.185
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	0.95	M+2/M+4	1.61	1.32-1.78	0.868	0.866 - 0.871
2,2',3,4',6-PeCB	91	88 + 91	C88						
2,2',3,5,5'-PeCB	92			0.82	M+2/M+4	1.59	1.32-1.78	0.853	0.851 - 0.854
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	0.90	M+2/M+4	1.60	1.32-1.78	1.129	1.118 - 1.140
2,2',3,5,6'-PeCB	94			0.81	M+2/M+4	1.60	1.32-1.78	1.102	1.100 - 1.104
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93						
2,2',3,6,6'-PeCB	96			1.03	M+2/M+4	1.61	1.32-1.78	1.017	1.014 - 1.020
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			0.97	M+2/M+4	1.60	1.32-1.78	1.093	1.091 - 1.095
2,3,3',4,5-PeCB	106			1.05	M+2/M+4	1.55	1.32-1.78	1.004	1.003 - 1.005
2,3,3',4',5-PeCB	107	107 + 124	C	1.02	M+2/M+4	1.56	1.32-1.78	0.991	0.988 - 0.993
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3,3',4,6-PeCB	109			1.05	M+2/M+4	1.54	1.32-1.78	0.997	0.995 - 0.998
2,3,3',4',6-PeCB	110	110 + 115	C	1.08	M+2/M+4	1.57	1.32-1.78	0.926	0.924 - 0.929
2,3,3',5,5'-PeCB	111			1.07	M+2/M+4	1.61	1.32-1.78	0.944	0.943 - 0.946
2,3,3',5,6-PeCB	112			1.17	M+2/M+4	1.64	1.32-1.78	0.889	0.888 - 0.891
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90						
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',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3',4,5,5'-PeCB	120			1.12	M+2/M+4	1.60	1.32-1.78	0.958	0.957 - 0.959
2,3',4,5',6-PeCB	121			1.08	M+2/M+4	1.62	1.32-1.78	1.198	1.196 - 1.200
2',3,3',4,5-PeCB	122			0.95	M+2/M+4	1.56	1.32-1.78	1.011	1.009 - 1.012
2',3,4,5,5'-PeCB	124	107 + 124	C107						
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86						



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3,3',4,5,5'-PeCB	127			1.00	M+2/M+4	1.55	1.32-1.78	1.040	1.039 - 1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	1.04	M+2/M+4	1.28	1.05-1.43	0.959	0.957 - 0.961
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	1.02	M+2/M+4	1.26	1.05-1.43	0.930	0.928 - 0.933
2,2',3,3',4,5'-HxCB	130			0.80	M+2/M+4	1.28	1.05-1.43	0.914	0.912 - 0.915
2,2',3,3',4,6-HxCB	131			0.87	M+2/M+4	1.27	1.05-1.43	1.161	1.160 - 1.163
2,2',3,3',4,6'-HxCB	132			0.85	M+2/M+4	1.25	1.05-1.43	1.176	1.173 - 1.179
2,2',3,3',5,5'-HxCB	133			0.92	M+2/M+4	1.27	1.05-1.43	1.192	1.190 - 1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	0.90	M+2/M+4	1.25	1.05-1.43	1.143	1.141 - 1.146
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.81	M+2/M+4	1.29	1.05-1.43	1.108	1.102 - 1.113
2,2',3,3',6,6'-HxCB	136			1.11	M+2/M+4	1.27	1.05-1.43	1.026	1.024 - 1.027
2,2',3,4,4',5-HxCB	137			0.91	M+2/M+4	1.27	1.05-1.43	0.918	0.917 - 0.920
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129						
2,2',3,4,4',6-HxCB	139	139 + 140	C	0.99	M+2/M+4	1.29	1.05-1.43	1.153	1.151 - 1.156
2,2',3,4,4',6'-HxCB	140	139 + 140	C139						
2,2',3,4,5,5'-HxCB	141			0.99	M+2/M+4	1.25	1.05-1.43	0.903	0.902 - 0.904
2,2',3,4,5,6-HxCB	142			0.89	M+2/M+4	1.30	1.05-1.43	1.166	1.164 - 1.168
2,2',3,4,5,6'-HxCB	143	134 + 143	C134						
2,2',3,4,5',6-HxCB	144			0.78	M+2/M+4	1.23	1.05-1.43	1.122	1.121 - 1.124
2,2',3,4,6,6'-HxCB	145			1.03	M+2/M+4	1.32	1.05-1.43	1.035	1.034 - 1.037
2,2',3,4',5,5'-HxCB	146			1.05	M+2/M+4	1.25	1.05-1.43	0.884	0.883 - 0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	1.02	M+2/M+4	1.25	1.05-1.43	1.134	1.132 - 1.137
2,2',3,4',5,6'-HxCB	148			0.79	M+2/M+4	1.29	1.05-1.43	1.084	1.082 - 1.086
2,2',3,4',5,6-HxCB	149	147 + 149	C147						
2,2',3,4',6,6'-HxCB	150			1.11	M+2/M+4	1.27	1.05-1.43	1.013	1.012 - 1.015
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135						
2,2',3,5,6,6'-HxCB	152			1.14	M+2/M+4	1.28	1.05-1.43	1.008	1.007 - 1.010
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.17	M+2/M+4	1.25	1.05-1.43	0.899	0.897 - 0.900
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135						
2,3,3',4,4',6-HxCB	158			1.31	M+2/M+4	1.30	1.05-1.43	0.938	0.937 - 0.939
2,3,3',4,5,5'-HxCB	159			1.19	M+2/M+4	1.28	1.05-1.43	0.982	0.981 - 0.983
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129						
2,3,3',4,5',6-HxCB	161			1.19	M+2/M+4	1.25	1.05-1.43	0.887	0.886 - 0.888
2,3,3',4',5,5'-HxCB	162			1.14	M+2/M+4	1.29	1.05-1.43	0.989	0.988 - 0.990
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129						
2,3,3',4',5',6-HxCB	164			1.18	M+2/M+4	1.27	1.05-1.43	0.922	0.920 - 0.923
2,3,3',5,5',6-HxCB	165			1.09	M+2/M+4	1.26	1.05-1.43	0.878	0.877 - 0.879
2,3,4,4',5,6-HxCB	166	128 + 166	C128						
2,3',4,4',5',6-HxCB	168	153 + 168	C153						
2,2',3,3',4,4',5-HpCB	170			0.66	M+2/M+4	1.04	0.89-1.21	0.936	0.935 - 0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.69	M+2/M+4	1.07	0.89-1.21	1.163	1.161 - 1.165
2,2',3,3',4,5,5'-HpCB	172			0.68	M+2/M+4	1.04	0.89-1.21	0.897	0.896 - 0.898
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171						
2,2',3,3',4,5,6'-HpCB	174			0.75	M+2/M+4	1.07	0.89-1.21	1.134	1.133 - 1.136
2,2',3,3',4,5',6-HpCB	175			0.75	M+2/M+4	1.07	0.89-1.21	1.103	1.102 - 1.104
2,2',3,3',4,6,6'-HpCB	176			1.01	M+2/M+4	1.04	0.89-1.21	1.035	1.034 - 1.037
2,2',3,3',4',5,6-HpCB	177			0.77	M+2/M+4	1.05	0.89-1.21	1.147	1.146 - 1.148
2,2',3,3',5,5',6-HpCB	178			0.76	M+2/M+4	1.05	0.89-1.21	1.085	1.084 - 1.087
2,2',3,3',5,6,6'-HpCB	179			1.06	M+2/M+4	1.07	0.89-1.21	1.011	1.010 - 1.012
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	0.84	M+2/M+4	1.06	0.89-1.21	0.909	0.908 - 0.910
2,2',3,4,4',5,6-HpCB	181			0.71	M+2/M+4	1.08	0.89-1.21	1.157	1.156 - 1.158
2,2',3,4,4',5,6'-HpCB	182			0.79	M+2/M+4	1.08	0.89-1.21	1.115	1.114 - 1.117
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	0.77	M+2/M+4	1.03	0.89-1.21	1.129	1.127 - 1.130
2,2',3,4,4',6,6'-HpCB	184			1.08	M+2/M+4	1.05	0.89-1.21	1.024	1.023 - 1.026
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183						
2,2',3,4,5,6,6'-HpCB	186			1.00	M+2/M+4	1.06	0.89-1.21	1.048	1.046 - 1.049
2,2',3,4',5,5',6-HpCB	187			0.82	M+2/M+4	1.03	0.89-1.21	1.110	1.109 - 1.111
2,3,3',4,4',5,6-HpCB	190			0.86	M+2/M+4	1.03	0.89-1.21	0.947	0.946 - 0.948
2,3,3',4,4',5',6-HpCB	191			0.89	M+2/M+4	1.04	0.89-1.21	0.917	0.916 - 0.918
2,3,3',4,5,5',6-HpCB	192			0.79	M+2/M+4	1.04	0.89-1.21	0.902	0.902 - 0.903
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180						
2,2',3,3',4,4',5,5'-OcCB	194			0.95	M+2/M+4	0.91	0.76-1.02	0.991	0.990 - 0.992
2,2',3,3',4,4',5,6-OcCB	195			0.86	M+2/M+4	0.90	0.76-1.02	0.946	0.945 - 0.947
2,2',3,3',4,4',5,6'-OcCB	196			0.67	M+2/M+4	0.88	0.76-1.02	0.915	0.915 - 0.916



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C	0.91	M+2/M+4	0.92	0.76-1.02	1.045	1.043 - 1.048
2,2',3,3',4,5,5',6-OcCB	198	198 + 199	C	0.65	M+2/M+4	0.91	0.76-1.02	1.114	1.112 - 1.115
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			0.92	M+2/M+4	0.91	0.76-1.02	1.023	1.021 - 1.025
2,2',3,4,4',5,5',6-OcCB	203			0.67	M+2/M+4	0.91	0.76-1.02	0.919	0.918 - 0.920
2,2',3,4,4',5,6,6'-OcCB	204			0.90	M+2/M+4	0.92	0.76-1.02	1.038	1.037 - 1.039
2,2',3,3',4,4',5,6,6'-NoCB	207			1.17	M+2/M+4	0.79	0.65-0.89	1.020	1.019 - 1.021

- (1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist

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PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

CAL Data Filename: PB9C_357 S: 1

Instrument ID: HR GC/MS

Analysis Date: 24-Nov-2009

GC Column ID: SPB OCTYL

Analysis Time: 20:26:20

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RRF	MZ's FORMING RATIO ³	ION ABUND. RATIO	RATIO QC LIMITS ⁴	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			1.00	M/M+2	3.25	2.66-3.60	0.722	0.706 - 0.738
13C12-4-MoCB	3L			0.90	M/M+2	3.19	2.66-3.60	0.860	0.844 - 0.876
13C12-2,2'-DiCB	4L			0.67	M/M+2	1.60	1.33-1.79	0.876	0.860 - 0.891
13C12-4,4'-DiCB	15L			0.86	M/M+2	1.59	1.33-1.79	1.253	1.237 - 1.269
13C12-2,2',6-TriCB	19L			0.47	M/M+2	1.07	0.88-1.20	1.072	1.056 - 1.088
13C12-3,4,4'-TriCB	37L			1.57	M/M+2	1.05	0.88-1.20	1.092	1.082 - 1.102
13C12-2,2',6,6'-TeCB	54L			1.53	M/M+2	0.81	0.65-0.89	0.812	0.805 - 0.819
13C12-3,3',4,4'-TeCB	77L			1.19	M/M+2	0.79	0.65-0.89	1.396	1.389 - 1.402
13C12-3,4,4',5-TeCB	81L			1.20	M/M+2	0.80	0.65-0.89	1.372	1.366 - 1.379
13C12-2,2',4,6,6'-PeCB	104L			1.12	M+2/M+4	1.62	1.32-1.78	0.808	0.803 - 0.814
13C12-2,3,3',4,4'-PeCB	105L			1.25	M+2/M+4	1.60	1.32-1.78	1.200	1.195 - 1.206
13C12-2,3,4,4',5-PeCB	114L			1.27	M+2/M+4	1.58	1.32-1.78	1.179	1.174 - 1.184
13C12-2,3',4,4',5-PeCB	118L			1.38	M+2/M+4	1.56	1.32-1.78	1.161	1.156 - 1.167
13C12-2',3,4,4',5-PeCB	123L			1.35	M+2/M+4	1.58	1.32-1.78	1.151	1.146 - 1.156
13C12-3,3',4,4',5-PeCB	126L			1.13	M+2/M+4	1.55	1.32-1.78	1.301	1.296 - 1.306
13C12-2,2',4,4',6,6'-HxCB	155L			1.28	M+2/M+4	1.27	1.05-1.43	0.785	0.781 - 0.789
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	1.18	M+2/M+4	1.31	1.05-1.43	1.108	1.104 - 1.112
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L						
13C12-2,3',4,4',5,5'-HxCB	167L			1.19	M+2/M+4	1.30	1.05-1.43	1.078	1.073 - 1.082
13C12-3,3',4,4',5,5'-HxCB	169L			1.09	M+2/M+4	1.32	1.05-1.43	1.191	1.187 - 1.195
13C12-2,2',3,3',4,4',5-HpCB	170L			0.79	M+2/M+4	1.06	0.89-1.21	0.897	0.893 - 0.901
13C12-2,2',3,4,4',5,5'-HpCB	180L			0.99	M+2/M+4	1.03	0.89-1.21	0.872	0.868 - 0.876
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.43	M+2/M+4	1.07	0.89-1.21	0.712	0.708 - 0.716
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.38	M+2/M+4	1.07	0.89-1.21	0.959	0.954 - 0.964
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			1.00	M+2/M+4	0.94	0.76-1.02	0.818	0.814 - 0.822
13C12-2,3,3',4,4',5,5',6-OxCB	205L			1.29	M+2/M+4	0.95	0.76-1.02	1.009	1.004 - 1.014
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.80	M+2/M+4	0.84	0.65-0.89	1.043	1.038 - 1.048
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.09	M+2/M+4	0.83	0.65-0.89	0.949	0.944 - 0.954

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4A
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_358 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 08:22:54

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
2-MoCB	1			M/M+2	3.11	2.66-3.60	23.1	17.5 - 32.5
4-MoCB	3			M/M+2	3.09	2.66-3.60	24.7	17.5 - 32.5
2,2'-DiCB	4			M/M+2	1.56	1.33-1.79	26.2	17.5 - 32.5
4,4'-DiCB	15			M/M+2	1.53	1.33-1.79	28.2	21.4 - 39.8
2,2',6-TriCB	19			M/M+2	1.03	0.88-1.20	24.6	17.5 - 32.5
3,4,4'-TriCB	37			M/M+2	1.01	0.88-1.20	25.3	17.5 - 32.5
2,2',6,6'-TeCB	54			M/M+2	0.78	0.65-0.89	48.9	35.0 - 65.0
3,3',4,4'-TeCB	77			M/M+2	0.80	0.65-0.89	47.5	35.0 - 65.0
3,4,4',5-TeCB	81			M/M+2	0.78	0.65-0.89	54.5	35.0 - 65.0
2,2',4,6,6'-PeCB	104			M+2/M+4	1.56	1.32-1.78	51.3	35.0 - 65.0
2,3,3',4,4'-PeCB	105			M+2/M+4	1.56	1.32-1.78	52.1	35.0 - 65.0
2,3,4,4',5-PeCB	114			M+2/M+4	1.61	1.32-1.78	52.9	35.0 - 65.0
2,3',4,4',5-PeCB	118			M+2/M+4	1.61	1.32-1.78	51.2	35.0 - 65.0
2',3,4,4',5-PeCB	123			M+2/M+4	1.57	1.32-1.78	55.5	35.0 - 65.0
3,3',4,4',5-PeCB	126			M+2/M+4	1.70	1.32-1.78	53.6	39.0 - 72.4
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.26	1.05-1.43	52.1	35.0 - 65.0
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.26	1.05-1.43	101	70.0 - 130
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.25	1.05-1.43	56.2	35.0 - 65.0
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.29	1.05-1.43	57.8	35.0 - 65.0
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	1.05	0.89-1.21	48.6	35.0 - 65.0
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	1.01	0.89-1.21	50.2	35.0 - 65.0
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.90	0.76-1.02	81.0	58.9 - 110
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.90	0.76-1.02	75.3	52.5 - 97.5
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.78	0.65-0.89	69.5	52.5 - 97.5
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.79	0.65-0.89	73.4	58.7 - 109
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.70	0.59-0.79	77.0	52.5 - 97.5

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4B
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_358 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 08:22:54

LABELLED COMPOUND	IUPAC NO. 1	CO-ELUTIONS	LAB FLAG 2	MZ's FORMING RATIO 3	ION ABUND. RATIO	QC LIMITS 4	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
13C12-2-MoCB	1L			M/M+2	3.22	2.66-3.60	106	50.0 - 150
13C12-4-MoCB	3L			M/M+2	3.11	2.66-3.60	103	50.0 - 150
13C12-2,2'-DiCB	4L			M/M+2	1.58	1.33-1.79	107	50.0 - 150
13C12-4,4'-DiCB	15L			M/M+2	1.57	1.33-1.79	86.4	50.0 - 150
13C12-2,2',6-TriCB	19L			M/M+2	1.05	0.88-1.20	119	50.0 - 150
13C12-3,4,4'-TriCB	37L			M/M+2	1.04	0.88-1.20	79.0	50.0 - 150
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.79	0.65-0.89	101	50.0 - 150
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.78	0.65-0.89	83.8	50.0 - 150
13C12-3,4,4',5'-TeCB	81L			M/M+2	0.78	0.65-0.89	82.4	50.0 - 150
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.59	1.32-1.78	96.7	50.0 - 150
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.59	1.32-1.78	83.2	50.0 - 150
13C12-2,3,4,4',5'-PeCB	114L			M+2/M+4	1.58	1.32-1.78	81.8	50.0 - 150
13C12-2,3',4,4',5'-PeCB	118L			M+2/M+4	1.58	1.32-1.78	85.5	50.0 - 150
13C12-2',3,4,4',5'-PeCB	123L			M+2/M+4	1.59	1.32-1.78	87.3	50.0 - 150
13C12-3,3',4,4',5'-PeCB	126L			M+2/M+4	1.57	1.32-1.78	79.6	50.0 - 150
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.28	1.05-1.43	104	50.0 - 150
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	M+2/M+4	1.27	1.05-1.43	196	100 - 300
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.30	1.05-1.43	100	50.0 - 150
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.28	1.05-1.43	95.6	50.0 - 150
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.06	0.89-1.21	120	50.0 - 150
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	1.06	0.89-1.21	92.7	50.0 - 150
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.92	0.76-1.02	117	50.0 - 150
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.93	0.76-1.02	94.7	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.80	0.65-0.89	103	50.0 - 150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			M+2/M+4	0.82	0.65-0.89	112	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6	1.20	0.99-1.33	110	50.0 - 150

CLEAN-UP STANDARD

13C12-2,4,4'-TriCB	28L			M/M+2	1.04	0.88-1.20	87.6	60.0 - 130
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.58	1.32-1.78	99.9	60.0 - 130
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.04	0.89-1.21	109	60.0 - 130

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6A
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_358 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 08:22:54

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RETENTION TIME REFERENCE	IUPAC NO. ²	RRT	RRT QC LIMITS
2-MoCB	1			13C12-2-MoCB	1L	1.001	0.999-1.004
4-MoCB	3			13C12-4-MoCB	3L	1.001	0.999-1.004
2,2'-DiCB	4			13C12-2,2'-DiCB	4L	1.001	0.999-1.004
4,4'-DiCB	15			13C12-4,4'-DiCB	15L	1.000	0.999-1.003
2,2',6-TriCB	19			13C12-2,2',6-TriCB	19L	1.001	0.999-1.003
3,4,4'-TriCB	37			13C12-3,4,4'-TriCB	37L	1.001	0.999-1.002
2,2',6,6'-TeCB	54			13C12-2,2',6,6'-TeCB	54L	1.001	0.999-1.002
3,3',4,4'-TeCB	77			13C12-3,3',4,4'-TeCB	77L	1.000	1.000-1.001
3,4,4',5-TeCB	81			13C12-3,4,4',5-TeCB	81L	1.000	1.000-1.001
2,2',4,6,6'-PeCB	104			13C12-2,2',4,6,6'-PeCB	104L	1.001	0.999-1.002
2,3,3',4,4'-PeCB	105			13C12-2,3,3',4,4'-PeCB	105L	1.000	1.000-1.001
2,3,4,4',5-PeCB	114			13C12-2,3,4,4',5-PeCB	114L	1.000	1.000-1.001
2,3',4,4',5-PeCB	118			13C12-2,3',4,4',5-PeCB	118L	1.001	1.000-1.001
2',3,4,4',5-PeCB	123			13C12-2',3,4,4',5-PeCB	123L	1.000	1.000-1.001
3,3',4,4',5-PeCB	126			13C12-3,3',4,4',5-PeCB	126L	1.000	1.000-1.001
2,2',4,4',6,6'-HxCB	155			13C12-2,2',4,4',6,6'-HxCB	155L	1.001	0.999-1.002
2,3,3',4,4',5-HxCB	156	156 + 157	C	13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB	156L/157L	1.000	0.998-1.003
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3',4,4',5,5'-HxCB	167			13C12-2,3',4,4',5,5'-HxCB	167L	1.000	1.000-1.001
3,3',4,4',5,5'-HxCB	169			13C12-3,3',4,4',5,5'-HxCB	169L	1.000	1.000-1.001
2,2',3,4',5,6,6'-HpCB	188			13C12-2,2',3,4',5,6,6'-HpCB	188L	1.001	1.000-1.001
2,3,3',4,4',5,5'-HpCB	189			13C12-2,3,3',4,4',5,5'-HpCB	189L	1.001	1.000-1.001
2,2',3,3',5,5',6,6'-OcCB	202			13C12-2,2',3,3',5,5',6,6'-OcCB	202L	1.000	1.000-1.001
2,3,3',4,4',5,5',6-OcCB	205			13C12-2,3,3',4,4',5,5',6-OcCB	205L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6-NoCB	206			13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	1.000	1.000-1.001
2,2',3,3',4,5,5',6,6'-NoCB	208			13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	1.001	1.000-1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	1.000	1.000-1.001

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) Suffix "L" indicates labeled compound

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6B
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009 VER Data Filename: PB9C_358 S: 1
Instrument ID: HR GC/MS Analysis Date: 25-Nov-2009
GC Column ID: SPB OCTYL Analysis Time: 08:22:54

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RETENTION TIME REFERENCE	IUPAC NO. ¹	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			13C12-2,5-DiCB	9L	0.722	0.691-0.753
13C12-4-MoCB	3L			13C12-2,5-DiCB	9L	0.860	0.829-0.891
13C12-2,2'-DiCB	4L			13C12-2,5-DiCB	9L	0.875	0.843-0.906
13C12-4,4'-DiCB	15L			13C12-2,5-DiCB	9L	1.253	1.222-1.284
13C12-2,2',6-TriCB	19L			13C12-2,5-DiCB	9L	1.072	1.041-1.103
13C12-3,4,4'-TriCB	37L			13C12-2,2',5,5'-TeCB	52L	1.092	1.072-1.112
13C12-2,2',6,6'-TeCB	54L			13C12-2,2',5,5'-TeCB	52L	0.812	0.799-0.826
13C12-3,3',4,4'-TeCB	77L			13C12-2,2',5,5'-TeCB	52L	1.396	1.382-1.409
13C12-3,4,4',5-TeCB	81L			13C12-2,2',5,5'-TeCB	52L	1.372	1.359-1.386
13C12-2,2',4,6,6'-PeCB	104L			13C12-2,2',4,5,5'-PeCB	101L	0.809	0.798-0.819
13C12-2,3,3',4,4'-PeCB	105L			13C12-2,2',4,5,5'-PeCB	101L	1.201	1.191-1.211
13C12-2,3,4,4',5-PeCB	114L			13C12-2,2',4,5,5'-PeCB	101L	1.180	1.169-1.190
13C12-2,3',4,4',5-PeCB	118L			13C12-2,2',4,5,5'-PeCB	101L	1.162	1.152-1.172
13C12-2',3,4,4',5-PeCB	123L			13C12-2,2',4,5,5'-PeCB	101L	1.152	1.141-1.162
13C12-3,3',4,4',5-PeCB	126L			13C12-2,2',4,5,5'-PeCB	101L	1.302	1.291-1.312
13C12-2,2',4,4',6,6'-HxCB	155L			13C12-2,2',3,4,4',5'-HxCB	138L	0.785	0.777-0.793
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	13C12-2,2',3,4,4',5'-HxCB	138L	1.108	1.099-1.116
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L				
13C12-2,3',4,4',5,5'-HxCB	167L			13C12-2,2',3,4,4',5'-HxCB	138L	1.078	1.069-1.086
13C12-3,3',4,4',5,5'-HxCB	169L			13C12-2,2',3,4,4',5'-HxCB	138L	1.191	1.183-1.200
13C12-2,2',3,4',5,6,6'-HpCB	188L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.712	0.705-0.718
13C12-2,3,3',4,4',5,5'-HpCB	189L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.959	0.952-0.965
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.818	0.811-0.824
13C12-2,3,3',4,4',5,5',6-OcCB	205L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.009	1.000-1.019
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.043	1.034-1.053
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.949	0.943-0.955
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.075	1.065-1.084

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			13C12-2,2',5,5'-TeCB	52L	0.924	0.911-0.938
13C12-2,3,3',5,5'-PeCB	111L			13C12-2,2',4,5,5'-PeCB	101L	1.087	1.077-1.097
13C12-2,2',3,3',5,5',6-HpCB	178L			13C12-2,2',3,4,4',5'-HxCB	138L	1.012	1.003-1.020

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL

CAL Data Filename: PB9C_358 S: 1
Analysis Date: 25-Nov-2009
Analysis Time: 08:22:54

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3-MoCB	2			1.03	M/M+2	3.16	2.66-3.60	0.988	0.984 - 0.991
2,3-DiCB	5			1.09	M/M+2	1.56	1.33-1.79	1.197	1.194 - 1.201
2,3'-DiCB	6			1.25	M/M+2	1.57	1.33-1.79	1.176	1.172 - 1.179
2,4-DiCB	7			1.25	M/M+2	1.57	1.33-1.79	1.157	1.153 - 1.160
2,4'-DiCB	8			1.36	M/M+2	1.56	1.33-1.79	1.207	1.203 - 1.210
2,5-DiCB	9			1.27	M/M+2	1.55	1.33-1.79	1.145	1.141 - 1.148
2,6-DiCB	10			1.43	M/M+2	1.57	1.33-1.79	1.014	1.011 - 1.018
3,3'-DiCB	11			1.13	M/M+2	1.55	1.33-1.79	0.969	0.967 - 0.972
3,4-DiCB	12	12 + 13	C	1.13	M/M+2	1.55	1.33-1.79	0.985	0.982 - 0.987
3,4'-DiCB	13	12 + 13	C12						
3,5-DiCB	14			1.16	M/M+2	1.57	1.33-1.79	0.925	0.922 - 0.927
2,2',3-TriCB	16			0.79	M/M+2	1.04	0.88-1.20	1.165	1.162 - 1.168
2,2',4-TriCB	17			0.92	M/M+2	1.05	0.88-1.20	1.136	1.134 - 1.139
2,2',5-TriCB	18	18 + 30	C	1.09	M/M+2	1.06	0.88-1.20	1.111	1.108 - 1.114
2,3,3'-TriCB	20	20 + 28	C	1.27	M/M+2	1.03	0.88-1.20	0.848	0.845 - 0.851
2,3,4-TriCB	21	21 + 33	C	1.34	M/M+2	1.02	0.88-1.20	0.856	0.853 - 0.859
2,3,4'-TriCB	22			1.15	M/M+2	1.01	0.88-1.20	0.872	0.870 - 0.874
2,3,5-TriCB	23			1.23	M/M+2	1.03	0.88-1.20	1.280	1.277 - 1.283
2,3,6-TriCB	24			1.24	M/M+2	1.05	0.88-1.20	1.158	1.155 - 1.161
2,3',4-TriCB	25			1.44	M/M+2	1.00	0.88-1.20	0.825	0.823 - 0.827
2,3',5-TriCB	26	26 + 29	C	1.26	M/M+2	1.01	0.88-1.20	1.299	1.294 - 1.304
2,3',6-TriCB	27			1.29	M/M+2	1.06	0.88-1.20	1.150	1.147 - 1.153
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			1.35	M/M+2	1.01	0.88-1.20	0.836	0.835 - 0.838
2,4',6-TriCB	32			1.33	M/M+2	1.04	0.88-1.20	1.196	1.193 - 1.199
2',3,4-TriCB	33	21 + 33	C21						
2',3,5-TriCB	34			1.19	M/M+2	1.02	0.88-1.20	1.271	1.268 - 1.274
3,3',4-TriCB	35			1.09	M/M+2	1.01	0.88-1.20	0.985	0.983 - 0.987
3,3',5-TriCB	36			1.23	M/M+2	1.03	0.88-1.20	0.931	0.929 - 0.933
3,4,5-TriCB	38			1.25	M/M+2	1.02	0.88-1.20	0.967	0.965 - 0.969
3,4',5-TriCB	39			1.21	M/M+2	1.01	0.88-1.20	0.945	0.944 - 0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.88	M/M+2	0.79	0.65-0.89	1.333	1.329 - 1.337
2,2',3,4-TeCB	41	40 + 41 + 71	C40						
2,2',3,4'-TeCB	42			0.86	M/M+2	0.79	0.65-0.89	1.310	1.308 - 1.313
2,2',3,5-TeCB	43			0.74	M/M+2	0.79	0.65-0.89	1.244	1.242 - 1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.97	M/M+2	0.78	0.65-0.89	1.284	1.280 - 1.288
2,2',3,6-TeCB	45	45 + 51	C	0.91	M/M+2	0.79	0.65-0.89	1.146	1.142 - 1.150
2,2',3,6'-TeCB	46			0.80	M/M+2	0.78	0.65-0.89	1.160	1.158 - 1.163
2,2',4,4'-TeCB	47	44 + 47 + 65	C44						
2,2',4,5-TeCB	48			0.88	M/M+2	0.79	0.65-0.89	1.271	1.268 - 1.273
2,2',4,5'-TeCB	49	49 + 69	C	1.04	M/M+2	0.79	0.65-0.89	1.254	1.250 - 1.258
2,2',4,6-TeCB	50	50 + 53	C	0.93	M/M+2	0.78	0.65-0.89	1.110	1.106 - 1.114
2,2',4,6'-TeCB	51	45 + 51	C45						
2,2',5,5'-TeCB	52			0.94	M/M+2	0.77	0.65-0.89	1.232	1.230 - 1.235
2,2',5,6'-TeCB	53	50 + 53	C50						
2,3,3',4-TeCB	55			1.01	M/M+2	0.80	0.65-0.89	0.889	0.888 - 0.891
2,3,3',4'-TeCB	56			1.03	M/M+2	0.79	0.65-0.89	0.905	0.903 - 0.906



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,3,3',5-TeCB	57			1.11	M/M+2	0.80	0.65-0.89	0.843	0.842 - 0.845
2,3,3',5'-TeCB	58			1.10	M/M+2	0.79	0.65-0.89	0.850	0.849 - 0.852
2,3,3',6-TeCB	59	59 + 62 + 75	C	1.15	M/M+2	0.78	0.65-0.89	1.299	1.295 - 1.303
2,3,4,4'-TeCB	60			0.99	M/M+2	0.77	0.65-0.89	0.911	0.909 - 0.912
2,3,4,5-TeCB	61	61 + 70 + 74 + 76		1.10	M/M+2	0.78	0.65-0.89	0.874	0.871 - 0.877
2,3,4,6-TeCB	62	59 + 62 + 75	C59						
2,3,4',5-TeCB	63			1.13	M/M+2	0.79	0.65-0.89	0.864	0.862 - 0.865
2,3,4',6-TeCB	64			1.21	M/M+2	0.79	0.65-0.89	1.347	1.344 - 1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44						
2,3',4,4'-TeCB	66			1.08	M/M+2	0.78	0.65-0.89	0.884	0.882 - 0.885
2,3',4,5-TeCB	67			1.29	M/M+2	0.78	0.65-0.89	0.856	0.854 - 0.857
2,3',4,5'-TeCB	68			1.11	M/M+2	0.78	0.65-0.89	0.830	0.829 - 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			1.14	M/M+2	0.77	0.65-0.89	0.822	0.821 - 0.824
2,3',5',6-TeCB	73			1.19	M/M+2	0.79	0.65-0.89	1.239	1.236 - 1.241
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',4,5-TeCB	78			0.97	M/M+2	0.78	0.65-0.89	0.987	0.985 - 0.988
3,3',4,5'-TeCB	79			1.23	M/M+2	0.78	0.65-0.89	0.970	0.968 - 0.971
3,3',5,5'-TeCB	80			1.12	M/M+2	0.81	0.65-0.89	0.923	0.922 - 0.925
2,2',3,3',4-PeCB	82			0.78	M+2/M+4	1.57	1.32-1.78	0.934	0.933 - 0.936
2,2',3,3',5-PeCB	83	83 + 99	C	0.83	M+2/M+4	1.60	1.32-1.78	0.884	0.881 - 0.886
2,2',3,3',6-PeCB	84			0.79	M+2/M+4	1.62	1.32-1.78	1.164	1.162 - 1.166
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	1.00	M+2/M+4	1.57	1.32-1.78	0.919	0.917 - 0.922
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	0.99	M+2/M+4	1.58	1.32-1.78	0.900	0.897 - 0.904
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3,4,6-PeCB	88	88 + 91	C	0.88	M+2/M+4	1.61	1.32-1.78	1.153	1.149 - 1.156
2,2',3,4,6'-PeCB	89			0.83	M+2/M+4	1.58	1.32-1.78	1.184	1.182 - 1.185
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	0.98	M+2/M+4	1.57	1.32-1.78	0.868	0.866 - 0.871
2,2',3,4',6-PeCB	91	88 + 91	C88						
2,2',3,5,5'-PeCB	92			0.85	M+2/M+4	1.57	1.32-1.78	0.853	0.851 - 0.854
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	0.92	M+2/M+4	1.57	1.32-1.78	1.130	1.119 - 1.141
2,2',3,5,6'-PeCB	94			0.82	M+2/M+4	1.59	1.32-1.78	1.102	1.100 - 1.104
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93						
2,2',3,6,6'-PeCB	96			1.13	M+2/M+4	1.59	1.32-1.78	1.017	1.014 - 1.020
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			0.99	M+2/M+4	1.57	1.32-1.78	1.093	1.091 - 1.095
2,3,3',4,5-PeCB	106			1.02	M+2/M+4	1.60	1.32-1.78	1.004	1.003 - 1.005
2,3,3',4',5-PeCB	107	107 + 124	C	0.99	M+2/M+4	1.60	1.32-1.78	0.991	0.988 - 0.993
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3,3',4,6-PeCB	109			1.05	M+2/M+4	1.54	1.32-1.78	0.997	0.995 - 0.998
2,3,3',4',6-PeCB	110	110 + 115	C	1.12	M+2/M+4	1.56	1.32-1.78	0.926	0.924 - 0.929
2,3,3',5,5'-PeCB	111			1.11	M+2/M+4	1.56	1.32-1.78	0.944	0.943 - 0.946
2,3,3',5,6-PeCB	112			1.18	M+2/M+4	1.58	1.32-1.78	0.889	0.888 - 0.891
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90						
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',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3',4,5,5'-PeCB	120			1.16	M+2/M+4	1.54	1.32-1.78	0.957	0.956 - 0.959
2,3',4,5',6-PeCB	121			1.11	M+2/M+4	1.57	1.32-1.78	1.198	1.196 - 1.200
2',3,3',4,5-PeCB	122			0.91	M+2/M+4	1.60	1.32-1.78	1.011	1.009 - 1.012
2',3,4,5,5'-PeCB	124	107 + 124	C107						
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86						



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3,3',4,5,5'-PeCB	127			0.89	M+2/M+4	1.68	1.32-1.78	1.040	1.039 - 1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.94	M+2/M+4	1.24	1.05-1.43	0.959	0.957 - 0.961
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	0.95	M+2/M+4	1.26	1.05-1.43	0.930	0.928 - 0.933
2,2',3,3',4,5'-HxCB	130			0.78	M+2/M+4	1.24	1.05-1.43	0.914	0.912 - 0.915
2,2',3,3',4,6-HxCB	131			0.84	M+2/M+4	1.24	1.05-1.43	1.161	1.159 - 1.162
2,2',3,3',4,6'-HxCB	132			0.81	M+2/M+4	1.26	1.05-1.43	1.176	1.173 - 1.179
2,2',3,3',5,5'-HxCB	133			0.88	M+2/M+4	1.25	1.05-1.43	1.192	1.190 - 1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	0.82	M+2/M+4	1.28	1.05-1.43	1.143	1.141 - 1.146
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.94	M+2/M+4	1.27	1.05-1.43	1.108	1.102 - 1.113
2,2',3,3',6,6'-HxCB	136			1.23	M+2/M+4	1.28	1.05-1.43	1.026	1.024 - 1.027
2,2',3,4,4',5-HxCB	137			0.76	M+2/M+4	1.24	1.05-1.43	0.918	0.917 - 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	0.91	M+2/M+4	1.26	1.05-1.43	1.154	1.151 - 1.157
2,2',3,4,4',6'-HxCB	140	139 + 140	C139						
2,2',3,4,5,5'-HxCB	141			0.91	M+2/M+4	1.27	1.05-1.43	0.904	0.902 - 0.905
2,2',3,4,5,6-HxCB	142			0.85	M+2/M+4	1.23	1.05-1.43	1.166	1.164 - 1.168
2,2',3,4,5,6'-HxCB	143	134 + 143	C134						
2,2',3,4,5',6-HxCB	144			0.91	M+2/M+4	1.28	1.05-1.43	1.122	1.121 - 1.124
2,2',3,4,6,6'-HxCB	145			1.16	M+2/M+4	1.31	1.05-1.43	1.035	1.034 - 1.037
2,2',3,4',5,5'-HxCB	146			1.02	M+2/M+4	1.24	1.05-1.43	0.884	0.883 - 0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	0.95	M+2/M+4	1.25	1.05-1.43	1.134	1.132 - 1.137
2,2',3,4',5,6'-HxCB	148			0.89	M+2/M+4	1.26	1.05-1.43	1.084	1.082 - 1.086
2,2',3,4',5,6-HxCB	149	147 + 149	C147						
2,2',3,4',6,6'-HxCB	150			1.23	M+2/M+4	1.27	1.05-1.43	1.013	1.012 - 1.015
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135						
2,2',3,5,6,6'-HxCB	152			1.26	M+2/M+4	1.27	1.05-1.43	1.008	1.007 - 1.010
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.10	M+2/M+4	1.28	1.05-1.43	0.899	0.897 - 0.900
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135						
2,3,3',4,4',6-HxCB	158			1.20	M+2/M+4	1.25	1.05-1.43	0.938	0.937 - 0.939
2,3,3',4,5,5'-HxCB	159			1.06	M+2/M+4	1.25	1.05-1.43	0.982	0.981 - 0.983
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129						
2,3,3',4,5',6-HxCB	161			1.15	M+2/M+4	1.26	1.05-1.43	0.887	0.886 - 0.888
2,3,3',4',5,5'-HxCB	162			1.03	M+2/M+4	1.28	1.05-1.43	0.989	0.988 - 0.990
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129						
2,3,3',4',5',6-HxCB	164			1.15	M+2/M+4	1.25	1.05-1.43	0.922	0.920 - 0.923
2,3,3',5,5',6-HxCB	165			1.01	M+2/M+4	1.25	1.05-1.43	0.878	0.877 - 0.879
2,3,4,4',5,6-HxCB	166	128 + 166	C128						
2,3',4,4',5,6-HxCB	168	153 + 168	C153						
2,2',3,3',4,4',5-HpCB	170			0.72	M+2/M+4	1.04	0.89-1.21	0.936	0.935 - 0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.76	M+2/M+4	1.02	0.89-1.21	1.163	1.161 - 1.165
2,2',3,3',4,5,5'-HpCB	172			0.75	M+2/M+4	1.06	0.89-1.21	0.897	0.896 - 0.898
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171						
2,2',3,3',4,5,6'-HpCB	174			0.83	M+2/M+4	1.06	0.89-1.21	1.134	1.133 - 1.136
2,2',3,3',4,5',6-HpCB	175			0.84	M+2/M+4	1.06	0.89-1.21	1.103	1.102 - 1.104
2,2',3,3',4,6,6'-HpCB	176			1.14	M+2/M+4	1.07	0.89-1.21	1.035	1.034 - 1.037
2,2',3,3',4',5,6-HpCB	177			0.84	M+2/M+4	1.07	0.89-1.21	1.147	1.146 - 1.148
2,2',3,3',5,5',6-HpCB	178			0.86	M+2/M+4	1.05	0.89-1.21	1.085	1.084 - 1.087
2,2',3,3',5,6,6'-HpCB	179			1.18	M+2/M+4	1.04	0.89-1.21	1.011	1.010 - 1.012
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	0.94	M+2/M+4	1.05	0.89-1.21	0.909	0.908 - 0.910
2,2',3,4,4',5,6-HpCB	181			0.81	M+2/M+4	1.05	0.89-1.21	1.157	1.156 - 1.158
2,2',3,4,4',5,6'-HpCB	182			0.89	M+2/M+4	1.05	0.89-1.21	1.115	1.114 - 1.117
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	0.86	M+2/M+4	1.05	0.89-1.21	1.128	1.127 - 1.130
2,2',3,4,4',6,6'-HpCB	184			1.20	M+2/M+4	1.05	0.89-1.21	1.024	1.023 - 1.026
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183						
2,2',3,4,5,6,6'-HpCB	186			1.09	M+2/M+4	1.04	0.89-1.21	1.048	1.046 - 1.049
2,2',3,4',5,5',6-HpCB	187			0.89	M+2/M+4	1.06	0.89-1.21	1.110	1.109 - 1.111
2,3,3',4,4',5,6-HpCB	190			0.93	M+2/M+4	1.04	0.89-1.21	0.947	0.946 - 0.948
2,3,3',4,4',5',6-HpCB	191			0.98	M+2/M+4	1.05	0.89-1.21	0.917	0.916 - 0.918
2,3,3',4,5,5',6-HpCB	192			0.89	M+2/M+4	1.06	0.89-1.21	0.902	0.902 - 0.903
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180						
2,2',3,3',4,4',5,5'-OcCB	194			0.78	M+2/M+4	0.91	0.76-1.02	0.991	0.990 - 0.992
2,2',3,3',4,4',5,6-OcCB	195			0.73	M+2/M+4	0.90	0.76-1.02	0.946	0.945 - 0.947
2,2',3,3',4,4',5,6'-OcCB	196			0.79	M+2/M+4	0.90	0.76-1.02	0.915	0.915 - 0.916



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,2',3,3',4,4',6,6'-O ₂ CB	197	197 + 200	C	1.08	M+2/M+4	0.90	0.76-1.02	1.045	1.043 - 1.048
2,2',3,3',4,5,5',6-O ₂ CB	198	198 + 199	C	0.77	M+2/M+4	0.91	0.76-1.02	1.114	1.112 - 1.115
2,2',3,3',4,5,5',6'-O ₂ CB	199	198 + 199	C198						
2,2',3,3',4,5,6,6'-O ₂ CB	200	197 + 200	C197						
2,2',3,3',4,5',6,6'-O ₂ CB	201			1.10	M+2/M+4	0.89	0.76-1.02	1.023	1.021 - 1.025
2,2',3,4,4',5,5',6-O ₂ CB	203			0.79	M+2/M+4	0.91	0.76-1.02	0.919	0.918 - 0.920
2,2',3,4,4',5,6,6'-O ₂ CB	204			1.08	M+2/M+4	0.89	0.76-1.02	1.038	1.037 - 1.039
2,2',3,3',4,4',5,6,6'-NoCB	207			1.12	M+2/M+4	0.78	0.65-0.89	1.020	1.019 - 1.021

(1) Where applicable, custom lab flags have been used on this report.

(2) See Table 8, Method 1668A, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist

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PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 01-Sep-2009

CAL Data Filename: PB9C_358 S: 1

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009

GC Column ID: SPB OCTYL

Analysis Time: 08:22:54

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RRF	MZ's FORMING RATIO ³	ION ABUND. RATIO	RATIO QC LIMITS ⁴	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			1.04	M/M+2	3.22	2.66-3.60	0.722	0.706 - 0.738
13C12-4-MoCB	3L			0.99	M/M+2	3.11	2.66-3.60	0.860	0.844 - 0.876
13C12-2,2'-DiCB	4L			0.69	M/M+2	1.58	1.33-1.79	0.875	0.859 - 0.890
13C12-4,4'-DiCB	15L			0.87	M/M+2	1.57	1.33-1.79	1.253	1.237 - 1.269
13C12-2,2',6-TriCB	19L			0.58	M/M+2	1.05	0.88-1.20	1.072	1.056 - 1.088
13C12-3,4,4'-TriCB	37L			1.39	M/M+2	1.04	0.88-1.20	1.092	1.082 - 1.102
13C12-2,2',6,6'-TeCB	54L			1.35	M/M+2	0.79	0.65-0.89	0.812	0.805 - 0.819
13C12-3,3',4,4'-TeCB	77L			1.09	M/M+2	0.78	0.65-0.89	1.396	1.389 - 1.402
13C12-3,4,4',5-TeCB	81L			1.09	M/M+2	0.78	0.65-0.89	1.372	1.366 - 1.379
13C12-2,2',4,4',6,6'-PeCB	104L			1.17	M+2/M+4	1.59	1.32-1.78	0.809	0.804 - 0.814
13C12-2,3,3',4,4'-PeCB	105L			1.11	M+2/M+4	1.59	1.32-1.78	1.201	1.196 - 1.206
13C12-2,3,4,4',5-PeCB	114L			1.14	M+2/M+4	1.58	1.32-1.78	1.180	1.174 - 1.185
13C12-2,3',4,4',5-PeCB	118L			1.19	M+2/M+4	1.58	1.32-1.78	1.162	1.157 - 1.167
13C12-2',3,4,4',5-PeCB	123L			1.22	M+2/M+4	1.59	1.32-1.78	1.152	1.146 - 1.157
13C12-3,3',4,4',5-PeCB	126L			0.95	M+2/M+4	1.57	1.32-1.78	1.302	1.296 - 1.307
13C12-2,2',4,4',6,6'-HxCB	155L			1.47	M+2/M+4	1.28	1.05-1.43	0.785	0.781 - 0.789
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	1.19	M+2/M+4	1.27	1.05-1.43	1.108	1.104 - 1.112
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L						
13C12-2,3',4,4',5,5'-HxCB	167L			1.20	M+2/M+4	1.30	1.05-1.43	1.078	1.073 - 1.082
13C12-3,3',4,4',5,5'-HxCB	169L			1.06	M+2/M+4	1.28	1.05-1.43	1.191	1.187 - 1.195
13C12-2,2',3,3',4,4',5-HpCB	170L			1.05	M+2/M+4	1.07	0.89-1.21	0.897	0.893 - 0.901
13C12-2,2',3,4,4',5,5'-HpCB	180L			1.30	M+2/M+4	1.07	0.89-1.21	0.872	0.868 - 0.876
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.92	M+2/M+4	1.06	0.89-1.21	0.712	0.708 - 0.716
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.32	M+2/M+4	1.06	0.89-1.21	0.959	0.954 - 0.964
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			1.46	M+2/M+4	0.92	0.76-1.02	0.818	0.814 - 0.822
13C12-2,3,3',4,4',5,5',6-OcCB	205L			1.25	M+2/M+4	0.93	0.76-1.02	1.009	1.004 - 1.014
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.86	M+2/M+4	0.80	0.65-0.89	1.043	1.038 - 1.048
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.26	M+2/M+4	0.82	0.65-0.89	0.949	0.944 - 0.954

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4A
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 28-Nov-2009 VER Data Filename: PB9C_376 S: 1
Instrument ID: HR GC/MS Analysis Date: 07-Dec-2009
GC Column ID: SPB OCTYL Analysis Time: 20:48:38

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
2-MoCB	1			M/M+2	2.97	2.66-3.60	21.4	17.5 - 32.5
4-MoCB	3			M/M+2	2.97	2.66-3.60	24.5	17.5 - 32.5
2,2'-DiCB	4			M/M+2	1.46	1.33-1.79	22.9	17.5 - 32.5
4,4'-DiCB	15			M/M+2	1.49	1.33-1.79	25.3	21.4 - 39.8
2,2',6-TriCB	19			M/M+2	1.05	0.88-1.20	27.8	17.5 - 32.5
3,4,4'-TriCB	37			M/M+2	1.00	0.88-1.20	21.8	17.5 - 32.5
2,2',6,6'-TeCB	54			M/M+2	0.79	0.65-0.89	51.9	35.0 - 65.0
3,3',4,4'-TeCB	77			M/M+2	0.75	0.65-0.89	44.9	35.0 - 65.0
3,4,4',5-TeCB	81			M/M+2	0.74	0.65-0.89	50.3	35.0 - 65.0
2,2',4,6,6'-PeCB	104			M+2/M+4	1.58	1.32-1.78	53.1	35.0 - 65.0
2,3,3',4,4'-PeCB	105			M+2/M+4	1.52	1.32-1.78	48.3	35.0 - 65.0
2,3,4,4',5-PeCB	114			M+2/M+4	1.48	1.32-1.78	47.3	35.0 - 65.0
2,3',4,4',5-PeCB	118			M+2/M+4	1.50	1.32-1.78	46.9	35.0 - 65.0
2',3,4,4',5-PeCB	123			M+2/M+4	1.33	1.32-1.78	48.3	35.0 - 65.0
3,3',4,4',5-PeCB	126			M+2/M+4	1.51	1.32-1.78	46.7	39.0 - 72.4
2,2',4,4',6,6'-HxCB	155			M+2/M+4	1.26	1.05-1.43	53.1	35.0 - 65.0
2,3,3',4,4',5-HxCB	156	156 + 157	C	M+2/M+4	1.27	1.05-1.43	108	70.0 - 130
2,3,3',4,4',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5'-HxCB	167			M+2/M+4	1.25	1.05-1.43	57.7	35.0 - 65.0
3,3',4,4',5,5'-HxCB	169			M+2/M+4	1.32	1.05-1.43	57.4	35.0 - 65.0
2,2',3,4',5,6,6'-HpCB	188			M+2/M+4	1.03	0.89-1.21	50.5	35.0 - 65.0
2,3,3',4,4',5,5'-HpCB	189			M+2/M+4	1.02	0.89-1.21	45.2	35.0 - 65.0
2,2',3,3',5,5',6,6'-OcCB	202			M+2/M+4	0.92	0.76-1.02	81.0	58.9 - 110
2,3,3',4,4',5,5',6-OcCB	205			M+2/M+4	0.89	0.76-1.02	71.4	52.5 - 97.5
2,2',3,3',4,4',5,5',6-NoCB	206			M+2/M+4	0.78	0.65-0.89	71.4	52.5 - 97.5
2,2',3,3',4,5,5',6,6'-NoCB	208			M+2/M+4	0.79	0.65-0.89	75.8	58.7 - 109
2,2',3,3',4,4',5,5',6,6'-DeCB	209			M+2/M+4	0.70	0.59-0.79	74.9	52.5 - 97.5

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 4B
PCB CONGENER CALIBRATION VERIFICATION

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 28-Nov-2009 VER Data Filename: PB9C_376 S: 1
Instrument ID: HR GC/MS Analysis Date: 07-Dec-2009
GC Column ID: SPB OCTYL Analysis Time: 20:48:38

LABELLED COMPOUND	IUPAC NO. 1	CO-ELUTIONS	LAB FLAG 2	MZ's FORMING RATIO 3	ION ABUND. RATIO	QC LIMITS 4	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
13C12-2-MoCB	1L			M/M+2	3.13	2.66-3.60	119	50.0 - 150
13C12-4-MoCB	3L			M/M+2	3.13	2.66-3.60	107	50.0 - 150
13C12-2,2'-DiCB	4L			M/M+2	1.55	1.33-1.79	101	50.0 - 150
13C12-4,4'-DiCB	15L			M/M+2	1.53	1.33-1.79	83.3	50.0 - 150
13C12-2,2',6-TriCB	19L			M/M+2	1.06	0.88-1.20	91.4	50.0 - 150
13C12-3,4,4'-TriCB	37L			M/M+2	1.03	0.88-1.20	84.4	50.0 - 150
13C12-2,2',6,6'-TeCB	54L			M/M+2	0.80	0.65-0.89	114	50.0 - 150
13C12-3,3',4,4'-TeCB	77L			M/M+2	0.78	0.65-0.89	77.0	50.0 - 150
13C12-3,4,4',5-TeCB	81L			M/M+2	0.78	0.65-0.89	77.4	50.0 - 150
13C12-2,2',4,6,6'-PeCB	104L			M+2/M+4	1.61	1.32-1.78	96.4	50.0 - 150
13C12-2,3,3',4,4'-PeCB	105L			M+2/M+4	1.56	1.32-1.78	81.6	50.0 - 150
13C12-2,3,4,4',5-PeCB	114L			M+2/M+4	1.54	1.32-1.78	85.0	50.0 - 150
13C12-2,3',4,4',5-PeCB	118L			M+2/M+4	1.53	1.32-1.78	83.8	50.0 - 150
13C12-2',3,4,4',5-PeCB	123L			M+2/M+4	1.53	1.32-1.78	83.7	50.0 - 150
13C12-3,3',4,4',5-PeCB	126L			M+2/M+4	1.54	1.32-1.78	78.1	50.0 - 150
13C12-2,2',4,4',6,6'-HxCB	155L			M+2/M+4	1.28	1.05-1.43	97.7	50.0 - 150
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	M+2/M+4	1.29	1.05-1.43	191	100 - 300
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L	M+2/M+4	1.27	1.05-1.43	97.0	50.0 - 150
13C12-2,3',4,4',5,5'-HxCB	167L			M+2/M+4	1.29	1.05-1.43	93.8	50.0 - 150
13C12-3,3',4,4',5,5'-HxCB	169L			M+2/M+4	1.06	0.89-1.21	88.6	50.0 - 150
13C12-2,2',3,4',5,6,6'-HpCB	188L			M+2/M+4	1.06	0.89-1.21	83.0	50.0 - 150
13C12-2,3,3',4,4',5,5'-HpCB	189L			M+2/M+4	0.94	0.76-1.02	76.1	50.0 - 150
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			M+2/M+4	0.92	0.76-1.02	100	50.0 - 150
13C12-2,3,3',4,4',5,5',6-OxCB	205L			M+2/M+4	0.80	0.65-0.89	102	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			M+2/M+4	0.80	0.65-0.89	102	50.0 - 150
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			M+2/M+4	1.17	0.99-1.33	98.7	50.0 - 150
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			M+4/M+6				

CLEAN-UP STANDARD

13C12-2,4,4'-TriCB	28L			M/M+2	1.02	0.88-1.20	99.6	60.0 - 130
13C12-2,3,3',5,5'-PeCB	111L			M+2/M+4	1.58	1.32-1.78	92.2	60.0 - 130
13C12-2,2',3,3',5,5',6-HpCB	178L			M+2/M+4	1.05	0.89-1.21	98.8	60.0 - 130

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6A
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 28-Nov-2009

VER Data Filename: PB9C_376 S: 1

Instrument ID: HR GC/MS

Analysis Date: 07-Dec-2009

GC Column ID: SPB OCTYL

Analysis Time: 20:48:38

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RETENTION TIME REFERENCE	IUPAC NO. ²	RRT	RRT QC LIMITS
2-MoCB	1			13C12-2-MoCB	1L	1.000	0.999-1.004
4-MoCB	3			13C12-4-MoCB	3L	1.001	0.999-1.004
2,2'-DiCB	4			13C12-2,2'-DiCB	4L	1.001	0.999-1.004
4,4'-DiCB	15			13C12-4,4'-DiCB	15L	1.000	0.999-1.003
2,2',6-TriCB	19			13C12-2,2',6-TriCB	19L	1.001	0.999-1.003
3,4,4'-TriCB	37			13C12-3,4,4'-TriCB	37L	1.001	0.999-1.002
2,2',6,6'-TeCB	54			13C12-2,2',6,6'-TeCB	54L	1.001	0.999-1.002
3,3',4,4'-TeCB	77			13C12-3,3',4,4'-TeCB	77L	1.000	1.000-1.001
3,4,4',5-TeCB	81			13C12-3,4,4',5-TeCB	81L	1.000	1.000-1.001
2,2',4,6,6'-PeCB	104			13C12-2,2',4,6,6'-PeCB	104L	1.000	0.999-1.002
2,3,3',4,4'-PeCB	105			13C12-2,3,3',4,4'-PeCB	105L	1.000	1.000-1.001
2,3,4,4',5-PeCB	114			13C12-2,3,4,4',5-PeCB	114L	1.000	1.000-1.001
2,3',4,4',5-PeCB	118			13C12-2,3',4,4',5-PeCB	118L	1.000	1.000-1.001
2',3,4,4',5-PeCB	123			13C12-2',3,4,4',5-PeCB	123L	1.000	1.000-1.001
3,3',4,4',5-PeCB	126			13C12-3,3',4,4',5-PeCB	126L	1.000	1.000-1.001
2,2',4,4',6,6'-HxCB	155			13C12-2,2',4,4',6,6'-HxCB	155L	1.001	0.999-1.002
2,3,3',4,4',5-HxCB	156	156 + 157	C	13C12-2,3,3',4,4',5-HxCB and 13C12-2,3,3',4,4',5'-HxCB	156L/157L	1.000	0.998-1.003
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3',4,4',5,5'-HxCB	167			13C12-2,3',4,4',5,5'-HxCB	167L	1.000	1.000-1.001
3,3',4,4',5,5'-HxCB	169			13C12-3,3',4,4',5,5'-HxCB	169L	1.000	1.000-1.001
2,2',3,4',5,6,6'-HpCB	188			13C12-2,2',3,4',5,6,6'-HpCB	188L	1.000	1.000-1.001
2,3,3',4,4',5,5'-HpCB	189			13C12-2,3,3',4,4',5,5'-HpCB	189L	1.000	1.000-1.001
2,2',3,3',5,5',6,6'-OcCB	202			13C12-2,2',3,3',5,5',6,6'-OcCB	202L	1.000	1.000-1.001
2,3,3',4,4',5,5',6-OcCB	205			13C12-2,3,3',4,4',5,5',6-OcCB	205L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6-NoCB	206			13C12-2,2',3,3',4,4',5,5',6-NoCB	206L	1.000	1.000-1.001
2,2',3,3',4,5,5',6,6'-NoCB	208			13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L	1.000	1.000-1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L	1.000	1.000-1.001

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

(2) Suffix "L" indicates labeled compound

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



Form 6B
PCB CONGENER RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 28-Nov-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL

VER Data Filename: PB9C_376 S: 1
Analysis Date: 07-Dec-2009
Analysis Time: 20:48:38

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RETENTION TIME REFERENCE	IUPAC NO. ¹	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			13C12-2,5-DiCB	9L	0.722	0.691-0.754
13C12-4-MoCB	3L			13C12-2,5-DiCB	9L	0.860	0.829-0.891
13C12-2,2'-DiCB	4L			13C12-2,5-DiCB	9L	0.876	0.844-0.907
13C12-4,4'-DiCB	15L			13C12-2,5-DiCB	9L	1.253	1.221-1.284
13C12-2,2',6-TriCB	19L			13C12-2,5-DiCB	9L	1.072	1.041-1.103
13C12-3,4,4'-TriCB	37L			13C12-2,2',5,5'-TeCB	52L	1.092	1.072-1.112
13C12-2,2',6,6'-TeCB	54L			13C12-2,2',5,5'-TeCB	52L	0.812	0.799-0.826
13C12-3,3',4,4'-TeCB	77L			13C12-2,2',5,5'-TeCB	52L	1.397	1.383-1.410
13C12-3,4,4',5-TeCB	81L			13C12-2,2',5,5'-TeCB	52L	1.373	1.359-1.386
13C12-2,2',4,6,6'-PeCB	104L			13C12-2,2',4,5,5'-PeCB	101L	0.809	0.799-0.819
13C12-2,3,3',4,4'-PeCB	105L			13C12-2,2',4,5,5'-PeCB	101L	1.201	1.190-1.211
13C12-2,3,4,4',5-PeCB	114L			13C12-2,2',4,5,5'-PeCB	101L	1.180	1.169-1.190
13C12-2,3',4,4',5-PeCB	118L			13C12-2,2',4,5,5'-PeCB	101L	1.162	1.151-1.172
13C12-2',3,4,4',5-PeCB	123L			13C12-2,2',4,5,5'-PeCB	101L	1.151	1.141-1.162
13C12-3,3',4,4',5-PeCB	126L			13C12-2,2',4,5,5'-PeCB	101L	1.302	1.291-1.312
13C12-2,2',4,4',6,6'-HxCB	155L			13C12-2,2',3,4,4',5'-HxCB	138L	0.785	0.777-0.793
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	13C12-2,2',3,4,4',5'-HxCB	138L	1.107	1.099-1.116
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L				
13C12-2,3',4,4',5,5'-HxCB	167L			13C12-2,2',3,4,4',5'-HxCB	138L	1.077	1.069-1.086
13C12-3,3',4,4',5,5'-HxCB	169L			13C12-2,2',3,4,4',5'-HxCB	138L	1.191	1.183-1.199
13C12-2,2',3,4',5,6,6'-HpCB	188L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.712	0.705-0.718
13C12-2,3,3',4,4',5,5'-HpCB	189L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.959	0.953-0.965
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.818	0.811-0.824
13C12-2,3,3',4,4',5,5',6-OcCB	205L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.009	1.000-1.019
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.043	1.034-1.053
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	0.949	0.943-0.955
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			13C12-2,2',3,3',4,4',5,5'-OcCB	194L	1.075	1.065-1.084

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			13C12-2,2',5,5'-TeCB	52L	0.925	0.911-0.938
13C12-2,3,3',5,5'-PeCB	111L			13C12-2,2',4,5,5'-PeCB	101L	1.087	1.076-1.097
13C12-2,2',3,3',5,5',6-HpCB	178L			13C12-2,2',3,4,4',5'-HxCB	138L	1.011	1.003-1.019

(1) Suffix "L" indicates labeled compound

(2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Jason MacKenzie _____ QA/QC Chemist



PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 28-Nov-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL

CAL Data Filename: PB9C_376 S: 1
Analysis Date: 07-Dec-2009
Analysis Time: 20:48:38

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3-MoCB	2			0.87	M/M+2	2.97	2.66-3.60	0.988	0.984 - 0.992
2,3-DiCB	5			0.97	M/M+2	1.49	1.33-1.79	1.195	1.192 - 1.199
2,3'-DiCB	6			1.09	M/M+2	1.49	1.33-1.79	1.174	1.170 - 1.178
2,4-DiCB	7			1.08	M/M+2	1.49	1.33-1.79	1.155	1.151 - 1.159
2,4'-DiCB	8			1.17	M/M+2	1.48	1.33-1.79	1.205	1.201 - 1.209
2,5-DiCB	9			1.10	M/M+2	1.48	1.33-1.79	1.143	1.139 - 1.147
2,6-DiCB	10			1.20	M/M+2	1.46	1.33-1.79	1.013	1.010 - 1.017
3,3'-DiCB	11			0.98	M/M+2	1.48	1.33-1.79	0.969	0.967 - 0.972
3,4-DiCB	12	12 + 13	C	0.98	M/M+2	1.48	1.33-1.79	0.986	0.983 - 0.988
3,4'-DiCB	13	12 + 13	C12						
3,5-DiCB	14			1.02	M/M+2	1.51	1.33-1.79	0.925	0.923 - 0.928
2,2',3-TriCB	16			0.95	M/M+2	0.98	0.88-1.20	1.166	1.163 - 1.168
2,2',4-TriCB	17			1.09	M/M+2	1.05	0.88-1.20	1.136	1.133 - 1.139
2,2',5-TriCB	18	18 + 30	C	1.28	M/M+2	1.05	0.88-1.20	1.110	1.107 - 1.113
2,3,3'-TriCB	20	20 + 28	C	0.94	M/M+2	0.99	0.88-1.20	0.848	0.845 - 0.851
2,3,4-TriCB	21	21 + 33	C	1.00	M/M+2	0.98	0.88-1.20	0.856	0.853 - 0.859
2,3,4'-TriCB	22			0.84	M/M+2	0.99	0.88-1.20	0.872	0.870 - 0.874
2,3,5-TriCB	23			0.96	M/M+2	0.96	0.88-1.20	1.279	1.277 - 1.282
2,3,6-TriCB	24			1.42	M/M+2	1.12	0.88-1.20	1.158	1.155 - 1.161
2,3',4-TriCB	25			1.10	M/M+2	0.98	0.88-1.20	0.824	0.823 - 0.826
2,3',5-TriCB	26	26 + 29	C	0.96	M/M+2	1.00	0.88-1.20	1.299	1.294 - 1.304
2,3',6-TriCB	27			1.54	M/M+2	1.07	0.88-1.20	1.150	1.147 - 1.153
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			1.01	M/M+2	0.99	0.88-1.20	0.836	0.834 - 0.838
2,4',6-TriCB	32			1.02	M/M+2	0.99	0.88-1.20	1.196	1.193 - 1.199
2',3,4-TriCB	33	21 + 33	C21						
2',3,5-TriCB	34			0.94	M/M+2	1.04	0.88-1.20	1.271	1.268 - 1.274
3,3',4-TriCB	35			0.87	M/M+2	1.00	0.88-1.20	0.985	0.983 - 0.987
3,3',5-TriCB	36			0.96	M/M+2	0.97	0.88-1.20	0.931	0.929 - 0.933
3,4,5-TriCB	38			0.89	M/M+2	1.00	0.88-1.20	0.966	0.965 - 0.968
3,4',5-TriCB	39			0.90	M/M+2	0.99	0.88-1.20	0.945	0.943 - 0.947
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.93	M/M+2	0.78	0.65-0.89	1.334	1.330 - 1.338
2,2',3,4-TeCB	41	40 + 41 + 71	C40						
2,2',3,4'-TeCB	42			0.93	M/M+2	0.78	0.65-0.89	1.310	1.308 - 1.313
2,2',3,5-TeCB	43			0.83	M/M+2	0.77	0.65-0.89	1.244	1.242 - 1.247
2,2',3,5'-TeCB	44	44 + 47 + 65	C	1.03	M/M+2	0.78	0.65-0.89	1.284	1.280 - 1.288
2,2',3,6-TeCB	45	45 + 51	C	0.98	M/M+2	0.78	0.65-0.89	1.146	1.141 - 1.150
2,2',3,6'-TeCB	46			0.85	M/M+2	0.78	0.65-0.89	1.160	1.158 - 1.163
2,2',4,4'-TeCB	47	44 + 47 + 65	C44						
2,2',4,5-TeCB	48			0.94	M/M+2	0.77	0.65-0.89	1.271	1.269 - 1.274
2,2',4,5'-TeCB	49	49 + 69	C	1.13	M/M+2	0.78	0.65-0.89	1.255	1.251 - 1.259
2,2',4,6-TeCB	50	50 + 53	C	1.02	M/M+2	0.78	0.65-0.89	1.110	1.106 - 1.114
2,2',4,6'-TeCB	51	45 + 51	C45						
2,2',5,5'-TeCB	52			1.00	M/M+2	0.78	0.65-0.89	1.232	1.229 - 1.234
2,2',5,6'-TeCB	53	50 + 53	C50						
2,3,3',4-TeCB	55			0.84	M/M+2	0.74	0.65-0.89	0.890	0.888 - 0.891
2,3,3',4'-TeCB	56			0.81	M/M+2	0.74	0.65-0.89	0.905	0.903 - 0.906



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,3,3',5-TeCB	57			0.88	M/M+2	0.75	0.65-0.89	0.843	0.842 - 0.845
2,3,3',5'-TeCB	58			0.87	M/M+2	0.74	0.65-0.89	0.851	0.850 - 0.853
2,3,3',6-TeCB	59	59 + 62 + 75	C	1.25	M/M+2	0.78	0.65-0.89	1.299	1.295 - 1.303
2,3,4,4'-TeCB	60			0.80	M/M+2	0.75	0.65-0.89	0.911	0.909 - 0.912
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C	0.89	M/M+2	0.74	0.65-0.89	0.873	0.871 - 0.876
2,3,4,6-TeCB	62	59 + 62 + 75	C59						
2,3,4',5-TeCB	63			0.93	M/M+2	0.76	0.65-0.89	0.864	0.862 - 0.865
2,3,4',6-TeCB	64			1.31	M/M+2	0.78	0.65-0.89	1.346	1.344 - 1.349
2,3,5,6-TeCB	65	44 + 47 + 65	C44						
2,3',4,4'-TeCB	66			0.90	M/M+2	0.74	0.65-0.89	0.884	0.883 - 0.886
2,3',4,5-TeCB	67			1.02	M/M+2	0.75	0.65-0.89	0.856	0.855 - 0.857
2,3',4,5'-TeCB	68			0.91	M/M+2	0.74	0.65-0.89	0.831	0.829 - 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			0.93	M/M+2	0.74	0.65-0.89	0.822	0.820 - 0.823
2,3',5',6-TeCB	73			1.26	M/M+2	0.78	0.65-0.89	1.239	1.237 - 1.242
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',4,5-TeCB	78			0.78	M/M+2	0.75	0.65-0.89	0.987	0.985 - 0.988
3,3',4,5'-TeCB	79			0.96	M/M+2	0.73	0.65-0.89	0.970	0.968 - 0.971
3,3',5,5'-TeCB	80			0.94	M/M+2	0.75	0.65-0.89	0.923	0.921 - 0.924
2,2',3,3',4-PeCB	82			0.85	M+2/M+4	1.55	1.32-1.78	0.934	0.933 - 0.936
2,2',3,3',5-PeCB	83	83 + 99	C	1.00	M+2/M+4	1.57	1.32-1.78	0.884	0.882 - 0.887
2,2',3,3',6-PeCB	84			0.93	M+2/M+4	1.59	1.32-1.78	1.163	1.161 - 1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C	1.16	M+2/M+4	1.56	1.32-1.78	0.920	0.917 - 0.922
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	1.16	M+2/M+4	1.57	1.32-1.78	0.900	0.897 - 0.904
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86						
2,2',3,4,6-PeCB	88	88 + 91	C	1.06	M+2/M+4	1.58	1.32-1.78	1.152	1.149 - 1.156
2,2',3,4,6'-PeCB	89			0.98	M+2/M+4	1.57	1.32-1.78	1.183	1.181 - 1.185
2,2',3,4',5-PeCB	90	90 + 101 + 113	C	1.17	M+2/M+4	1.56	1.32-1.78	0.869	0.866 - 0.871
2,2',3,4',6-PeCB	91	88 + 91	C88						
2,2',3,5,5'-PeCB	92			1.01	M+2/M+4	1.55	1.32-1.78	0.853	0.852 - 0.854
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C	1.11	M+2/M+4	1.56	1.32-1.78	1.129	1.118 - 1.140
2,2',3,5,6'-PeCB	94			0.97	M+2/M+4	1.54	1.32-1.78	1.102	1.100 - 1.104
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93						
2,2',3,6,6'-PeCB	96			1.52	M+2/M+4	1.58	1.32-1.78	1.017	1.014 - 1.020
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			1.21	M+2/M+4	1.60	1.32-1.78	1.093	1.091 - 1.095
2,3,3',4,5-PeCB	106			0.85	M+2/M+4	1.50	1.32-1.78	1.004	1.003 - 1.005
2,3,3',4',5-PeCB	107	107 + 124	C	0.77	M+2/M+4	1.50	1.32-1.78	0.991	0.988 - 0.993
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3,3',4,6-PeCB	109			0.79	M+2/M+4	1.70	1.32-1.78	0.997	0.996 - 0.999
2,3,3',4',6-PeCB	110	110 + 115	C	1.30	M+2/M+4	1.56	1.32-1.78	0.926	0.924 - 0.929
2,3,3',5,5'-PeCB	111			1.26	M+2/M+4	1.57	1.32-1.78	0.945	0.944 - 0.946
2,3,3',5,6-PeCB	112			1.36	M+2/M+4	1.58	1.32-1.78	0.889	0.888 - 0.891
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90						
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',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86						
2,3',4,5,5'-PeCB	120			1.30	M+2/M+4	1.58	1.32-1.78	0.958	0.956 - 0.959
2,3',4,5',6-PeCB	121			1.34	M+2/M+4	1.58	1.32-1.78	1.197	1.195 - 1.199
2',3,3',4,5-PeCB	122			0.71	M+2/M+4	1.49	1.32-1.78	1.011	1.009 - 1.012
2',3,4,5,5'-PeCB	124	107 + 124	C107						
2',3,4,5,6'-PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86						



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
3,3',4,5,5'-PeCB	127			0.75	M+2/M+4	1.51	1.32-1.78	1.040	1.039 - 1.042
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.88	M+2/M+4	1.25	1.05-1.43	0.958	0.956 - 0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	0.89	M+2/M+4	1.26	1.05-1.43	0.930	0.927 - 0.933
2,2',3,3',4,5'-HxCB	130			0.71	M+2/M+4	1.27	1.05-1.43	0.913	0.912 - 0.914
2,2',3,3',4,6-HxCB	131			0.76	M+2/M+4	1.25	1.05-1.43	1.161	1.159 - 1.162
2,2',3,3',4,6'-HxCB	132			0.71	M+2/M+4	1.24	1.05-1.43	1.176	1.174 - 1.179
2,2',3,3',5,5'-HxCB	133			0.78	M+2/M+4	1.27	1.05-1.43	1.192	1.190 - 1.194
2,2',3,3',5,6-HxCB	134	134 + 143	C	0.78	M+2/M+4	1.23	1.05-1.43	1.143	1.140 - 1.145
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C	0.98	M+2/M+4	1.25	1.05-1.43	1.107	1.101 - 1.113
2,2',3,3',6,6'-HxCB	136			1.36	M+2/M+4	1.26	1.05-1.43	1.026	1.025 - 1.028
2,2',3,4,4',5-HxCB	137			0.79	M+2/M+4	1.26	1.05-1.43	0.919	0.917 - 0.920
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129						
2,2',3,4,4',6-HxCB	139	139 + 140	C	0.83	M+2/M+4	1.25	1.05-1.43	1.154	1.151 - 1.156
2,2',3,4,4',6'-HxCB	140	139 + 140	C139						
2,2',3,4,5,5'-HxCB	141			0.82	M+2/M+4	1.25	1.05-1.43	0.903	0.902 - 0.904
2,2',3,4,5,6-HxCB	142			0.76	M+2/M+4	1.27	1.05-1.43	1.166	1.164 - 1.167
2,2',3,4,5,6'-HxCB	143	134 + 143	C134						
2,2',3,4,5',6-HxCB	144			0.94	M+2/M+4	1.24	1.05-1.43	1.122	1.121 - 1.124
2,2',3,4,6,6'-HxCB	145			1.26	M+2/M+4	1.27	1.05-1.43	1.035	1.034 - 1.037
2,2',3,4',5,5'-HxCB	146			0.87	M+2/M+4	1.24	1.05-1.43	0.883	0.882 - 0.885
2,2',3,4',5,6-HxCB	147	147 + 149	C	0.85	M+2/M+4	1.26	1.05-1.43	1.134	1.132 - 1.137
2,2',3,4',5,6'-HxCB	148			0.95	M+2/M+4	1.27	1.05-1.43	1.084	1.082 - 1.086
2,2',3,4',5,6-HxCB	149	147 + 149	C147						
2,2',3,4',6,6'-HxCB	150			1.33	M+2/M+4	1.29	1.05-1.43	1.013	1.012 - 1.015
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135						
2,2',3,5,6,6'-HxCB	152			1.43	M+2/M+4	1.27	1.05-1.43	1.008	1.007 - 1.010
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.01	M+2/M+4	1.28	1.05-1.43	0.899	0.897 - 0.901
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135						
2,3,3',4,4',6-HxCB	158			1.14	M+2/M+4	1.28	1.05-1.43	0.938	0.937 - 0.939
2,3,3',4,5,5'-HxCB	159			1.02	M+2/M+4	1.26	1.05-1.43	0.982	0.981 - 0.983
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129						
2,3,3',4,5',6-HxCB	161			1.13	M+2/M+4	1.26	1.05-1.43	0.887	0.886 - 0.888
2,3,3',4',5,5'-HxCB	162			1.01	M+2/M+4	1.26	1.05-1.43	0.989	0.988 - 0.990
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129						
2,3,3',4',5',6-HxCB	164			1.02	M+2/M+4	1.27	1.05-1.43	0.921	0.920 - 0.922
2,3,3',5,5',6-HxCB	165			0.96	M+2/M+4	1.27	1.05-1.43	0.878	0.877 - 0.879
2,3,4,4',5,6-HxCB	166	128 + 166	C128						
2,3',4,4',5,6-HxCB	168	153 + 168	C153						
2,2',3,3',4,4',5-HpCB	170			0.77	M+2/M+4	1.03	0.89-1.21	0.936	0.935 - 0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	0.81	M+2/M+4	1.05	0.89-1.21	1.163	1.161 - 1.166
2,2',3,3',4,5,5'-HpCB	172			0.79	M+2/M+4	1.05	0.89-1.21	0.897	0.896 - 0.898
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171						
2,2',3,3',4,5,6'-HpCB	174			0.88	M+2/M+4	1.04	0.89-1.21	1.134	1.133 - 1.136
2,2',3,3',4,5',6-HpCB	175			0.91	M+2/M+4	1.04	0.89-1.21	1.102	1.101 - 1.104
2,2',3,3',4,6,6'-HpCB	176			1.23	M+2/M+4	1.05	0.89-1.21	1.034	1.033 - 1.036
2,2',3,3',4',5,6-HpCB	177			0.88	M+2/M+4	1.06	0.89-1.21	1.146	1.145 - 1.148
2,2',3,3',5,5',6-HpCB	178			0.89	M+2/M+4	1.04	0.89-1.21	1.085	1.084 - 1.087
2,2',3,3',5,6,6'-HpCB	179			1.25	M+2/M+4	1.04	0.89-1.21	1.011	1.009 - 1.012
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C	0.99	M+2/M+4	1.04	0.89-1.21	0.909	0.908 - 0.910
2,2',3,4,4',5,6-HpCB	181			0.85	M+2/M+4	1.07	0.89-1.21	1.156	1.155 - 1.158
2,2',3,4,4',5,6'-HpCB	182			0.93	M+2/M+4	1.04	0.89-1.21	1.115	1.114 - 1.117
2,2',3,4,4',5',6-HpCB	183	183 + 185	C	0.90	M+2/M+4	1.04	0.89-1.21	1.128	1.127 - 1.129
2,2',3,4,4',6,6'-HpCB	184			1.26	M+2/M+4	1.03	0.89-1.21	1.024	1.023 - 1.026
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183						
2,2',3,4,5,6,6'-HpCB	186			1.15	M+2/M+4	1.04	0.89-1.21	1.048	1.046 - 1.049
2,2',3,4',5,5',6-HpCB	187			0.96	M+2/M+4	1.04	0.89-1.21	1.110	1.109 - 1.111
2,3,3',4,4',5,6-HpCB	190			1.04	M+2/M+4	1.04	0.89-1.21	0.947	0.946 - 0.948
2,3,3',4,4',5',6-HpCB	191			1.09	M+2/M+4	1.05	0.89-1.21	0.917	0.916 - 0.918
2,3,3',4,5,5',6-HpCB	192			0.95	M+2/M+4	1.03	0.89-1.21	0.903	0.902 - 0.904
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180						
2,2',3,3',4,4',5,5'-OcCB	194			0.71	M+2/M+4	0.89	0.76-1.02	0.991	0.990 - 0.992
2,2',3,3',4,4',5,6-OcCB	195			0.67	M+2/M+4	0.88	0.76-1.02	0.946	0.945 - 0.947
2,2',3,3',4,4',5,6'-OcCB	196			0.77	M+2/M+4	0.92	0.76-1.02	0.916	0.915 - 0.917



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	RRF	MZ's FORMING RATIO ²	ION ABUND. RATIO	RATIO QC LIMITS ³	RRT	RRT QC LIMITS
2,2',3,3',4,4',6,6'-O ₂ CB	197	197 + 200	C	1.05	M+2/M+4	0.92	0.76-1.02	1.046	1.043 - 1.048
2,2',3,3',4,5,5',6-O ₂ CB	198	198 + 199	C	0.74	M+2/M+4	0.91	0.76-1.02	1.114	1.112 - 1.116
2,2',3,3',4,5,5',6'-O ₂ CB	199	198 + 199	C198						
2,2',3,3',4,5,6,6'-O ₂ CB	200	197 + 200	C197						
2,2',3,3',4,5',6,6'-O ₂ CB	201			1.10	M+2/M+4	0.91	0.76-1.02	1.022	1.020 - 1.024
2,2',3,4,4',5,5',6-O ₂ CB	203			0.80	M+2/M+4	0.92	0.76-1.02	0.919	0.918 - 0.920
2,2',3,4,4',5,6,6'-O ₂ CB	204			1.06	M+2/M+4	0.91	0.76-1.02	1.038	1.037 - 1.040
2,2',3,3',4,4',5,6,6'-No ₂ CB	207			1.14	M+2/M+4	0.78	0.65-0.89	1.020	1.019 - 1.021

- (1) Where applicable, custom lab flags have been used on this report.
(2) See Table 8, Method 1668A, for m/z specifications.
(3) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____Ye Zong_____ QA/QC Chemist

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PCB CONGENER INITIAL CALIBRATION RELATIVE RESPONSES,
ION ABUNDANCE RATIOS, AND RELATIVE RETENTION TIMES

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Initial Calibration Date: 28-Nov-2009

CAL Data Filename: PB9C_376 S: 1

Instrument ID: HR GC/MS

Analysis Date: 07-Dec-2009

GC Column ID: SPB OCTYL

Analysis Time: 20:48:38

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	RRF	MZ's FORMING RATIO ³	ION ABUND. RATIO	RATIO QC LIMITS ⁴	RRT	RRT QC LIMITS
13C12-2-MoCB	1L			1.16	M/M+2	3.13	2.66-3.60	0.722	0.707 - 0.738
13C12-4-MoCB	3L			1.07	M/M+2	3.13	2.66-3.60	0.860	0.844 - 0.876
13C12-2,2'-DiCB	4L			0.67	M/M+2	1.55	1.33-1.79	0.876	0.860 - 0.891
13C12-4,4'-DiCB	15L			0.87	M/M+2	1.53	1.33-1.79	1.253	1.237 - 1.268
13C12-2,2',6-TriCB	19L			0.62	M/M+2	1.06	0.88-1.20	1.072	1.056 - 1.088
13C12-3,4,4'-TriCB	37L			1.15	M/M+2	1.03	0.88-1.20	1.092	1.082 - 1.102
13C12-2,2',6,6'-TeCB	54L			1.41	M/M+2	0.80	0.65-0.89	0.812	0.806 - 0.819
13C12-3,3',4,4'-TeCB	77L			0.86	M/M+2	0.78	0.65-0.89	1.397	1.390 - 1.403
13C12-3,4,4',5-TeCB	81L			0.88	M/M+2	0.78	0.65-0.89	1.373	1.366 - 1.379
13C12-2,2',4,6,6'-PeCB	104L			1.31	M+2/M+4	1.61	1.32-1.78	0.809	0.804 - 0.814
13C12-2,3,3',4,4'-PeCB	105L			0.84	M+2/M+4	1.56	1.32-1.78	1.201	1.196 - 1.206
13C12-2,3,4,4',5-PeCB	114L			0.86	M+2/M+4	1.54	1.32-1.78	1.180	1.174 - 1.185
13C12-2,3',4,4',5-PeCB	118L			0.88	M+2/M+4	1.53	1.32-1.78	1.162	1.157 - 1.167
13C12-2',3,4,4',5-PeCB	123L			0.88	M+2/M+4	1.53	1.32-1.78	1.151	1.146 - 1.157
13C12-3,3',4,4',5-PeCB	126L			0.75	M+2/M+4	1.54	1.32-1.78	1.302	1.297 - 1.307
13C12-2,2',4,4',6,6'-HxCB	155L			1.78	M+2/M+4	1.28	1.05-1.43	0.785	0.781 - 0.789
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	1.18	M+2/M+4	1.29	1.05-1.43	1.107	1.103 - 1.112
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L						
13C12-2,3',4,4',5,5'-HxCB	167L			1.18	M+2/M+4	1.27	1.05-1.43	1.077	1.073 - 1.082
13C12-3,3',4,4',5,5'-HxCB	169L			1.08	M+2/M+4	1.29	1.05-1.43	1.191	1.187 - 1.195
13C12-2,2',3,3',4,4',5-HpCB	170L			1.09	M+2/M+4	1.08	0.89-1.21	0.897	0.893 - 0.901
13C12-2,2',3,4,4',5,5'-HpCB	180L			1.33	M+2/M+4	1.04	0.89-1.21	0.872	0.868 - 0.876
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.97	M+2/M+4	1.06	0.89-1.21	0.712	0.708 - 0.716
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.14	M+2/M+4	1.06	0.89-1.21	0.959	0.954 - 0.964
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			1.53	M+2/M+4	0.94	0.76-1.02	0.818	0.814 - 0.822
13C12-2,3,3',4,4',5,5',6-OcCB	205L			1.35	M+2/M+4	0.92	0.76-1.02	1.009	1.004 - 1.014
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.95	M+2/M+4	0.80	0.65-0.89	1.043	1.038 - 1.048
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			1.32	M+2/M+4	0.80	0.65-0.89	0.949	0.944 - 0.954

- (1) Suffix "L" indicates labeled compound
- (2) Where applicable, custom lab flags have been used on this report.
- (3) See Table 8, Method 1668A, for m/z specifications.
- (4) Ion Abundance Ratio Control Limits as specified in Table 8, Method 1668A.

Approved by: _____ Ye Zong _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 12:28:08

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2

Sample Size: 10.2 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_331 S: 5

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 78.0
% Lipid: 1.42

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.202	0.0571	3.05	1.000
3-MoCB	2		B	0.236	0.0640	3.04	0.988
4-MoCB	3		K B	0.244	0.0658	4.60	1.001
2,2'-DiCB	4			0.746	0.390	1.66	1.000
2,3-DiCB	5		U		0.259		
2,3'-DiCB	6		K	0.520	0.224	1.98	1.173
2,4-DiCB	7		U		0.226		
2,4'-DiCB	8		B	2.73	0.203	1.50	1.206
2,5-DiCB	9		U		0.223		
2,6-DiCB	10		U		0.214		
3,3'-DiCB	11		B	3.82	0.256	1.66	0.970
3,4-DiCB	12	12 + 13	C U		0.256		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.245		
4,4'-DiCB	15		U		0.243		
2,2',3-TriCB	16			1.69	0.0516	0.90	1.165
2,2',4-TriCB	17		B	1.78	0.0489	0.97	1.136
2,2',5-TriCB	18	18 + 30	C B	7.90	0.0489	1.11	1.112
2,2',6-TriCB	19			0.693	0.0579	1.10	1.001
2,3,3'-TriCB	20	20 + 28	C B	48.4	0.0548	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	9.52	0.0510	0.96	0.857
2,3,4'-TriCB	22		B	10.2	0.0607	0.99	0.872
2,3,5-TriCB	23		U		0.0555		
2,3,6-TriCB	24			0.198	0.0489	0.96	1.158
2,3',4-TriCB	25			2.83	0.0489	1.04	0.824
2,3',5-TriCB	26	26 + 29	C B	6.74	0.0551	1.02	1.299
2,3',6-TriCB	27			0.831	0.0489	1.13	1.150
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		B	26.4	0.0505	1.01	0.836
2,4',6-TriCB	32			1.86	0.0490	0.94	1.195
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			0.078	0.0548	1.01	1.270
3,3',4-TriCB	35		U		0.0702		
3,3',5-TriCB	36		U		0.0577		
3,4,4'-TriCB	37		B	1.83	0.0580	0.97	1.001
3,4,5-TriCB	38			0.152	0.0573	0.99	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	0.335	0.0592	0.70	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	12.2	0.0489	0.76	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	13.6	0.0489	0.78	1.310
2,2',3,5'-TeCB	43			1.54	0.0489	0.74	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	71.5	0.0489	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	3.20	0.0489	0.79	1.145
2,2',3,6'-TeCB	46			0.760	0.0489	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	4.77	0.0489	0.72	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	41.5	0.0489	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	4.55	0.0489	0.82	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	108	0.0489	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.0489		
2,3,3',4'-TeCB	55		U		0.875		
2,3,3',4'-TeCB	56		B	24.9	0.875	0.76	0.906
2,3,3',5'-TeCB	57		U		0.799		
2,3,3',5'-TeCB	58		U		0.761		
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	6.92	0.0489	0.76	1.300
2,3,4,4'-TeCB	60		B	26.2	0.879	0.74	0.912
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	140	0.782	0.76	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			7.07	0.790	0.75	0.864
2,3,4',6'-TeCB	64		B	18.7	0.0489	0.80	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	93.3	0.793	0.75	0.884
2,3',4,5'-TeCB	67			2.11	0.716	0.77	0.856
2,3',4,5'-TeCB	68			2.75	0.764	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			3.18	0.771	0.78	0.822
2,3',5',6'-TeCB	73		U		0.0489		
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		B	7.75	0.685	0.75	1.000
3,3',4,5'-TeCB	78		U		0.934		
3,3',4,5'-TeCB	79			2.51	0.718	0.76	0.970
3,3',5,5'-TeCB	80		U		0.796		
3,4,4',5'-TeCB	81		U		0.855		
2,2',3,3',4'-PeCB	82			13.5	0.235	1.54	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	215	0.207	1.61	0.886
2,2',3,3',6'-PeCB	84		B	23.2	0.215	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	81.8	0.179	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	153	0.176	1.58	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	20.9	0.190	1.54	1.154
2,2',3,4,6'-PeCB	89		K	0.459	0.206	1.93	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	378	0.173	1.58	0.870
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	78.2	0.205	1.60	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	151	0.181	1.59	1.121
2,2',3,5,6'-PeCB	94			0.679	0.200	1.66	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			0.219	0.0489	1.39	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			4.08	0.168	1.51	1.093
2,2',4,6,6'-PeCB	104		K	0.065	0.0489	1.99	1.001
2,3,3',4,4'-PeCB	105		B	157	1.08	1.54	1.000
2,3,3',4,5-PeCB	106		U		1.25		
2,3,3',4',5-PeCB	107	107 + 124	C	11.4	1.34	1.48	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			57.0	1.32	1.53	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	201	0.157	1.58	0.925
2,3,3',5,5'-PeCB	111			2.78	0.156	1.38	0.945
2,3,3',5,6-PeCB	112		U		0.153		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			8.24	1.29	1.52	1.001
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		B	424	1.22	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			8.21	0.157	1.50	0.958
2,3',4,5',6-PeCB	121			0.953	0.154	1.57	1.198
2',3,3',4,5-PeCB	122			2.54	1.49	1.70	1.010
2',3,4,4',5-PeCB	123			6.54	1.31	1.58	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			1.99	1.56	1.48	1.000
3,3',4,5,5'-PeCB	127		U		1.43		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	283	0.832	1.25	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	1580	0.826	1.26	0.928
2,2',3,3',4,5'-HxCB	130			70.2	1.07	1.27	0.914
2,2',3,3',4,6-HxCB	131			3.63	0.906	1.11	1.161
2,2',3,3',4,6'-HxCB	132			108	0.980	1.26	1.176
2,2',3,3',5,5'-HxCB	133			39.5	0.904	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	24.7	0.934	1.22	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	286	0.0615	1.29	1.105
2,2',3,3',6,6'-HxCB	136		B	35.5	0.0489	1.26	1.026
2,2',3,4,4',5-HxCB	137			30.3	0.994	1.24	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	17.0	0.848	1.31	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			67.7	0.895	1.30	0.904
2,2',3,4,5,6-HxCB	142		U		0.959		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			22.3	0.0647	1.31	1.123
2,2',3,4,6,6'-HxCB	145		K	0.120	0.0489	0.70	1.035
2,2',3,4',5,5'-HxCB	146		B	382	0.818	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	488	0.828	1.24	1.134
2,2',3,4',5,6'-HxCB	148			5.39	0.0616	1.24	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1.16	0.0489	1.20	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.112	0.0489	1.42	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	2390	0.696	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			1.77	0.0489	1.10	1.000
2,3,3',4,4',5-HxCB	156	156 + 157	C	86.7	0.862	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	75.6	0.645	1.27	0.938
2,3,3',4,5,5'-HxCB	159			6.30	0.705	1.35	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		0.674		
2,3,3',4',5,5'-HxCB	162			6.53	0.739	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			33.0	0.699	1.25	0.921
2,3,3',5,5',6-HxCB	165			5.45	0.767	1.24	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			51.4	0.643	1.23	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		1.82		
2,2',3,3',4,4',5-HpCB	170			178	0.0521	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	70.9	0.0569	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			35.5	0.0548	1.11	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			97.9	0.0519	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			14.3	0.0525	1.06	1.102
2,2',3,3',4,6,6'-HpCB	176			18.4	0.0489	1.08	1.034
2,2',3,3',4',5,6-HpCB	177			186	0.0499	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			143	0.0516	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179		B	81.7	0.0489	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	592	0.0489	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			1.63	0.0554	1.04	1.157
2,2',3,4,4',5,6'-HpCB	182			4.43	0.0527	1.10	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	228	0.0535	1.04	1.126
2,2',3,4,4',6,6'-HpCB	184		K	2.08	0.0489	1.23	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.0489		
2,2',3,4',5,5',6-HpCB	187		B	1050	0.0492	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			4.07	0.0489	0.99	1.000
2,3,3',4,4',5,5'-HpCB	189			9.66	0.115	1.05	1.001
2,3,3',4,4',5,6-HpCB	190			36.1	0.0489	1.07	0.947
2,3,3',4,4',5',6-HpCB	191			8.02	0.0489	1.10	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.0489		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202			110	0.0607	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		T	135	0.0891	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	19.1	0.0690	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			59.2	0.0637	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			79.5	0.0652	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-2_Form1A_PB9C_331S5_SJ1078263.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 12:28:08

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2

Sample Size: 2.25 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_331 S: 5

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 78.0
% Lipid: 1.42

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.915	0.259	3.05	1.000
3-MoCB	2		B	1.07	0.291	3.04	0.988
4-MoCB	3		K B	1.11	0.299	4.60	1.001
2,2'-DiCB	4			3.39	1.77	1.66	1.000
2,3-DiCB	5		U		1.18		
2,3'-DiCB	6		K	2.37	1.02	1.98	1.173
2,4-DiCB	7		U		1.02		
2,4'-DiCB	8		B	12.4	0.922	1.50	1.206
2,5-DiCB	9		U		1.01		
2,6-DiCB	10		U		0.973		
3,3'-DiCB	11		B	17.3	1.16	1.66	0.970
3,4-DiCB	12	12 + 13	C U		1.16		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.11		
4,4'-DiCB	15		U		1.10		
2,2',3-TriCB	16			7.67	0.235	0.90	1.165
2,2',4-TriCB	17		B	8.06	0.222	0.97	1.136
2,2',5-TriCB	18	18 + 30	C B	35.9	0.222	1.11	1.112
2,2',6-TriCB	19			3.14	0.263	1.10	1.001
2,3,3'-TriCB	20	20 + 28	C B	220	0.249	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	43.2	0.231	0.96	0.857
2,3,4'-TriCB	22		B	46.3	0.276	0.99	0.872
2,3,5-TriCB	23		U		0.252		
2,3,6-TriCB	24			0.902	0.222	0.96	1.158
2,3',4-TriCB	25			12.8	0.222	1.04	0.824
2,3',5-TriCB	26	26 + 29	C B	30.6	0.250	1.02	1.299
2,3',6-TriCB	27			3.78	0.222	1.13	1.150
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		B	120	0.229	1.01	0.836
2,4',6-TriCB	32			8.44	0.222	0.94	1.195
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			0.354	0.249	1.01	1.270
3,3',4-TriCB	35		U		0.319		
3,3',5-TriCB	36		U		0.262		
3,4,4'-TriCB	37		B	8.31	0.264	0.97	1.001
3,4,5-TriCB	38			0.690	0.260	0.99	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	1.52	0.269	0.70	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	55.4	0.222	0.76	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	61.8	0.222	0.78	1.310
2,2',3,5'-TeCB	43			7.02	0.222	0.74	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	325	0.222	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	14.6	0.222	0.79	1.145
2,2',3,6'-TeCB	46			3.45	0.222	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	21.7	0.222	0.72	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	189	0.222	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	20.7	0.222	0.82	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	490	0.222	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.222		
2,3,3',4'-TeCB	55		U		3.98		
2,3,3',4'-TeCB	56		B	113	3.98	0.76	0.906
2,3,3',5'-TeCB	57		U		3.63		
2,3,3',5'-TeCB	58		U		3.45		
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	31.4	0.222	0.76	1.300
2,3,4,4'-TeCB	60		B	119	4.00	0.74	0.912
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	636	3.55	0.76	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			32.1	3.59	0.75	0.864
2,3,4',6'-TeCB	64		B	85.1	0.222	0.80	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	424	3.60	0.75	0.884
2,3',4,5'-TeCB	67			9.60	3.25	0.77	0.856
2,3',4,5'-TeCB	68			12.5	3.47	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			14.4	3.50	0.78	0.822
2,3',5',6'-TeCB	73		U		0.222		
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		B	35.2	3.11	0.75	1.000
3,3',4,5'-TeCB	78		U		4.24		
3,3',4,5'-TeCB	79			11.4	3.26	0.76	0.970
3,3',5,5'-TeCB	80		U		3.62		
3,4,4',5'-TeCB	81		U		3.89		
2,2',3,3',4'-PeCB	82			61.4	1.07	1.54	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	980	0.941	1.61	0.886
2,2',3,3',6'-PeCB	84		B	106	0.980	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	372	0.812	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	696	0.799	1.58	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	94.7	0.864	1.54	1.154
2,2',3,4,6'-PeCB	89		K	2.09	0.934	1.93	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	1710	0.786	1.58	0.870
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	355	0.928	1.60	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	683	0.825	1.59	1.121
2,2',3,5,6'-PeCB	94			3.09	0.909	1.66	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			0.992	0.222	1.39	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			18.6	0.760	1.51	1.093
2,2',4,6,6'-PeCB	104		K	0.295	0.222	1.99	1.001
2,3,3',4,4'-PeCB	105		B	715	4.90	1.54	1.000
2,3,3',4,5-PeCB	106		U		5.68		
2,3,3',4',5-PeCB	107	107 + 124	C	51.8	6.08	1.48	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			259	5.99	1.53	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	915	0.715	1.58	0.925
2,3,3',5,5'-PeCB	111			12.6	0.709	1.38	0.945
2,3,3',5,6-PeCB	112		U		0.696		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			37.4	5.86	1.52	1.001
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		B	1930	5.54	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			37.3	0.715	1.50	0.958
2,3',4,5',6-PeCB	121			4.33	0.702	1.57	1.198
2',3,3',4,5-PeCB	122			11.5	6.77	1.70	1.010
2',3,4,4',5-PeCB	123			29.7	5.95	1.58	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			9.02	7.09	1.48	1.000
3,3',4,5,5'-PeCB	127		U		6.51		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	1280	3.78	1.25	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	7150	3.75	1.26	0.928
2,2',3,3',4,5'-HxCB	130			319	4.86	1.27	0.914
2,2',3,3',4,6-HxCB	131			16.5	4.12	1.11	1.161
2,2',3,3',4,6'-HxCB	132			490	4.45	1.26	1.176
2,2',3,3',5,5'-HxCB	133			179	4.11	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	112	4.24	1.22	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1300	0.279	1.29	1.105
2,2',3,3',6,6'-HxCB	136		B	161	0.222	1.26	1.026
2,2',3,4,4',5-HxCB	137			138	4.52	1.24	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	77.3	3.85	1.31	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			307	4.07	1.30	0.904
2,2',3,4,5,6-HxCB	142		U		4.36		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			101	0.294	1.31	1.123
2,2',3,4,6,6'-HxCB	145		K	0.545	0.222	0.70	1.035
2,2',3,4',5,5'-HxCB	146		B	1730	3.72	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	2220	3.76	1.24	1.134
2,2',3,4',5,6'-HxCB	148			24.5	0.280	1.24	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			5.27	0.222	1.20	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.508	0.222	1.42	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	10800	3.16	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			8.06	0.222	1.10	1.000
2,3,3',4,4',5-HxCB	156	156 + 157	C	394	3.92	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	343	2.93	1.27	0.938
2,3,3',4,5,5'-HxCB	159			28.6	3.20	1.35	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		3.06		
2,3,3',4',5,5'-HxCB	162			29.6	3.36	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			150	3.18	1.25	0.921
2,3,3',5,5',6-HxCB	165			24.7	3.49	1.24	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			233	2.92	1.23	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		8.25		
2,2',3,3',4,4',5-HpCB	170			806	0.237	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	322	0.258	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			161	0.249	1.11	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			445	0.236	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			65.1	0.238	1.06	1.102
2,2',3,3',4,6,6'-HpCB	176			83.8	0.222	1.08	1.034
2,2',3,3',4',5,6-HpCB	177			844	0.227	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			651	0.235	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179		B	371	0.222	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	2690	0.222	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			7.41	0.251	1.04	1.157
2,2',3,4,4',5,6'-HpCB	182			20.1	0.239	1.10	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	1040	0.243	1.04	1.126
2,2',3,4,4',6,6'-HpCB	184		K	9.47	0.222	1.23	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.222		
2,2',3,4',5,5',6-HpCB	187		B	4770	0.224	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			18.5	0.222	0.99	1.000
2,3,3',4,4',5,5'-HpCB	189			43.9	0.523	1.05	1.001
2,3,3',4,4',5,6-HpCB	190			164	0.222	1.07	0.947
2,3,3',4,4',5',6-HpCB	191			36.4	0.222	1.10	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.222		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202			499	0.276	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		T	614	0.405	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	87.0	0.313	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			269	0.289	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			361	0.296	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-2_Form1A_PB9C_331S5_SJ1078263_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 12:28:08

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2

Sample Size: 0.145 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_331 S: 5

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 78.0
% Lipid: 1.42

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	14.2	4.02	3.05	1.000
3-MoCB	2		B	16.6	4.51	3.04	0.988
4-MoCB	3		K B	17.2	4.64	4.60	1.001
2,2'-DiCB	4			52.6	27.5	1.66	1.000
2,3-DiCB	5		U		18.3		
2,3'-DiCB	6		K	36.7	15.8	1.98	1.173
2,4-DiCB	7		U		15.9		
2,4'-DiCB	8		B	192	14.3	1.50	1.206
2,5-DiCB	9		U		15.7		
2,6-DiCB	10		U		15.1		
3,3'-DiCB	11		B	269	18.0	1.66	0.970
3,4-DiCB	12	12 + 13	C U		18.0		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		17.3		
4,4'-DiCB	15		U		17.1		
2,2',3-TriCB	16			119	3.64	0.90	1.165
2,2',4-TriCB	17		B	125	3.45	0.97	1.136
2,2',5-TriCB	18	18 + 30	C B	557	3.45	1.11	1.112
2,2',6-TriCB	19			48.8	4.08	1.10	1.001
2,3,3'-TriCB	20	20 + 28	C B	3410	3.86	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	671	3.59	0.96	0.857
2,3,4'-TriCB	22		B	719	4.28	0.99	0.872
2,3,5-TriCB	23		U		3.91		
2,3,6-TriCB	24			14.0	3.45	0.96	1.158
2,3',4-TriCB	25			199	3.45	1.04	0.824
2,3',5-TriCB	26	26 + 29	C B	475	3.88	1.02	1.299
2,3',6-TriCB	27			58.6	3.45	1.13	1.150
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		B	1860	3.56	1.01	0.836
2,4',6-TriCB	32			131	3.45	0.94	1.195
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			5.50	3.86	1.01	1.270
3,3',4-TriCB	35		U		4.95		
3,3',5-TriCB	36		U		4.07		
3,4,4'-TriCB	37		B	129	4.09	0.97	1.001
3,4,5-TriCB	38			10.7	4.04	0.99	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	23.6	4.17	0.70	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	860	3.45	0.76	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	959	3.45	0.78	1.310
2,2',3,5'-TeCB	43			109	3.45	0.74	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	5040	3.45	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	226	3.45	0.79	1.145
2,2',3,6'-TeCB	46			53.6	3.45	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	336	3.45	0.72	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	2930	3.45	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	321	3.45	0.82	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	7610	3.45	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		3.45		
2,3,3',4'-TeCB	55		U		61.7		
2,3,3',4'-TeCB	56		B	1760	61.7	0.76	0.906
2,3,3',5'-TeCB	57		U		56.3		
2,3,3',5'-TeCB	58		U		53.6		
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	488	3.45	0.76	1.300
2,3,4,4'-TeCB	60		B	1850	62.0	0.74	0.912
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	9870	55.1	0.76	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			498	55.7	0.75	0.864
2,3,4',6'-TeCB	64		B	1320	3.45	0.80	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	6580	55.9	0.75	0.884
2,3',4,5'-TeCB	67			149	50.5	0.77	0.856
2,3',4,5'-TeCB	68			194	53.8	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			224	54.3	0.78	0.822
2,3',5',6'-TeCB	73		U		3.45		
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		B	546	48.3	0.75	1.000
3,3',4,5'-TeCB	78		U		65.8		
3,3',4,5'-TeCB	79			177	50.6	0.76	0.970
3,3',5,5'-TeCB	80		U		56.1		
3,4,4',5'-TeCB	81		U		60.3		
2,2',3,3',4'-PeCB	82			952	16.6	1.54	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	15200	14.6	1.61	0.886
2,2',3,3',6'-PeCB	84		B	1640	15.2	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	5770	12.6	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	10800	12.4	1.58	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1470	13.4	1.54	1.154
2,2',3,4,6'-PeCB	89		K	32.4	14.5	1.93	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	26600	12.2	1.58	0.870
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	5510	14.4	1.60	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	10600	12.8	1.59	1.121
2,2',3,5,6'-PeCB	94			47.9	14.1	1.66	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			15.4	3.45	1.39	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			288	11.8	1.51	1.093
2,2',4,6,6'-PeCB	104		K	4.58	3.45	1.99	1.001
2,3,3',4,4'-PeCB	105		B	11100	76.1	1.54	1.000
2,3,3',4,5-PeCB	106		U		88.1		
2,3,3',4',5-PeCB	107	107 + 124	C	804	94.4	1.48	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			4020	93.0	1.53	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	14200	11.1	1.58	0.925
2,3,3',5,5'-PeCB	111			196	11.0	1.38	0.945
2,3,3',5,6-PeCB	112		U		10.8		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			581	90.9	1.52	1.001
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		B	29900	86.0	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			579	11.1	1.50	0.958
2,3',4,5',6-PeCB	121			67.2	10.9	1.57	1.198
2',3,3',4,5-PeCB	122			179	105	1.70	1.010
2',3,4,4',5-PeCB	123			461	92.3	1.58	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			140	110	1.48	1.000
3,3',4,5,5'-PeCB	127		U		101		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	19900	58.6	1.25	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	111000	58.2	1.26	0.928
2,2',3,3',4,5'-HxCB	130			4950	75.4	1.27	0.914
2,2',3,3',4,6-HxCB	131			256	63.9	1.11	1.161
2,2',3,3',4,6'-HxCB	132			7610	69.1	1.26	1.176
2,2',3,3',5,5'-HxCB	133			2780	63.7	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	1740	65.8	1.22	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	20200	4.33	1.29	1.105
2,2',3,3',6,6'-HxCB	136		B	2500	3.45	1.26	1.026
2,2',3,4,4',5-HxCB	137			2140	70.1	1.24	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	1200	59.8	1.31	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			4770	63.1	1.30	0.904
2,2',3,4,5,6-HxCB	142		U		67.6		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			1570	4.56	1.31	1.123
2,2',3,4,6,6'-HxCB	145		K	8.46	3.45	0.70	1.035
2,2',3,4',5,5'-HxCB	146		B	26900	57.7	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	34400	58.4	1.24	1.134
2,2',3,4',5,6'-HxCB	148			380	4.34	1.24	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			81.8	3.45	1.20	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			7.89	3.45	1.42	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	168000	49.1	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			125	3.45	1.10	1.000
2,3,3',4,4',5-HxCB	156	156 + 157	C	6110	60.8	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	5330	45.5	1.27	0.938
2,3,3',4,4',5'-HxCB	159			444	49.7	1.35	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		47.5		
2,3,3',4',5,5'-HxCB	162			460	52.1	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			2330	49.3	1.25	0.921
2,3,3',5,5',6-HxCB	165			384	54.1	1.24	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			3620	45.3	1.23	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		128		
2,2',3,3',4,4',5-HpCB	170			12500	3.67	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	5000	4.01	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			2500	3.86	1.11	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			6900	3.66	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			1010	3.70	1.06	1.102
2,2',3,3',4,6,6'-HpCB	176			1300	3.45	1.08	1.034
2,2',3,3',4',5,6-HpCB	177			13100	3.52	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			10100	3.64	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179		B	5760	3.45	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	41700	3.45	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			115	3.90	1.04	1.157
2,2',3,4,4',5,6'-HpCB	182			312	3.71	1.10	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	16100	3.77	1.04	1.126
2,2',3,4,4',6,6'-HpCB	184		K	147	3.45	1.23	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		3.45		
2,2',3,4',5,5',6-HpCB	187		B	74000	3.47	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			287	3.45	0.99	1.000
2,3,3',4,4',5,5'-HpCB	189			681	8.11	1.05	1.001
2,3,3',4,4',5,6-HpCB	190			2540	3.45	1.07	0.947
2,3,3',4,4',5',6-HpCB	191			565	3.45	1.10	0.918
2,3,3',4,5,5',6-HpCB	192		U		3.45		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202			7750	4.28	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		T	9520	6.28	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	1350	4.86	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			4170	4.49	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			5600	4.60	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; X = result reported separately; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-2_Form1A_PB9C_331S5_SJ1078263_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 01:48:16

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2 W

Sample Size: 10.2 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 78.0
% Lipid: 1.42

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		D	117	0.728	0.93	0.991
2,2',3,3',4,4',5,6-OxCB	195		D	36.3	0.803	0.97	0.946
2,2',3,3',4,4',5,6'-OxCB	196		D	77.7	0.941	0.96	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C D	23.1	0.689	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C D	219	0.971	0.85	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		D	35.0	0.685	0.93	1.022
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		D	120	0.940	0.94	0.919
2,2',3,4,4',5,6,6'-OxCB	204		U D		0.700		
2,3,3',4,4',5,5',6-OxCB	205		D	6.36	0.657	0.80	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; U = not detected; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 01:48:16

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2 W

Sample Size: 2.25 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 78.0
% Lipid: 1.42

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		D	532	3.31	0.93	0.991
2,2',3,3',4,4',5,6-OxCB	195		D	165	3.65	0.97	0.946
2,2',3,3',4,4',5,6'-OxCB	196		D	353	4.27	0.96	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C D	105	3.13	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C D	992	4.41	0.85	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		D	159	3.11	0.93	1.022
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		D	545	4.27	0.94	0.919
2,2',3,4,4',5,6,6'-OxCB	204		U D		3.18		
2,3,3',4,4',5,5',6-OxCB	205		D	28.9	2.98	0.80	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; U = not detected; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 01:48:16

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2 W
Sample Size: 0.145 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 78.0
% Lipid: 1.42

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C X				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		D	8250	51.3	0.93	0.991
2,2',3,3',4,4',5,6-OxCB	195		D	2560	56.6	0.97	0.946
2,2',3,3',4,4',5,6'-OxCB	196		D	5480	66.3	0.96	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C D	1630	48.6	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C D	15400	68.4	0.85	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		D	2470	48.3	0.93	1.022
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		D	8460	66.3	0.94	0.919
2,2',3,4,4',5,6,6'-OxCB	204		U D		49.3		
2,3,3',4,4',5,5',6-OxCB	205		D	448	46.3	0.80	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; U = not detected; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-2_Form1A_PB9C_357S6_SJ1090786_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 30-Oct-2009 Time: 12:28:08
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2
Sample Size: 10.2 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 5
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 78.0
% Lipid: 1.42

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	363	18.2	3.34	0.722
13C12-4-MoCB	3L			2000	449	22.5	3.28	0.860
13C12-2,2'-DiCB	4L			2000	543	27.1	1.55	0.876
13C12-4,4'-DiCB	15L			2000	696	34.8	1.57	1.254
13C12-2,2',6-TriCB	19L			2000	733	36.6	1.06	1.073
13C12-3,4,4'-TriCB	37L			2000	1040	51.9	1.06	1.092
13C12-2,2',6,6'-TeCB	54L			2000	973	48.6	0.81	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1410	70.5	0.79	1.396
13C12-3,4,4',5-TeCB	81L			2000	1180	59.0	0.80	1.372
13C12-2,2',4,6,6'-PeCB	104L			2000	1180	59.1	1.62	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1570	78.4	1.55	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1230	61.4	1.58	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1350	67.6	1.56	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1270	63.5	1.54	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1300	65.1	1.55	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1270	63.7	1.27	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2690	67.3	1.28	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1320	65.9	1.29	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1420	70.8	1.30	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1310	65.7	1.06	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1390	69.7	1.03	0.873
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1400	70.1	1.07	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1310	65.6	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1370	68.7	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L		X					
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	1800	90.0	0.83	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1600	79.8	0.82	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1700	85.2	1.21	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1010	50.4	1.05	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1730	86.5	1.60	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1340	67.2	1.05	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay- 9 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 01:48:16
Extract Volume (uL): 100
Injection Volume (uL): 1.0
Dilution Factor: 5
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-2 W
Sample Size: 10.2 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 78.0
% Lipid: 1.42

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		X					
13C12-3,3',4,4'-TeCB	77L		X					
13C12-3,4,4',5-TeCB	81L		X					
13C12-2,2',4,6,6'-PeCB	104L		X					
13C12-2,3,3',4,4'-PeCB	105L		X					
13C12-2,3,4,4',5-PeCB	114L		X					
13C12-2,3',4,4',5-PeCB	118L		X					
13C12-2',3,4,4',5-PeCB	123L		X					
13C12-3,3',4,4',5-PeCB	126L		X					
13C12-2,2',4,4',6,6'-HxCB	155L		X					
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C X					
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		X					
13C12-3,3',4,4',5,5'-HxCB	169L		X					
13C12-2,2',3,3',4,4',5-HpCB	170L		X					
13C12-2,2',3,4,4',5,5'-HpCB	180L		X					
13C12-2,2',3,4',5,6,6'-HpCB	188L		X					
13C12-2,3,3',4,4',5,5'-HpCB	189L		X					
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		D	2000	1320	65.8	0.85	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L		D	2000	1650	82.5	0.94	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 13:32:39

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-7 (A)

Sample Size: 10.1 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_331 S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 79.6
% Lipid: 1.69

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	0.222	0.0681	3.65	1.001
3-MoCB	2		B	0.257	0.0776	3.08	0.988
4-MoCB	3		B	0.244	0.0808	3.29	1.000
2,2'-DiCB	4		K	0.871	0.411	1.98	1.001
2,3-DiCB	5		U		0.285		
2,3'-DiCB	6		K	0.542	0.247	2.28	1.174
2,4-DiCB	7		U		0.249		
2,4'-DiCB	8		B	3.09	0.223	1.48	1.205
2,5-DiCB	9		U		0.245		
2,6-DiCB	10		U		0.235		
3,3'-DiCB	11		B	3.42	0.281	1.67	0.968
3,4-DiCB	12	12 + 13	C U		0.281		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.269		
4,4'-DiCB	15			0.403	0.274	1.36	0.999
2,2',3-TriCB	16			2.43	0.0846	1.09	1.166
2,2',4-TriCB	17		B	3.99	0.0771	1.04	1.136
2,2',5-TriCB	18	18 + 30	C B	10.9	0.0640	1.08	1.113
2,2',6-TriCB	19			0.983	0.0877	1.06	1.001
2,3,3'-TriCB	20	20 + 28	C B	82.2	0.0806	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	13.7	0.0749	0.99	0.857
2,3,4'-TriCB	22		B	13.7	0.0892	1.01	0.872
2,3,5-TriCB	23		U		0.0816		
2,3,6-TriCB	24		K	0.208	0.0598	0.73	1.158
2,3',4-TriCB	25			5.01	0.0673	0.96	0.824
2,3',5-TriCB	26	26 + 29	C B	9.43	0.0810	1.00	1.299
2,3',6-TriCB	27			1.40	0.0528	1.16	1.151
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		B	38.4	0.0742	1.00	0.836
2,4',6-TriCB	32			5.91	0.0720	1.00	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	0.170	0.0805	0.74	1.271
3,3',4-TriCB	35		U		0.103		
3,3',5-TriCB	36		U		0.0848		
3,4,4'-TriCB	37		B	3.43	0.0890	0.96	1.001
3,4,5-TriCB	38			0.425	0.0842	0.88	0.966



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			0.573	0.0870	0.89	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	47.6	0.0681	0.80	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	47.8	0.0702	0.79	1.310
2,2',3,5'-TeCB	43			4.40	0.0730	0.83	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	199	0.0601	0.80	1.284
2,2',3,6'-TeCB	45	45 + 51	C	10.5	0.0613	0.77	1.145
2,2',3,6'-TeCB	46			2.24	0.0699	0.85	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	13.1	0.0663	0.81	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	154	0.0562	0.80	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	12.8	0.0582	0.77	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	249	0.0606	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			0.089	0.0497	0.69	1.000
2,3,3',4'-TeCB	55		U		2.33		
2,3,3',4'-TeCB	56		B	77.6	2.33	0.72	0.904
2,3,3',5'-TeCB	57		U		2.12		
2,3,3',5'-TeCB	58			2.54	2.02	0.77	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	21.0	0.0497	0.78	1.299
2,3,4,4'-TeCB	60		B	53.9	2.34	0.70	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	449	2.08	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			21.4	2.10	0.66	0.864
2,3,4',6'-TeCB	64		B	65.3	0.0497	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	324	2.11	0.75	0.884
2,3',4,5'-TeCB	67			8.41	1.90	0.75	0.856
2,3',4,5'-TeCB	68		K	8.87	2.03	0.61	0.830
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			10.0	2.05	0.65	0.822
2,3',5',6'-TeCB	73		U		0.0509		
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		B	18.3	2.10	0.73	1.000
3,3',4,5'-TeCB	78		U		2.48		
3,3',4,5'-TeCB	79			10.5	1.91	0.74	0.969
3,3',5,5'-TeCB	80		U		2.12		
3,4,4',5'-TeCB	81		U		2.30		
2,2',3,3',4'-PeCB	82			42.9	1.18	1.56	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	1120	1.04	1.59	0.886
2,2',3,3',6'-PeCB	84		B	66.8	1.08	1.63	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	204	0.904	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	444	0.888	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	97.3	0.957	1.54	1.154
2,2',3,4,6'-PeCB	89			1.38	1.04	1.43	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	1120	0.872	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	215	1.03	1.60	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	446	0.914	1.58	1.122
2,2',3,5,6'-PeCB	94			2.90	1.01	1.67	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			0.766	0.0840	1.61	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			19.7	0.849	1.54	1.093
2,2',4,6,6'-PeCB	104		K	0.176	0.101	3.29	1.001
2,3,3',4,4'-PeCB	105		B	381	3.12	1.53	1.000
2,3,3',4,5-PeCB	106		U		3.21		
2,3,3',4',5-PeCB	107	107 + 124	C	26.0	3.44	1.59	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			166	3.41	1.53	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	616	0.793	1.58	0.925
2,3,3',5,5'-PeCB	111			6.66	0.787	1.51	0.945
2,3,3',5,6-PeCB	112		U		0.774		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			20.4	3.26	1.49	1.001
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		B	1220	2.95	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			27.3	0.790	1.51	0.958
2,3',4,5',6-PeCB	121			1.42	0.778	1.64	1.198
2',3,3',4,5-PeCB	122			5.97	3.84	1.42	1.010
2',3,4,4',5-PeCB	123			17.0	3.51	1.50	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		4.05		
3,3',4,5,5'-PeCB	127		U		3.68		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	554	3.65	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	4520	3.62	1.26	0.928
2,2',3,3',4,5'-HxCB	130			220	4.67	1.28	0.913
2,2',3,3',4,6-HxCB	131			11.6	3.97	1.22	1.161
2,2',3,3',4,6'-HxCB	132			321	4.30	1.26	1.176
2,2',3,3',5,5'-HxCB	133			102	3.96	1.28	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	86.6	4.09	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	880	0.100	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	126	0.0686	1.27	1.026
2,2',3,4,4',5-HxCB	137			70.4	4.36	1.29	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	40.6	3.72	1.23	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			203	3.92	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		4.20		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			73.7	0.105	1.26	1.122
2,2',3,4,6,6'-HxCB	145			0.406	0.0746	1.21	1.035
2,2',3,4',5,5'-HxCB	146		B	1120	3.59	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	1840	3.63	1.26	1.134
2,2',3,4',5,6'-HxCB	148			14.1	0.100	1.25	1.083
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			6.99	0.0715	1.27	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.263	0.0631	1.40	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	6360	3.05	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			3.66	0.0603	1.19	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	198	3.81	1.24	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	199	2.83	1.27	0.938
2,3,3',4,5,5'-HxCB	159			16.8	3.09	1.22	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		2.96		
2,3,3',4',5,5'-HxCB	162			15.3	3.24	1.23	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			88.5	3.06	1.28	0.921
2,3,3',5,5',6-HxCB	165			9.39	3.36	1.16	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			111	2.76	1.29	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		4.19		
2,2',3,3',4,4',5-HpCB	170			485	0.162	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	204	0.177	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			111	0.170	1.08	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			268	0.161	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			45.4	0.163	1.07	1.102
2,2',3,3',4,6,6'-HpCB	176			64.9	0.117	1.05	1.034
2,2',3,3',4',5,6-HpCB	177			546	0.155	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			332	0.161	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	239	0.114	1.05	1.010
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	1580	0.126	1.06	0.910
2,2',3,4,4',5,6-HpCB	181		K	3.80	0.173	1.23	1.156
2,2',3,4,4',5,6'-HpCB	182		K	8.76	0.164	0.86	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	672	0.167	1.05	1.126
2,2',3,4,4',6,6'-HpCB	184			4.23	0.113	1.02	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.127		
2,2',3,4',5,5',6-HpCB	187		B	2540	0.153	1.06	1.110
2,2',3,4',5,6,6'-HpCB	188			9.07	0.105	1.13	1.000
2,3,3',4,4',5,5'-HpCB	189			18.6	0.207	0.92	1.000
2,3,3',4,4',5,6-HpCB	190			93.6	0.123	1.06	0.947
2,3,3',4,4',5',6-HpCB	191			21.9	0.125	1.03	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.145		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			236	0.162	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			85.2	0.184	0.91	0.946
2,2',3,3',4,4',5,6'-OxCB	196			167	0.138	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	42.2	0.111	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	397	0.147	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			79.4	0.112	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			216	0.129	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			243	0.140	0.92	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	0.869	0.113	1.03	1.038
2,3,3',4,4',5,5',6-OxCB	205			13.2	0.138	0.87	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	296	0.223	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	44.8	0.146	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			142	0.117	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			199	0.109	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-7_Form1A_PB9C_331S6_SJ1078265.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 13:32:39

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-7 (A)

Sample Size: 2.05 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_331 S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 79.6
% Lipid: 1.69

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	1.09	0.334	3.65	1.001
3-MoCB	2		B	1.26	0.381	3.08	0.988
4-MoCB	3		B	1.20	0.397	3.29	1.000
2,2'-DiCB	4		K	4.28	2.02	1.98	1.001
2,3-DiCB	5		U		1.40		
2,3'-DiCB	6		K	2.66	1.21	2.28	1.174
2,4-DiCB	7		U		1.23		
2,4'-DiCB	8		B	15.2	1.09	1.48	1.205
2,5-DiCB	9		U		1.20		
2,6-DiCB	10		U		1.15		
3,3'-DiCB	11		B	16.8	1.38	1.67	0.968
3,4-DiCB	12	12 + 13	C U		1.38		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.32		
4,4'-DiCB	15			1.98	1.34	1.36	0.999
2,2',3-TriCB	16			11.9	0.415	1.09	1.166
2,2',4-TriCB	17		B	19.6	0.379	1.04	1.136
2,2',5-TriCB	18	18 + 30	C B	53.6	0.314	1.08	1.113
2,2',6-TriCB	19			4.83	0.430	1.06	1.001
2,3,3'-TriCB	20	20 + 28	C B	404	0.396	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	67.3	0.368	0.99	0.857
2,3,4'-TriCB	22		B	67.3	0.438	1.01	0.872
2,3,5-TriCB	23		U		0.401		
2,3,6-TriCB	24		K	1.02	0.294	0.73	1.158
2,3',4-TriCB	25			24.6	0.330	0.96	0.824
2,3',5-TriCB	26	26 + 29	C B	46.3	0.398	1.00	1.299
2,3',6-TriCB	27			6.87	0.259	1.16	1.151
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		B	189	0.365	1.00	0.836
2,4',6-TriCB	32			29.0	0.354	1.00	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	0.834	0.395	0.74	1.271
3,3',4-TriCB	35		U		0.506		
3,3',5-TriCB	36		U		0.416		
3,4,4'-TriCB	37		B	16.8	0.437	0.96	1.001
3,4,5-TriCB	38			2.09	0.414	0.88	0.966



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			2.81	0.427	0.89	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	234	0.334	0.80	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	234	0.345	0.79	1.310
2,2',3,5'-TeCB	43			21.6	0.359	0.83	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	976	0.295	0.80	1.284
2,2',3,6'-TeCB	45	45 + 51	C	51.6	0.301	0.77	1.145
2,2',3,6'-TeCB	46			11.0	0.344	0.85	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	64.3	0.325	0.81	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	757	0.276	0.80	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	62.9	0.286	0.77	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1230	0.298	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			0.437	0.244	0.69	1.000
2,3,3',4'-TeCB	55		U		11.4		
2,3,3',4'-TeCB	56		B	381	11.4	0.72	0.904
2,3,3',5'-TeCB	57		U		10.4		
2,3,3',5'-TeCB	58			12.5	9.93	0.77	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	103	0.244	0.78	1.299
2,3,4,4'-TeCB	60		B	264	11.5	0.70	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	2200	10.2	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			105	10.3	0.66	0.864
2,3,4',6'-TeCB	64		B	321	0.244	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	1590	10.3	0.75	0.884
2,3',4,5'-TeCB	67			41.3	9.34	0.75	0.856
2,3',4,5'-TeCB	68		K	43.5	10.0	0.61	0.830
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			49.1	10.1	0.65	0.822
2,3',5',6'-TeCB	73		U		0.250		
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		B	90.1	10.3	0.73	1.000
3,3',4,5'-TeCB	78		U		12.2		
3,3',4,5'-TeCB	79			51.6	9.34	0.74	0.969
3,3',5,5'-TeCB	80		U		10.4		
3,4,4',5'-TeCB	81		U		11.3		
2,2',3,3',4'-PeCB	82			211	5.80	1.56	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	5510	5.10	1.59	0.886
2,2',3,3',6'-PeCB	84		B	328	5.31	1.63	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	1000	4.44	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	2180	4.36	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	478	4.70	1.54	1.154
2,2',3,4,6'-PeCB	89			6.78	5.10	1.43	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	5510	4.29	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	1060	5.06	1.60	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	2190	4.49	1.58	1.122
2,2',3,5,6'-PeCB	94			14.3	4.96	1.67	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			3.76	0.413	1.61	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			96.8	4.17	1.54	1.093
2,2',4,6,6'-PeCB	104		K	0.868	0.496	3.29	1.001
2,3,3',4,4'-PeCB	105		B	1870	15.3	1.53	1.000
2,3,3',4,5-PeCB	106		U		15.8		
2,3,3',4',5-PeCB	107	107 + 124	C	128	16.9	1.59	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			816	16.8	1.53	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	3030	3.90	1.58	0.925
2,3,3',5,5'-PeCB	111			32.7	3.86	1.51	0.945
2,3,3',5,6-PeCB	112		U		3.80		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			100	16.0	1.49	1.001
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		B	5990	14.5	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			134	3.88	1.51	0.958
2,3',4,5',6-PeCB	121			6.97	3.82	1.64	1.198
2',3,3',4,5-PeCB	122			29.4	18.9	1.42	1.010
2',3,4,4',5-PeCB	123			83.4	17.3	1.50	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		19.9		
3,3',4,5,5'-PeCB	127		U		18.1		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	2720	17.9	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	22200	17.8	1.26	0.928
2,2',3,3',4,5'-HxCB	130			1080	22.9	1.28	0.913
2,2',3,3',4,6-HxCB	131			57.0	19.5	1.22	1.161
2,2',3,3',4,6'-HxCB	132			1580	21.1	1.26	1.176
2,2',3,3',5,5'-HxCB	133			501	19.4	1.28	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	425	20.1	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	4320	0.491	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	619	0.337	1.27	1.026
2,2',3,4,4',5-HxCB	137			346	21.4	1.29	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	199	18.3	1.23	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			1000	19.3	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		20.6		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			362	0.516	1.26	1.122
2,2',3,4,6,6'-HxCB	145			1.99	0.366	1.21	1.035
2,2',3,4',5,5'-HxCB	146		B	5510	17.6	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	9010	17.9	1.26	1.134
2,2',3,4',5,6'-HxCB	148			69.2	0.491	1.25	1.083
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			34.4	0.351	1.27	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			1.29	0.310	1.40	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	31300	15.0	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			18.0	0.296	1.19	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	976	18.7	1.24	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	976	13.9	1.27	0.938
2,3,3',4,5,5'-HxCB	159			82.5	15.2	1.22	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		14.5		
2,3,3',4',5,5'-HxCB	162			75.2	15.9	1.23	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			435	15.0	1.28	0.921
2,3,3',5,5',6-HxCB	165			46.1	16.5	1.16	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			546	13.6	1.29	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		20.6		
2,2',3,3',4,4',5-HpCB	170			2390	0.796	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1000	0.868	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			546	0.834	1.08	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			1320	0.791	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			223	0.801	1.07	1.102
2,2',3,3',4,6'-HpCB	176			319	0.575	1.05	1.034
2,2',3,3',4',5,6-HpCB	177			2690	0.762	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			1630	0.791	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	1180	0.560	1.05	1.010
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	7760	0.619	1.06	0.910
2,2',3,4,4',5,6-HpCB	181		K	18.7	0.851	1.23	1.156
2,2',3,4,4',5,6'-HpCB	182		K	43.0	0.806	0.86	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	3300	0.820	1.05	1.126
2,2',3,4,4',6,6'-HpCB	184			20.8	0.555	1.02	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.624		
2,2',3,4',5,5',6-HpCB	187		B	12500	0.752	1.06	1.110
2,2',3,4',5,6,6'-HpCB	188			44.5	0.516	1.13	1.000
2,3,3',4,4',5,5'-HpCB	189			91.8	1.02	0.92	1.000
2,3,3',4,4',5,6-HpCB	190			460	0.604	1.06	0.947
2,3,3',4,4',5',6-HpCB	191			108	0.614	1.03	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.712		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1160	0.796	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			419	0.901	0.91	0.946
2,2',3,3',4,4',5,6'-OxCB	196			820	0.678	0.90	0.916
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	208	0.546	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	1950	0.722	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			390	0.551	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			1060	0.634	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			1190	0.687	0.92	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	4.27	0.555	1.03	1.038
2,3,3',4,4',5,5',6-OxCB	205			64.8	0.678	0.87	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	1450	1.09	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	220	0.717	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			697	0.575	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			976	0.536	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-7_Form1A_PB9C_331S6_SJ1078265_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 13:32:39

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-7 (A)
Sample Size: 0.171 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 79.6
% Lipid: 1.69

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	13.1	4.01	3.65	1.001
3-MoCB	2		B	15.1	4.57	3.08	0.988
4-MoCB	3		B	14.4	4.76	3.29	1.000
2,2'-DiCB	4		K	51.3	24.2	1.98	1.001
2,3-DiCB	5		U		16.8		
2,3'-DiCB	6		K	31.9	14.5	2.28	1.174
2,4-DiCB	7		U		14.7		
2,4'-DiCB	8		B	182	13.1	1.48	1.205
2,5-DiCB	9		U		14.4		
2,6-DiCB	10		U		13.8		
3,3'-DiCB	11		B	201	16.5	1.67	0.968
3,4-DiCB	12	12 + 13	C U		16.5		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		15.8		
4,4'-DiCB	15			23.7	16.1	1.36	0.999
2,2',3-TriCB	16			143	4.98	1.09	1.166
2,2',4-TriCB	17		B	235	4.54	1.04	1.136
2,2',5-TriCB	18	18 + 30	C B	642	3.77	1.08	1.113
2,2',6-TriCB	19			57.9	5.16	1.06	1.001
2,3,3'-TriCB	20	20 + 28	C B	4840	4.75	1.01	0.847
2,3,4-TriCB	21	21 + 33	C B	807	4.41	0.99	0.857
2,3,4'-TriCB	22		B	807	5.25	1.01	0.872
2,3,5-TriCB	23		U		4.81		
2,3,6-TriCB	24		K	12.2	3.52	0.73	1.158
2,3',4-TriCB	25			295	3.96	0.96	0.824
2,3',5-TriCB	26	26 + 29	C B	555	4.77	1.00	1.299
2,3',6-TriCB	27			82.4	3.11	1.16	1.151
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		B	2260	4.37	1.00	0.836
2,4',6-TriCB	32			348	4.24	1.00	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	10.0	4.74	0.74	1.271
3,3',4-TriCB	35		U		6.07		
3,3',5-TriCB	36		U		4.99		
3,4,4'-TriCB	37		B	202	5.24	0.96	1.001
3,4,5-TriCB	38			25.0	4.96	0.88	0.966



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			33.7	5.12	0.89	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	2800	4.01	0.80	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	2810	4.13	0.79	1.310
2,2',3,5'-TeCB	43			259	4.30	0.83	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	11700	3.54	0.80	1.284
2,2',3,6'-TeCB	45	45 + 51	C	618	3.61	0.77	1.145
2,2',3,6'-TeCB	46			132	4.12	0.85	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	771	3.90	0.81	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	9070	3.31	0.80	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	754	3.43	0.77	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	14700	3.57	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			5.24	2.93	0.69	1.000
2,3,3',4'-TeCB	55		U		137		
2,3,3',4'-TeCB	56		B	4570	137	0.72	0.904
2,3,3',5'-TeCB	57		U		125		
2,3,3',5'-TeCB	58			150	119	0.77	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	1240	2.93	0.78	1.299
2,3,4,4'-TeCB	60		B	3170	138	0.70	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	26400	122	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			1260	124	0.66	0.864
2,3,4',6'-TeCB	64		B	3850	2.93	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	19100	124	0.75	0.884
2,3',4,5'-TeCB	67			495	112	0.75	0.856
2,3',4,5'-TeCB	68		K	522	120	0.61	0.830
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			589	121	0.65	0.822
2,3',5',6'-TeCB	73		U		3.00		
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		B	1080	124	0.73	1.000
3,3',4,5'-TeCB	78		U		146		
3,3',4,5'-TeCB	79			618	112	0.74	0.969
3,3',5,5'-TeCB	80		U		125		
3,4,4',5'-TeCB	81		U		135		
2,2',3,3',4'-PeCB	82			2530	69.5	1.56	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	66000	61.2	1.59	0.886
2,2',3,3',6'-PeCB	84		B	3930	63.6	1.63	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	12000	53.2	1.58	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	26100	52.3	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	5730	56.4	1.54	1.154
2,2',3,4,6'-PeCB	89			81.3	61.2	1.43	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	66000	51.4	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	12700	60.7	1.60	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	26300	53.8	1.58	1.122
2,2',3,5,6'-PeCB	94			171	59.5	1.67	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			45.1	4.95	1.61	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			1160	50.0	1.54	1.093
2,2',4,6,6'-PeCB	104		K	10.4	5.95	3.29	1.001
2,3,3',4,4'-PeCB	105		B	22400	184	1.53	1.000
2,3,3',4,5-PeCB	106		U		189		
2,3,3',4',5-PeCB	107	107 + 124	C	1530	203	1.59	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			9780	201	1.53	0.998
2,3,3',4',6-PeCB	110	110 + 115	C B	36300	46.7	1.58	0.925
2,3,3',5,5'-PeCB	111			392	46.3	1.51	0.945
2,3,3',5,6-PeCB	112		U		45.6		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			1200	192	1.49	1.001
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		B	71800	174	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			1610	46.5	1.51	0.958
2,3',4,5',6-PeCB	121			83.6	45.8	1.64	1.198
2',3,3',4,5-PeCB	122			352	226	1.42	1.010
2',3,4,4',5-PeCB	123			1000	207	1.50	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		239		
3,3',4,5,5'-PeCB	127		U		217		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	32600	215	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	266000	213	1.26	0.928
2,2',3,3',4,5'-HxCB	130			13000	275	1.28	0.913
2,2',3,3',4,6-HxCB	131			683	234	1.22	1.161
2,2',3,3',4,6'-HxCB	132			18900	253	1.26	1.176
2,2',3,3',5,5'-HxCB	133			6010	233	1.28	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	5100	241	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	51800	5.89	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	7420	4.04	1.27	1.026
2,2',3,4,4',5-HxCB	137			4150	257	1.29	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	2390	219	1.23	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			12000	231	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		247		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			4340	6.18	1.26	1.122
2,2',3,4,6,6'-HxCB	145			23.9	4.39	1.21	1.035
2,2',3,4',5,5'-HxCB	146		B	66000	211	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	108000	214	1.26	1.134
2,2',3,4',5,6'-HxCB	148			830	5.89	1.25	1.083
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			412	4.21	1.27	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			15.5	3.72	1.40	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	375000	180	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			216	3.55	1.19	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	11700	224	1.24	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	11700	167	1.27	0.938
2,3,3',4,5,5'-HxCB	159			989	182	1.22	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		174		
2,3,3',4',5,5'-HxCB	162			901	191	1.23	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			5210	180	1.28	0.921
2,3,3',5,5',6-HxCB	165			553	198	1.16	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			6540	163	1.29	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		247		
2,2',3,3',4,4',5-HpCB	170			28600	9.54	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	12000	10.4	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			6540	10.0	1.08	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			15800	9.48	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			2670	9.60	1.07	1.102
2,2',3,3',4,6',6-HpCB	176			3820	6.89	1.05	1.034
2,2',3,3',4',5,6-HpCB	177			32200	9.13	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			19600	9.48	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	14100	6.71	1.05	1.010
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	93000	7.42	1.06	0.910
2,2',3,4,4',5,6-HpCB	181		K	224	10.2	1.23	1.156
2,2',3,4,4',5,6'-HpCB	182		K	516	9.66	0.86	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	39600	9.83	1.05	1.126
2,2',3,4,4',6,6'-HpCB	184			249	6.65	1.02	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		7.48		
2,2',3,4',5,5',6-HpCB	187		B	150000	9.01	1.06	1.110
2,2',3,4',5,6,6'-HpCB	188			534	6.18	1.13	1.000
2,3,3',4,4',5,5'-HpCB	189			1100	12.2	0.92	1.000
2,3,3',4,4',5,6-HpCB	190			5510	7.24	1.06	0.947
2,3,3',4,4',5',6-HpCB	191			1290	7.36	1.03	0.918
2,3,3',4,5,5',6-HpCB	192		U		8.54		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			13900	9.54	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			5020	10.8	0.91	0.946
2,2',3,3',4,4',5,6'-OxCB	196			9830	8.13	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	2490	6.54	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	23400	8.66	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			4680	6.60	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			12700	7.60	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			14300	8.24	0.92	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	51.2	6.65	1.03	1.038
2,3,3',4,4',5,5',6-OxCB	205			777	8.13	0.87	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	17400	13.1	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	2640	8.60	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			8360	6.89	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			11700	6.42	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-7_Form1A_PB9C_331S6_SJ1078265_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 30-Oct-2009 Time: 13:32:39
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-7 (A)
Sample Size: 10.1 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 79.6
% Lipid: 1.69

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	490	24.5	3.25	0.721
13C12-4-MoCB	3L			2000	592	29.6	3.24	0.860
13C12-2,2'-DiCB	4L			2000	628	31.4	1.59	0.875
13C12-4,4'-DiCB	15L			2000	776	38.8	1.58	1.254
13C12-2,2',6-TriCB	19L			2000	805	40.2	1.07	1.072
13C12-3,4,4'-TriCB	37L			2000	1040	51.8	1.05	1.093
13C12-2,2',6,6'-TeCB	54L			2000	1070	53.5	0.81	0.813
13C12-3,3',4,4'-TeCB	77L			2000	1170	58.4	0.80	1.397
13C12-3,4,4',5-TeCB	81L			2000	1100	54.8	0.79	1.374
13C12-2,2',4,6,6'-PeCB	104L			2000	1130	56.5	1.60	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1230	61.5	1.57	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1100	54.8	1.57	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1260	62.8	1.56	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1090	54.5	1.54	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1120	56.2	1.55	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1060	52.9	1.27	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2210	55.2	1.29	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1100	55.2	1.28	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1130	56.5	1.28	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1390	69.5	1.05	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1590	79.5	1.05	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1490	74.3	1.05	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1310	65.5	1.07	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1470	73.5	0.95	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1600	80.2	0.94	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2460	123	0.86	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1460	73.2	0.81	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1770	88.3	1.20	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1050	52.7	1.05	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1320	65.9	1.61	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1150	57.6	1.06	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-11

Matrix: TISSUE

Sample Size: 10.5 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 14:37:03

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_331 S: 7

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 79.2
% Lipid: 1.62

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.550	0.0516	2.84	1.000
3-MoCB	2		K B	0.300	0.0560	3.70	0.988
4-MoCB	3		K B	0.376	0.0561	3.80	1.001
2,2'-DiCB	4			3.12	0.449	1.56	1.001
2,3-DiCB	5		U		0.289		
2,3'-DiCB	6			1.91	0.250	1.58	1.174
2,4-DiCB	7		U		0.252		
2,4'-DiCB	8		B	8.13	0.226	1.59	1.207
2,5-DiCB	9		K	0.527	0.249	2.23	1.143
2,6-DiCB	10		U		0.238		
3,3'-DiCB	11		B	6.52	0.285	1.59	0.969
3,4-DiCB	12	12 + 13	C U		0.285		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.273		
4,4'-DiCB	15			1.19	0.266	1.56	0.999
2,2',3-TriCB	16			7.25	0.0529	1.12	1.165
2,2',4-TriCB	17		B	10.8	0.0482	1.05	1.136
2,2',5-TriCB	18	18 + 30	C B	33.8	0.0477	1.06	1.112
2,2',6-TriCB	19		K	3.34	0.0589	1.22	1.001
2,3,3'-TriCB	20	20 + 28	C B	194	0.254	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	33.4	0.236	0.98	0.857
2,3,4'-TriCB	22		B	39.2	0.281	0.97	0.872
2,3,5-TriCB	23		U		0.257		
2,3,6-TriCB	24			0.755	0.0477	0.88	1.157
2,3',4-TriCB	25			12.7	0.212	1.00	0.825
2,3',5-TriCB	26	26 + 29	C B	29.4	0.255	1.01	1.299
2,3',6-TriCB	27			4.10	0.0477	1.10	1.150
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		B	97.6	0.234	1.00	0.836
2,4',6-TriCB	32			15.9	0.227	0.99	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	0.470	0.254	0.71	1.271
3,3',4-TriCB	35		U		0.325		
3,3',5-TriCB	36		U		0.267		
3,4,4'-TriCB	37		B	9.11	0.269	0.97	1.001
3,4,5-TriCB	38		K	0.853	0.265	0.75	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	1.48	0.274	0.85	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	111	0.0477	0.78	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	98.4	0.0477	0.79	1.310
2,2',3,5'-TeCB	43			12.4	0.0477	0.75	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	470	0.0477	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C	25.9	0.0477	0.79	1.146
2,2',3,6'-TeCB	46			4.90	0.0477	0.78	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	29.0	0.0477	0.80	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	294	0.0477	0.79	1.258
2,2',4,6'-TeCB	50	50 + 53	C B	30.9	0.0477	0.78	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	739	0.0477	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	0.161	0.0477	0.94	1.001
2,3,3',4'-TeCB	55		U		0.477		
2,3,3',4'-TeCB	56		B	142	0.477	0.77	0.905
2,3,3',5'-TeCB	57			4.10	0.436	0.74	0.843
2,3,3',5'-TeCB	58			3.28	0.415	0.77	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	44.5	0.0477	0.79	1.300
2,3,4,4'-TeCB	60		B	142	0.479	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	955	0.427	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			42.3	0.431	0.75	0.864
2,3,4',6'-TeCB	64		B	155	0.0477	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	701	0.433	0.76	0.884
2,3',4,5'-TeCB	67			16.2	0.391	0.75	0.855
2,3',4,5'-TeCB	68			19.7	0.417	0.73	0.830
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			23.5	0.421	0.77	0.822
2,3',5',6'-TeCB	73		U		0.0477		
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		B	45.1	0.417	0.79	1.000
3,3',4,5'-TeCB	78		U		0.509		
3,3',4,5'-TeCB	79			23.1	0.391	0.87	0.969
3,3',5,5'-TeCB	80		U		0.434		
3,4,4',5'-TeCB	81		K	1.66	0.445	0.76	1.000
2,2',3,3',4'-PeCB	82			111	1.24	1.56	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	1610	1.09	1.58	0.885
2,2',3,3',6'-PeCB	84		B	215	1.13	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	475	0.945	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1150	0.928	1.58	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	240	1.00	1.57	1.154
2,2',3,4,6'-PeCB	89			4.79	1.09	1.72	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	2850	0.912	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	528	1.08	1.56	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	1300	0.956	1.58	1.121
2,2',3,5,6'-PeCB	94			5.41	1.05	1.68	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			1.62	0.0477	1.54	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			26.1	0.887	1.56	1.093
2,2',4,6,6'-PeCB	104		K	0.239	0.0561	1.10	1.001
2,3,3',4,4'-PeCB	105		B	958	4.07	1.52	1.000
2,3,3',4,5-PeCB	106		U		4.40		
2,3,3',4',5-PeCB	107	107 + 124	C	82.4	4.72	1.49	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			331	4.67	1.52	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	2120	0.830	1.57	0.925
2,3,3',5,5'-PeCB	111			7.40	0.823	1.63	0.945
2,3,3',5,6-PeCB	112		U		0.809		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			43.2	4.76	1.54	1.001
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		B	2680	3.56	1.52	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			37.3	0.826	1.61	0.958
2,3',4,5',6-PeCB	121			1.87	0.813	1.43	1.198
2',3,3',4,5-PeCB	122			11.3	5.26	1.54	1.011
2',3,4,4',5-PeCB	123			37.8	4.83	1.51	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			7.64	6.25	1.48	1.000
3,3',4,5,5'-PeCB	127			5.12	5.04	1.58	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	1080	1.34	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	8290	1.33	1.25	0.929
2,2',3,3',4,5'-HxCB	130			379	1.72	1.26	0.914
2,2',3,3',4,6-HxCB	131			29.8	1.46	1.27	1.161
2,2',3,3',4,6'-HxCB	132			869	1.58	1.27	1.176
2,2',3,3',5,5'-HxCB	133			150	1.46	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	179	1.50	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1550	0.0766	1.27	1.105
2,2',3,3',6,6'-HxCB	136		B	272	0.0525	1.28	1.026
2,2',3,4,4',5-HxCB	137			183	1.60	1.24	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	89.8	1.37	1.27	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			440	1.44	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		1.54		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			137	0.0806	1.25	1.123
2,2',3,4,6,6'-HxCB	145			0.689	0.0571	1.39	1.035
2,2',3,4',5,5'-HxCB	146		B	1760	1.32	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	3730	1.33	1.26	1.134
2,2',3,4',5,6'-HxCB	148			18.7	0.0767	1.29	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			8.88	0.0547	1.25	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	0.741	0.0482	1.45	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			11.6	0.0477	1.25	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	472	1.39	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	432	1.04	1.24	0.938
2,3,3',4,5,5'-HxCB	159			24.4	1.14	1.31	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		1.09		
2,3,3',4',5,5'-HxCB	162			24.0	1.19	1.33	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			199	1.13	1.25	0.922
2,3,3',5,5',6-HxCB	165			8.96	1.23	1.30	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			237	1.02	1.28	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		5.52		
2,2',3,3',4,4',5-HpCB	170			623	0.0996	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	236	0.109	1.04	1.164
2,2',3,3',4,5,5'-HpCB	172			124	0.105	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			393	0.0992	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			50.1	0.100	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			82.1	0.0721	1.04	1.034
2,2',3,3',4',5,6-HpCB	177			634	0.0954	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			381	0.0987	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	315	0.0699	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	2190	0.0772	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			6.84	0.106	1.09	1.157
2,2',3,4,4',5,6'-HpCB	182			11.6	0.101	1.02	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	834	0.102	1.06	1.126
2,2',3,4,4',6,6'-HpCB	184			8.72	0.0694	1.10	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.0779		
2,2',3,4',5,5',6-HpCB	187		B	3160	0.0942	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			14.1	0.0676	1.05	1.000
2,3,3',4,4',5,5'-HpCB	189			29.2	0.246	0.97	1.000
2,3,3',4,4',5,6-HpCB	190			121	0.0756	1.06	0.947
2,3,3',4,4',5',6-HpCB	191			28.6	0.0768	1.01	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.0892		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			394	0.175	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			108	0.198	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			186	0.0653	0.91	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	45.8	0.0521	0.90	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	539	0.0695	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			90.4	0.0527	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			336	0.0667	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			334	0.0660	0.90	0.919
2,2',3,4,4',5,6,6'-OxCB	204			0.855	0.0531	0.85	1.038
2,3,3',4,4',5,5',6-OxCB	205			17.8	0.138	0.89	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			428	0.0945	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	57.3	0.0609	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			190	0.0500	0.77	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			215	0.0556	0.70	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-11_Form1A_PB9C_331S7_SJ1078267.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-11

Matrix: TISSUE

Sample Size: 2.18 g (dry)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 14:37:03

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_331 S: 7

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g (dry weight basis)

% Moisture: 79.2
% Lipid: 1.62

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	2.64	0.248	2.84	1.000
3-MoCB	2		K B	1.44	0.269	3.70	0.988
4-MoCB	3		K B	1.81	0.270	3.80	1.001
2,2'-DiCB	4			15.0	2.16	1.56	1.001
2,3-DiCB	5		U		1.39		
2,3'-DiCB	6			9.17	1.20	1.58	1.174
2,4-DiCB	7		U		1.21		
2,4'-DiCB	8		B	39.1	1.09	1.59	1.207
2,5-DiCB	9		K	2.54	1.19	2.23	1.143
2,6-DiCB	10		U		1.14		
3,3'-DiCB	11		B	31.4	1.37	1.59	0.969
3,4-DiCB	12	12 + 13	C U		1.37		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.31		
4,4'-DiCB	15			5.72	1.28	1.56	0.999
2,2',3-TriCB	16			34.8	0.254	1.12	1.165
2,2',4-TriCB	17		B	51.9	0.232	1.05	1.136
2,2',5-TriCB	18	18 + 30	C B	163	0.230	1.06	1.112
2,2',6-TriCB	19		K	16.0	0.283	1.22	1.001
2,3,3'-TriCB	20	20 + 28	C B	932	1.22	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	160	1.13	0.98	0.857
2,3,4'-TriCB	22		B	189	1.35	0.97	0.872
2,3,5-TriCB	23		U		1.23		
2,3,6-TriCB	24			3.63	0.230	0.88	1.157
2,3',4-TriCB	25			61.0	1.02	1.00	0.825
2,3',5-TriCB	26	26 + 29	C B	141	1.23	1.01	1.299
2,3',6-TriCB	27			19.7	0.230	1.10	1.150
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		B	469	1.13	1.00	0.836
2,4',6-TriCB	32			76.4	1.09	0.99	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	2.26	1.22	0.71	1.271
3,3',4-TriCB	35		U		1.56		
3,3',5-TriCB	36		U		1.29		
3,4,4'-TriCB	37		B	43.8	1.29	0.97	1.001
3,4,5-TriCB	38		K	4.10	1.27	0.75	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	7.11	1.32	0.85	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	533	0.230	0.78	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	473	0.230	0.79	1.310
2,2',3,5'-TeCB	43			59.6	0.230	0.75	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	2260	0.230	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C	125	0.230	0.79	1.146
2,2',3,6'-TeCB	46			23.6	0.230	0.78	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	139	0.230	0.80	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	1410	0.230	0.79	1.258
2,2',4,6'-TeCB	50	50 + 53	C B	149	0.230	0.78	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	3550	0.230	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	0.771	0.230	0.94	1.001
2,3,3',4'-TeCB	55		U		2.30		
2,3,3',4'-TeCB	56		B	683	2.30	0.77	0.905
2,3,3',5'-TeCB	57			19.7	2.10	0.74	0.843
2,3,3',5'-TeCB	58			15.8	2.00	0.77	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	214	0.230	0.79	1.300
2,3,4,4'-TeCB	60		B	683	2.30	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	4590	2.05	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			203	2.07	0.75	0.864
2,3,4',6'-TeCB	64		B	745	0.230	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	3370	2.08	0.76	0.884
2,3',4,5'-TeCB	67			77.8	1.88	0.75	0.855
2,3',4,5'-TeCB	68			94.8	2.00	0.73	0.830
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			113	2.03	0.77	0.822
2,3',5',6'-TeCB	73		U		0.230		
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		B	217	2.00	0.79	1.000
3,3',4,5'-TeCB	78		U		2.45		
3,3',4,5'-TeCB	79			111	1.88	0.87	0.969
3,3',5,5'-TeCB	80		U		2.09		
3,4,4',5'-TeCB	81		K	8.01	2.14	0.76	1.000
2,2',3,3',4'-PeCB	82			533	5.96	1.56	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	7710	5.24	1.58	0.885
2,2',3,3',6'-PeCB	84		B	1030	5.43	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	2280	4.55	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	5530	4.46	1.58	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1160	4.81	1.57	1.154
2,2',3,4,6'-PeCB	89			23.0	5.24	1.72	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	13700	4.38	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	2540	5.19	1.56	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	6250	4.59	1.58	1.121
2,2',3,5,6'-PeCB	94			26.0	5.05	1.68	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			7.78	0.230	1.54	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			126	4.26	1.56	1.093
2,2',4,6,6'-PeCB	104		K	1.15	0.270	1.10	1.001
2,3,3',4,4'-PeCB	105		B	4610	19.6	1.52	1.000
2,3,3',4,5-PeCB	106		U		21.1		
2,3,3',4',5-PeCB	107	107 + 124	C	396	22.7	1.49	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1590	22.4	1.52	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	10200	3.99	1.57	0.925
2,3,3',5,5'-PeCB	111			35.6	3.95	1.63	0.945
2,3,3',5,6-PeCB	112		U		3.89		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			207	22.9	1.54	1.001
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		B	12900	17.1	1.52	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			180	3.97	1.61	0.958
2,3',4,5',6-PeCB	121			9.02	3.91	1.43	1.198
2',3,3',4,5-PeCB	122			54.3	25.3	1.54	1.011
2',3,4,4',5-PeCB	123			182	23.2	1.51	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			36.8	30.1	1.48	1.000
3,3',4,5,5'-PeCB	127			24.6	24.2	1.58	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	5190	6.44	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	39800	6.40	1.25	0.929
2,2',3,3',4,5'-HxCB	130			1820	8.25	1.26	0.914
2,2',3,3',4,6-HxCB	131			143	7.02	1.27	1.161
2,2',3,3',4,6'-HxCB	132			4180	7.60	1.27	1.176
2,2',3,3',5,5'-HxCB	133			721	7.02	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	863	7.21	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	7450	0.368	1.27	1.105
2,2',3,3',6,6'-HxCB	136		B	1310	0.253	1.28	1.026
2,2',3,4,4',5-HxCB	137			879	7.69	1.24	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	432	6.59	1.27	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2110	6.92	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		7.41		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			659	0.388	1.25	1.123
2,2',3,4,6,6'-HxCB	145			3.31	0.274	1.39	1.035
2,2',3,4',5,5'-HxCB	146		B	8480	6.34	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	18000	6.40	1.26	1.134
2,2',3,4',5,6'-HxCB	148			90.2	0.368	1.29	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			42.7	0.263	1.25	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	3.56	0.232	1.45	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			55.8	0.230	1.25	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2270	6.68	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	2070	5.00	1.24	0.938
2,3,3',4,5,5'-HxCB	159			117	5.48	1.31	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		5.24		
2,3,3',4',5,5'-HxCB	162			116	5.72	1.33	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			956	5.43	1.25	0.922
2,3,3',5,5',6-HxCB	165			43.1	5.91	1.30	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1140	4.90	1.28	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		26.5		
2,2',3,3',4,4',5-HpCB	170			3000	0.479	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1130	0.524	1.04	1.164
2,2',3,3',4,5,5'-HpCB	172			596	0.505	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			1890	0.477	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			241	0.481	1.04	1.102
2,2',3,3',4,6,6'-HpCB	176			395	0.347	1.04	1.034
2,2',3,3',4',5,6-HpCB	177			3040	0.459	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			1830	0.475	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	1520	0.336	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	10600	0.371	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			32.9	0.509	1.09	1.157
2,2',3,4,4',5,6'-HpCB	182			55.8	0.486	1.02	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	4010	0.490	1.06	1.126
2,2',3,4,4',6,6'-HpCB	184			41.9	0.334	1.10	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.375		
2,2',3,4',5,5',6-HpCB	187		B	15200	0.453	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			67.8	0.325	1.05	1.000
2,3,3',4,4',5,5'-HpCB	189			140	1.18	0.97	1.000
2,3,3',4,4',5,6-HpCB	190			582	0.364	1.06	0.947
2,3,3',4,4',5',6-HpCB	191			137	0.369	1.01	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.428		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1900	0.840	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			519	0.956	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			894	0.314	0.91	0.916
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	220	0.250	0.90	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	2590	0.334	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			435	0.254	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			1620	0.321	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			1600	0.318	0.90	0.919
2,2',3,4,4',5,6,6'-OxCB	204			4.11	0.255	0.85	1.038
2,3,3',4,4',5,5',6-OxCB	205			85.5	0.664	0.89	1.000
2,2',3,3',4,4',5,5',6-NoCB	206			2060	0.455	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	275	0.293	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			917	0.240	0.77	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			1030	0.267	0.70	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-11_Form1A_PB9C_331S7_SJ1078267_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-11

Matrix: TISSUE

Sample Size: 0.168 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 30-Oct-2009 Time: 14:37:03

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_331 S: 7

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_331 S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 79.2
% Lipid: 1.62

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	34.3	3.22	2.84	1.000
3-MoCB	2		K B	18.7	3.49	3.70	0.988
4-MoCB	3		K B	23.5	3.50	3.80	1.001
2,2'-DiCB	4			195	28.0	1.56	1.001
2,3-DiCB	5		U		18.0		
2,3'-DiCB	6			119	15.6	1.58	1.174
2,4-DiCB	7		U		15.7		
2,4'-DiCB	8		B	507	14.1	1.59	1.207
2,5-DiCB	9		K	32.9	15.5	2.23	1.143
2,6-DiCB	10		U		14.8		
3,3'-DiCB	11		B	407	17.8	1.59	0.969
3,4-DiCB	12	12 + 13	C U		17.8		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		17.0		
4,4'-DiCB	15			74.2	16.6	1.56	0.999
2,2',3-TriCB	16			452	3.30	1.12	1.165
2,2',4-TriCB	17		B	674	3.01	1.05	1.136
2,2',5-TriCB	18	18 + 30	C B	2110	2.98	1.06	1.112
2,2',6-TriCB	19		K	208	3.67	1.22	1.001
2,3,3'-TriCB	20	20 + 28	C B	12100	15.8	1.01	0.848
2,3,4-TriCB	21	21 + 33	C B	2080	14.7	0.98	0.857
2,3,4'-TriCB	22		B	2450	17.5	0.97	0.872
2,3,5-TriCB	23		U		16.0		
2,3,6-TriCB	24			47.1	2.98	0.88	1.157
2,3',4-TriCB	25			792	13.2	1.00	0.825
2,3',5-TriCB	26	26 + 29	C B	1830	15.9	1.01	1.299
2,3',6-TriCB	27			256	2.98	1.10	1.150
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		B	6090	14.6	1.00	0.836
2,4',6-TriCB	32			992	14.2	0.99	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	29.3	15.8	0.71	1.271
3,3',4-TriCB	35		U		20.3		
3,3',5-TriCB	36		U		16.7		
3,4,4'-TriCB	37		B	568	16.8	0.97	1.001
3,4,5-TriCB	38		K	53.2	16.5	0.75	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	92.3	17.1	0.85	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	6920	2.98	0.78	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	6140	2.98	0.79	1.310
2,2',3,5'-TeCB	43			774	2.98	0.75	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	29300	2.98	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C	1620	2.98	0.79	1.146
2,2',3,6'-TeCB	46			306	2.98	0.78	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	1810	2.98	0.80	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	18300	2.98	0.79	1.258
2,2',4,6'-TeCB	50	50 + 53	C B	1930	2.98	0.78	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	46100	2.98	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	10.0	2.98	0.94	1.001
2,3,3',4'-TeCB	55		U		29.8		
2,3,3',4'-TeCB	56		B	8860	29.8	0.77	0.905
2,3,3',5'-TeCB	57			256	27.2	0.74	0.843
2,3,3',5'-TeCB	58			205	25.9	0.77	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	2780	2.98	0.79	1.300
2,3,4,4'-TeCB	60		B	8860	29.9	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	59600	26.6	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			2640	26.9	0.75	0.864
2,3,4',6'-TeCB	64		B	9670	2.98	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	43700	27.0	0.76	0.884
2,3',4,5'-TeCB	67			1010	24.4	0.75	0.855
2,3',4,5'-TeCB	68			1230	26.0	0.73	0.830
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			1470	26.3	0.77	0.822
2,3',5',6'-TeCB	73		U		2.98		
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		B	2810	26.0	0.79	1.000
3,3',4,5'-TeCB	78		U		31.8		
3,3',4,5'-TeCB	79			1440	24.4	0.87	0.969
3,3',5,5'-TeCB	80		U		27.1		
3,4,4',5'-TeCB	81		K	104	27.8	0.76	1.000
2,2',3,3',4'-PeCB	82			6920	77.4	1.56	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	100000	68.0	1.58	0.885
2,2',3,3',6'-PeCB	84		B	13400	70.5	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	29600	59.0	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	71700	57.9	1.58	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	15000	62.4	1.57	1.154
2,2',3,4,6'-PeCB	89			299	68.0	1.72	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	178000	56.9	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	32900	67.4	1.56	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	81100	59.6	1.58	1.121
2,2',3,5,6'-PeCB	94			337	65.5	1.68	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			101	2.98	1.54	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			1630	55.3	1.56	1.093
2,2',4,6,6'-PeCB	104		K	14.9	3.50	1.10	1.001
2,3,3',4,4'-PeCB	105		B	59800	254	1.52	1.000
2,3,3',4,5-PeCB	106		U		274		
2,3,3',4',5-PeCB	107	107 + 124	C	5140	294	1.49	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			20600	291	1.52	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	132000	51.8	1.57	0.925
2,3,3',5,5'-PeCB	111			462	51.3	1.63	0.945
2,3,3',5,6-PeCB	112		U		50.5		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			2690	297	1.54	1.001
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		B	167000	222	1.52	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			2330	51.5	1.61	0.958
2,3',4,5',6-PeCB	121			117	50.7	1.43	1.198
2',3,3',4,5-PeCB	122			705	328	1.54	1.011
2',3,4,4',5-PeCB	123			2360	301	1.51	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			477	390	1.48	1.000
3,3',4,5,5'-PeCB	127			319	314	1.58	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	67400	83.6	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	517000	83.0	1.25	0.929
2,2',3,3',4,5'-HxCB	130			23600	107	1.26	0.914
2,2',3,3',4,6-HxCB	131			1860	91.1	1.27	1.161
2,2',3,3',4,6'-HxCB	132			54200	98.6	1.27	1.176
2,2',3,3',5,5'-HxCB	133			9360	91.1	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	11200	93.6	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	96700	4.78	1.27	1.105
2,2',3,3',6,6'-HxCB	136		B	17000	3.28	1.28	1.026
2,2',3,4,4',5-HxCB	137			11400	99.8	1.24	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	5600	85.5	1.27	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			27400	89.8	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		96.1		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			8550	5.03	1.25	1.123
2,2',3,4,6,6'-HxCB	145			43.0	3.56	1.39	1.035
2,2',3,4',5,5'-HxCB	146		B	110000	82.3	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	233000	83.0	1.26	1.134
2,2',3,4',5,6'-HxCB	148			1170	4.78	1.29	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			554	3.41	1.25	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	46.2	3.01	1.45	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			724	2.98	1.25	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	29400	86.7	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	26900	64.9	1.24	0.938
2,3,3',4,5,5'-HxCB	159			1520	71.1	1.31	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		68.0		
2,3,3',4',5,5'-HxCB	162			1500	74.2	1.33	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			12400	70.5	1.25	0.922
2,3,3',5,5',6-HxCB	165			559	76.7	1.30	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			14800	63.6	1.28	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		344		
2,2',3,3',4,4',5'-HpCB	170			38900	6.21	1.05	0.936
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C	14700	6.80	1.04	1.164
2,2',3,3',4,5,5'-HpCB	172			7740	6.55	1.04	0.897
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			24500	6.19	1.04	1.134
2,2',3,3',4,5',6'-HpCB	175			3130	6.24	1.04	1.102
2,2',3,3',4,6',6'-HpCB	176			5120	4.50	1.04	1.034
2,2',3,3',4',5,6'-HpCB	177			39500	5.95	1.05	1.146
2,2',3,3',5,5',6'-HpCB	178			23800	6.16	1.05	1.085
2,2',3,3',5,6',6'-HpCB	179		B	19700	4.36	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	137000	4.82	1.05	0.910
2,2',3,4,4',5,6'-HpCB	181			427	6.61	1.09	1.157
2,2',3,4,4',5,6'-HpCB	182			724	6.30	1.02	1.116
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C B	52000	6.36	1.06	1.126
2,2',3,4,4',6',6'-HpCB	184			544	4.33	1.10	1.024
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6',6'-HpCB	186		U		4.86		
2,2',3,4',5,5',6'-HpCB	187		B	197000	5.88	1.05	1.110
2,2',3,4',5,6',6'-HpCB	188			880	4.22	1.05	1.000
2,3,3',4,4',5,5'-HpCB	189			1820	15.3	0.97	1.000
2,3,3',4,4',5,6'-HpCB	190			7550	4.72	1.06	0.947
2,3,3',4,4',5',6'-HpCB	191			1780	4.79	1.01	0.917
2,3,3',4,5,5',6'-HpCB	192		U		5.56		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			24600	10.9	0.90	0.991
2,2',3,3',4,4',5,6'-OxCB	195			6740	12.4	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			11600	4.07	0.91	0.916
2,2',3,3',4,4',6'-OxCB	197	197 + 200	C	2860	3.25	0.90	1.045
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C	33600	4.34	0.91	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6',6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6',6'-OxCB	201			5640	3.29	0.91	1.022
2,2',3,3',5,5',6',6'-OxCB	202			21000	4.16	0.91	1.000
2,2',3,4,4',5,5',6'-OxCB	203			20800	4.12	0.90	0.919
2,2',3,4,4',5,6',6'-OxCB	204			53.3	3.31	0.85	1.038
2,3,3',4,4',5,5',6'-OxCB	205			1110	8.61	0.89	1.000
2,2',3,3',4,4',5,5',6'-NoCB	206			26700	5.90	0.78	1.000
2,2',3,3',4,4',5,6',6'-NoCB	207		T	3570	3.80	0.79	1.020
2,2',3,3',4,5,5',6',6'-NoCB	208			11900	3.12	0.77	1.001
2,2',3,3',4,4',5,5',6',6'-DeCB	209			13400	3.47	0.70	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-11_Form1A_PB9C_331S7_SJ1078267_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 03:57:03

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-11 W

Sample Size: 10.5 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 8

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 79.2
% Lipid: 1.62

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	7190	8.80	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 03:57:03

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-11 W

Sample Size: 2.18 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 8

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 79.2
% Lipid: 1.62

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	34600	42.3	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 03:57:03

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-11 W
Sample Size: 0.168 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 8
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 79.2
% Lipid: 1.62

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		X				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	449000	549	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-11_Form1A_PB9C_357S8_SJ1090790_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 30-Oct-2009 Time: 14:37:03
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-11
Sample Size: 10.5 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 7
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 79.2
% Lipid: 1.62

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	463	23.1	3.25	0.722
13C12-4-MoCB	3L			2000	588	29.4	3.21	0.860
13C12-2,2'-DiCB	4L			2000	655	32.7	1.58	0.876
13C12-4,4'-DiCB	15L			2000	872	43.6	1.58	1.254
13C12-2,2',6-TriCB	19L			2000	908	45.4	1.06	1.073
13C12-3,4,4'-TriCB	37L			2000	1150	57.6	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1140	56.8	0.81	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1370	68.7	0.79	1.396
13C12-3,4,4',5-TeCB	81L			2000	1360	68.0	0.80	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1130	56.5	1.62	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1400	70.0	1.54	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1170	58.6	1.59	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1540	76.9	1.57	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1220	60.9	1.57	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1120	56.0	1.54	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1150	57.3	1.26	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2370	59.2	1.29	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1180	59.0	1.30	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1230	61.7	1.28	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1340	67.0	1.07	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1630	81.6	1.06	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1420	71.0	1.05	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1430	71.4	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1430	71.7	0.93	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1770	88.4	0.94	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2950	148	0.85	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1610	80.7	0.81	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1630	81.6	1.19	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1170	58.3	1.05	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	1380	68.8	1.60	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1270	63.3	1.03	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Squamscott R. -11 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 03:57:03
Extract Volume (uL): 100
Injection Volume (uL): 1.0
Dilution Factor: 5
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-11 W
Sample Size: 10.5 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 8
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 79.2
% Lipid: 1.62

LABELED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		X					
13C12-3,3',4,4'-TeCB	77L		X					
13C12-3,4,4',5-TeCB	81L		X					
13C12-2,2',4,6,6'-PeCB	104L		X					
13C12-2,3,3',4,4'-PeCB	105L		X					
13C12-2,3,4,4',5-PeCB	114L		X					
13C12-2,3',4,4',5-PeCB	118L		X					
13C12-2',3,4,4',5-PeCB	123L		X					
13C12-3,3',4,4',5-PeCB	126L		X					
13C12-2,2',4,4',6,6'-HxCB	155L		D	2000	1250	62.3	1.27	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C D	4000	3200	80.1	1.28	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		D	2000	1580	79.2	1.38	1.077
13C12-3,3',4,4',5,5'-HxCB	169L		D	2000	1600	80.1	1.31	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L		X					
13C12-2,2',3,4,4',5,5'-HpCB	180L		X					
13C12-2,2',3,4',5,6,6'-HpCB	188L		X					
13C12-2,3,3',4,4',5,5'-HpCB	189L		X					
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		X					
13C12-2,3,3',4,4',5,5',6-OxCB	205L		X					
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 15:41:26

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13

Sample Size: 10.1 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_331 S: 8

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 76.9
% Lipid: 2.26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.562	0.0612	3.14	1.001
3-MoCB	2		K B	0.355	0.0703	2.37	0.988
4-MoCB	3		K B	0.385	0.0738	3.64	1.000
2,2'-DiCB	4			4.18	0.455	1.53	1.001
2,3-DiCB	5		U		0.314		
2,3'-DiCB	6			1.86	0.272	1.55	1.176
2,4-DiCB	7		K	0.321	0.274	2.26	1.157
2,4'-DiCB	8		B	8.05	0.246	1.55	1.207
2,5-DiCB	9			0.602	0.271	1.58	1.145
2,6-DiCB	10		U		0.259		
3,3'-DiCB	11		B	26.5	0.310	1.49	0.968
3,4-DiCB	12	12 + 13	C U		0.310		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.297		
4,4'-DiCB	15			1.30	0.301	1.56	0.999
2,2',3-TriCB	16			7.25	0.0820	0.96	1.166
2,2',4-TriCB	17		B	8.61	0.0747	0.99	1.137
2,2',5-TriCB	18	18 + 30	C B	29.3	0.0620	1.09	1.113
2,2',6-TriCB	19			3.32	0.0890	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	197	0.0594	1.00	0.848
2,3,4-TriCB	21	21 + 33	C B	32.0	0.0552	1.01	0.857
2,3,4'-TriCB	22		B	39.8	0.0658	1.01	0.872
2,3,5-TriCB	23			0.086	0.0602	0.98	1.282
2,3,6-TriCB	24		K	0.554	0.0579	0.58	1.158
2,3',4-TriCB	25			10.8	0.0496	1.00	0.824
2,3',5-TriCB	26	26 + 29	C B	26.5	0.0597	1.02	1.299
2,3',6-TriCB	27			3.37	0.0511	1.09	1.150
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		B	104	0.0547	1.02	0.837
2,4',6-TriCB	32			16.2	0.0531	1.01	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	0.325	0.0594	0.75	1.272
3,3',4-TriCB	35		K	0.252	0.0761	2.64	0.986
3,3',5-TriCB	36		U		0.0625		
3,4,4'-TriCB	37		B	8.44	0.0639	1.03	1.001
3,4,5-TriCB	38			0.954	0.0621	1.10	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			1.34	0.0641	0.88	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	114	0.0845	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	112	0.0871	0.79	1.310
2,2',3,5'-TeCB	43			9.45	0.0907	0.78	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	557	0.0747	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	21.7	0.0761	0.80	1.146
2,2',3,6'-TeCB	46			4.57	0.0868	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	24.8	0.0824	0.85	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	373	0.0698	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	28.1	0.0723	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	973	0.0753	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	0.158	0.0618	1.10	1.000
2,3,3',4'-TeCB	55		U		1.29		
2,3,3',4'-TeCB	56		B	162	1.29	0.75	0.905
2,3,3',5'-TeCB	57			3.49	1.18	0.76	0.843
2,3,3',5'-TeCB	58			3.64	1.12	0.78	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	48.4	0.0617	0.79	1.299
2,3,4,4'-TeCB	60		B	155	1.30	0.75	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	1260	1.15	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			49.5	1.17	0.75	0.864
2,3,4',6'-TeCB	64		B	173	0.0613	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	765	1.17	0.75	0.884
2,3',4,5'-TeCB	67			15.6	1.06	0.77	0.856
2,3',4,5'-TeCB	68			18.2	1.13	0.75	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			25.4	1.14	0.75	0.822
2,3',5',6'-TeCB	73		U		0.0632		
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		B	41.6	1.10	0.75	1.001
3,3',4,5'-TeCB	78		U		1.38		
3,3',4,5'-TeCB	79			34.1	1.06	0.75	0.969
3,3',5,5'-TeCB	80		U		1.17		
3,4,4',5'-TeCB	81		K	1.84	1.25	0.77	1.000
2,2',3,3',4'-PeCB	82			164	0.136	1.54	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	3290	0.120	1.58	0.885
2,2',3,3',6'-PeCB	84		B	291	0.125	1.57	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	655	0.104	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1740	0.102	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	264	0.110	1.59	1.154
2,2',3,4,6'-PeCB	89			4.36	0.120	1.59	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	3480	0.100	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	715	0.119	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	1750	0.105	1.59	1.121
2,2',3,5,6'-PeCB	94			4.79	0.116	1.48	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			1.68	0.108	1.50	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			27.1	0.0977	1.58	1.093
2,2',4,6,6'-PeCB	104		U		0.150		
2,3,3',4,4'-PeCB	105		B	1390	4.60	1.53	1.000
2,3,3',4,5-PeCB	106		U		5.26		
2,3,3',4',5-PeCB	107	107 + 124	C	88.5	5.63	1.54	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			403	5.58	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	2460	0.0914	1.57	0.925
2,3,3',5,5'-PeCB	111			8.61	0.0906	1.54	0.945
2,3,3',5,6-PeCB	112		U		0.0891		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			76.4	5.99	1.51	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		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			38.9	0.0910	1.58	0.958
2,3',4,5',6-PeCB	121			2.45	0.0896	1.46	1.198
2',3,3',4,5-PeCB	122			17.3	6.28	1.55	1.010
2',3,4,4',5-PeCB	123			54.2	6.11	1.54	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			8.82	7.44	1.49	1.000
3,3',4,5,5'-PeCB	127			9.88	6.02	1.53	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	1740	5.55	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	12500	5.50	1.26	0.929
2,2',3,3',4,5'-HxCB	130			511	7.10	1.26	0.913
2,2',3,3',4,6-HxCB	131			40.8	6.04	1.22	1.161
2,2',3,3',4,6'-HxCB	132			972	6.54	1.26	1.176
2,2',3,3',5,5'-HxCB	133			184	6.03	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	228	6.23	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1990	0.141	1.27	1.105
2,2',3,3',6,6'-HxCB	136		B	351	0.0967	1.27	1.026
2,2',3,4,4',5-HxCB	137			352	6.63	1.26	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	110	5.65	1.25	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			579	5.96	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		6.39		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			194	0.148	1.26	1.122
2,2',3,4,6,6'-HxCB	145			0.823	0.105	1.07	1.035
2,2',3,4',5,5'-HxCB	146		B	2360	5.45	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	4320	5.52	1.26	1.134
2,2',3,4',5,6'-HxCB	148			22.3	0.141	1.25	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			7.44	0.101	1.25	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.787	0.0889	1.30	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			7.06	0.0846	1.28	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	690	5.73	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	591	4.30	1.26	0.938
2,3,3',4,5,5'-HxCB	159			30.7	4.70	1.23	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		4.49		
2,3,3',4',5,5'-HxCB	162			32.7	4.93	1.25	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			218	4.66	1.27	0.922
2,3,3',5,5',6-HxCB	165			12.2	5.11	1.26	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			311	4.20	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		7.63		
2,2',3,3',4,4',5-HpCB	170			892	0.160	1.05	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	314	0.175	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			170	0.168	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			469	0.159	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			66.4	0.161	1.03	1.102
2,2',3,3',4,6,6'-HpCB	176			98.7	0.116	1.05	1.035
2,2',3,3',4',5,6-HpCB	177			739	0.153	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			493	0.159	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	380	0.113	1.07	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	3050	0.124	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			9.25	0.170	1.02	1.156
2,2',3,4,4',5,6'-HpCB	182			16.3	0.162	1.07	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	1090	0.165	1.06	1.127
2,2',3,4,4',6,6'-HpCB	184			5.65	0.112	1.00	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.125		
2,2',3,4',5,5',6-HpCB	187		B	4390	0.151	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			14.5	0.101	1.06	1.001
2,3,3',4,4',5,5'-HpCB	189			33.9	0.300	1.00	1.001
2,3,3',4,4',5,6-HpCB	190			157	0.122	1.03	0.948
2,3,3',4,4',5',6-HpCB	191			36.6	0.123	1.07	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.144		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			409	0.179	0.88	0.991
2,2',3,3',4,4',5,6-OxCB	195			113	0.202	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			201	0.118	0.93	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	54.1	0.0940	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	705	0.125	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			97.5	0.0950	0.93	1.023
2,2',3,3',5,5',6,6'-OxCB	202			319	0.124	0.90	1.001
2,2',3,4,4',5,5',6-OxCB	203			329	0.119	0.90	0.920
2,2',3,4,4',5,6,6'-OxCB	204			0.832	0.0957	0.88	1.038
2,3,3',4,4',5,5',6-OxCB	205			19.8	0.138	0.91	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	354	0.220	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	44.5	0.145	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			161	0.118	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			172	0.0952	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-13_Form1A_PB9C_331S8_SJ1078269.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 15:41:26

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13

Sample Size: 2.33 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_331 S: 8

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 76.9
% Lipid: 2.26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	2.44	0.265	3.14	1.001
3-MoCB	2		K B	1.54	0.305	2.37	0.988
4-MoCB	3		K B	1.67	0.319	3.64	1.000
2,2'-DiCB	4			18.1	1.98	1.53	1.001
2,3-DiCB	5		U		1.36		
2,3'-DiCB	6			8.06	1.18	1.55	1.176
2,4-DiCB	7		K	1.40	1.19	2.26	1.157
2,4'-DiCB	8		B	34.9	1.06	1.55	1.207
2,5-DiCB	9			2.61	1.18	1.58	1.145
2,6-DiCB	10		U		1.12		
3,3'-DiCB	11		B	115	1.35	1.49	0.968
3,4-DiCB	12	12 + 13	C U		1.35		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.29		
4,4'-DiCB	15			5.63	1.31	1.56	0.999
2,2',3-TriCB	16			31.5	0.356	0.96	1.166
2,2',4-TriCB	17		B	37.3	0.323	0.99	1.137
2,2',5-TriCB	18	18 + 30	C B	127	0.268	1.09	1.113
2,2',6-TriCB	19			14.3	0.386	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	854	0.258	1.00	0.848
2,3,4-TriCB	21	21 + 33	C B	139	0.239	1.01	0.857
2,3,4'-TriCB	22		B	173	0.285	1.01	0.872
2,3,5-TriCB	23			0.372	0.261	0.98	1.282
2,3,6-TriCB	24		K	2.40	0.251	0.58	1.158
2,3',4-TriCB	25			46.8	0.215	1.00	0.824
2,3',5-TriCB	26	26 + 29	C B	115	0.258	1.02	1.299
2,3',6-TriCB	27			14.6	0.221	1.09	1.150
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		B	451	0.237	1.02	0.837
2,4',6-TriCB	32			70.2	0.230	1.01	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	1.41	0.258	0.75	1.272
3,3',4-TriCB	35		K	1.09	0.330	2.64	0.986
3,3',5-TriCB	36		U		0.271		
3,4,4'-TriCB	37		B	36.6	0.277	1.03	1.001
3,4,5-TriCB	38			4.14	0.269	1.10	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			5.81	0.278	0.88	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	494	0.367	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	486	0.377	0.79	1.310
2,2',3,5'-TeCB	43			41.0	0.393	0.78	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	2420	0.323	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	94.1	0.330	0.80	1.146
2,2',3,6'-TeCB	46			19.9	0.376	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	107	0.357	0.85	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	1620	0.303	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	122	0.314	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	4220	0.326	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	0.685	0.268	1.10	1.000
2,3,3',4'-TeCB	55		U		5.59		
2,3,3',4'-TeCB	56		B	702	5.59	0.75	0.905
2,3,3',5'-TeCB	57			15.1	5.11	0.76	0.843
2,3,3',5'-TeCB	58			15.8	4.86	0.78	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	209	0.267	0.79	1.299
2,3,4,4'-TeCB	60		B	672	5.63	0.75	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	5460	4.98	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			214	5.07	0.75	0.864
2,3,4',6'-TeCB	64		B	750	0.265	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	3310	5.07	0.75	0.884
2,3',4,5'-TeCB	67			67.6	4.60	0.77	0.856
2,3',4,5'-TeCB	68			78.9	4.89	0.75	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			110	4.94	0.75	0.822
2,3',5',6'-TeCB	73		U		0.274		
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		B	180	4.77	0.75	1.001
3,3',4,5'-TeCB	78		U		5.99		
3,3',4,5'-TeCB	79			147	4.60	0.75	0.969
3,3',5,5'-TeCB	80		U		5.07		
3,4,4',5'-TeCB	81		K	7.98	5.42	0.77	1.000
2,2',3,3',4'-PeCB	82			711	0.590	1.54	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	14300	0.520	1.58	0.885
2,2',3,3',6'-PeCB	84		B	1260	0.542	1.57	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	2840	0.451	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	7540	0.442	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1140	0.477	1.59	1.154
2,2',3,4,6'-PeCB	89			18.9	0.520	1.59	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	15000	0.433	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	3100	0.516	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	7590	0.455	1.59	1.121
2,2',3,5,6'-PeCB	94			20.7	0.503	1.48	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			7.28	0.468	1.50	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			118	0.424	1.58	1.093
2,2',4,6,6'-PeCB	104		U		0.651		
2,3,3',4,4'-PeCB	105		B	6020	20.0	1.53	1.000
2,3,3',4,5-PeCB	106		U		22.8		
2,3,3',4',5-PeCB	107	107 + 124	C	383	24.4	1.54	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1750	24.2	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	10600	0.396	1.57	0.925
2,3,3',5,5'-PeCB	111			37.3	0.393	1.54	0.945
2,3,3',5,6-PeCB	112		U		0.386		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			331	25.9	1.51	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		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			169	0.394	1.58	0.958
2,3',4,5',6-PeCB	121			10.6	0.388	1.46	1.198
2',3,3',4,5-PeCB	122			75.0	27.2	1.55	1.010
2',3,4,4',5-PeCB	123			235	26.4	1.54	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			38.2	32.2	1.49	1.000
3,3',4,5,5'-PeCB	127			42.9	26.1	1.53	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	7540	24.1	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	54200	23.9	1.26	0.929
2,2',3,3',4,5'-HxCB	130			2210	30.8	1.26	0.913
2,2',3,3',4,6-HxCB	131			177	26.1	1.22	1.161
2,2',3,3',4,6'-HxCB	132			4220	28.3	1.26	1.176
2,2',3,3',5,5'-HxCB	133			798	26.1	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	993	27.0	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	8630	0.611	1.27	1.105
2,2',3,3',6,6'-HxCB	136		B	1520	0.419	1.27	1.026
2,2',3,4,4',5-HxCB	137			1520	28.7	1.26	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	477	24.5	1.25	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2510	25.8	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		27.7		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			841	0.642	1.26	1.122
2,2',3,4,6,6'-HxCB	145			3.57	0.455	1.07	1.035
2,2',3,4',5,5'-HxCB	146		B	10200	23.6	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	18800	23.9	1.26	1.134
2,2',3,4',5,6'-HxCB	148			96.7	0.611	1.25	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			32.2	0.437	1.25	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			3.41	0.385	1.30	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			30.6	0.367	1.28	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2990	24.9	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	2570	18.7	1.26	0.938
2,3,3',4,5,5'-HxCB	159			133	20.3	1.23	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		19.5		
2,3,3',4',5,5'-HxCB	162			142	21.3	1.25	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			945	20.2	1.27	0.922
2,3,3',5,5',6-HxCB	165			52.9	22.1	1.26	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1350	18.2	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		33.1		
2,2',3,3',4,4',5'-HpCB	170			3860	0.694	1.05	0.937
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C	1360	0.759	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			737	0.728	1.06	0.897
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			2030	0.689	1.05	1.134
2,2',3,3',4,5',6'-HpCB	175			288	0.698	1.03	1.102
2,2',3,3',4,6',6'-HpCB	176			428	0.503	1.05	1.035
2,2',3,3',4',5,6'-HpCB	177			3200	0.663	1.04	1.146
2,2',3,3',5,5',6'-HpCB	178			2130	0.689	1.06	1.085
2,2',3,3',5,6',6'-HpCB	179		B	1650	0.489	1.07	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	13300	0.538	1.05	0.910
2,2',3,4,4',5,6'-HpCB	181			40.1	0.737	1.02	1.156
2,2',3,4,4',5,6'-HpCB	182			70.7	0.702	1.07	1.116
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C B	4730	0.716	1.06	1.127
2,2',3,4,4',6',6'-HpCB	184			24.5	0.486	1.00	1.024
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6',6'-HpCB	186		U		0.542		
2,2',3,4',5,5',6'-HpCB	187		B	19100	0.655	1.05	1.110
2,2',3,4',5,6',6'-HpCB	188			62.9	0.437	1.06	1.001
2,3,3',4,4',5,5'-HpCB	189			147	1.30	1.00	1.001
2,3,3',4,4',5,6'-HpCB	190			680	0.529	1.03	0.948
2,3,3',4,4',5',6'-HpCB	191			158	0.533	1.07	0.918
2,3,3',4,5,5',6'-HpCB	192		U		0.624		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1770	0.775	0.88	0.991
2,2',3,3',4,4',5,6'-OxCB	195			489	0.876	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			872	0.511	0.93	0.916
2,2',3,3',4,4',6'-OxCB	197	197 + 200	C	235	0.408	0.89	1.045
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C	3060	0.542	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6',6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6',6'-OxCB	201			423	0.412	0.93	1.023
2,2',3,3',5,5',6',6'-OxCB	202			1390	0.538	0.90	1.001
2,2',3,4,4',5,5',6'-OxCB	203			1430	0.516	0.90	0.920
2,2',3,4,4',5,6',6'-OxCB	204			3.61	0.415	0.88	1.038
2,3,3',4,4',5,5',6'-OxCB	205			85.8	0.599	0.91	1.000
2,2',3,3',4,4',5,5',6'-NoCB	206		T	1530	0.953	0.78	1.000
2,2',3,3',4,4',5,6',6'-NoCB	207		T	193	0.629	0.79	1.020
2,2',3,3',4,5,5',6',6'-NoCB	208			698	0.511	0.79	1.001
2,2',3,3',4,4',5,5',6',6'-DeCB	209			746	0.413	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-13_Form1A_PB9C_331S8_SJ1078269_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 15:41:26

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13

Sample Size: 0.229 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_331 S: 8

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

% Moisture: 76.9
% Lipid: 2.26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	24.8	2.70	3.14	1.001
3-MoCB	2		K B	15.7	3.10	2.37	0.988
4-MoCB	3		K B	17.0	3.25	3.64	1.000
2,2'-DiCB	4			184	20.1	1.53	1.001
2,3-DiCB	5		U		13.8		
2,3'-DiCB	6			82.0	12.0	1.55	1.176
2,4-DiCB	7		K	14.2	12.1	2.26	1.157
2,4'-DiCB	8		B	355	10.8	1.55	1.207
2,5-DiCB	9			26.6	12.0	1.58	1.145
2,6-DiCB	10		U		11.4		
3,3'-DiCB	11		B	1170	13.7	1.49	0.968
3,4-DiCB	12	12 + 13	C U		13.7		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		13.1		
4,4'-DiCB	15			57.3	13.3	1.56	0.999
2,2',3-TriCB	16			320	3.62	0.96	1.166
2,2',4-TriCB	17		B	380	3.29	0.99	1.137
2,2',5-TriCB	18	18 + 30	C B	1290	2.73	1.09	1.113
2,2',6-TriCB	19			146	3.93	1.04	1.001
2,3,3'-TriCB	20	20 + 28	C B	8690	2.62	1.00	0.848
2,3,4-TriCB	21	21 + 33	C B	1410	2.43	1.01	0.857
2,3,4'-TriCB	22		B	1760	2.90	1.01	0.872
2,3,5-TriCB	23			3.79	2.66	0.98	1.282
2,3,6-TriCB	24		K	24.4	2.55	0.58	1.158
2,3',4-TriCB	25			476	2.19	1.00	0.824
2,3',5-TriCB	26	26 + 29	C B	1170	2.63	1.02	1.299
2,3',6-TriCB	27			149	2.25	1.09	1.150
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		B	4590	2.41	1.02	0.837
2,4',6-TriCB	32			714	2.34	1.01	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	14.3	2.62	0.75	1.272
3,3',4-TriCB	35		K	11.1	3.36	2.64	0.986
3,3',5-TriCB	36		U		2.76		
3,4,4'-TriCB	37		B	372	2.82	1.03	1.001
3,4,5-TriCB	38			42.1	2.74	1.10	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			59.1	2.83	0.88	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	5030	3.73	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	4940	3.84	0.79	1.310
2,2',3,5'-TeCB	43			417	4.00	0.78	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	24600	3.29	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	957	3.36	0.80	1.146
2,2',3,6'-TeCB	46			202	3.83	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	1090	3.63	0.85	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	16500	3.08	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	1240	3.19	0.80	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	42900	3.32	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	6.97	2.73	1.10	1.000
2,3,3',4'-TeCB	55		U		56.9		
2,3,3',4'-TeCB	56		B	7140	56.9	0.75	0.905
2,3,3',5'-TeCB	57			154	52.0	0.76	0.843
2,3,3',5'-TeCB	58			161	49.4	0.78	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	2130	2.72	0.79	1.299
2,3,4,4'-TeCB	60		B	6840	57.3	0.75	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	55600	50.7	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			2180	51.6	0.75	0.864
2,3,4',6'-TeCB	64		B	7630	2.70	0.79	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	33700	51.6	0.75	0.884
2,3',4,5'-TeCB	67			688	46.8	0.77	0.856
2,3',4,5'-TeCB	68			803	49.8	0.75	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			1120	50.3	0.75	0.822
2,3',5',6'-TeCB	73		U		2.79		
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		B	1830	48.5	0.75	1.001
3,3',4,5'-TeCB	78		U		60.9		
3,3',4,5'-TeCB	79			1500	46.8	0.75	0.969
3,3',5,5'-TeCB	80		U		51.6		
3,4,4',5'-TeCB	81		K	81.2	55.1	0.77	1.000
2,2',3,3',4'-PeCB	82			7230	6.00	1.54	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	145000	5.29	1.58	0.885
2,2',3,3',6'-PeCB	84		B	12800	5.51	1.57	1.163
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	28900	4.59	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	76700	4.50	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	11600	4.85	1.59	1.154
2,2',3,4,6'-PeCB	89			192	5.29	1.59	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	153000	4.41	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	31500	5.25	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	77200	4.63	1.59	1.121
2,2',3,5,6'-PeCB	94			211	5.12	1.48	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			74.1	4.76	1.50	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			1200	4.31	1.58	1.093
2,2',4,6,6'-PeCB	104		U		6.62		
2,3,3',4,4'-PeCB	105		B	61300	203	1.53	1.000
2,3,3',4,5-PeCB	106		U		232		
2,3,3',4',5-PeCB	107	107 + 124	C	3900	248	1.54	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			17800	246	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	108000	4.03	1.57	0.925
2,3,3',5,5'-PeCB	111			380	4.00	1.54	0.945
2,3,3',5,6-PeCB	112		U		3.93		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			3370	264	1.51	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		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			1720	4.01	1.58	0.958
2,3',4,5',6-PeCB	121			108	3.95	1.46	1.198
2',3,3',4,5-PeCB	122			763	277	1.55	1.010
2',3,4,4',5-PeCB	123			2390	269	1.54	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			389	328	1.49	1.000
3,3',4,5,5'-PeCB	127			436	266	1.53	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	76700	245	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	551000	243	1.26	0.929
2,2',3,3',4,5'-HxCB	130			22500	313	1.26	0.913
2,2',3,3',4,6-HxCB	131			1800	266	1.22	1.161
2,2',3,3',4,6'-HxCB	132			42900	288	1.26	1.176
2,2',3,3',5,5'-HxCB	133			8120	266	1.25	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	10100	275	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	87800	6.22	1.27	1.105
2,2',3,3',6,6'-HxCB	136		B	15500	4.26	1.27	1.026
2,2',3,4,4',5-HxCB	137			15500	292	1.26	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	4850	249	1.25	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			25500	263	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		282		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			8560	6.53	1.26	1.122
2,2',3,4,6,6'-HxCB	145			36.3	4.63	1.07	1.035
2,2',3,4',5,5'-HxCB	146		B	104000	240	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	191000	243	1.26	1.134
2,2',3,4',5,6'-HxCB	148			984	6.22	1.25	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			328	4.45	1.25	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			34.7	3.92	1.30	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			311	3.73	1.28	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	30400	253	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	26100	190	1.26	0.938
2,3,3',4,5,5'-HxCB	159			1350	207	1.23	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		198		
2,3,3',4',5,5'-HxCB	162			1440	217	1.25	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			9610	206	1.27	0.922
2,3,3',5,5',6-HxCB	165			538	225	1.26	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			13700	185	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		337		
2,2',3,3',4,4',5-HpCB	170			39300	7.06	1.05	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	13800	7.72	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			7500	7.41	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			20700	7.01	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			2930	7.10	1.03	1.102
2,2',3,3',4,6,6'-HpCB	176			4350	5.12	1.05	1.035
2,2',3,3',4',5,6-HpCB	177			32600	6.75	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			21700	7.01	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	16800	4.98	1.07	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	135000	5.47	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			408	7.50	1.02	1.156
2,2',3,4,4',5,6'-HpCB	182			719	7.14	1.07	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	48100	7.28	1.06	1.127
2,2',3,4,4',6,6'-HpCB	184			249	4.94	1.00	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		5.51		
2,2',3,4',5,5',6-HpCB	187		B	194000	6.66	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			640	4.45	1.06	1.001
2,3,3',4,4',5,5'-HpCB	189			1500	13.2	1.00	1.001
2,3,3',4,4',5,6-HpCB	190			6920	5.38	1.03	0.948
2,3,3',4,4',5',6-HpCB	191			1610	5.42	1.07	0.918
2,3,3',4,5,5',6-HpCB	192		U		6.35		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			18000	7.89	0.88	0.991
2,2',3,3',4,4',5,6-OxCB	195			4980	8.91	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			8870	5.20	0.93	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	2390	4.15	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	31100	5.51	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			4300	4.19	0.93	1.023
2,2',3,3',5,5',6,6'-OxCB	202			14100	5.47	0.90	1.001
2,2',3,4,4',5,5',6-OxCB	203			14500	5.25	0.90	0.920
2,2',3,4,4',5,6,6'-OxCB	204			36.7	4.22	0.88	1.038
2,3,3',4,4',5,5',6-OxCB	205			873	6.09	0.91	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	15600	9.70	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	1960	6.40	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			7100	5.20	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			7590	4.20	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-13_Form1A_PB9C_331S8_SJ1078269_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 02:52:41

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13 W

Sample Size: 10.1 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 7

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 76.9
% Lipid: 2.26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		B D	4400	14.0	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	8740	8.24	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-13_Form1A_PB9C_357S7_SJ1090788.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 02:52:41

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13 W

Sample Size: 2.33 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 7

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 76.9
% Lipid: 2.26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		B D	19100	60.6	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	37800	35.7	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6',6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		X				
2,2',3,3',4,4',5,6'-OcCB	195		X				
2,2',3,3',4,4',5,6'-OcCB	196		X				
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OcCB	198	198 + 199	C X				
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		X				
2,2',3,3',5,5',6,6'-OcCB	202		X				
2,2',3,4,4',5,5',6'-OcCB	203		X				
2,2',3,4,4',5,6,6'-OcCB	204		X				
2,3,3',4,4',5,5',6'-OcCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-13_Form1A_PB9C_357S7_SJ1090788_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 02:52:41

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13 W
Sample Size: 0.229 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 7
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 76.9
% Lipid: 2.26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C X				
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C X				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C X				
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		B D	194000	617	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C X				
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	385000	363	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C X				
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 30-Oct-2009 Time: 15:41:26
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13
Sample Size: 10.1 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 8
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 76.9
% Lipid: 2.26

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	548	27.4	3.24	0.721
13C12-4-MoCB	3L			2000	625	31.3	3.35	0.860
13C12-2,2'-DiCB	4L			2000	700	35.0	1.60	0.875
13C12-4,4'-DiCB	15L			2000	861	43.1	1.58	1.254
13C12-2,2',6-TriCB	19L			2000	906	45.3	1.06	1.072
13C12-3,4,4'-TriCB	37L			2000	1100	55.0	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1060	53.1	0.81	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1310	65.7	0.80	1.396
13C12-3,4,4',5-TeCB	81L			2000	1220	60.8	0.81	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1050	52.7	1.60	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1390	69.5	1.56	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1050	52.3	1.59	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1460	72.8	1.56	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1100	54.8	1.54	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1090	54.5	1.55	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1030	51.5	1.27	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2120	53.1	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	1050	52.4	1.29	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1060	53.1	1.29	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1550	77.4	1.05	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1800	90.1	1.04	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1500	75.2	1.04	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1330	66.6	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1460	73.0	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1910	95.7	0.93	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2740	137	0.84	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1580	78.9	0.83	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1710	85.7	1.20	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1040	51.9	1.03	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1360	67.8	1.58	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1140	57.0	1.05	1.011

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek - 12 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 02:52:41
Extract Volume (uL): 100
Injection Volume (uL): 1.0
Dilution Factor: 5
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-13 W
Sample Size: 10.1 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 7
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 76.9
% Lipid: 2.26

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		X					
13C12-3,3',4,4'-TeCB	77L		X					
13C12-3,4,4',5-TeCB	81L		X					
13C12-2,2',4,6,6'-PeCB	104L		X					
13C12-2,3,3',4,4'-PeCB	105L		X					
13C12-2,3,4,4',5-PeCB	114L		X					
13C12-2,3',4,4',5-PeCB	118L		D	2000	1640	82.2	1.51	1.161
13C12-2',3,4,4',5-PeCB	123L		X					
13C12-3,3',4,4',5-PeCB	126L		X					
13C12-2,2',4,4',6,6'-HxCB	155L		D	2000	1240	61.8	1.29	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C D	4000	3300	82.6	1.26	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		D	2000	1620	81.2	1.25	1.078
13C12-3,3',4,4',5,5'-HxCB	169L		D	2000	1650	82.5	1.30	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L		X					
13C12-2,2',3,4,4',5,5'-HpCB	180L		X					
13C12-2,2',3,4',5,6,6'-HpCB	188L		X					
13C12-2,3,3',4,4',5,5'-HpCB	189L		X					
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		X					
13C12-2,3,3',4,4',5,5',6-OxCB	205L		X					
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing -10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-16 L

Matrix: TISSUE

Sample Size: 10.2 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 25-Nov-2009 Time: 05:01:27

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_357 S: 9

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_357 S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 78.3
% Lipid: 2.60

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	0.629	0.338	3.87	1.001
3-MoCB	2		K B	0.640	0.449	4.50	0.987
4-MoCB	3		U		0.533		
2,2'-DiCB	4		U		3.40		
2,3-DiCB	5		U		2.60		
2,3'-DiCB	6		U		2.28		
2,4-DiCB	7		U		2.28		
2,4'-DiCB	8		K B	7.74	2.03	1.16	1.207
2,5-DiCB	9		U		2.24		
2,6-DiCB	10		U		2.04		
3,3'-DiCB	11		B	16.9	2.60	1.74	0.969
3,4-DiCB	12	12 + 13	C U		2.61		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		2.43		
4,4'-DiCB	15		U		2.96		
2,2',3-TriCB	16			3.35	0.403	0.94	1.165
2,2',4-TriCB	17		B	4.17	0.354	0.96	1.137
2,2',5-TriCB	18	18 + 30	C B	17.5	0.297	0.98	1.113
2,2',6-TriCB	19		K	1.75	0.459	0.79	1.001
2,3,3'-TriCB	20	20 + 28	C B	152	0.416	1.03	0.846
2,3,4-TriCB	21	21 + 33	C B	20.6	0.391	1.02	0.856
2,3,4'-TriCB	22		B	24.6	0.466	1.06	0.871
2,3,5-TriCB	23		U		0.411		
2,3,6-TriCB	24		K	0.365	0.264	0.35	1.158
2,3',4-TriCB	25			8.68	0.345	0.92	0.824
2,3',5-TriCB	26	26 + 29	C B	18.0	0.400	0.99	1.300
2,3',6-TriCB	27		K	2.04	0.257	0.84	1.150
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		B	73.7	0.375	1.02	0.836
2,4',6-TriCB	32			7.54	0.375	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.404		
3,3',4-TriCB	35		U		0.534		
3,3',5-TriCB	36		U		0.450		
3,4,4'-TriCB	37		B	6.18	0.484	1.03	1.001
3,4,5-TriCB	38		K	0.735	0.440	0.80	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	0.788	0.448	1.48	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	64.9	0.289	0.82	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	68.8	0.288	0.80	1.311
2,2',3,5'-TeCB	43			7.38	0.321	0.66	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	328	0.257	0.81	1.285
2,2',3,6'-TeCB	45	45 + 51	C	8.61	0.263	0.74	1.146
2,2',3,6'-TeCB	46		K	1.70	0.303	0.57	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	13.8	0.281	0.81	1.272
2,2',4,5'-TeCB	49	49 + 69	C B	208	0.236	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	11.5	0.245	0.84	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	399	0.263	0.80	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.264		
2,3,3',4'-TeCB	55		U		1.95		
2,3,3',4'-TeCB	56		B	102	1.92	0.79	0.905
2,3,3',5'-TeCB	57			3.91	1.79	0.83	0.843
2,3,3',5'-TeCB	58			4.96	1.90	0.82	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	30.0	0.216	0.80	1.301
2,3,4,4'-TeCB	60		B	97.9	1.95	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	811	1.80	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			33.6	1.78	0.77	0.864
2,3,4',6'-TeCB	64		B	91.7	0.209	0.76	1.348
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	577	1.83	0.78	0.884
2,3',4,5'-TeCB	67			11.6	1.64	0.77	0.855
2,3',4,5'-TeCB	68			13.6	1.73	0.70	0.830
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			16.6	1.73	0.74	0.821
2,3',5',6'-TeCB	73		U		0.209		
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		B	32.3	1.75	0.76	1.000
3,3',4,5'-TeCB	78		U		1.98		
3,3',4,5'-TeCB	79			21.7	1.62	0.73	0.969
3,3',5,5'-TeCB	80		U		1.78		
3,4,4',5'-TeCB	81		K	2.13	1.84	0.84	1.000
2,2',3,3',4'-PeCB	82			101	2.16	1.61	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	1900	1.95	1.57	0.885
2,2',3,3',6'-PeCB	84		B	112	2.10	1.59	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	399	1.67	1.56	0.919
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	896	1.66	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	114	1.83	1.56	1.155
2,2',3,4,6'-PeCB	89		U		1.95		
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	1760	1.66	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	366	1.94	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	628	1.76	1.57	1.120
2,2',3,5,6'-PeCB	94			2.35	1.96	1.60	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			0.573	0.224	1.69	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			18.0	1.63	1.61	1.093
2,2',4,6,6'-PeCB	104		U		0.338		
2,3,3',4,4'-PeCB	105		B	734	1.23	1.57	1.000
2,3,3',4,5-PeCB	106		U		1.30		
2,3,3',4',5-PeCB	107	107 + 124	C	52.3	1.33	1.54	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			272	1.29	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	1190	1.47	1.58	0.925
2,3,3',5,5'-PeCB	111			8.21	1.48	1.56	0.944
2,3,3',5,6-PeCB	112		U		1.36		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			37.0	1.40	1.66	1.001
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		B	2420	1.28	1.55	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			37.6	1.41	1.58	0.957
2,3',4,5',6-PeCB	121			1.76	1.47	1.37	1.198
2',3,3',4,5-PeCB	122			9.90	1.43	1.77	1.011
2',3,4,4',5-PeCB	123			29.4	1.39	1.43	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			5.33	1.55	1.51	1.000
3,3',4,5,5'-PeCB	127			5.21	1.36	1.60	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	648	2.71	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	4950	2.77	1.26	0.929
2,2',3,3',4,5'-HxCB	130			263	3.49	1.26	0.913
2,2',3,3',4,6-HxCB	131			16.6	3.23	1.32	1.161
2,2',3,3',4,6'-HxCB	132			395	3.30	1.25	1.177
2,2',3,3',5,5'-HxCB	133			115	3.04	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	90.9	3.13	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	868	0.338	1.29	1.106
2,2',3,3',6,6'-HxCB	136		B	114	0.246	1.33	1.026
2,2',3,4,4',5-HxCB	137			115	3.08	1.27	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	50.7	2.85	1.14	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			244	2.83	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		3.14		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			80.0	0.352	1.31	1.123
2,2',3,4,6,6'-HxCB	145		U		0.267		
2,2',3,4',5,5'-HxCB	146		B	1100	2.67	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	1550	2.76	1.26	1.135
2,2',3,4',5,6'-HxCB	148			18.0	0.349	1.26	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			4.15	0.248	1.13	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.241		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	5780	2.40	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			7.83	0.309	1.28	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	307	3.19	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	244	2.15	1.24	0.938
2,3,3',4,5,5'-HxCB	159			17.6	2.37	1.20	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		2.35		
2,3,3',4',5,5'-HxCB	162			21.1	2.46	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			122	2.39	1.29	0.922
2,3,3',5,5',6-HxCB	165			11.3	2.58	1.10	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			165	2.26	1.24	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		3.75		
2,2',3,3',4,4',5-HpCB	170			569	0.497	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	209	0.475	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			137	0.478	1.07	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			316	0.436	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			45.9	0.434	1.03	1.102
2,2',3,3',4,6,6'-HpCB	176			56.2	0.324	1.06	1.034
2,2',3,3',4',5,6-HpCB	177			519	0.424	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			344	0.430	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	222	0.307	1.08	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	1760	0.387	1.06	0.910
2,2',3,4,4',5,6-HpCB	181		K	5.02	0.458	1.30	1.157
2,2',3,4,4',5,6'-HpCB	182			14.6	0.415	1.00	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	659	0.427	1.06	1.126
2,2',3,4,4',6,6'-HpCB	184			5.51	0.303	1.08	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.328		
2,2',3,4',5,5',6-HpCB	187		B	2200	0.396	1.07	1.110
2,2',3,4',5,6,6'-HpCB	188			13.6	0.328	1.08	1.000
2,3,3',4,4',5,5'-HpCB	189			22.3	0.399	0.98	1.000
2,3,3',4,4',5,6-HpCB	190			102	0.381	1.11	0.947
2,3,3',4,4',5',6-HpCB	191			26.1	0.368	1.10	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.413		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			228	0.371	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			66.7	0.409	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			156	0.386	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	45.0	0.282	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	469	0.398	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			82.8	0.281	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			242	0.320	0.93	1.000
2,2',3,4,4',5,5',6-OxCB	203			234	0.385	0.90	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	0.734	0.287	1.08	1.039
2,3,3',4,4',5,5',6-OxCB	205			10.9	0.339	0.91	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	213	0.465	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	33.9	0.336	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			121	0.308	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			114	0.352	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-16_Form1A_PB9C_357S9_SJ1090792.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing -10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 05:01:27

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-16 L

Sample Size: 2.20 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 9

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 78.3
% Lipid: 2.60

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	2.90	1.56	3.87	1.001
3-MoCB	2		K B	2.95	2.07	4.50	0.987
4-MoCB	3		U		2.45		
2,2'-DiCB	4		U		15.7		
2,3-DiCB	5		U		12.0		
2,3'-DiCB	6		U		10.5		
2,4-DiCB	7		U		10.5		
2,4'-DiCB	8		K B	35.7	9.37	1.16	1.207
2,5-DiCB	9		U		10.3		
2,6-DiCB	10		U		9.41		
3,3'-DiCB	11		B	78.0	12.0	1.74	0.969
3,4-DiCB	12	12 + 13	C U		12.0		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		11.2		
4,4'-DiCB	15		U		13.7		
2,2',3-TriCB	16			15.5	1.86	0.94	1.165
2,2',4-TriCB	17		B	19.2	1.63	0.96	1.137
2,2',5-TriCB	18	18 + 30	C B	80.8	1.37	0.98	1.113
2,2',6-TriCB	19		K	8.08	2.12	0.79	1.001
2,3,3'-TriCB	20	20 + 28	C B	701	1.92	1.03	0.846
2,3,4-TriCB	21	21 + 33	C B	95.0	1.80	1.02	0.856
2,3,4'-TriCB	22		B	114	2.15	1.06	0.871
2,3,5-TriCB	23		U		1.90		
2,3,6-TriCB	24		K	1.68	1.22	0.35	1.158
2,3',4-TriCB	25			40.0	1.60	0.92	0.824
2,3',5-TriCB	26	26 + 29	C B	83.1	1.85	0.99	1.300
2,3',6-TriCB	27		K	9.41	1.19	0.84	1.150
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		B	340	1.73	1.02	0.836
2,4',6-TriCB	32			34.8	1.73	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		1.86		
3,3',4-TriCB	35		U		2.47		
3,3',5-TriCB	36		U		2.08		
3,4,4'-TriCB	37		B	28.5	2.24	1.03	1.001
3,4,5-TriCB	38		K	3.39	2.03	0.80	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	3.64	2.07	1.48	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	300	1.33	0.82	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	318	1.33	0.80	1.311
2,2',3,5'-TeCB	43			34.1	1.48	0.66	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	1510	1.19	0.81	1.285
2,2',3,6'-TeCB	45	45 + 51	C	39.8	1.21	0.74	1.146
2,2',3,6'-TeCB	46		K	7.85	1.40	0.57	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	63.7	1.29	0.81	1.272
2,2',4,5'-TeCB	49	49 + 69	C B	960	1.09	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	53.1	1.13	0.84	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1840	1.21	0.80	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		1.22		
2,3,3',4'-TeCB	55		U		9.00		
2,3,3',4'-TeCB	56		B	470	8.86	0.79	0.905
2,3,3',5'-TeCB	57			18.0	8.26	0.83	0.843
2,3,3',5'-TeCB	58			22.9	8.77	0.82	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	138	0.996	0.80	1.301
2,3,4,4'-TeCB	60		B	452	9.00	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	3740	8.31	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			155	8.21	0.77	0.864
2,3,4',6'-TeCB	64		B	423	0.965	0.76	1.348
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	2660	8.44	0.78	0.884
2,3',4,5'-TeCB	67			53.6	7.57	0.77	0.855
2,3',4,5'-TeCB	68			62.8	7.98	0.70	0.830
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			76.5	7.98	0.74	0.821
2,3',5',6'-TeCB	73		U		0.965		
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		B	149	8.08	0.76	1.000
3,3',4,5'-TeCB	78		U		9.14		
3,3',4,5'-TeCB	79			100	7.47	0.73	0.969
3,3',5,5'-TeCB	80		U		8.21		
3,4,4',5'-TeCB	81		K	9.83	8.49	0.84	1.000
2,2',3,3',4'-PeCB	82			466	9.96	1.61	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	8770	9.00	1.57	0.885
2,2',3,3',6'-PeCB	84		B	516	9.68	1.59	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	1840	7.70	1.56	0.919
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	4140	7.65	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	526	8.44	1.56	1.155
2,2',3,4,6'-PeCB	89		U		9.00		
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	8130	7.65	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	1690	8.95	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	2900	8.13	1.57	1.120
2,2',3,5,6'-PeCB	94			10.8	9.04	1.60	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			2.65	1.03	1.69	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			83.1	7.52	1.61	1.093
2,2',4,6,6'-PeCB	104		U		1.56		
2,3,3',4,4'-PeCB	105		B	3390	5.67	1.57	1.000
2,3,3',4,5-PeCB	106		U		6.00		
2,3,3',4',5-PeCB	107	107 + 124	C	242	6.14	1.54	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1260	5.95	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	5490	6.78	1.58	0.925
2,3,3',5,5'-PeCB	111			37.8	6.83	1.56	0.944
2,3,3',5,6-PeCB	112		U		6.28		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			170	6.46	1.66	1.001
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		B	11200	5.90	1.55	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			173	6.50	1.58	0.957
2,3',4,5',6-PeCB	121			8.13	6.78	1.37	1.198
2',3,3',4,5-PeCB	122			45.7	6.60	1.77	1.011
2',3,4,4',5-PeCB	123			135	6.41	1.43	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			24.5	7.15	1.51	1.000
3,3',4,5,5'-PeCB	127			24.1	6.28	1.60	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	2990	12.5	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	22900	12.8	1.26	0.929
2,2',3,3',4,5'-HxCB	130			1210	16.1	1.26	0.913
2,2',3,3',4,6-HxCB	131			76.5	14.9	1.32	1.161
2,2',3,3',4,6'-HxCB	132			1830	15.2	1.25	1.177
2,2',3,3',5,5'-HxCB	133			531	14.0	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	420	14.4	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	4000	1.56	1.29	1.106
2,2',3,3',6,6'-HxCB	136		B	526	1.14	1.33	1.026
2,2',3,4,4',5-HxCB	137			531	14.3	1.27	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	233	13.2	1.14	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			1130	13.1	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		14.5		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			369	1.62	1.31	1.123
2,2',3,4,6,6'-HxCB	145		U		1.23		
2,2',3,4',5,5'-HxCB	146		B	5080	12.3	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	7150	12.7	1.26	1.135
2,2',3,4',5,6'-HxCB	148			83.1	1.61	1.26	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			19.1	1.14	1.13	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		1.11		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	26700	11.1	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			36.2	1.43	1.28	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	1410	14.8	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	1130	9.91	1.24	0.938
2,3,3',4,5,5'-HxCB	159			81.3	10.9	1.20	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		10.8		
2,3,3',4',5,5'-HxCB	162			97.3	11.4	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			563	11.0	1.29	0.922
2,3,3',5,5',6-HxCB	165			52.1	11.9	1.10	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			762	10.4	1.24	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		17.3		
2,2',3,3',4,4',5-HpCB	170			2620	2.30	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	965	2.19	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			632	2.20	1.07	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			1460	2.01	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			212	2.01	1.03	1.102
2,2',3,3',4,6,6'-HpCB	176			259	1.50	1.06	1.034
2,2',3,3',4',5,6-HpCB	177			2390	1.96	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			1580	1.98	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	1020	1.41	1.08	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	8130	1.79	1.06	0.910
2,2',3,4,4',5,6-HpCB	181		K	23.2	2.12	1.30	1.157
2,2',3,4,4',5,6'-HpCB	182			67.3	1.91	1.00	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	3030	1.97	1.06	1.126
2,2',3,4,4',6,6'-HpCB	184			25.4	1.40	1.08	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		1.51		
2,2',3,4',5,5',6-HpCB	187		B	10100	1.83	1.07	1.110
2,2',3,4',5,6,6'-HpCB	188			62.8	1.51	1.08	1.000
2,3,3',4,4',5,5'-HpCB	189			103	1.84	0.98	1.000
2,3,3',4,4',5,6-HpCB	190			470	1.75	1.11	0.947
2,3,3',4,4',5',6-HpCB	191			120	1.69	1.10	0.917
2,3,3',4,5,5',6-HpCB	192		U		1.91		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1050	1.72	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			308	1.89	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			719	1.78	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	208	1.31	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	2160	1.84	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			382	1.29	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			1120	1.48	0.93	1.000
2,2',3,4,4',5,5',6-OxCB	203			1080	1.78	0.90	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	3.39	1.33	1.08	1.039
2,3,3',4,4',5,5',6-OxCB	205			50.3	1.56	0.91	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	983	2.14	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	156	1.55	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			559	1.43	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			526	1.62	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-16_Form1A_PB9C_357S9_SJ1090792_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing -10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 05:01:27

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-16 L

Sample Size: 0.266 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 9

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 78.3
% Lipid: 2.60

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	24.0	12.9	3.87	1.001
3-MoCB	2		K B	24.4	17.1	4.50	0.987
4-MoCB	3		U		20.3		
2,2'-DiCB	4		U		130		
2,3-DiCB	5		U		99.2		
2,3'-DiCB	6		U		87.0		
2,4-DiCB	7		U		87.0		
2,4'-DiCB	8		K B	295	77.5	1.16	1.207
2,5-DiCB	9		U		85.5		
2,6-DiCB	10		U		77.8		
3,3'-DiCB	11		B	645	99.2	1.74	0.969
3,4-DiCB	12	12 + 13	C U		99.6		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		92.7		
4,4'-DiCB	15		U		113		
2,2',3-TriCB	16			128	15.4	0.94	1.165
2,2',4-TriCB	17		B	159	13.5	0.96	1.137
2,2',5-TriCB	18	18 + 30	C B	668	11.3	0.98	1.113
2,2',6-TriCB	19		K	66.8	17.5	0.79	1.001
2,3,3'-TriCB	20	20 + 28	C B	5800	15.9	1.03	0.846
2,3,4-TriCB	21	21 + 33	C B	786	14.9	1.02	0.856
2,3,4'-TriCB	22		B	939	17.8	1.06	0.871
2,3,5-TriCB	23		U		15.7		
2,3,6-TriCB	24		K	13.9	10.1	0.35	1.158
2,3',4-TriCB	25			331	13.2	0.92	0.824
2,3',5-TriCB	26	26 + 29	C B	687	15.3	0.99	1.300
2,3',6-TriCB	27		K	77.8	9.81	0.84	1.150
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		B	2810	14.3	1.02	0.836
2,4',6-TriCB	32			288	14.3	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		15.4		
3,3',4-TriCB	35		U		20.4		
3,3',5-TriCB	36		U		17.2		
3,4,4'-TriCB	37		B	236	18.5	1.03	1.001
3,4,5-TriCB	38		K	28.0	16.8	0.80	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	30.1	17.1	1.48	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	2480	11.0	0.82	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	2630	11.0	0.80	1.311
2,2',3,5'-TeCB	43			282	12.2	0.66	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	12500	9.81	0.81	1.285
2,2',3,6'-TeCB	45	45 + 51	C	329	10.0	0.74	1.146
2,2',3,6'-TeCB	46		K	64.9	11.6	0.57	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	527	10.7	0.81	1.272
2,2',4,5'-TeCB	49	49 + 69	C B	7940	9.01	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	439	9.35	0.84	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	15200	10.0	0.80	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		10.1		
2,3,3',4'-TeCB	55		U		74.4		
2,3,3',4'-TeCB	56		B	3890	73.3	0.79	0.905
2,3,3',5'-TeCB	57			149	68.3	0.83	0.843
2,3,3',5'-TeCB	58			189	72.5	0.82	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	1140	8.24	0.80	1.301
2,3,4,4'-TeCB	60		B	3740	74.4	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	30900	68.7	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			1280	67.9	0.77	0.864
2,3,4',6'-TeCB	64		B	3500	7.98	0.76	1.348
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	22000	69.8	0.78	0.884
2,3',4,5'-TeCB	67			443	62.6	0.77	0.855
2,3',4,5'-TeCB	68			519	66.0	0.70	0.830
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			633	66.0	0.74	0.821
2,3',5',6'-TeCB	73		U		7.98		
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		B	1230	66.8	0.76	1.000
3,3',4,5'-TeCB	78		U		75.6		
3,3',4,5'-TeCB	79			828	61.8	0.73	0.969
3,3',5,5'-TeCB	80		U		67.9		
3,4,4',5'-TeCB	81		K	81.3	70.2	0.84	1.000
2,2',3,3',4'-PeCB	82			3850	82.4	1.61	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	72500	74.4	1.57	0.885
2,2',3,3',6'-PeCB	84		B	4270	80.1	1.59	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	15200	63.7	1.56	0.919
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	34200	63.3	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	4350	69.8	1.56	1.155
2,2',3,4,6'-PeCB	89		U		74.4		
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	67200	63.3	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	14000	74.0	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	24000	67.2	1.57	1.120
2,2',3,5,6'-PeCB	94			89.7	74.8	1.60	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			21.9	8.55	1.69	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			687	62.2	1.61	1.093
2,2',4,6,6'-PeCB	104		U		12.9		
2,3,3',4,4'-PeCB	105		B	28000	46.9	1.57	1.000
2,3,3',4,5-PeCB	106		U		49.6		
2,3,3',4',5-PeCB	107	107 + 124	C	2000	50.8	1.54	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			10400	49.2	1.56	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	45400	56.1	1.58	0.925
2,3,3',5,5'-PeCB	111			313	56.5	1.56	0.944
2,3,3',5,6-PeCB	112		U		51.9		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			1410	53.4	1.66	1.001
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		B	92300	48.8	1.55	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			1430	53.8	1.58	0.957
2,3',4,5',6-PeCB	121			67.2	56.1	1.37	1.198
2',3,3',4,5-PeCB	122			378	54.6	1.77	1.011
2',3,4,4',5-PeCB	123			1120	53.0	1.43	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			203	59.1	1.51	1.000
3,3',4,5,5'-PeCB	127			199	51.9	1.60	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	24700	103	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	189000	106	1.26	0.929
2,2',3,3',4,5'-HxCB	130			10000	133	1.26	0.913
2,2',3,3',4,6-HxCB	131			633	123	1.32	1.161
2,2',3,3',4,6'-HxCB	132			15100	126	1.25	1.177
2,2',3,3',5,5'-HxCB	133			4390	116	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	3470	119	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	33100	12.9	1.29	1.106
2,2',3,3',6,6'-HxCB	136		B	4350	9.39	1.33	1.026
2,2',3,4,4',5-HxCB	137			4390	118	1.27	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1930	109	1.14	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			9310	108	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		120		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			3050	13.4	1.31	1.123
2,2',3,4,6,6'-HxCB	145		U		10.2		
2,2',3,4',5,5'-HxCB	146		B	42000	102	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	59100	105	1.26	1.135
2,2',3,4',5,6'-HxCB	148			687	13.3	1.26	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			158	9.46	1.13	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		9.20		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	221000	91.6	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			299	11.8	1.28	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	11700	122	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	9310	82.0	1.24	0.938
2,3,3',4,5,5'-HxCB	159			672	90.4	1.20	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		89.7		
2,3,3',4',5,5'-HxCB	162			805	93.9	1.20	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			4660	91.2	1.29	0.922
2,3,3',5,5',6-HxCB	165			431	98.4	1.10	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			6300	86.2	1.24	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		143		
2,2',3,3',4,4',5-HpCB	170			21700	19.0	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	7980	18.1	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			5230	18.2	1.07	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			12100	16.6	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			1750	16.6	1.03	1.102
2,2',3,3',4,6,6'-HpCB	176			2140	12.4	1.06	1.034
2,2',3,3',4',5,6-HpCB	177			19800	16.2	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			13100	16.4	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	8470	11.7	1.08	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	67200	14.8	1.06	0.910
2,2',3,4,4',5,6-HpCB	181		K	192	17.5	1.30	1.157
2,2',3,4,4',5,6'-HpCB	182			557	15.8	1.00	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	25100	16.3	1.06	1.126
2,2',3,4,4',6,6'-HpCB	184			210	11.6	1.08	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		12.5		
2,2',3,4',5,5',6-HpCB	187		B	83900	15.1	1.07	1.110
2,2',3,4',5,6,6'-HpCB	188			519	12.5	1.08	1.000
2,3,3',4,4',5,5'-HpCB	189			851	15.2	0.98	1.000
2,3,3',4,4',5,6-HpCB	190			3890	14.5	1.11	0.947
2,3,3',4,4',5',6-HpCB	191			996	14.0	1.10	0.917
2,3,3',4,5,5',6-HpCB	192		U		15.8		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			8700	14.2	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			2550	15.6	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			5950	14.7	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	1720	10.8	0.94	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	17900	15.2	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			3160	10.7	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			9230	12.2	0.93	1.000
2,2',3,4,4',5,5',6-OxCB	203			8930	14.7	0.90	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	28.0	11.0	1.08	1.039
2,3,3',4,4',5,5',6-OxCB	205			416	12.9	0.91	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	8130	17.7	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	1290	12.8	0.80	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			4620	11.8	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			4350	13.4	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-16_Form1A_PB9C_357S9_SJ1090792_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing -10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 05:01:27
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-16 L
Sample Size: 10.2 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 9
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 78.3
% Lipid: 2.60

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	443	22.1	3.31	0.722
13C12-4-MoCB	3L			2000	445	22.3	3.26	0.862
13C12-2,2'-DiCB	4L			2000	615	30.8	1.61	0.876
13C12-4,4'-DiCB	15L			2000	636	31.8	1.61	1.255
13C12-2,2',6-TriCB	19L			2000	719	36.0	1.08	1.072
13C12-3,4,4'-TriCB	37L			2000	1000	50.2	0.97	1.094
13C12-2,2',6,6'-TeCB	54L			2000	874	43.7	0.80	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1610	80.7	0.80	1.397
13C12-3,4,4',5-TeCB	81L			2000	1600	80.2	0.81	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	888	44.4	1.66	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1690	84.3	1.57	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1460	73.2	1.55	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1650	82.4	1.55	1.161
13C12-2',3,4,4',5-PeCB	123L			2000	1580	79.1	1.55	1.152
13C12-3,3',4,4',5-PeCB	126L			2000	1680	84.2	1.56	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	903	45.2	1.31	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3060	76.5	1.28	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1550	77.7	1.27	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	1890	94.5	1.11	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1920	95.9	1.07	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1290	64.4	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1610	80.6	1.07	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1420	70.9	0.91	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1690	84.6	0.95	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2070	103	0.81	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1720	85.8	0.80	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1820	91.1	1.20	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1030	51.6	1.08	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1640	81.9	1.61	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1440	71.8	1.03	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 06:05:48

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-18 L

Sample Size: 10.7 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 10

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 75.7
% Lipid: 2.40

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	0.526	0.343	1.95	1.000
3-MoCB	2		K B	0.614	0.398	3.96	0.987
4-MoCB	3		U		0.419		
2,2'-DiCB	4		U		3.23		
2,3-DiCB	5		U		1.75		
2,3'-DiCB	6		U		1.53		
2,4-DiCB	7		U		1.53		
2,4'-DiCB	8		B	5.38	1.36	1.41	1.205
2,5-DiCB	9		U		1.50		
2,6-DiCB	10		U		1.37		
3,3'-DiCB	11		B	8.84	1.75	1.72	0.969
3,4-DiCB	12	12 + 13	C U		1.76		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.63		
4,4'-DiCB	15		U		1.68		
2,2',3-TriCB	16			3.53	0.276	1.02	1.165
2,2',4-TriCB	17		B	4.44	0.242	1.12	1.137
2,2',5-TriCB	18	18 + 30	C B	20.3	0.203	1.13	1.113
2,2',6-TriCB	19		K	1.95	0.381	1.22	1.001
2,3,3'-TriCB	20	20 + 28	C B	152	0.711	1.02	0.847
2,3,4-TriCB	21	21 + 33	C B	25.4	0.670	1.03	0.857
2,3,4'-TriCB	22		B	28.9	0.797	1.05	0.872
2,3,5-TriCB	23		U		0.704		
2,3,6-TriCB	24		K	0.393	0.180	1.25	1.157
2,3',4-TriCB	25			7.88	0.591	1.05	0.824
2,3',5-TriCB	26	26 + 29	C B	17.5	0.684	1.07	1.299
2,3',6-TriCB	27			2.06	0.176	1.07	1.150
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		B	81.7	0.641	1.02	0.836
2,4',6-TriCB	32			4.61	0.641	0.93	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.692		
3,3',4-TriCB	35		U		0.914		
3,3',5-TriCB	36		U		0.770		
3,4,4'-TriCB	37		B	5.94	0.775	1.07	1.001
3,4,5-TriCB	38		U		0.753		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		U		0.767		
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	39.8	0.215	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	46.0	0.214	0.80	1.310
2,2',3,5'-TeCB	43			6.10	0.239	0.86	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	249	0.191	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	9.09	0.195	0.80	1.145
2,2',3,6'-TeCB	46			1.94	0.225	0.73	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	13.9	0.209	0.81	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	155	0.175	0.81	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	12.1	0.182	0.81	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	326	0.196	0.80	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.211		
2,3,3',4'-TeCB	55		U		0.613		
2,3,3',4'-TeCB	56		B	85.3	0.606	0.77	0.905
2,3,3',5'-TeCB	57			2.25	0.564	0.78	0.843
2,3,3',5'-TeCB	58		K	1.90	0.598	0.90	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	23.5	0.161	0.81	1.300
2,3,4,4'-TeCB	60		B	94.4	0.615	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	632	0.566	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			26.9	0.562	0.73	0.864
2,3,4',6'-TeCB	64		B	61.2	0.156	0.83	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	390	0.577	0.77	0.884
2,3',4,5'-TeCB	67			8.33	0.517	0.78	0.855
2,3',4,5'-TeCB	68			11.6	0.544	0.75	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			11.3	0.545	0.77	0.822
2,3',5',6'-TeCB	73		U		0.155		
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		B	27.9	0.501	0.77	1.000
3,3',4,5'-TeCB	78		U		0.624		
3,3',4,5'-TeCB	79			11.1	0.511	0.74	0.969
3,3',5,5'-TeCB	80		U		0.562		
3,4,4',5'-TeCB	81		K	1.42	0.618	0.78	1.000
2,2',3,3',4'-PeCB	82			53.9	0.477	1.68	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	1410	0.432	1.60	0.886
2,2',3,3',6'-PeCB	84		B	73.8	0.464	1.61	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	310	0.369	1.60	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	526	0.367	1.59	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	66.8	0.406	1.57	1.155
2,2',3,4,6'-PeCB	89			1.29	0.433	1.42	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	1150	0.367	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	246	0.429	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	484	0.389	1.60	1.122
2,2',3,5,6'-PeCB	94			1.80	0.433	1.33	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			0.751	0.188	1.60	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			12.5	0.361	1.57	1.093
2,2',4,6,6'-PeCB	104		U		0.263		
2,3,3',4,4'-PeCB	105		B	574	0.830	1.56	1.001
2,3,3',4,5-PeCB	106		U		0.939		
2,3,3',4',5-PeCB	107	107 + 124	C	35.4	0.961	1.51	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			168	0.933	1.58	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	645	0.326	1.60	0.925
2,3,3',5,5'-PeCB	111			7.98	0.329	1.72	0.945
2,3,3',5,6-PeCB	112		U		0.301		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			32.6	1.03	1.55	1.001
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		B	1730	0.961	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			25.4	0.313	1.61	0.958
2,3',4,5',6-PeCB	121			2.69	0.325	1.56	1.198
2',3,3',4,5-PeCB	122			7.12	1.04	1.64	1.011
2',3,4,4',5-PeCB	123			24.0	1.08	1.63	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			5.92	1.24	1.38	1.000
3,3',4,5,5'-PeCB	127			4.15	0.985	1.56	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	684	2.71	1.25	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	4140	2.76	1.26	0.928
2,2',3,3',4,5'-HxCB	130			179	3.49	1.27	0.913
2,2',3,3',4,6-HxCB	131			8.67	3.23	1.24	1.161
2,2',3,3',4,6'-HxCB	132			261	3.30	1.24	1.176
2,2',3,3',5,5'-HxCB	133			95.8	3.04	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	58.7	3.13	1.22	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	718	0.300	1.28	1.106
2,2',3,3',6,6'-HxCB	136		B	85.7	0.219	1.32	1.026
2,2',3,4,4',5-HxCB	137			94.7	3.08	1.27	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	40.6	2.85	1.19	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			158	2.83	1.30	0.904
2,2',3,4,5,6-HxCB	142		U		3.14		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			56.5	0.313	1.30	1.122
2,2',3,4,6,6'-HxCB	145			0.371	0.237	1.20	1.035
2,2',3,4',5,5'-HxCB	146		B	907	2.67	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	1020	2.75	1.26	1.134
2,2',3,4',5,6'-HxCB	148			13.2	0.311	1.38	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			2.48	0.221	1.24	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.214		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	5450	2.39	1.27	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			5.14	0.243	1.35	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	247	3.26	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	195	2.15	1.30	0.938
2,3,3',4,5,5'-HxCB	159			12.5	2.37	1.23	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		2.35		
2,3,3',4',5,5'-HxCB	162			14.7	2.46	1.39	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			81.4	2.39	1.27	0.921
2,3,3',5,5',6-HxCB	165			12.4	2.58	1.10	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			132	2.31	1.24	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		4.67		
2,2',3,3',4,4',5-HpCB	170			530	0.284	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	197	0.272	1.02	1.163
2,2',3,3',4,5,5'-HpCB	172			97.2	0.273	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			243	0.249	1.07	1.134
2,2',3,3',4,5',6-HpCB	175			33.7	0.248	1.04	1.103
2,2',3,3',4,6,6'-HpCB	176			41.8	0.185	1.09	1.035
2,2',3,3',4',5,6-HpCB	177			405	0.243	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			329	0.246	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	188	0.176	1.07	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	1610	0.221	1.06	0.910
2,2',3,4,4',5,6-HpCB	181			5.20	0.262	1.08	1.156
2,2',3,4,4',5,6'-HpCB	182			11.0	0.237	0.99	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	586	0.244	1.08	1.127
2,2',3,4,4',6,6'-HpCB	184			4.91	0.174	1.11	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.187		
2,2',3,4',5,5',6-HpCB	187		B	2070	0.227	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			8.53	0.179	1.05	1.000
2,3,3',4,4',5,5'-HpCB	189			18.7	0.348	1.05	1.000
2,3,3',4,4',5,6-HpCB	190			106	0.218	1.07	0.947
2,3,3',4,4',5',6-HpCB	191			23.7	0.210	1.10	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.236		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			191	0.319	0.88	0.991
2,2',3,3',4,4',5,6-OxCB	195			70.6	0.352	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			154	0.318	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	43.3	0.233	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	431	0.328	0.92	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			65.3	0.231	0.92	1.023
2,2',3,3',5,5',6,6'-OxCB	202			209	0.262	0.93	1.001
2,2',3,4,4',5,5',6-OxCB	203			238	0.318	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	1.04	0.236	0.69	1.038
2,3,3',4,4',5,5',6-OxCB	205			10.9	0.293	0.90	1.001
2,2',3,3',4,4',5,5',6-NoCB	206			176	0.317	0.80	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			29.1	0.247	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			86.1	0.246	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			120	0.277	0.72	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-18_Form1A_PB9C_357S10_SJ1090794.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 06:05:48

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-18 L

Sample Size: 2.61 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 10

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 75.7
% Lipid: 2.40

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	2.17	1.41	1.95	1.000
3-MoCB	2		K B	2.53	1.64	3.96	0.987
4-MoCB	3		U		1.72		
2,2'-DiCB	4		U		13.3		
2,3-DiCB	5		U		7.20		
2,3'-DiCB	6		U		6.30		
2,4-DiCB	7		U		6.30		
2,4'-DiCB	8		B	22.2	5.59	1.41	1.205
2,5-DiCB	9		U		6.18		
2,6-DiCB	10		U		5.63		
3,3'-DiCB	11		B	36.4	7.20	1.72	0.969
3,4-DiCB	12	12 + 13	C U		7.25		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		6.71		
4,4'-DiCB	15		U		6.91		
2,2',3-TriCB	16			14.5	1.14	1.02	1.165
2,2',4-TriCB	17		B	18.2	0.996	1.12	1.137
2,2',5-TriCB	18	18 + 30	C B	83.5	0.835	1.13	1.113
2,2',6-TriCB	19		K	8.02	1.57	1.22	1.001
2,3,3'-TriCB	20	20 + 28	C B	626	2.92	1.02	0.847
2,3,4-TriCB	21	21 + 33	C B	105	2.76	1.03	0.857
2,3,4'-TriCB	22		B	119	3.27	1.05	0.872
2,3,5-TriCB	23		U		2.89		
2,3,6-TriCB	24		K	1.61	0.741	1.25	1.157
2,3',4-TriCB	25			32.4	2.43	1.05	0.824
2,3',5-TriCB	26	26 + 29	C B	72.0	2.81	1.07	1.299
2,3',6-TriCB	27			8.47	0.725	1.07	1.150
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		B	337	2.64	1.02	0.836
2,4',6-TriCB	32			18.9	2.64	0.93	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		2.85		
3,3',4-TriCB	35		U		3.76		
3,3',5-TriCB	36		U		3.16		
3,4,4'-TriCB	37		B	24.5	3.18	1.07	1.001
3,4,5-TriCB	38		U		3.09		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		U		3.15		
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	164	0.885	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	189	0.881	0.80	1.310
2,2',3,5'-TeCB	43			25.1	0.983	0.86	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	1030	0.786	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	37.4	0.802	0.80	1.145
2,2',3,6'-TeCB	46			7.98	0.926	0.73	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	57.2	0.860	0.81	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	638	0.720	0.81	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	49.8	0.749	0.81	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1340	0.806	0.80	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.869		
2,3,3',4'-TeCB	55		U		2.52		
2,3,3',4'-TeCB	56		B	351	2.49	0.77	0.905
2,3,3',5'-TeCB	57			9.26	2.32	0.78	0.843
2,3,3',5'-TeCB	58		K	7.82	2.46	0.90	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	96.7	0.662	0.81	1.300
2,3,4,4'-TeCB	60		B	388	2.53	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	2600	2.33	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			111	2.32	0.73	0.864
2,3,4',6'-TeCB	64		B	252	0.642	0.83	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	1600	2.38	0.77	0.884
2,3',4,5'-TeCB	67			34.3	2.13	0.78	0.855
2,3',4,5'-TeCB	68			47.8	2.24	0.75	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			46.5	2.25	0.77	0.822
2,3',5',6'-TeCB	73		U		0.638		
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		B	115	2.07	0.77	1.000
3,3',4,5'-TeCB	78		U		2.57		
3,3',4,5'-TeCB	79			45.6	2.11	0.74	0.969
3,3',5,5'-TeCB	80		U		2.32		
3,4,4',5'-TeCB	81		K	5.84	2.54	0.78	1.000
2,2',3,3',4'-PeCB	82			222	1.96	1.68	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	5800	1.77	1.60	0.886
2,2',3,3',6'-PeCB	84		B	303	1.90	1.61	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	1280	1.52	1.60	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	2170	1.51	1.59	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	275	1.67	1.57	1.155
2,2',3,4,6'-PeCB	89			5.31	1.78	1.42	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	4740	1.51	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	1010	1.76	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	2000	1.60	1.60	1.122
2,2',3,5,6'-PeCB	94			7.41	1.78	1.33	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			3.09	0.774	1.60	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			51.4	1.48	1.57	1.093
2,2',4,6,6'-PeCB	104		U		1.08		
2,3,3',4,4'-PeCB	105		B	2360	3.42	1.56	1.001
2,3,3',4,5-PeCB	106		U		3.86		
2,3,3',4',5-PeCB	107	107 + 124	C	146	3.95	1.51	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			691	3.84	1.58	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	2650	1.34	1.60	0.925
2,3,3',5,5'-PeCB	111			32.8	1.35	1.72	0.945
2,3,3',5,6-PeCB	112		U		1.24		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			134	4.24	1.55	1.001
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		B	7110	3.95	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			105	1.29	1.61	0.958
2,3',4,5',6-PeCB	121			11.1	1.34	1.56	1.198
2',3,3',4,5-PeCB	122			29.3	4.28	1.64	1.011
2',3,4,4',5-PeCB	123			98.8	4.44	1.63	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			24.4	5.10	1.38	1.000
3,3',4,5,5'-PeCB	127			17.0	4.05	1.56	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	2810	11.2	1.25	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	17000	11.4	1.26	0.928
2,2',3,3',4,5'-HxCB	130			737	14.4	1.27	0.913
2,2',3,3',4,6-HxCB	131			35.7	13.3	1.24	1.161
2,2',3,3',4,6'-HxCB	132			1080	13.6	1.24	1.176
2,2',3,3',5,5'-HxCB	133			394	12.5	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	242	12.9	1.22	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	2950	1.24	1.28	1.106
2,2',3,3',6,6'-HxCB	136		B	353	0.901	1.32	1.026
2,2',3,4,4',5-HxCB	137			390	12.7	1.27	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	167	11.7	1.19	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			650	11.7	1.30	0.904
2,2',3,4,5,6-HxCB	142		U		12.9		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			233	1.29	1.30	1.122
2,2',3,4,6,6'-HxCB	145			1.53	0.975	1.20	1.035
2,2',3,4',5,5'-HxCB	146		B	3730	11.0	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	4200	11.3	1.26	1.134
2,2',3,4',5,6'-HxCB	148			54.3	1.28	1.38	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			10.2	0.909	1.24	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.881		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	22500	9.83	1.27	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			21.2	1.00	1.35	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	1020	13.4	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	802	8.85	1.30	0.938
2,3,3',4,5,5'-HxCB	159			51.4	9.75	1.23	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		9.67		
2,3,3',4',5,5'-HxCB	162			60.5	10.1	1.39	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			335	9.83	1.27	0.921
2,3,3',5,5',6-HxCB	165			51.0	10.6	1.10	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			543	9.50	1.24	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		19.2		
2,2',3,3',4,4',5-HpCB	170			2180	1.17	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	810	1.12	1.02	1.163
2,2',3,3',4,5,5'-HpCB	172			400	1.12	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			1000	1.03	1.07	1.134
2,2',3,3',4,5',6-HpCB	175			139	1.02	1.04	1.103
2,2',3,3',4,6,6'-HpCB	176			172	0.761	1.09	1.035
2,2',3,3',4',5,6-HpCB	177			1660	1.00	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			1350	1.01	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	774	0.725	1.07	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	6620	0.909	1.06	0.910
2,2',3,4,4',5,6-HpCB	181			21.4	1.08	1.08	1.156
2,2',3,4,4',5,6'-HpCB	182			45.2	0.975	0.99	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	2410	1.00	1.08	1.127
2,2',3,4,4',6,6'-HpCB	184			20.3	0.716	1.11	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.770		
2,2',3,4',5,5',6-HpCB	187		B	8510	0.934	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			35.1	0.737	1.05	1.000
2,3,3',4,4',5,5'-HpCB	189			77.0	1.43	1.05	1.000
2,3,3',4,4',5,6-HpCB	190			436	0.897	1.07	0.947
2,3,3',4,4',5',6-HpCB	191			97.5	0.865	1.10	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.971		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			786	1.31	0.88	0.991
2,2',3,3',4,4',5,6-OxCB	195			290	1.45	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			634	1.31	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	178	0.958	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	1770	1.35	0.92	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			269	0.950	0.92	1.023
2,2',3,3',5,5',6,6'-OxCB	202			860	1.08	0.93	1.001
2,2',3,4,4',5,5',6-OxCB	203			979	1.31	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	4.28	0.971	0.69	1.038
2,3,3',4,4',5,5',6-OxCB	205			44.8	1.21	0.90	1.001
2,2',3,3',4,4',5,5',6-NoCB	206			725	1.30	0.80	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			120	1.02	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			355	1.01	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			494	1.14	0.72	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-18_Form1A_PB9C_357S10_SJ1090794_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 06:05:48

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-18 L

Sample Size: 0.263 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_357 S: 10

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_357 S: 1

% Moisture: 75.7
% Lipid: 2.40

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	21.5	14.0	1.95	1.000
3-MoCB	2		K B	25.1	16.3	3.96	0.987
4-MoCB	3		U		17.1		
2,2'-DiCB	4		U		132		
2,3-DiCB	5		U		71.5		
2,3'-DiCB	6		U		62.5		
2,4-DiCB	7		U		62.5		
2,4'-DiCB	8		B	220	55.5	1.41	1.205
2,5-DiCB	9		U		61.3		
2,6-DiCB	10		U		55.9		
3,3'-DiCB	11		B	361	71.5	1.72	0.969
3,4-DiCB	12	12 + 13	C U		71.9		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		66.6		
4,4'-DiCB	15		U		68.6		
2,2',3-TriCB	16			144	11.3	1.02	1.165
2,2',4-TriCB	17		B	181	9.88	1.12	1.137
2,2',5-TriCB	18	18 + 30	C B	829	8.29	1.13	1.113
2,2',6-TriCB	19		K	79.6	15.6	1.22	1.001
2,3,3'-TriCB	20	20 + 28	C B	6210	29.0	1.02	0.847
2,3,4-TriCB	21	21 + 33	C B	1040	27.4	1.03	0.857
2,3,4'-TriCB	22		B	1180	32.5	1.05	0.872
2,3,5-TriCB	23		U		28.7		
2,3,6-TriCB	24		K	16.0	7.35	1.25	1.157
2,3',4-TriCB	25			322	24.1	1.05	0.824
2,3',5-TriCB	26	26 + 29	C B	715	27.9	1.07	1.299
2,3',6-TriCB	27			84.1	7.19	1.07	1.150
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		B	3340	26.2	1.02	0.836
2,4',6-TriCB	32			188	26.2	0.93	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		28.3		
3,3',4-TriCB	35		U		37.3		
3,3',5-TriCB	36		U		31.4		
3,4,4'-TriCB	37		B	243	31.6	1.07	1.001
3,4,5-TriCB	38		U		30.7		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		U		31.3		
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1630	8.78	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	1880	8.74	0.80	1.310
2,2',3,5'-TeCB	43			249	9.76	0.86	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	10200	7.80	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	371	7.96	0.80	1.145
2,2',3,6'-TeCB	46			79.2	9.19	0.73	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	568	8.53	0.81	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	6330	7.15	0.81	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	494	7.43	0.81	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	13300	8.00	0.80	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		8.62		
2,3,3',4'-TeCB	55		U		25.0		
2,3,3',4'-TeCB	56		B	3480	24.7	0.77	0.905
2,3,3',5'-TeCB	57			91.9	23.0	0.78	0.843
2,3,3',5'-TeCB	58		K	77.6	24.4	0.90	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	960	6.57	0.81	1.300
2,3,4,4'-TeCB	60		B	3850	25.1	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	25800	23.1	0.77	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			1100	23.0	0.73	0.864
2,3,4',6'-TeCB	64		B	2500	6.37	0.83	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	15900	23.6	0.77	0.884
2,3',4,5'-TeCB	67			340	21.1	0.78	0.855
2,3',4,5'-TeCB	68			474	22.2	0.75	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			461	22.3	0.77	0.822
2,3',5',6'-TeCB	73		U		6.33		
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		B	1140	20.5	0.77	1.000
3,3',4,5'-TeCB	78		U		25.5		
3,3',4,5'-TeCB	79			453	20.9	0.74	0.969
3,3',5,5'-TeCB	80		U		23.0		
3,4,4',5'-TeCB	81		K	58.0	25.2	0.78	1.000
2,2',3,3',4'-PeCB	82			2200	19.5	1.68	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	57600	17.6	1.60	0.886
2,2',3,3',6'-PeCB	84		B	3010	18.9	1.61	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	12700	15.1	1.60	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	21500	15.0	1.59	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	2730	16.6	1.57	1.155
2,2',3,4,6'-PeCB	89			52.7	17.7	1.42	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	47000	15.0	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	10000	17.5	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	19800	15.9	1.60	1.122
2,2',3,5,6'-PeCB	94			73.5	17.7	1.33	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			30.7	7.68	1.60	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			510	14.7	1.57	1.093
2,2',4,6,6'-PeCB	104		U		10.7		
2,3,3',4,4'-PeCB	105		B	23400	33.9	1.56	1.001
2,3,3',4,5-PeCB	106		U		38.3		
2,3,3',4',5-PeCB	107	107 + 124	C	1450	39.2	1.51	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			6860	38.1	1.58	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	26300	13.3	1.60	0.925
2,3,3',5,5'-PeCB	111			326	13.4	1.72	0.945
2,3,3',5,6-PeCB	112		U		12.3		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			1330	42.1	1.55	1.001
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		B	70600	39.2	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			1040	12.8	1.61	0.958
2,3',4,5',6-PeCB	121			110	13.3	1.56	1.198
2',3,3',4,5-PeCB	122			291	42.5	1.64	1.011
2',3,4,4',5-PeCB	123			980	44.1	1.63	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			242	50.6	1.38	1.000
3,3',4,5,5'-PeCB	127			169	40.2	1.56	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	27900	111	1.25	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	169000	113	1.26	0.928
2,2',3,3',4,5'-HxCB	130			7310	143	1.27	0.913
2,2',3,3',4,6-HxCB	131			354	132	1.24	1.161
2,2',3,3',4,6'-HxCB	132			10700	135	1.24	1.176
2,2',3,3',5,5'-HxCB	133			3910	124	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	2400	128	1.22	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	29300	12.3	1.28	1.106
2,2',3,3',6,6'-HxCB	136		B	3500	8.94	1.32	1.026
2,2',3,4,4',5-HxCB	137			3870	126	1.27	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	1660	116	1.19	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			6450	116	1.30	0.904
2,2',3,4,5,6-HxCB	142		U		128		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			2310	12.8	1.30	1.122
2,2',3,4,6,6'-HxCB	145			15.2	9.68	1.20	1.035
2,2',3,4',5,5'-HxCB	146		B	37000	109	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	41700	112	1.26	1.134
2,2',3,4',5,6'-HxCB	148			539	12.7	1.38	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			101	9.02	1.24	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		8.74		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	223000	97.6	1.27	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			210	9.92	1.35	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	10100	133	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	7960	87.8	1.30	0.938
2,3,3',4,5,5'-HxCB	159			510	96.8	1.23	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		96.0		
2,3,3',4',5,5'-HxCB	162			600	100	1.39	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			3320	97.6	1.27	0.921
2,3,3',5,5',6-HxCB	165			506	105	1.10	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			5390	94.3	1.24	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		191		
2,2',3,3',4,4',5-HpCB	170			21600	11.6	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	8040	11.1	1.02	1.163
2,2',3,3',4,5,5'-HpCB	172			3970	11.1	1.05	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			9920	10.2	1.07	1.134
2,2',3,3',4,5',6-HpCB	175			1380	10.1	1.04	1.103
2,2',3,3',4,6,6'-HpCB	176			1710	7.55	1.09	1.035
2,2',3,3',4',5,6-HpCB	177			16500	9.92	1.06	1.146
2,2',3,3',5,5',6-HpCB	178			13400	10.0	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	7680	7.19	1.07	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	65700	9.02	1.06	0.910
2,2',3,4,4',5,6-HpCB	181			212	10.7	1.08	1.156
2,2',3,4,4',5,6'-HpCB	182			449	9.68	0.99	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	23900	9.96	1.08	1.127
2,2',3,4,4',6,6'-HpCB	184			201	7.11	1.11	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		7.64		
2,2',3,4',5,5',6-HpCB	187		B	84500	9.27	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			348	7.31	1.05	1.000
2,3,3',4,4',5,5'-HpCB	189			764	14.2	1.05	1.000
2,3,3',4,4',5,6-HpCB	190			4330	8.90	1.07	0.947
2,3,3',4,4',5',6-HpCB	191			968	8.58	1.10	0.917
2,3,3',4,5,5',6-HpCB	192		U		9.64		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			7800	13.0	0.88	0.991
2,2',3,3',4,4',5,6-OxCB	195			2880	14.4	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			6290	13.0	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	1770	9.51	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	17600	13.4	0.92	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			2670	9.43	0.92	1.023
2,2',3,3',5,5',6,6'-OxCB	202			8530	10.7	0.93	1.001
2,2',3,4,4',5,5',6-OxCB	203			9720	13.0	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	42.5	9.64	0.69	1.038
2,3,3',4,4',5,5',6-OxCB	205			445	12.0	0.90	1.001
2,2',3,3',4,4',5,5',6-NoCB	206			7190	12.9	0.80	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207			1190	10.1	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			3520	10.0	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			4900	11.3	0.72	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-18_Form1A_PB9C_357S10_SJ1090794_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
East Bay - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 06:05:48
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-18 L
Sample Size: 10.7 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_357 S: 10
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_357 S: 1
% Moisture: 75.7
% Lipid: 2.40

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	313	15.6	3.29	0.722
13C12-4-MoCB	3L			2000	422	21.1	3.24	0.862
13C12-2,2'-DiCB	4L			2000	548	27.4	1.53	0.876
13C12-4,4'-DiCB	15L			2000	920	46.0	1.58	1.254
13C12-2,2',6-TriCB	19L			2000	749	37.5	1.10	1.072
13C12-3,4,4'-TriCB	37L			2000	1390	69.7	1.02	1.093
13C12-2,2',6,6'-TeCB	54L			2000	1020	50.9	0.79	0.812
13C12-3,3',4,4'-TeCB	77L			2000	2210	110	0.78	1.397
13C12-3,4,4',5-TeCB	81L			2000	1850	92.5	0.81	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1130	56.3	1.58	0.808
13C12-2,3,3',4,4'-PeCB	105L			2000	2220	111	1.52	1.200
13C12-2,3,4,4',5-PeCB	114L			2000	1690	84.5	1.56	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1860	93.0	1.55	1.161
13C12-2',3,4,4',5-PeCB	123L			2000	1730	86.4	1.50	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1910	95.3	1.53	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1130	56.3	1.26	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3320	83.0	1.33	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1740	86.9	1.31	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1670	83.7	1.28	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	2070	103	1.04	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	2090	105	1.08	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1500	74.8	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1740	86.8	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1530	76.3	0.97	0.817
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1780	89.0	0.91	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2050	103	0.83	1.043
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1900	95.2	0.80	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1930	96.6	1.20	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1260	63.2	1.07	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	2180	109	1.61	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1570	78.3	1.06	1.011

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 13:44:56

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-19 L

Sample Size: 10.1 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 78.6
% Lipid: 1.34

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.482	0.0558	2.90	1.001
3-MoCB	2		B	0.324	0.0686	3.14	0.989
4-MoCB	3		B	0.522	0.0692	3.03	1.001
2,2'-DiCB	4			0.909	0.453	1.49	1.001
2,3-DiCB	5		U		0.310		
2,3'-DiCB	6			0.748	0.271	1.53	1.175
2,4-DiCB	7		K	0.510	0.272	1.29	1.156
2,4'-DiCB	8		B	3.33	0.249	1.63	1.206
2,5-DiCB	9		K	0.425	0.266	1.11	1.144
2,6-DiCB	10		U		0.236		
3,3'-DiCB	11		B	5.26	0.300	1.61	0.970
3,4-DiCB	12	12 + 13	C U		0.299		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.293		
4,4'-DiCB	15		K	0.406	0.303	1.84	1.000
2,2',3-TriCB	16			2.69	0.0797	1.06	1.165
2,2',4-TriCB	17		B	3.81	0.0683	1.10	1.137
2,2',5-TriCB	18	18 + 30	C B	16.3	0.0578	1.10	1.112
2,2',6-TriCB	19			1.16	0.0766	0.89	1.001
2,3,3'-TriCB	20	20 + 28	C B	102	0.185	1.02	0.847
2,3,4-TriCB	21	21 + 33	C B	13.2	0.175	1.04	0.857
2,3,4'-TriCB	22		B	16.6	0.204	1.06	0.872
2,3,5-TriCB	23		U		0.190		
2,3,6-TriCB	24		K	0.509	0.0505	0.73	1.157
2,3',4-TriCB	25			6.33	0.162	1.03	0.824
2,3',5-TriCB	26	26 + 29	C B	15.3	0.186	1.03	1.299
2,3',6-TriCB	27			2.39	0.0494	1.03	1.149
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		B	48.9	0.173	1.02	0.836
2,4',6-TriCB	32			7.14	0.175	1.06	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.197		
3,3',4-TriCB	35		U		0.215		
3,3',5-TriCB	36		U		0.190		
3,4,4'-TriCB	37		B	3.03	0.209	1.04	1.001
3,4,5-TriCB	38		U		0.187		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	0.551	0.193	1.29	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	56.7	0.0621	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	49.4	0.0633	0.79	1.311
2,2',3,5'-TeCB	43			6.37	0.0736	0.83	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	257	0.0567	0.78	1.284
2,2',3,6'-TeCB	45	45 + 51	C	13.3	0.0604	0.78	1.146
2,2',3,6'-TeCB	46			2.21	0.0683	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	12.3	0.0619	0.80	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	140	0.0526	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	16.4	0.0590	0.76	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	361	0.0582	0.78	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.0494		
2,3,3',4'-TeCB	55		U		0.344		
2,3,3',4'-TeCB	56		B	58.8	0.336	0.78	0.905
2,3,3',5'-TeCB	57			2.60	0.311	0.75	0.843
2,3,3',5'-TeCB	58			2.18	0.315	0.83	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	25.5	0.0494	0.80	1.300
2,3,4,4'-TeCB	60		B	78.5	0.350	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	397	0.313	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			25.0	0.305	0.79	0.864
2,3,4',6'-TeCB	64		B	82.6	0.0494	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	317	0.320	0.78	0.884
2,3',4,5'-TeCB	67			6.23	0.268	0.77	0.855
2,3',4,5'-TeCB	68			10.3	0.312	0.78	0.830
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			12.5	0.302	0.79	0.822
2,3',5',6'-TeCB	73		U		0.0494		
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		B	29.5	0.339	0.80	1.000
3,3',4,5'-TeCB	78		U		0.355		
3,3',4,5'-TeCB	79			5.51	0.282	0.76	0.969
3,3',5,5'-TeCB	80		U		0.310		
3,4,4',5'-TeCB	81		K	1.05	0.357	0.86	1.001
2,2',3,3',4'-PeCB	82			53.0	0.404	1.54	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	557	0.375	1.57	0.885
2,2',3,3',6'-PeCB	84		B	96.5	0.394	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	240	0.313	1.56	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	473	0.315	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	100	0.356	1.55	1.155
2,2',3,4,6'-PeCB	89			2.26	0.375	1.55	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	1120	0.320	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	253	0.367	1.56	0.852
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	542	0.341	1.57	1.121
2,2',3,5,6'-PeCB	94			2.85	0.383	1.55	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			0.939	0.0558	1.69	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			13.9	0.317	1.56	1.093
2,2',4,6,6'-PeCB	104			0.141	0.0558	1.77	1.001
2,3,3',4,4'-PeCB	105		B	499	2.43	1.57	1.000
2,3,3',4,5-PeCB	106		U		2.34		
2,3,3',4',5-PeCB	107	107 + 124	C	36.7	2.40	1.57	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			161	2.28	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	813	0.279	1.57	0.925
2,3,3',5,5'-PeCB	111			5.75	0.281	1.54	0.945
2,3,3',5,6-PeCB	112		U		0.264		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			22.8	2.64	1.58	1.001
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		B	1320	2.42	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			21.9	0.269	1.59	0.958
2,3',4,5',6-PeCB	121			1.55	0.282	1.64	1.198
2',3,3',4,5-PeCB	122			5.46	2.62	1.49	1.010
2',3,4,4',5-PeCB	123			21.6	2.62	1.57	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			6.00	3.05	1.42	1.000
3,3',4,5,5'-PeCB	127		U		2.67		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	360	2.17	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	2600	2.14	1.26	0.929
2,2',3,3',4,5'-HxCB	130			165	2.61	1.25	0.913
2,2',3,3',4,6-HxCB	131			11.3	2.41	1.25	1.161
2,2',3,3',4,6'-HxCB	132			287	2.50	1.26	1.177
2,2',3,3',5,5'-HxCB	133			76.2	2.31	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	67.7	2.47	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	666	0.0669	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	103	0.0510	1.28	1.026
2,2',3,4,4',5-HxCB	137			81.8	2.67	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	37.0	2.22	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			171	2.24	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		2.40		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			66.5	0.0692	1.25	1.123
2,2',3,4,6,6'-HxCB	145		K	0.248	0.0542	1.77	1.036
2,2',3,4',5,5'-HxCB	146		B	659	1.98	1.27	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	1070	2.14	1.26	1.135
2,2',3,4',5,6'-HxCB	148			11.5	0.0709	1.26	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			3.93	0.0510	1.26	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.224	0.0500	1.13	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	3230	1.84	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			6.41	0.0494	1.20	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	251	2.64	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	166	1.68	1.26	0.938
2,3,3',4,5,5'-HxCB	159			7.79	1.92	1.27	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		1.77		
2,3,3',4',5,5'-HxCB	162			13.4	1.98	1.24	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			76.9	1.76	1.27	0.922
2,3,3',5,5',6-HxCB	165			5.86	2.01	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			121	1.91	1.26	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		2.49		
2,2',3,3',4,4',5-HpCB	170			419	0.0943	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	143	0.0894	1.05	1.164
2,2',3,3',4,5,5'-HpCB	172			99.2	0.0911	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			210	0.0818	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			31.6	0.0809	1.02	1.103
2,2',3,3',4,6,6'-HpCB	176			38.9	0.0596	1.06	1.035
2,2',3,3',4',5,6-HpCB	177			322	0.0807	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			227	0.0794	1.03	1.085
2,2',3,3',5,6,6'-HpCB	179		B	157	0.0578	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	1250	0.0724	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			3.81	0.0845	1.17	1.157
2,2',3,4,4',5,6'-HpCB	182			7.49	0.0766	1.08	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	422	0.0790	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			4.91	0.0569	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.0624		
2,2',3,4',5,5',6-HpCB	187		B	1390	0.0766	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			8.03	0.0562	1.01	1.000
2,3,3',4,4',5,5'-HpCB	189			21.5	0.209	0.98	1.000
2,3,3',4,4',5,6-HpCB	190			88.8	0.0728	1.06	0.947
2,3,3',4,4',5',6-HpCB	191			20.1	0.0695	1.01	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.0769		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			234	0.178	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			66.5	0.191	0.87	0.946
2,2',3,3',4,4',5,6'-OxCB	196			150	0.0950	0.91	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	37.8	0.0694	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	416	0.0968	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			73.5	0.0679	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			222	0.0791	0.89	1.000
2,2',3,4,4',5,5',6-OxCB	203			245	0.0947	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	0.813	0.0691	1.07	1.039
2,3,3',4,4',5,5',6-OxCB	205			10.6	0.154	0.96	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	231	0.166	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	35.3	0.124	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			126	0.108	0.77	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			128	0.0779	0.68	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-19_Form1A_PB9C_358S6_SJ1087736.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 13:44:56

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-19 L

Sample Size: 2.17 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 78.6
% Lipid: 1.34

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	2.25	0.261	2.90	1.001
3-MoCB	2		B	1.51	0.320	3.14	0.989
4-MoCB	3		B	2.44	0.323	3.03	1.001
2,2'-DiCB	4			4.24	2.11	1.49	1.001
2,3-DiCB	5		U		1.45		
2,3'-DiCB	6			3.49	1.27	1.53	1.175
2,4-DiCB	7		K	2.38	1.27	1.29	1.156
2,4'-DiCB	8		B	15.5	1.16	1.63	1.206
2,5-DiCB	9		K	1.99	1.24	1.11	1.144
2,6-DiCB	10		U		1.10		
3,3'-DiCB	11		B	24.6	1.40	1.61	0.970
3,4-DiCB	12	12 + 13	C U		1.40		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.37		
4,4'-DiCB	15		K	1.89	1.42	1.84	1.000
2,2',3-TriCB	16			12.5	0.372	1.06	1.165
2,2',4-TriCB	17		B	17.8	0.319	1.10	1.137
2,2',5-TriCB	18	18 + 30	C B	75.8	0.270	1.10	1.112
2,2',6-TriCB	19			5.41	0.358	0.89	1.001
2,3,3'-TriCB	20	20 + 28	C B	476	0.865	1.02	0.847
2,3,4-TriCB	21	21 + 33	C B	61.6	0.815	1.04	0.857
2,3,4'-TriCB	22		B	77.7	0.953	1.06	0.872
2,3,5-TriCB	23		U		0.890		
2,3,6-TriCB	24		K	2.38	0.236	0.73	1.157
2,3',4-TriCB	25			29.5	0.758	1.03	0.824
2,3',5-TriCB	26	26 + 29	C B	71.4	0.871	1.03	1.299
2,3',6-TriCB	27			11.2	0.231	1.03	1.149
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		B	228	0.808	1.02	0.836
2,4',6-TriCB	32			33.3	0.815	1.06	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.921		
3,3',4-TriCB	35		U		1.00		
3,3',5-TriCB	36		U		0.890		
3,4,4'-TriCB	37		B	14.2	0.978	1.04	1.001
3,4,5-TriCB	38		U		0.871		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	2.57	0.902	1.29	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	264	0.290	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	231	0.295	0.79	1.311
2,2',3,5'-TeCB	43			29.7	0.343	0.83	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	1200	0.264	0.78	1.284
2,2',3,6'-TeCB	45	45 + 51	C	62.1	0.282	0.78	1.146
2,2',3,6'-TeCB	46			10.3	0.319	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	57.4	0.289	0.80	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	652	0.246	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	76.5	0.275	0.76	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1690	0.272	0.78	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.231		
2,3,3',4'-TeCB	55		U		1.60		
2,3,3',4'-TeCB	56		B	275	1.57	0.78	0.905
2,3,3',5'-TeCB	57			12.2	1.45	0.75	0.843
2,3,3',5'-TeCB	58			10.2	1.47	0.83	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	119	0.231	0.80	1.300
2,3,4,4'-TeCB	60		B	367	1.64	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	1860	1.46	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			117	1.42	0.79	0.864
2,3,4',6'-TeCB	64		B	385	0.231	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	1480	1.49	0.78	0.884
2,3',4,5'-TeCB	67			29.1	1.25	0.77	0.855
2,3',4,5'-TeCB	68			48.1	1.45	0.78	0.830
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			58.3	1.41	0.79	0.822
2,3',5',6'-TeCB	73		U		0.231		
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		B	138	1.59	0.80	1.000
3,3',4,5'-TeCB	78		U		1.65		
3,3',4,5'-TeCB	79			25.7	1.32	0.76	0.969
3,3',5,5'-TeCB	80		U		1.45		
3,4,4',5'-TeCB	81		K	4.90	1.67	0.86	1.001
2,2',3,3',4'-PeCB	82			248	1.89	1.54	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	2600	1.75	1.57	0.885
2,2',3,3',6'-PeCB	84		B	451	1.84	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	1120	1.46	1.56	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	2210	1.47	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	467	1.66	1.55	1.155
2,2',3,4,6'-PeCB	89			10.5	1.75	1.55	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	5230	1.49	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	1180	1.71	1.56	0.852
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	2530	1.59	1.57	1.121
2,2',3,5,6'-PeCB	94			13.3	1.79	1.55	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			4.38	0.261	1.69	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			65.2	1.48	1.56	1.093
2,2',4,6,6'-PeCB	104			0.658	0.261	1.77	1.001
2,3,3',4,4'-PeCB	105		B	2330	11.3	1.57	1.000
2,3,3',4,5-PeCB	106		U		10.9		
2,3,3',4',5-PeCB	107	107 + 124	C	171	11.2	1.57	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			752	10.7	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	3800	1.30	1.57	0.925
2,3,3',5,5'-PeCB	111			26.8	1.31	1.54	0.945
2,3,3',5,6-PeCB	112		U		1.23		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			107	12.3	1.58	1.001
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		B	6160	11.3	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			102	1.25	1.59	0.958
2,3',4,5',6-PeCB	121			7.21	1.32	1.64	1.198
2',3,3',4,5-PeCB	122			25.5	12.2	1.49	1.010
2',3,4,4',5-PeCB	123			101	12.2	1.57	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			28.0	14.2	1.42	1.000
3,3',4,5,5'-PeCB	127		U		12.5		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	1680	10.2	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	12200	9.96	1.26	0.929
2,2',3,3',4,5'-HxCB	130			771	12.2	1.25	0.913
2,2',3,3',4,6-HxCB	131			52.8	11.3	1.25	1.161
2,2',3,3',4,6'-HxCB	132			1340	11.7	1.26	1.177
2,2',3,3',5,5'-HxCB	133			356	10.8	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	316	11.5	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	3110	0.312	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	481	0.238	1.28	1.026
2,2',3,4,4',5-HxCB	137			382	12.5	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	173	10.3	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			796	10.5	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		11.2		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			310	0.323	1.25	1.123
2,2',3,4,6,6'-HxCB	145		K	1.16	0.253	1.77	1.036
2,2',3,4',5,5'-HxCB	146		B	3080	9.21	1.27	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	5000	9.96	1.26	1.135
2,2',3,4',5,6'-HxCB	148			53.7	0.331	1.26	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			18.4	0.238	1.26	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			1.05	0.233	1.13	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	15100	8.59	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			29.9	0.231	1.20	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	1170	12.3	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	777	7.83	1.26	0.938
2,3,3',4,5,5'-HxCB	159			36.4	8.96	1.27	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		8.27		
2,3,3',4',5,5'-HxCB	162			62.5	9.21	1.24	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			359	8.21	1.27	0.922
2,3,3',5,5',6-HxCB	165			27.3	9.40	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			565	8.90	1.26	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		11.6		
2,2',3,3',4,4',5-HpCB	170			1960	0.440	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	671	0.417	1.05	1.164
2,2',3,3',4,5,5'-HpCB	172			463	0.426	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			978	0.382	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			147	0.378	1.02	1.103
2,2',3,3',4,6,6'-HpCB	176			182	0.278	1.06	1.035
2,2',3,3',4',5,6-HpCB	177			1500	0.377	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			1060	0.370	1.03	1.085
2,2',3,3',5,6,6'-HpCB	179		B	733	0.270	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	5830	0.338	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			17.8	0.394	1.17	1.157
2,2',3,4,4',5,6'-HpCB	182			35.0	0.358	1.08	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	1970	0.369	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			22.9	0.266	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.291		
2,2',3,4',5,5',6-HpCB	187		B	6520	0.358	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			37.5	0.263	1.01	1.000
2,3,3',4,4',5,5'-HpCB	189			100	0.978	0.98	1.000
2,3,3',4,4',5,6-HpCB	190			414	0.340	1.06	0.947
2,3,3',4,4',5',6-HpCB	191			94.0	0.325	1.01	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.359		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1090	0.834	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			310	0.890	0.87	0.946
2,2',3,3',4,4',5,6'-OxCB	196			702	0.444	0.91	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	177	0.324	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	1940	0.452	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			343	0.317	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			1030	0.369	0.89	1.000
2,2',3,4,4',5,5',6-OxCB	203			1140	0.442	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	3.80	0.323	1.07	1.039
2,3,3',4,4',5,5',6-OxCB	205			49.5	0.721	0.96	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	1080	0.777	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	165	0.579	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			588	0.504	0.77	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			597	0.364	0.68	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-19_Form1A_PB9C_358S6_SJ1087736_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 13:44:56

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-19 L

Sample Size: 0.136 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 78.6
% Lipid: 1.34

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	35.9	4.16	2.90	1.001
3-MoCB	2		B	24.1	5.11	3.14	0.989
4-MoCB	3		B	38.9	5.15	3.03	1.001
2,2'-DiCB	4			67.7	33.7	1.49	1.001
2,3-DiCB	5		U		23.1		
2,3'-DiCB	6			55.7	20.2	1.53	1.175
2,4-DiCB	7		K	38.0	20.3	1.29	1.156
2,4'-DiCB	8		B	248	18.5	1.63	1.206
2,5-DiCB	9		K	31.7	19.8	1.11	1.144
2,6-DiCB	10		U		17.6		
3,3'-DiCB	11		B	392	22.3	1.61	0.970
3,4-DiCB	12	12 + 13	C U		22.3		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		21.8		
4,4'-DiCB	15		K	30.2	22.6	1.84	1.000
2,2',3-TriCB	16			200	5.94	1.06	1.165
2,2',4-TriCB	17		B	284	5.09	1.10	1.137
2,2',5-TriCB	18	18 + 30	C B	1210	4.31	1.10	1.112
2,2',6-TriCB	19			86.4	5.71	0.89	1.001
2,3,3'-TriCB	20	20 + 28	C B	7600	13.8	1.02	0.847
2,3,4-TriCB	21	21 + 33	C B	983	13.0	1.04	0.857
2,3,4'-TriCB	22		B	1240	15.2	1.06	0.872
2,3,5-TriCB	23		U		14.2		
2,3,6-TriCB	24		K	37.9	3.76	0.73	1.157
2,3',4-TriCB	25			471	12.1	1.03	0.824
2,3',5-TriCB	26	26 + 29	C B	1140	13.9	1.03	1.299
2,3',6-TriCB	27			178	3.68	1.03	1.149
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		B	3640	12.9	1.02	0.836
2,4',6-TriCB	32			532	13.0	1.06	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		14.7		
3,3',4-TriCB	35		U		16.0		
3,3',5-TriCB	36		U		14.2		
3,4,4'-TriCB	37		B	226	15.6	1.04	1.001
3,4,5-TriCB	38		U		13.9		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	41.0	14.4	1.29	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	4220	4.63	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	3680	4.71	0.79	1.311
2,2',3,5'-TeCB	43			474	5.48	0.83	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	19100	4.22	0.78	1.284
2,2',3,6'-TeCB	45	45 + 51	C	991	4.50	0.78	1.146
2,2',3,6'-TeCB	46			165	5.09	0.81	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	916	4.61	0.80	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	10400	3.92	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	1220	4.39	0.76	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	26900	4.34	0.78	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		3.68		
2,3,3',4'-TeCB	55		U		25.6		
2,3,3',4'-TeCB	56		B	4380	25.0	0.78	0.905
2,3,3',5'-TeCB	57			194	23.2	0.75	0.843
2,3,3',5'-TeCB	58			162	23.5	0.83	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	1900	3.68	0.80	1.300
2,3,4,4'-TeCB	60		B	5850	26.1	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	29600	23.3	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			1860	22.7	0.79	0.864
2,3,4',6'-TeCB	64		B	6150	3.68	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	23600	23.8	0.78	0.884
2,3',4,5'-TeCB	67			464	20.0	0.77	0.855
2,3',4,5'-TeCB	68			767	23.2	0.78	0.830
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			931	22.5	0.79	0.822
2,3',5',6'-TeCB	73		U		3.68		
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		B	2200	25.3	0.80	1.000
3,3',4,5'-TeCB	78		U		26.4		
3,3',4,5'-TeCB	79			410	21.0	0.76	0.969
3,3',5,5'-TeCB	80		U		23.1		
3,4,4',5'-TeCB	81		K	78.2	26.6	0.86	1.001
2,2',3,3',4'-PeCB	82			3950	30.1	1.54	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	41500	27.9	1.57	0.885
2,2',3,3',6'-PeCB	84		B	7190	29.3	1.57	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	17900	23.3	1.56	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	35200	23.5	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	7450	26.5	1.55	1.155
2,2',3,4,6'-PeCB	89			168	27.9	1.55	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	83400	23.8	1.56	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	18800	27.3	1.56	0.852
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	40400	25.4	1.57	1.121
2,2',3,5,6'-PeCB	94			212	28.5	1.55	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			69.9	4.16	1.69	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			1040	23.6	1.56	1.093
2,2',4,6,6'-PeCB	104			10.5	4.16	1.77	1.001
2,3,3',4,4'-PeCB	105		B	37200	181	1.57	1.000
2,3,3',4,5-PeCB	106		U		174		
2,3,3',4',5-PeCB	107	107 + 124	C	2730	179	1.57	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			12000	170	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	60600	20.8	1.57	0.925
2,3,3',5,5'-PeCB	111			428	20.9	1.54	0.945
2,3,3',5,6-PeCB	112		U		19.7		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			1700	197	1.58	1.001
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		B	98300	180	1.54	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			1630	20.0	1.59	0.958
2,3',4,5',6-PeCB	121			115	21.0	1.64	1.198
2',3,3',4,5-PeCB	122			407	195	1.49	1.010
2',3,4,4',5-PeCB	123			1610	195	1.57	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			447	227	1.42	1.000
3,3',4,5,5'-PeCB	127		U		199		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	26800	162	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	194000	159	1.26	0.929
2,2',3,3',4,5'-HxCB	130			12300	194	1.25	0.913
2,2',3,3',4,6-HxCB	131			842	180	1.25	1.161
2,2',3,3',4,6'-HxCB	132			21400	186	1.26	1.177
2,2',3,3',5,5'-HxCB	133			5680	172	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	5040	184	1.25	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	49600	4.98	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	7670	3.80	1.28	1.026
2,2',3,4,4',5-HxCB	137			6090	199	1.25	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	2760	165	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			12700	167	1.25	0.904
2,2',3,4,5,6-HxCB	142		U		179		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			4950	5.15	1.25	1.123
2,2',3,4,6,6'-HxCB	145		K	18.5	4.04	1.77	1.036
2,2',3,4',5,5'-HxCB	146		B	49100	147	1.27	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	79700	159	1.26	1.135
2,2',3,4',5,6'-HxCB	148			857	5.28	1.26	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			293	3.80	1.26	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			16.7	3.72	1.13	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	241000	137	1.26	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			477	3.68	1.20	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	18700	197	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	12400	125	1.26	0.938
2,3,3',4,4',5'-HxCB	159			580	143	1.27	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		132		
2,3,3',4',5,5'-HxCB	162			998	147	1.24	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			5730	131	1.27	0.922
2,3,3',5,5',6-HxCB	165			436	150	1.29	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			9010	142	1.26	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		185		
2,2',3,3',4,4',5-HpCB	170			31200	7.02	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	10700	6.66	1.05	1.164
2,2',3,3',4,5,5'-HpCB	172			7390	6.79	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			15600	6.09	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			2350	6.03	1.02	1.103
2,2',3,3',4,6,6'-HpCB	176			2900	4.44	1.06	1.035
2,2',3,3',4',5,6-HpCB	177			24000	6.01	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			16900	5.91	1.03	1.085
2,2',3,3',5,6,6'-HpCB	179		B	11700	4.31	1.05	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	93100	5.39	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			284	6.29	1.17	1.157
2,2',3,4,4',5,6'-HpCB	182			558	5.71	1.08	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	31400	5.88	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			366	4.24	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		4.65		
2,2',3,4',5,5',6-HpCB	187		B	104000	5.71	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			598	4.19	1.01	1.000
2,3,3',4,4',5,5'-HpCB	189			1600	15.6	0.98	1.000
2,3,3',4,4',5,6-HpCB	190			6610	5.42	1.06	0.947
2,3,3',4,4',5',6-HpCB	191			1500	5.18	1.01	0.917
2,3,3',4,5,5',6-HpCB	192		U		5.73		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			17400	13.3	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			4950	14.2	0.87	0.946
2,2',3,3',4,4',5,6'-OxCB	196			11200	7.08	0.91	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	2820	5.17	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	31000	7.21	0.91	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			5470	5.06	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			16500	5.89	0.89	1.000
2,2',3,4,4',5,5',6-OxCB	203			18200	7.05	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	60.6	5.15	1.07	1.039
2,3,3',4,4',5,5',6-OxCB	205			790	11.5	0.96	1.001
2,2',3,3',4,4',5,5',6-NoCB	206		T	17200	12.4	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	2630	9.24	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			9390	8.04	0.77	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			9530	5.80	0.68	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-19_Form1A_PB9C_358S6_SJ1087736_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Mast Landing - 10 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 13:44:56
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-19 L
Sample Size: 10.1 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.6
% Lipid: 1.34

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	880	44.0	3.21	0.721
13C12-4-MoCB	3L			2000	976	48.8	3.16	0.860
13C12-2,2'-DiCB	4L			2000	1110	55.7	1.57	0.875
13C12-4,4'-DiCB	15L			2000	1390	69.3	1.57	1.253
13C12-2,2',6-TriCB	19L			2000	1530	76.5	1.04	1.073
13C12-3,4,4'-TriCB	37L			2000	1290	64.4	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1330	66.5	0.79	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1630	81.7	0.79	1.397
13C12-3,4,4',5-TeCB	81L			2000	1600	80.2	0.78	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1600	80.2	1.61	0.808
13C12-2,3,3',4,4'-PeCB	105L			2000	1670	83.3	1.58	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1490	74.6	1.61	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1600	80.1	1.59	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1590	79.6	1.58	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1590	79.3	1.58	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1790	89.3	1.25	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3160	78.9	1.32	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1600	80.2	1.28	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1770	88.6	1.30	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1820	91.2	1.05	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1740	87.0	1.03	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1890	94.3	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1660	82.8	1.06	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1980	98.9	0.93	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1780	88.8	0.93	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2240	112	0.82	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1880	94.2	0.80	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	2070	104	1.19	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1260	63.2	1.03	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	2030	101	1.57	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1860	93.2	1.05	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River - 7 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 31-Oct-2009 Time: 01:48:34

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-20

Sample Size: 10.4 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_332A S: 5

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_332A S: 1

% Moisture: 77.2
% Lipid: 2.09

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	0.317	0.160	1.87	1.000
3-MoCB	2		B	0.338	0.193	3.08	0.988
4-MoCB	3		B	0.316	0.192	3.25	1.001
2,2'-DiCB	4			1.28	0.405	1.48	1.001
2,3-DiCB	5		U		0.238		
2,3'-DiCB	6		K	0.927	0.203	1.24	1.174
2,4-DiCB	7		U		0.204		
2,4'-DiCB	8		B	3.79	0.182	1.38	1.205
2,5-DiCB	9		K	0.331	0.199	1.22	1.143
2,6-DiCB	10		U		0.170		
3,3'-DiCB	11		B	10.4	0.251	1.50	0.969
3,4-DiCB	12	12 + 13	C U		0.249		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.234		
4,4'-DiCB	15			0.582	0.220	1.74	1.001
2,2',3-TriCB	16		K	2.93	0.130	1.23	1.166
2,2',4-TriCB	17		B	3.20	0.113	1.04	1.137
2,2',5-TriCB	18	18 + 30	C B	11.6	0.0934	1.13	1.113
2,2',6-TriCB	19			0.922	0.146	1.06	1.001
2,3,3'-TriCB	20	20 + 28	C B	101	0.276	0.98	0.847
2,3,4-TriCB	21	21 + 33	C B	18.4	0.264	1.05	0.856
2,3,4'-TriCB	22		B	19.0	0.316	1.07	0.872
2,3,5-TriCB	23		U		0.270		
2,3,6-TriCB	24		K	0.243	0.0848	0.81	1.158
2,3',4-TriCB	25		K	5.02	0.229	1.23	0.824
2,3',5-TriCB	26	26 + 29	C B	13.9	0.270	0.96	1.299
2,3',6-TriCB	27		K	1.36	0.0775	1.29	1.150
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		B	66.7	0.252	1.01	0.836
2,4',6-TriCB	32			3.52	0.235	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.283		
3,3',4-TriCB	35		U		0.364		
3,3',5-TriCB	36		U		0.294		
3,4,4'-TriCB	37		B	3.45	0.278	1.03	1.001
3,4,5-TriCB	38			0.294	0.293	0.97	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	0.392	0.310	2.31	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	37.3	0.102	0.82	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	37.7	0.105	0.83	1.310
2,2',3,5'-TeCB	43			4.54	0.117	0.76	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	218	0.0886	0.81	1.284
2,2',3,6'-TeCB	45	45 + 51	C	5.31	0.0892	0.79	1.146
2,2',3,6'-TeCB	46			1.30	0.103	0.85	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	8.75	0.100	0.87	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	130	0.0838	0.81	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	6.68	0.0840	0.80	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	281	0.0888	0.81	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.0755		
2,3,3',4'-TeCB	55		U		1.03		
2,3,3',4'-TeCB	56		B	60.3	1.02	0.79	0.905
2,3,3',5'-TeCB	57			2.50	0.934	0.76	0.843
2,3,3',5'-TeCB	58			2.09	0.953	0.75	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	19.1	0.0738	0.79	1.300
2,3,4,4'-TeCB	60		B	69.4	1.05	0.74	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	623	0.917	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			22.8	0.925	0.75	0.864
2,3,4',6'-TeCB	64		B	52.7	0.0730	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	314	0.927	0.76	0.884
2,3',4,5'-TeCB	67			5.99	0.808	0.74	0.856
2,3',4,5'-TeCB	68			10.4	0.912	0.76	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			10.5	0.874	0.75	0.822
2,3',5',6'-TeCB	73		U		0.0719		
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		B	15.0	0.812	0.79	1.000
3,3',4,5'-TeCB	78		U		1.14		
3,3',4,5'-TeCB	79			9.93	0.816	0.78	0.969
3,3',5,5'-TeCB	80		U		0.954		
3,4,4',5'-TeCB	81		U		0.910		
2,2',3,3',4'-PeCB	82			37.8	0.215	1.69	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	1220	0.195	1.60	0.886
2,2',3,3',6'-PeCB	84		B	42.1	0.198	1.59	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	219	0.168	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	502	0.164	1.59	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	54.3	0.174	1.63	1.154
2,2',3,4,6'-PeCB	89			1.10	0.193	1.64	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	1170	0.157	1.60	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	221	0.194	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	326	0.164	1.60	1.120
2,2',3,5,6'-PeCB	94			1.25	0.187	1.59	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	0.201	0.0880	1.11	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			8.44	0.154	1.49	1.093
2,2',4,6,6'-PeCB	104		U		0.112		
2,3,3',4,4'-PeCB	105		B	360	0.566	1.52	1.000
2,3,3',4,5-PeCB	106		U		0.566		
2,3,3',4',5-PeCB	107	107 + 124	C	24.2	0.595	1.50	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			133	0.600	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	546	0.147	1.57	0.925
2,3,3',5,5'-PeCB	111			4.33	0.142	1.57	0.945
2,3,3',5,6-PeCB	112		U		0.145		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			18.4	0.576	1.39	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		B	1080	0.470	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			17.7	0.146	1.64	0.958
2,3',4,5',6-PeCB	121			2.36	0.144	1.62	1.198
2',3,3',4,5-PeCB	122			5.44	0.663	1.43	1.011
2',3,4,4',5-PeCB	123			15.6	0.609	1.52	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			3.91	0.743	1.54	1.000
3,3',4,5,5'-PeCB	127			2.45	0.654	1.38	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	337	0.828	1.28	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	3200	0.798	1.27	0.929
2,2',3,3',4,5'-HxCB	130			138	1.07	1.27	0.914
2,2',3,3',4,6-HxCB	131			5.09	0.872	1.23	1.161
2,2',3,3',4,6'-HxCB	132			165	0.952	1.24	1.176
2,2',3,3',5,5'-HxCB	133			60.5	0.864	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	41.3	0.902	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	476	0.164	1.25	1.105
2,2',3,3',6,6'-HxCB	136		B	52.5	0.115	1.26	1.026
2,2',3,4,4',5-HxCB	137			59.3	0.966	1.25	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	25.5	0.821	1.20	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			126	0.912	1.27	0.904
2,2',3,4,5,6-HxCB	142		U		0.940		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			37.3	0.175	1.30	1.122
2,2',3,4,6,6'-HxCB	145		U		0.131		
2,2',3,4',5,5'-HxCB	146		B	675	0.782	1.28	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	870	0.793	1.27	1.135
2,2',3,4',5,6'-HxCB	148			9.14	0.170	1.31	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			2.31	0.120	1.33	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.102		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	3900	0.679	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			4.36	0.110	1.25	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	141	0.923	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	118	0.649	1.25	0.938
2,3,3',4,5,5'-HxCB	159			6.51	0.749	1.25	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		0.664		
2,3,3',4',5,5'-HxCB	162			10.4	0.751	1.32	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			58.2	0.727	1.27	0.922
2,3,3',5,5',6-HxCB	165			7.76	0.767	1.16	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			72.2	0.641	1.29	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		1.85		
2,2',3,3',4,4',5-HpCB	170			233	0.183	1.06	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	79.1	0.176	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			52.4	0.182	1.08	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			135	0.161	1.06	1.134
2,2',3,3',4,5',6-HpCB	175			19.7	0.160	1.08	1.102
2,2',3,3',4,6,6'-HpCB	176			20.2	0.112	1.08	1.035
2,2',3,3',4',5,6-HpCB	177			216	0.150	1.07	1.146
2,2',3,3',5,5',6-HpCB	178			164	0.153	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	94.3	0.110	1.03	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	760	0.138	1.06	0.910
2,2',3,4,4',5,6-HpCB	181			2.21	0.167	1.15	1.156
2,2',3,4,4',5,6'-HpCB	182			7.29	0.158	1.20	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	269	0.163	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			2.78	0.107	1.19	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.121		
2,2',3,4',5,5',6-HpCB	187		B	1190	0.147	1.07	1.110
2,2',3,4',5,6,6'-HpCB	188			5.57	0.108	0.96	1.000
2,3,3',4,4',5,5'-HpCB	189			8.38	0.193	1.01	1.000
2,3,3',4,4',5,6-HpCB	190			41.1	0.141	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			11.1	0.138	1.07	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.157		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			101	0.145	0.91	0.991
2,2',3,3',4,4',5,6-OxCB	195			28.9	0.166	0.86	0.946
2,2',3,3',4,4',5,6'-OxCB	196			86.3	0.180	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	16.3	0.126	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	185	0.176	0.90	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			27.7	0.126	0.95	1.022
2,2',3,3',5,5',6,6'-OxCB	202			106	0.156	0.94	1.000
2,2',3,4,4',5,5',6-OxCB	203			106	0.176	0.93	0.920
2,2',3,4,4',5,6,6'-OxCB	204		K	0.406	0.126	1.50	1.038
2,3,3',4,4',5,5',6-OxCB	205			5.29	0.111	0.93	1.001
2,2',3,3',4,4',5,5',6-NoCB	206			70.3	0.138	0.78	1.001
2,2',3,3',4,4',5,6,6'-NoCB	207			13.6	0.111	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			33.8	0.108	0.81	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			33.3	0.138	0.68	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-20_Form1A_PB9C_332AS5_SJ1086717.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River - 7 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 31-Oct-2009 Time: 01:48:34

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-20

Sample Size: 2.37 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_332A S: 5

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_332A S: 1

% Moisture: 77.2
% Lipid: 2.09

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	1.39	0.700	1.87	1.000
3-MoCB	2		B	1.48	0.845	3.08	0.988
4-MoCB	3		B	1.39	0.841	3.25	1.001
2,2'-DiCB	4			5.61	1.77	1.48	1.001
2,3-DiCB	5		U		1.05		
2,3'-DiCB	6		K	4.06	0.889	1.24	1.174
2,4-DiCB	7		U		0.894		
2,4'-DiCB	8		B	16.6	0.797	1.38	1.205
2,5-DiCB	9		K	1.45	0.871	1.22	1.143
2,6-DiCB	10		U		0.744		
3,3'-DiCB	11		B	45.5	1.10	1.50	0.969
3,4-DiCB	12	12 + 13	C U		1.09		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.03		
4,4'-DiCB	15			2.55	0.966	1.74	1.001
2,2',3-TriCB	16		K	12.8	0.570	1.23	1.166
2,2',4-TriCB	17		B	14.0	0.495	1.04	1.137
2,2',5-TriCB	18	18 + 30	C B	50.8	0.409	1.13	1.113
2,2',6-TriCB	19			4.03	0.640	1.06	1.001
2,3,3'-TriCB	20	20 + 28	C B	443	1.21	0.98	0.847
2,3,4-TriCB	21	21 + 33	C B	80.6	1.15	1.05	0.856
2,3,4'-TriCB	22		B	83.2	1.39	1.07	0.872
2,3,5-TriCB	23		U		1.18		
2,3,6-TriCB	24		K	1.06	0.371	0.81	1.158
2,3',4-TriCB	25		K	22.0	1.00	1.23	0.824
2,3',5-TriCB	26	26 + 29	C B	60.9	1.18	0.96	1.299
2,3',6-TriCB	27		K	5.96	0.339	1.29	1.150
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		B	293	1.10	1.01	0.836
2,4',6-TriCB	32			15.4	1.03	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		1.24		
3,3',4-TriCB	35		U		1.59		
3,3',5-TriCB	36		U		1.29		
3,4,4'-TriCB	37		B	15.1	1.22	1.03	1.001
3,4,5-TriCB	38			1.29	1.28	0.97	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	1.72	1.36	2.31	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	164	0.446	0.82	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	165	0.460	0.83	1.310
2,2',3,5'-TeCB	43			19.9	0.513	0.76	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	957	0.388	0.81	1.284
2,2',3,6'-TeCB	45	45 + 51	C	23.3	0.391	0.79	1.146
2,2',3,6'-TeCB	46			5.70	0.451	0.85	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	38.3	0.438	0.87	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	570	0.367	0.81	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	29.3	0.368	0.80	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1230	0.389	0.81	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.331		
2,3,3',4'-TeCB	55		U		4.51		
2,3,3',4'-TeCB	56		B	264	4.46	0.79	0.905
2,3,3',5'-TeCB	57			10.9	4.09	0.76	0.843
2,3,3',5'-TeCB	58			9.12	4.18	0.75	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	83.6	0.323	0.79	1.300
2,3,4,4'-TeCB	60		B	304	4.60	0.74	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	2730	4.02	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			100	4.05	0.75	0.864
2,3,4',6'-TeCB	64		B	231	0.319	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	1380	4.06	0.76	0.884
2,3',4,5'-TeCB	67			26.2	3.54	0.74	0.856
2,3',4,5'-TeCB	68			45.5	4.00	0.76	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			46.0	3.83	0.75	0.822
2,3',5',6'-TeCB	73		U		0.315		
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		B	65.7	3.56	0.79	1.000
3,3',4,5'-TeCB	78		U		4.99		
3,3',4,5'-TeCB	79			43.5	3.58	0.78	0.969
3,3',5,5'-TeCB	80		U		4.18		
3,4,4',5'-TeCB	81		U		3.99		
2,2',3,3',4'-PeCB	82			165	0.939	1.69	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	5340	0.854	1.60	0.886
2,2',3,3',6'-PeCB	84		B	184	0.867	1.59	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	957	0.736	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	2200	0.718	1.59	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	238	0.762	1.63	1.154
2,2',3,4,6'-PeCB	89			4.82	0.845	1.64	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	5130	0.688	1.60	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	966	0.850	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	1430	0.718	1.60	1.120
2,2',3,5,6'-PeCB	94			5.47	0.819	1.59	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	0.880	0.386	1.11	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			36.9	0.674	1.49	1.093
2,2',4,6,6'-PeCB	104		U		0.490		
2,3,3',4,4'-PeCB	105		B	1570	2.48	1.52	1.000
2,3,3',4,5-PeCB	106		U		2.48		
2,3,3',4',5-PeCB	107	107 + 124	C	106	2.60	1.50	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			582	2.63	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	2390	0.644	1.57	0.925
2,3,3',5,5'-PeCB	111			19.0	0.622	1.57	0.945
2,3,3',5,6-PeCB	112		U		0.635		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			80.6	2.52	1.39	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		B	4730	2.06	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			77.6	0.640	1.64	0.958
2,3',4,5',6-PeCB	121			10.4	0.631	1.62	1.198
2',3,3',4,5-PeCB	122			23.8	2.91	1.43	1.011
2',3,4,4',5-PeCB	123			68.3	2.67	1.52	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			17.1	3.26	1.54	1.000
3,3',4,5,5'-PeCB	127			10.7	2.86	1.38	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	1480	3.62	1.28	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	14000	3.50	1.27	0.929
2,2',3,3',4,5'-HxCB	130			605	4.69	1.27	0.914
2,2',3,3',4,6-HxCB	131			22.3	3.82	1.23	1.161
2,2',3,3',4,6'-HxCB	132			723	4.17	1.24	1.176
2,2',3,3',5,5'-HxCB	133			265	3.78	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	181	3.95	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	2080	0.718	1.25	1.105
2,2',3,3',6,6'-HxCB	136		B	230	0.504	1.26	1.026
2,2',3,4,4',5-HxCB	137			259	4.23	1.25	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	112	3.60	1.20	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			552	4.00	1.27	0.904
2,2',3,4,5,6-HxCB	142		U		4.11		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			164	0.767	1.30	1.122
2,2',3,4,6,6'-HxCB	145		U		0.573		
2,2',3,4',5,5'-HxCB	146		B	2950	3.43	1.28	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	3810	3.47	1.27	1.135
2,2',3,4',5,6'-HxCB	148			40.1	0.744	1.31	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			10.1	0.526	1.33	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.446		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	17100	2.97	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			19.1	0.482	1.25	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	617	4.04	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	517	2.84	1.25	0.938
2,3,3',4,5,5'-HxCB	159			28.5	3.28	1.25	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		2.91		
2,3,3',4',5,5'-HxCB	162			45.5	3.29	1.32	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			255	3.18	1.27	0.922
2,3,3',5,5',6-HxCB	165			34.0	3.36	1.16	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			317	2.81	1.29	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		8.10		
2,2',3,3',4,4',5-HpCB	170			1020	0.801	1.06	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	346	0.771	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			230	0.797	1.08	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			591	0.705	1.06	1.134
2,2',3,3',4,5',6-HpCB	175			86.3	0.700	1.08	1.102
2,2',3,3',4,6,6'-HpCB	176			88.5	0.490	1.08	1.035
2,2',3,3',4',5,6-HpCB	177			948	0.657	1.07	1.146
2,2',3,3',5,5',6-HpCB	178			718	0.670	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	413	0.482	1.03	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	3330	0.605	1.06	0.910
2,2',3,4,4',5,6-HpCB	181			9.66	0.732	1.15	1.156
2,2',3,4,4',5,6'-HpCB	182			31.9	0.692	1.20	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	1180	0.714	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			12.2	0.469	1.19	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.530		
2,2',3,4',5,5',6-HpCB	187		B	5220	0.644	1.07	1.110
2,2',3,4',5,6,6'-HpCB	188			24.4	0.473	0.96	1.000
2,3,3',4,4',5,5'-HpCB	189			36.7	0.845	1.01	1.000
2,3,3',4,4',5,6-HpCB	190			180	0.617	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			48.6	0.605	1.07	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.688		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			443	0.635	0.91	0.991
2,2',3,3',4,4',5,6-OxCB	195			127	0.727	0.86	0.946
2,2',3,3',4,4',5,6'-OxCB	196			378	0.788	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	71.4	0.552	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	810	0.771	0.90	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			122	0.552	0.95	1.022
2,2',3,3',5,5',6,6'-OxCB	202			464	0.683	0.94	1.000
2,2',3,4,4',5,5',6-OxCB	203			464	0.771	0.93	0.920
2,2',3,4,4',5,6,6'-OxCB	204		K	1.78	0.552	1.50	1.038
2,3,3',4,4',5,5',6-OxCB	205			23.2	0.486	0.93	1.001
2,2',3,3',4,4',5,5',6-NoCB	206			308	0.605	0.78	1.001
2,2',3,3',4,4',5,6,6'-NoCB	207			59.6	0.486	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			148	0.473	0.81	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			146	0.605	0.68	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-20_Form1A_PB9C_332AS5_SJ1086717_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River - 7 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 31-Oct-2009 Time: 01:48:34

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-20

Sample Size: 0.212 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_332A S: 5

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_332A S: 1

% Moisture: 77.2
% Lipid: 2.09

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		K B	15.5	7.83	1.87	1.000
3-MoCB	2		B	16.5	9.45	3.08	0.988
4-MoCB	3		B	15.5	9.40	3.25	1.001
2,2'-DiCB	4			62.7	19.8	1.48	1.001
2,3-DiCB	5		U		11.7		
2,3'-DiCB	6		K	45.4	9.94	1.24	1.174
2,4-DiCB	7		U		9.99		
2,4'-DiCB	8		B	186	8.91	1.38	1.205
2,5-DiCB	9		K	16.2	9.74	1.22	1.143
2,6-DiCB	10		U		8.32		
3,3'-DiCB	11		B	509	12.3	1.50	0.969
3,4-DiCB	12	12 + 13	C U		12.2		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		11.5		
4,4'-DiCB	15			28.5	10.8	1.74	1.001
2,2',3-TriCB	16		K	143	6.37	1.23	1.166
2,2',4-TriCB	17		B	157	5.53	1.04	1.137
2,2',5-TriCB	18	18 + 30	C B	568	4.57	1.13	1.113
2,2',6-TriCB	19			45.1	7.15	1.06	1.001
2,3,3'-TriCB	20	20 + 28	C B	4950	13.5	0.98	0.847
2,3,4-TriCB	21	21 + 33	C B	901	12.9	1.05	0.856
2,3,4'-TriCB	22		B	930	15.5	1.07	0.872
2,3,5-TriCB	23		U		13.2		
2,3,6-TriCB	24		K	11.9	4.15	0.81	1.158
2,3',4-TriCB	25		K	246	11.2	1.23	0.824
2,3',5-TriCB	26	26 + 29	C B	681	13.2	0.96	1.299
2,3',6-TriCB	27		K	66.6	3.79	1.29	1.150
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		B	3270	12.3	1.01	0.836
2,4',6-TriCB	32			172	11.5	1.00	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		13.9		
3,3',4-TriCB	35		U		17.8		
3,3',5-TriCB	36		U		14.4		
3,4,4'-TriCB	37		B	169	13.6	1.03	1.001
3,4,5-TriCB	38			14.4	14.3	0.97	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		K	19.2	15.2	2.31	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1830	4.99	0.82	1.336
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	1850	5.14	0.83	1.310
2,2',3,5-TeCB	43			222	5.73	0.76	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	10700	4.34	0.81	1.284
2,2',3,6-TeCB	45	45 + 51	C	260	4.37	0.79	1.146
2,2',3,6'-TeCB	46			63.7	5.04	0.85	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48		B	428	4.90	0.87	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	6370	4.10	0.81	1.257
2,2',4,6-TeCB	50	50 + 53	C B	327	4.11	0.80	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	13800	4.35	0.81	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		3.70		
2,3,3',4-TeCB	55		U		50.4		
2,3,3',4'-TeCB	56		B	2950	49.9	0.79	0.905
2,3,3',5-TeCB	57			122	45.7	0.76	0.843
2,3,3',5'-TeCB	58			102	46.7	0.75	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	935	3.61	0.79	1.300
2,3,4,4'-TeCB	60		B	3400	51.4	0.74	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	30500	44.9	0.76	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			1120	45.3	0.75	0.864
2,3,4',6-TeCB	64		B	2580	3.57	0.79	1.347
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	15400	45.4	0.76	0.884
2,3',4,5-TeCB	67			293	39.6	0.74	0.856
2,3',4,5'-TeCB	68			509	44.7	0.76	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			514	42.8	0.75	0.822
2,3',5',6-TeCB	73		U		3.52		
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		B	734	39.8	0.79	1.000
3,3',4,5-TeCB	78		U		55.8		
3,3',4,5'-TeCB	79			486	40.0	0.78	0.969
3,3',5,5'-TeCB	80		U		46.7		
3,4,4',5-TeCB	81		U		44.6		
2,2',3,3',4-PeCB	82			1850	10.5	1.69	0.934
2,2',3,3',5-PeCB	83	83 + 99	C B	59700	9.55	1.60	0.886
2,2',3,3',6-PeCB	84		B	2060	9.69	1.59	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	10700	8.23	1.57	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	24600	8.03	1.59	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C	2660	8.52	1.63	1.154
2,2',3,4,6'-PeCB	89			53.9	9.45	1.64	1.183
2,2',3,4',5-PeCB	90	90 + 101 + 113	C B	57300	7.69	1.60	0.869
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	10800	9.50	1.58	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	16000	8.03	1.60	1.120
2,2',3,5,6'-PeCB	94			61.2	9.16	1.59	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	9.84	4.31	1.11	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			413	7.54	1.49	1.093
2,2',4,6,6'-PeCB	104		U		5.48		
2,3,3',4,4'-PeCB	105		B	17600	27.7	1.52	1.000
2,3,3',4,5-PeCB	106		U		27.7		
2,3,3',4',5-PeCB	107	107 + 124	C	1180	29.1	1.50	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			6510	29.4	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	26700	7.20	1.57	0.925
2,3,3',5,5'-PeCB	111			212	6.95	1.57	0.945
2,3,3',5,6-PeCB	112		U		7.10		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			901	28.2	1.39	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		B	52900	23.0	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			867	7.15	1.64	0.958
2,3',4,5',6-PeCB	121			116	7.05	1.62	1.198
2',3,3',4,5-PeCB	122			266	32.5	1.43	1.011
2',3,4,4',5-PeCB	123			764	29.8	1.52	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			191	36.4	1.54	1.000
3,3',4,5,5'-PeCB	127			120	32.0	1.38	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	16500	40.5	1.28	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	157000	39.1	1.27	0.929
2,2',3,3',4,5'-HxCB	130			6760	52.4	1.27	0.914
2,2',3,3',4,6-HxCB	131			249	42.7	1.23	1.161
2,2',3,3',4,6'-HxCB	132			8080	46.6	1.24	1.176
2,2',3,3',5,5'-HxCB	133			2960	42.3	1.27	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	2020	44.2	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	23300	8.03	1.25	1.105
2,2',3,3',6,6'-HxCB	136		B	2570	5.63	1.26	1.026
2,2',3,4,4',5-HxCB	137			2900	47.3	1.25	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	1250	40.2	1.20	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			6170	44.7	1.27	0.904
2,2',3,4,5,6-HxCB	142		U		46.0		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			1830	8.57	1.30	1.122
2,2',3,4,6,6'-HxCB	145		U		6.41		
2,2',3,4',5,5'-HxCB	146		B	33000	38.3	1.28	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	42600	38.8	1.27	1.135
2,2',3,4',5,6'-HxCB	148			448	8.32	1.31	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			113	5.88	1.33	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		4.99		
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	191000	33.2	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			213	5.39	1.25	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	6900	45.2	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	5780	31.8	1.25	0.938
2,3,3',4,5,5'-HxCB	159			319	36.7	1.25	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		32.5		
2,3,3',4',5,5'-HxCB	162			509	36.8	1.32	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			2850	35.6	1.27	0.922
2,3,3',5,5',6-HxCB	165			380	37.6	1.16	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			3540	31.4	1.29	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		90.6		
2,2',3,3',4,4',5-HpCB	170			11400	8.96	1.06	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	3870	8.62	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			2570	8.91	1.08	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			6610	7.88	1.06	1.134
2,2',3,3',4,5',6-HpCB	175			965	7.83	1.08	1.102
2,2',3,3',4,6,6'-HpCB	176			989	5.48	1.08	1.035
2,2',3,3',4',5,6-HpCB	177			10600	7.34	1.07	1.146
2,2',3,3',5,5',6-HpCB	178			8030	7.49	1.05	1.085
2,2',3,3',5,6,6'-HpCB	179		B	4620	5.39	1.03	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	37200	6.76	1.06	0.910
2,2',3,4,4',5,6-HpCB	181			108	8.18	1.15	1.156
2,2',3,4,4',5,6'-HpCB	182			357	7.74	1.20	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	13200	7.98	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			136	5.24	1.19	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		5.92		
2,2',3,4',5,5',6-HpCB	187		B	58300	7.20	1.07	1.110
2,2',3,4',5,6,6'-HpCB	188			273	5.29	0.96	1.000
2,3,3',4,4',5,5'-HpCB	189			410	9.45	1.01	1.000
2,3,3',4,4',5,6-HpCB	190			2010	6.90	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			543	6.76	1.07	0.918
2,3,3',4,5,5',6-HpCB	192		U		7.69		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			4950	7.10	0.91	0.991
2,2',3,3',4,4',5,6-OxCB	195			1420	8.13	0.86	0.946
2,2',3,3',4,4',5,6'-OxCB	196			4230	8.81	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	798	6.17	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	9060	8.62	0.90	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			1360	6.17	0.95	1.022
2,2',3,3',5,5',6,6'-OxCB	202			5190	7.64	0.94	1.000
2,2',3,4,4',5,5',6-OxCB	203			5190	8.62	0.93	0.920
2,2',3,4,4',5,6,6'-OxCB	204		K	19.9	6.17	1.50	1.038
2,3,3',4,4',5,5',6-OxCB	205			259	5.43	0.93	1.001
2,2',3,3',4,4',5,5',6-NoCB	206			3440	6.76	0.78	1.001
2,2',3,3',4,4',5,6,6'-NoCB	207			666	5.43	0.79	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			1650	5.29	0.81	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			1630	6.76	0.68	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-20_Form1A_PB9C_332AS5_SJ1086717_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Chandler River - 7 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 31-Oct-2009 Time: 01:48:34
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-20
Sample Size: 10.4 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_332A S: 5
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_332A S: 1
% Moisture: 77.2
% Lipid: 2.09

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	195	9.75	3.37	0.722
13C12-4-MoCB	3L		V	2000	237	11.8	3.56	0.861
13C12-2,2'-DiCB	4L		V	2000	321	16.0	1.58	0.876
13C12-4,4'-DiCB	15L			2000	505	25.2	1.57	1.254
13C12-2,2',6-TriCB	19L			2000	563	28.2	1.06	1.072
13C12-3,4,4'-TriCB	37L			2000	954	47.7	1.06	1.093
13C12-2,2',6,6'-TeCB	54L			2000	850	42.5	0.83	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1170	58.5	0.79	1.397
13C12-3,4,4',5-TeCB	81L			2000	1090	54.7	0.77	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1050	52.5	1.63	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1130	56.6	1.51	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1100	55.0	1.58	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1320	65.8	1.53	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1090	54.5	1.54	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1070	53.6	1.54	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1120	56.2	1.28	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2590	64.8	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	1350	67.5	1.33	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1220	61.1	1.34	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1390	69.3	1.09	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1580	78.9	1.04	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1300	64.9	1.08	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1390	69.5	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1220	61.1	0.91	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1690	84.7	0.94	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	1590	79.4	0.79	1.043
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1520	76.1	0.80	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1510	75.7	1.21	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	897	44.8	1.05	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1470	73.5	1.61	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1280	64.1	1.08	1.011

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-21

Matrix: TISSUE

Sample Size: 10.6 g (wet)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 31-Oct-2009 Time: 02:52:55

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_332A S: 6

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_332A S: 1

Concentration Units: pg/g (wet weight basis)

% Moisture: 80.2
% Lipid: 1.22

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.488	0.103	3.14	1.001
3-MoCB	2		B	0.217	0.118	2.84	0.987
4-MoCB	3		K B	0.504	0.112	3.85	1.001
2,2'-DiCB	4			1.11	0.369	1.53	1.001
2,3-DiCB	5		U		0.254		
2,3'-DiCB	6			0.441	0.216	1.77	1.174
2,4-DiCB	7		U		0.217		
2,4'-DiCB	8		B	2.88	0.194	1.52	1.207
2,5-DiCB	9		U		0.212		
2,6-DiCB	10		U		0.181		
3,3'-DiCB	11		B	3.16	0.267	1.71	0.968
3,4-DiCB	12	12 + 13	C U		0.266		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.249		
4,4'-DiCB	15			0.633	0.252	1.70	1.001
2,2',3-TriCB	16		K	1.61	0.164	0.80	1.167
2,2',4-TriCB	17		B	2.30	0.143	1.19	1.137
2,2',5-TriCB	18	18 + 30	C B	7.41	0.118	1.09	1.113
2,2',6-TriCB	19			1.24	0.174	1.14	1.001
2,3,3'-TriCB	20	20 + 28	C B	53.2	0.358	0.98	0.848
2,3,4-TriCB	21	21 + 33	C B	8.05	0.343	0.96	0.857
2,3,4'-TriCB	22		B	7.98	0.410	0.96	0.872
2,3,5-TriCB	23		U		0.351		
2,3,6-TriCB	24			0.159	0.107	0.89	1.160
2,3',4-TriCB	25			3.16	0.297	0.92	0.824
2,3',5-TriCB	26	26 + 29	C B	6.31	0.351	0.96	1.299
2,3',6-TriCB	27			0.904	0.0978	1.12	1.151
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		B	23.8	0.327	0.96	0.837
2,4',6-TriCB	32			3.34	0.304	0.94	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			0.375	0.367	1.20	1.272
3,3',4-TriCB	35		U		0.472		
3,3',5-TriCB	36		U		0.382		
3,4,4'-TriCB	37		K B	2.33	0.366	0.82	1.001
3,4,5-TriCB	38		U		0.381		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		0.402		
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	20.6	0.103	0.76	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	18.6	0.106	0.77	1.310
2,2',3,5'-TeCB	43			1.79	0.118	0.84	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	82.9	0.0895	0.81	1.285
2,2',3,6'-TeCB	45	45 + 51	C	4.10	0.0900	0.78	1.146
2,2',3,6'-TeCB	46		K	0.979	0.104	1.14	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	5.35	0.101	0.84	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	61.7	0.0846	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	5.28	0.0848	0.80	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	120	0.0896	0.80	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	0.403	0.105	1.03	1.000
2,3,3',4'-TeCB	55		U		0.360		
2,3,3',4'-TeCB	56		B	34.5	0.359	0.78	0.905
2,3,3',5'-TeCB	57			1.31	0.328	0.72	0.843
2,3,3',5'-TeCB	58		K	0.971	0.335	0.91	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	9.44	0.0744	0.77	1.300
2,3,4,4'-TeCB	60		B	30.4	0.369	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	191	0.322	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			12.3	0.325	0.75	0.864
2,3,4',6'-TeCB	64		B	29.2	0.0737	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	134	0.326	0.78	0.884
2,3',4,5'-TeCB	67			4.35	0.284	0.78	0.856
2,3',4,5'-TeCB	68			5.08	0.320	0.75	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			5.57	0.307	0.74	0.822
2,3',5',6'-TeCB	73		U		0.0725		
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		B	12.1	0.246	0.78	1.000
3,3',4,5'-TeCB	78		U		0.399		
3,3',4,5'-TeCB	79			5.67	0.287	0.70	0.969
3,3',5,5'-TeCB	80		U		0.335		
3,4,4',5'-TeCB	81		K	0.835	0.301	0.61	1.000
2,2',3,3',4'-PeCB	82			21.4	0.313	1.52	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	399	0.284	1.59	0.885
2,2',3,3',6'-PeCB	84		B	28.4	0.289	1.60	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	109	0.246	1.60	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	236	0.239	1.53	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	45.1	0.254	1.63	1.154
2,2',3,4,6'-PeCB	89		K	1.01	0.282	1.26	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	531	0.229	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	133	0.283	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	180	0.240	1.61	1.122
2,2',3,5,6'-PeCB	94		K	1.21	0.272	1.80	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	0.344	0.0999	0.93	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			8.69	0.225	1.58	1.093
2,2',4,6,6'-PeCB	104			0.332	0.178	1.55	1.001
2,3,3',4,4'-PeCB	105		B	201	1.07	1.55	1.000
2,3,3',4,5-PeCB	106		U		1.25		
2,3,3',4',5-PeCB	107	107 + 124	C	16.2	1.31	1.46	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			98.3	1.32	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	404	0.215	1.60	0.925
2,3,3',5,5'-PeCB	111			5.32	0.208	1.56	0.945
2,3,3',5,6-PeCB	112		U		0.212		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			9.83	1.26	1.71	1.001
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		B	556	1.04	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			23.1	0.214	1.57	0.958
2,3',4,5',6-PeCB	121			0.585	0.210	1.74	1.198
2',3,3',4,5-PeCB	122			2.48	1.46	1.50	1.010
2',3,4,4',5-PeCB	123			9.28	1.25	1.40	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			3.13	1.49	1.58	1.000
3,3',4,5,5'-PeCB	127		U		1.44		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	285	2.52	1.27	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	2020	2.43	1.27	0.929
2,2',3,3',4,5'-HxCB	130			135	3.25	1.25	0.913
2,2',3,3',4,6-HxCB	131			6.49	2.66	1.28	1.160
2,2',3,3',4,6'-HxCB	132			203	2.90	1.28	1.176
2,2',3,3',5,5'-HxCB	133			70.7	2.63	1.28	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	48.2	2.75	1.28	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	588	0.170	1.28	1.105
2,2',3,3',6,6'-HxCB	136		B	72.2	0.119	1.30	1.026
2,2',3,4,4',5-HxCB	137			38.3	2.95	1.28	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	26.0	2.50	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			134	2.78	1.31	0.904
2,2',3,4,5,6-HxCB	142		U		2.87		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			53.8	0.181	1.25	1.122
2,2',3,4,6,6'-HxCB	145		K	0.234	0.135	3.57	1.035
2,2',3,4',5,5'-HxCB	146		B	742	2.38	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	953	2.42	1.27	1.134
2,2',3,4',5,6'-HxCB	148		K	9.83	0.176	1.49	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			3.91	0.124	1.21	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.154	0.106	1.36	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	3070	2.07	1.27	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			2.37	0.106	1.12	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	118	3.01	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	120	1.98	1.26	0.938
2,3,3',4,5,5'-HxCB	159			12.7	2.28	1.38	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		2.02		
2,3,3',4',5,5'-HxCB	162		K	12.4	2.29	1.47	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			62.6	2.22	1.27	0.922
2,3,3',5,5',6-HxCB	165			7.98	2.34	1.11	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			70.0	1.87	1.24	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		2.90		
2,2',3,3',4,4',5'-HpCB	170			312	0.223	1.05	0.936
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C	135	0.214	1.06	1.163
2,2',3,3',4,5,5'-HpCB	172			88.5	0.221	1.03	0.897
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			195	0.196	1.04	1.134
2,2',3,3',4,5',6'-HpCB	175			36.4	0.195	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			45.9	0.137	1.03	1.034
2,2',3,3',4',5,6'-HpCB	177			328	0.183	1.07	1.146
2,2',3,3',5,5',6'-HpCB	178			259	0.187	1.08	1.085
2,2',3,3',5,6,6'-HpCB	179		B	171	0.134	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	1130	0.168	1.05	0.910
2,2',3,4,4',5,6'-HpCB	181			2.75	0.203	1.11	1.156
2,2',3,4,4',5,6'-HpCB	182			7.28	0.193	1.03	1.115
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C B	487	0.199	1.06	1.126
2,2',3,4,4',6,6'-HpCB	184			3.77	0.130	1.01	1.024
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.148		
2,2',3,4',5,5',6'-HpCB	187		B	1720	0.180	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			6.71	0.105	1.07	1.000
2,3,3',4,4',5,5'-HpCB	189			14.5	0.369	0.96	1.001
2,3,3',4,4',5,6'-HpCB	190			66.3	0.171	1.10	0.947
2,3,3',4,4',5',6'-HpCB	191			17.6	0.169	1.13	0.918
2,3,3',4,5,5',6'-HpCB	192		U		0.191		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			180	0.346	0.91	0.991
2,2',3,3',4,4',5,6'-OxCB	195			53.9	0.396	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			129	0.298	0.91	0.915
2,2',3,3',4,4',6'-OxCB	197	197 + 200	C	44.2	0.209	0.90	1.045
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C	436	0.293	0.89	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			74.3	0.210	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			175	0.221	0.91	1.000
2,2',3,4,4',5,5',6'-OxCB	203			202	0.292	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204			0.849	0.209	0.89	1.039
2,3,3',4,4',5,5',6'-OxCB	205			11.0	0.301	0.98	1.000
2,2',3,3',4,4',5,5',6'-NoCB	206		T	239	0.471	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	41.1	0.326	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			139	0.266	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			282	0.261	0.68	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-21_Form1A_PB9C_332AS6_SJ1086719.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-21

Matrix: TISSUE

Sample Size: 2.09 g (dry)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 31-Oct-2009 Time: 02:52:55

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_332A S: 6

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_332A S: 1

Concentration Units: pg/g (dry weight basis)

% Moisture: 80.2
% Lipid: 1.22

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	2.47	0.521	3.14	1.001
3-MoCB	2		B	1.10	0.597	2.84	0.987
4-MoCB	3		K B	2.55	0.566	3.85	1.001
2,2'-DiCB	4			5.61	1.86	1.53	1.001
2,3-DiCB	5		U		1.29		
2,3'-DiCB	6			2.23	1.09	1.77	1.174
2,4-DiCB	7		U		1.10		
2,4'-DiCB	8		B	14.6	0.980	1.52	1.207
2,5-DiCB	9		U		1.07		
2,6-DiCB	10		U		0.913		
3,3'-DiCB	11		B	16.0	1.35	1.71	0.968
3,4-DiCB	12	12 + 13	C U		1.34		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.26		
4,4'-DiCB	15			3.20	1.27	1.70	1.001
2,2',3-TriCB	16		K	8.15	0.827	0.80	1.167
2,2',4-TriCB	17		B	11.6	0.723	1.19	1.137
2,2',5-TriCB	18	18 + 30	C B	37.4	0.597	1.09	1.113
2,2',6-TriCB	19			6.25	0.882	1.14	1.001
2,3,3'-TriCB	20	20 + 28	C B	269	1.81	0.98	0.848
2,3,4-TriCB	21	21 + 33	C B	40.7	1.73	0.96	0.857
2,3,4'-TriCB	22		B	40.3	2.07	0.96	0.872
2,3,5-TriCB	23		U		1.78		
2,3,6-TriCB	24			0.802	0.541	0.89	1.160
2,3',4-TriCB	25			16.0	1.50	0.92	0.824
2,3',5-TriCB	26	26 + 29	C B	31.9	1.78	0.96	1.299
2,3',6-TriCB	27			4.57	0.494	1.12	1.151
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		B	120	1.65	0.96	0.837
2,4',6-TriCB	32			16.9	1.54	0.94	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			1.89	1.86	1.20	1.272
3,3',4-TriCB	35		U		2.38		
3,3',5-TriCB	36		U		1.93		
3,4,4'-TriCB	37		K B	11.8	1.85	0.82	1.001
3,4,5-TriCB	38		U		1.92		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		2.03		
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	104	0.521	0.76	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	93.7	0.536	0.77	1.310
2,2',3,5'-TeCB	43			9.06	0.597	0.84	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	419	0.452	0.81	1.285
2,2',3,6'-TeCB	45	45 + 51	C	20.7	0.455	0.78	1.146
2,2',3,6'-TeCB	46		K	4.95	0.525	1.14	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	27.0	0.510	0.84	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	312	0.427	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	26.7	0.429	0.80	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	606	0.453	0.80	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	2.03	0.530	1.03	1.000
2,3,3',4'-TeCB	55		U		1.82		
2,3,3',4'-TeCB	56		B	175	1.81	0.78	0.905
2,3,3',5'-TeCB	57			6.61	1.66	0.72	0.843
2,3,3',5'-TeCB	58		K	4.91	1.69	0.91	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	47.7	0.376	0.77	1.300
2,3,4,4'-TeCB	60		B	154	1.86	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	968	1.63	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			61.9	1.64	0.75	0.864
2,3,4',6'-TeCB	64		B	148	0.372	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	680	1.65	0.78	0.884
2,3',4,5'-TeCB	67			22.0	1.43	0.78	0.856
2,3',4,5'-TeCB	68			25.7	1.62	0.75	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			28.2	1.55	0.74	0.822
2,3',5',6'-TeCB	73		U		0.366		
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		B	61.1	1.24	0.78	1.000
3,3',4,5'-TeCB	78		U		2.01		
3,3',4,5'-TeCB	79			28.7	1.45	0.70	0.969
3,3',5,5'-TeCB	80		U		1.69		
3,4,4',5'-TeCB	81		K	4.22	1.52	0.61	1.000
2,2',3,3',4'-PeCB	82			108	1.58	1.52	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	2010	1.43	1.59	0.885
2,2',3,3',6'-PeCB	84		B	143	1.46	1.60	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	551	1.24	1.60	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	1190	1.21	1.53	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	228	1.29	1.63	1.154
2,2',3,4,6'-PeCB	89		K	5.10	1.43	1.26	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	2680	1.16	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	674	1.43	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	913	1.21	1.61	1.122
2,2',3,5,6'-PeCB	94		K	6.11	1.37	1.80	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	1.74	0.505	0.93	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			43.9	1.14	1.58	1.093
2,2',4,6,6'-PeCB	104			1.68	0.900	1.55	1.001
2,3,3',4,4'-PeCB	105		B	1020	5.41	1.55	1.000
2,3,3',4,5-PeCB	106		U		6.31		
2,3,3',4',5-PeCB	107	107 + 124	C	82.1	6.61	1.46	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			497	6.68	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	2040	1.08	1.60	0.925
2,3,3',5,5'-PeCB	111			26.9	1.05	1.56	0.945
2,3,3',5,6-PeCB	112		U		1.07		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			49.7	6.37	1.71	1.001
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		B	2810	5.25	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			117	1.08	1.57	0.958
2,3',4,5',6-PeCB	121			2.96	1.06	1.74	1.198
2',3,3',4,5-PeCB	122			12.6	7.35	1.50	1.010
2',3,4,4',5-PeCB	123			46.9	6.31	1.40	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			15.8	7.53	1.58	1.000
3,3',4,5,5'-PeCB	127		U		7.29		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	1440	12.7	1.27	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	10200	12.2	1.27	0.929
2,2',3,3',4,5'-HxCB	130			680	16.4	1.25	0.913
2,2',3,3',4,6-HxCB	131			32.8	13.4	1.28	1.160
2,2',3,3',4,6'-HxCB	132			1020	14.6	1.28	1.176
2,2',3,3',5,5'-HxCB	133			357	13.3	1.28	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	244	13.9	1.28	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	2970	0.857	1.28	1.105
2,2',3,3',6,6'-HxCB	136		B	365	0.601	1.30	1.026
2,2',3,4,4',5-HxCB	137			194	14.9	1.28	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	132	12.6	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			680	14.0	1.31	0.904
2,2',3,4,5,6-HxCB	142		U		14.5		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			272	0.913	1.25	1.122
2,2',3,4,6,6'-HxCB	145		K	1.18	0.680	3.57	1.035
2,2',3,4',5,5'-HxCB	146		B	3750	12.0	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	4810	12.2	1.27	1.134
2,2',3,4',5,6'-HxCB	148		K	49.7	0.888	1.49	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			19.8	0.625	1.21	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.778	0.536	1.36	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	15500	10.5	1.27	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			12.0	0.536	1.12	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	597	15.2	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	606	9.98	1.26	0.938
2,3,3',4,5,5'-HxCB	159			64.3	11.5	1.38	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		10.2		
2,3,3',4',5,5'-HxCB	162		K	62.5	11.6	1.47	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			316	11.2	1.27	0.922
2,3,3',5,5',6-HxCB	165			40.3	11.8	1.11	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			354	9.43	1.24	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		14.6		
2,2',3,3',4,4',5-HpCB	170			1570	1.13	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	680	1.08	1.06	1.163
2,2',3,3',4,5,5'-HpCB	172			447	1.11	1.03	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			986	0.992	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			184	0.986	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			232	0.692	1.03	1.034
2,2',3,3',4',5,6-HpCB	177			1660	0.925	1.07	1.146
2,2',3,3',5,5',6-HpCB	178			1310	0.943	1.08	1.085
2,2',3,3',5,6,6'-HpCB	179		B	864	0.680	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	5710	0.851	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			13.9	1.02	1.11	1.156
2,2',3,4,4',5,6'-HpCB	182			36.8	0.974	1.03	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	2460	1.00	1.06	1.126
2,2',3,4,4',6,6'-HpCB	184			19.0	0.655	1.01	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.747		
2,2',3,4',5,5',6-HpCB	187		B	8700	0.913	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			33.9	0.530	1.07	1.000
2,3,3',4,4',5,5'-HpCB	189			73.5	1.86	0.96	1.001
2,3,3',4,4',5,6-HpCB	190			335	0.864	1.10	0.947
2,3,3',4,4',5',6-HpCB	191			88.8	0.851	1.13	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.968		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			913	1.75	0.91	0.991
2,2',3,3',4,4',5,6-OxCB	195			273	2.00	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			649	1.51	0.91	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	224	1.05	0.90	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	2200	1.48	0.89	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			375	1.06	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			882	1.11	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			1020	1.48	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204			4.29	1.05	0.89	1.039
2,3,3',4,4',5,5',6-OxCB	205			55.6	1.52	0.98	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	1210	2.38	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	208	1.65	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			704	1.34	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			1430	1.32	0.68	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-21_Form1A_PB9C_332AS6_SJ1086719_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009

Lab Sample I.D.: L13452-21

Matrix: TISSUE

Sample Size: 0.128 g (lipid)

Sample Receipt Date: 01-Sep-2009

Initial Calibration Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Instrument ID: HR GC/MS

Analysis Date: 31-Oct-2009 Time: 02:52:55

GC Column ID: SPB OCTYL

Extract Volume (uL): 20

Sample Data Filename: PB9C_332A S: 6

Injection Volume (uL): 1.0

Blank Data Filename: PB9C_331 S: 4

Dilution Factor: N/A

Cal. Ver. Data Filename: PB9C_332A S: 1

Concentration Units: pg/g (lipid weight basis)

% Moisture: 80.2
% Lipid: 1.22

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	40.3	8.50	3.14	1.001
3-MoCB	2		B	17.9	9.74	2.84	0.987
4-MoCB	3		K B	41.6	9.24	3.85	1.001
2,2'-DiCB	4			91.6	30.4	1.53	1.001
2,3-DiCB	5		U		21.0		
2,3'-DiCB	6			36.4	17.8	1.77	1.174
2,4-DiCB	7		U		17.9		
2,4'-DiCB	8		B	238	16.0	1.52	1.207
2,5-DiCB	9		U		17.5		
2,6-DiCB	10		U		14.9		
3,3'-DiCB	11		B	261	22.0	1.71	0.968
3,4-DiCB	12	12 + 13	C U		21.9		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		20.5		
4,4'-DiCB	15			52.2	20.8	1.70	1.001
2,2',3-TriCB	16		K	133	13.5	0.80	1.167
2,2',4-TriCB	17		B	190	11.8	1.19	1.137
2,2',5-TriCB	18	18 + 30	C B	611	9.74	1.09	1.113
2,2',6-TriCB	19			102	14.4	1.14	1.001
2,3,3'-TriCB	20	20 + 28	C B	4390	29.5	0.98	0.848
2,3,4-TriCB	21	21 + 33	C B	664	28.3	0.96	0.857
2,3,4'-TriCB	22		B	658	33.8	0.96	0.872
2,3,5-TriCB	23		U		29.0		
2,3,6-TriCB	24			13.1	8.83	0.89	1.160
2,3',4-TriCB	25			261	24.5	0.92	0.824
2,3',5-TriCB	26	26 + 29	C B	521	29.0	0.96	1.299
2,3',6-TriCB	27			74.6	8.07	1.12	1.151
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		B	1960	27.0	0.96	0.837
2,4',6-TriCB	32			276	25.1	0.94	1.197
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			30.9	30.3	1.20	1.272
3,3',4-TriCB	35		U		38.9		
3,3',5-TriCB	36		U		31.5		
3,4,4'-TriCB	37		K B	192	30.2	0.82	1.001
3,4,5-TriCB	38		U		31.4		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		33.2		
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1700	8.50	0.76	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	1530	8.75	0.77	1.310
2,2',3,5'-TeCB	43			148	9.74	0.84	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	6840	7.38	0.81	1.285
2,2',3,6'-TeCB	45	45 + 51	C	338	7.43	0.78	1.146
2,2',3,6'-TeCB	46		K	80.8	8.58	1.14	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	441	8.33	0.84	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	5090	6.98	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	436	7.00	0.80	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	9900	7.39	0.80	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	33.2	8.66	1.03	1.000
2,3,3',4'-TeCB	55		U		29.7		
2,3,3',4'-TeCB	56		B	2850	29.6	0.78	0.905
2,3,3',5'-TeCB	57			108	27.1	0.72	0.843
2,3,3',5'-TeCB	58		K	80.1	27.6	0.91	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	779	6.14	0.77	1.300
2,3,4,4'-TeCB	60		B	2510	30.4	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	15800	26.6	0.76	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			1010	26.8	0.75	0.864
2,3,4',6'-TeCB	64		B	2410	6.08	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	11100	26.9	0.78	0.884
2,3',4,5'-TeCB	67			359	23.4	0.78	0.856
2,3',4,5'-TeCB	68			419	26.4	0.75	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			460	25.3	0.74	0.822
2,3',5',6'-TeCB	73		U		5.98		
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		B	998	20.3	0.78	1.000
3,3',4,5'-TeCB	78		U		32.9		
3,3',4,5'-TeCB	79			468	23.7	0.70	0.969
3,3',5,5'-TeCB	80		U		27.6		
3,4,4',5'-TeCB	81		K	68.9	24.8	0.61	1.000
2,2',3,3',4'-PeCB	82			1770	25.8	1.52	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	32900	23.4	1.59	0.885
2,2',3,3',6'-PeCB	84		B	2340	23.8	1.60	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	8990	20.3	1.60	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	19500	19.7	1.53	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	3720	21.0	1.63	1.154
2,2',3,4,6'-PeCB	89		K	83.3	23.3	1.26	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	43800	18.9	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	11000	23.3	1.59	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	14900	19.8	1.61	1.122
2,2',3,5,6'-PeCB	94		K	99.8	22.4	1.80	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		K	28.4	8.24	0.93	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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			717	18.6	1.58	1.093
2,2',4,6,6'-PeCB	104			27.4	14.7	1.55	1.001
2,3,3',4,4'-PeCB	105		B	16600	88.3	1.55	1.000
2,3,3',4,5-PeCB	106		U		103		
2,3,3',4',5-PeCB	107	107 + 124	C	1340	108	1.46	0.990
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			8110	109	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	33300	17.7	1.60	0.925
2,3,3',5,5'-PeCB	111			439	17.2	1.56	0.945
2,3,3',5,6-PeCB	112		U		17.5		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			811	104	1.71	1.001
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		B	45900	85.8	1.53	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			1910	17.7	1.57	0.958
2,3',4,5',6-PeCB	121			48.3	17.3	1.74	1.198
2',3,3',4,5-PeCB	122			205	120	1.50	1.010
2',3,4,4',5-PeCB	123			766	103	1.40	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			258	123	1.58	1.000
3,3',4,5,5'-PeCB	127		U		119		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	23500	208	1.27	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	167000	200	1.27	0.929
2,2',3,3',4,5'-HxCB	130			11100	268	1.25	0.913
2,2',3,3',4,6-HxCB	131			535	219	1.28	1.160
2,2',3,3',4,6'-HxCB	132			16700	239	1.28	1.176
2,2',3,3',5,5'-HxCB	133			5830	217	1.28	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	3980	227	1.28	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	48500	14.0	1.28	1.105
2,2',3,3',6,6'-HxCB	136		B	5960	9.82	1.30	1.026
2,2',3,4,4',5-HxCB	137			3160	243	1.28	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	2150	206	1.24	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			11100	229	1.31	0.904
2,2',3,4,5,6-HxCB	142		U		237		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			4440	14.9	1.25	1.122
2,2',3,4,6,6'-HxCB	145		K	19.3	11.1	3.57	1.035
2,2',3,4',5,5'-HxCB	146		B	61200	196	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	78600	200	1.27	1.134
2,2',3,4',5,6'-HxCB	148		K	811	14.5	1.49	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			323	10.2	1.21	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			12.7	8.75	1.36	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	253000	171	1.27	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			196	8.75	1.12	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	9740	248	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	9900	163	1.26	0.938
2,3,3',4,5,5'-HxCB	159			1050	188	1.38	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		167		
2,3,3',4',5,5'-HxCB	162		K	1020	189	1.47	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			5160	183	1.27	0.922
2,3,3',5,5',6-HxCB	165			658	193	1.11	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			5780	154	1.24	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		239		
2,2',3,3',4,4',5-HpCB	170			25700	18.4	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	11100	17.7	1.06	1.163
2,2',3,3',4,5,5'-HpCB	172			7300	18.2	1.03	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			16100	16.2	1.04	1.134
2,2',3,3',4,5',6-HpCB	175			3000	16.1	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			3790	11.3	1.03	1.034
2,2',3,3',4',5,6-HpCB	177			27100	15.1	1.07	1.146
2,2',3,3',5,5',6-HpCB	178			21400	15.4	1.08	1.085
2,2',3,3',5,6,6'-HpCB	179		B	14100	11.1	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	93200	13.9	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			227	16.7	1.11	1.156
2,2',3,4,4',5,6'-HpCB	182			601	15.9	1.03	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	40200	16.4	1.06	1.126
2,2',3,4,4',6,6'-HpCB	184			311	10.7	1.01	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		12.2		
2,2',3,4',5,5',6-HpCB	187		B	142000	14.9	1.05	1.110
2,2',3,4',5,6,6'-HpCB	188			554	8.66	1.07	1.000
2,3,3',4,4',5,5'-HpCB	189			1200	30.4	0.96	1.001
2,3,3',4,4',5,6-HpCB	190			5470	14.1	1.10	0.947
2,3,3',4,4',5',6-HpCB	191			1450	13.9	1.13	0.918
2,3,3',4,5,5',6-HpCB	192		U		15.8		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			14900	28.5	0.91	0.991
2,2',3,3',4,4',5,6-OxCB	195			4450	32.7	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			10600	24.6	0.91	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	3650	17.2	0.90	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	36000	24.2	0.89	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			6130	17.3	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			14400	18.2	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			16700	24.1	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204			70.0	17.2	0.89	1.039
2,3,3',4,4',5,5',6-OxCB	205			908	24.8	0.98	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	19700	38.9	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	3390	26.9	0.77	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			11500	21.9	0.79	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			23300	21.5	0.68	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-21_Form1A_PB9C_332AS6_SJ1086719_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 31-Oct-2009 Time: 02:52:55
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-21
Sample Size: 10.6 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_332A S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_332A S: 1
% Moisture: 80.2
% Lipid: 1.22

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	416	20.8	3.47	0.721
13C12-4-MoCB	3L			2000	521	26.0	3.43	0.860
13C12-2,2'-DiCB	4L			2000	592	29.6	1.65	0.875
13C12-4,4'-DiCB	15L			2000	743	37.1	1.55	1.254
13C12-2,2',6-TriCB	19L			2000	808	40.4	1.03	1.072
13C12-3,4,4'-TriCB	37L			2000	1160	58.1	1.02	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1080	54.2	0.79	0.812
13C12-3,3',4,4'-TeCB	77L			2000	2190	110	0.79	1.397
13C12-3,4,4',5-TeCB	81L			2000	1920	95.9	0.78	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1020	51.2	1.59	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1790	89.3	1.54	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1530	76.6	1.58	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1840	92.0	1.53	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1630	81.4	1.54	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1530	76.3	1.55	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1180	59.2	1.29	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2340	58.4	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	1340	67.0	1.30	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1160	58.0	1.29	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1830	91.4	1.04	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	2070	103	1.05	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	2250	112	1.07	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1270	63.6	1.06	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1790	89.6	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1840	91.9	0.94	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2250	113	0.84	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1710	85.5	0.84	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1560	77.9	1.20	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1130	56.4	1.03	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	2400	120	1.63	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1530	76.7	1.09	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek- 7 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 31-Oct-2009 Time: 03:57:19

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-22

Sample Size: 10.5 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_332A S: 7

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_332A S: 1

% Moisture: 77.7
% Lipid: 1.53

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.548	0.170	2.78	1.000
3-MoCB	2		K B	0.331	0.191	3.61	0.988
4-MoCB	3		B	0.380	0.179	3.35	1.000
2,2'-DiCB	4			3.02	0.455	1.55	1.001
2,3-DiCB	5		U		0.307		
2,3'-DiCB	6			1.62	0.262	1.52	1.174
2,4-DiCB	7		K	0.296	0.263	0.99	1.156
2,4'-DiCB	8		B	7.51	0.235	1.43	1.206
2,5-DiCB	9			0.475	0.257	1.73	1.144
2,6-DiCB	10		U		0.220		
3,3'-DiCB	11		B	16.8	0.324	1.46	0.969
3,4-DiCB	12	12 + 13	C U		0.322		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.302		
4,4'-DiCB	15			0.794	0.300	1.66	1.000
2,2',3-TriCB	16			6.53	0.188	1.00	1.165
2,2',4-TriCB	17		B	7.15	0.164	1.07	1.136
2,2',5-TriCB	18	18 + 30	C B	24.4	0.135	1.02	1.113
2,2',6-TriCB	19		K	2.92	0.211	0.74	1.001
2,3,3'-TriCB	20	20 + 28	C B	129	0.126	0.99	0.848
2,3,4-TriCB	21	21 + 33	C B	22.6	0.121	0.94	0.857
2,3,4'-TriCB	22		B	26.2	0.144	1.01	0.872
2,3,5-TriCB	23		U		0.123		
2,3,6-TriCB	24		K	0.511	0.123	0.51	1.158
2,3',4-TriCB	25			7.64	0.105	0.93	0.825
2,3',5-TriCB	26	26 + 29	C B	19.5	0.124	0.97	1.299
2,3',6-TriCB	27			2.78	0.112	0.98	1.150
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		B	64.1	0.115	0.99	0.837
2,4',6-TriCB	32			10.4	0.107	0.96	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			0.326	0.129	1.01	1.271
3,3',4-TriCB	35		K	0.276	0.166	1.53	0.984
3,3',5-TriCB	36		U		0.134		
3,4,4'-TriCB	37		B	5.86	0.125	0.97	1.001
3,4,5-TriCB	38		K	0.607	0.134	0.53	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	0.891	0.142	0.70	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	59.5	0.181	0.82	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	51.0	0.186	0.78	1.309
2,2',3,5'-TeCB	43			5.73	0.208	0.66	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	261	0.158	0.81	1.283
2,2',3,6'-TeCB	45	45 + 51	C	12.6	0.159	0.83	1.145
2,2',3,6'-TeCB	46			2.92	0.183	0.74	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	13.7	0.178	0.88	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	165	0.149	0.81	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	16.6	0.149	0.83	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	499	0.158	0.81	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.173		
2,3,3',4'-TeCB	55		U		0.554		
2,3,3',4'-TeCB	56		B	88.1	0.551	0.74	0.905
2,3,3',5'-TeCB	57			3.31	0.504	0.73	0.843
2,3,3',5'-TeCB	58		K	2.62	0.514	0.91	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	23.4	0.131	0.86	1.300
2,3,4,4'-TeCB	60		B	88.1	0.567	0.74	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	620	0.495	0.75	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			32.9	0.499	0.74	0.864
2,3,4',6'-TeCB	64		B	87.8	0.130	0.81	1.345
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	374	0.500	0.75	0.884
2,3',4,5'-TeCB	67			10.2	0.436	0.75	0.856
2,3',4,5'-TeCB	68			11.5	0.492	0.73	0.830
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			14.3	0.472	0.75	0.822
2,3',5',6'-TeCB	73		U		0.128		
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		B	29.0	0.382	0.75	1.000
3,3',4,5'-TeCB	78		U		0.614		
3,3',4,5'-TeCB	79			13.1	0.440	0.70	0.969
3,3',5,5'-TeCB	80		U		0.515		
3,4,4',5'-TeCB	81		K	1.05	0.475	0.75	1.001
2,2',3,3',4'-PeCB	82			84.0	0.790	1.58	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	1160	0.715	1.57	0.885
2,2',3,3',6'-PeCB	84		B	153	0.729	1.63	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	398	0.619	1.66	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	929	0.602	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	150	0.640	1.57	1.155
2,2',3,4,6'-PeCB	89			3.24	0.710	1.69	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	1720	0.576	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	462	0.713	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	834	0.605	1.59	1.121
2,2',3,5,6'-PeCB	94			3.51	0.686	1.66	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			1.25	0.129	1.45	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			18.3	0.568	1.58	1.093
2,2',4,6,6'-PeCB	104		U		0.221		
2,3,3',4,4'-PeCB	105		B	684	1.95	1.52	1.000
2,3,3',4,5-PeCB	106		U		2.32		
2,3,3',4',5-PeCB	107	107 + 124	C	54.1	2.43	1.53	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			234	2.46	1.50	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	1510	0.541	1.56	0.925
2,3,3',5,5'-PeCB	111			7.88	0.523	1.61	0.944
2,3,3',5,6-PeCB	112		U		0.534		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			34.0	2.33	1.47	1.001
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		B	1840	1.92	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			35.6	0.538	1.54	0.957
2,3',4,5',6-PeCB	121			1.84	0.530	1.34	1.199
2',3,3',4,5-PeCB	122			10.3	2.71	1.38	1.010
2',3,4,4',5-PeCB	123			24.6	2.46	1.42	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			5.42	2.97	1.34	1.000
3,3',4,5,5'-PeCB	127			5.92	2.67	1.54	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	915	1.90	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	5000	1.83	1.27	0.929
2,2',3,3',4,5'-HxCB	130			297	2.45	1.26	0.914
2,2',3,3',4,6-HxCB	131			20.9	2.00	1.15	1.161
2,2',3,3',4,6'-HxCB	132			535	2.19	1.26	1.176
2,2',3,3',5,5'-HxCB	133			121	1.99	1.27	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	127	2.07	1.27	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1230	0.246	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	210	0.173	1.27	1.026
2,2',3,4,4',5-HxCB	137			164	2.22	1.23	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	70.8	1.89	1.28	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			346	2.10	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		2.16		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			118	0.263	1.22	1.122
2,2',3,4,6,6'-HxCB	145		K	0.415	0.196	1.71	1.036
2,2',3,4',5,5'-HxCB	146		B	1250	1.80	1.27	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	2080	1.82	1.27	1.134
2,2',3,4',5,6'-HxCB	148			16.4	0.256	1.32	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			5.64	0.180	1.27	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	0.813	0.153	2.17	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	6170	1.56	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			6.14	0.146	1.35	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	378	2.22	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	319	1.49	1.29	0.938
2,3,3',4,5,5'-HxCB	159			18.3	1.72	1.13	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		1.53		
2,3,3',4',5,5'-HxCB	162			20.6	1.73	1.31	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			140	1.67	1.23	0.922
2,3,3',5,5',6-HxCB	165		K	10.6	1.76	1.51	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			181	1.54	1.30	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		3.61		
2,2',3,3',4,4',5-HpCB	170			490	0.372	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	199	0.357	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			117	0.369	1.03	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			284	0.326	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			43.8	0.326	1.02	1.102
2,2',3,3',4,6,6'-HpCB	176			57.8	0.228	1.10	1.034
2,2',3,3',4',5,6-HpCB	177			412	0.305	1.07	1.146
2,2',3,3',5,5',6-HpCB	178			335	0.311	1.07	1.085
2,2',3,3',5,6,6'-HpCB	179		B	242	0.223	1.07	1.010
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	1730	0.280	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			5.53	0.338	0.90	1.156
2,2',3,4,4',5,6'-HpCB	182			10.4	0.322	1.03	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	633	0.332	1.06	1.126
2,2',3,4,4',6,6'-HpCB	184			5.72	0.217	0.90	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.246		
2,2',3,4',5,5',6-HpCB	187		B	2600	0.299	1.05	1.109
2,2',3,4',5,6,6'-HpCB	188			11.5	0.177	1.08	1.000
2,3,3',4,4',5,5'-HpCB	189			23.7	0.675	1.03	1.001
2,3,3',4,4',5,6-HpCB	190			97.6	0.285	1.09	0.947
2,3,3',4,4',5',6-HpCB	191			22.8	0.281	1.06	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.318		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			274	0.465	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			79.7	0.532	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			217	0.478	0.89	0.916
2,2',3,3',4,4',6-OxCB	197	197 + 200	C	47.6	0.336	0.87	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	571	0.469	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			80.2	0.336	0.90	1.022
2,2',3,3',5,5',6,6'-OxCB	202			256	0.399	0.94	1.000
2,2',3,4,4',5,5',6-OxCB	203			310	0.469	0.93	0.920
2,2',3,4,4',5,6,6'-OxCB	204			0.819	0.335	0.78	1.038
2,3,3',4,4',5,5',6-OxCB	205			13.5	0.367	0.93	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	280	0.693	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	43.8	0.484	0.79	1.019
2,2',3,3',4,5,5',6,6'-NoCB	208			135	0.405	0.75	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			141	0.486	0.68	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-22_Form1A_PB9C_332AS7_SJ1086721.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek- 7 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 31-Oct-2009 Time: 03:57:19

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-22

Sample Size: 2.35 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_332A S: 7

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_332A S: 1

% Moisture: 77.7
% Lipid: 1.53

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	2.45	0.760	2.78	1.000
3-MoCB	2		K B	1.48	0.856	3.61	0.988
4-MoCB	3		B	1.70	0.802	3.35	1.000
2,2'-DiCB	4			13.5	2.03	1.55	1.001
2,3-DiCB	5		U		1.37		
2,3'-DiCB	6			7.26	1.17	1.52	1.174
2,4-DiCB	7		K	1.32	1.18	0.99	1.156
2,4'-DiCB	8		B	33.6	1.05	1.43	1.206
2,5-DiCB	9			2.12	1.15	1.73	1.144
2,6-DiCB	10		U		0.980		
3,3'-DiCB	11		B	75.4	1.45	1.46	0.969
3,4-DiCB	12	12 + 13	C U		1.44		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.35		
4,4'-DiCB	15			3.55	1.34	1.66	1.000
2,2',3-TriCB	16			29.2	0.843	1.00	1.165
2,2',4-TriCB	17		B	31.9	0.733	1.07	1.136
2,2',5-TriCB	18	18 + 30	C B	109	0.603	1.02	1.113
2,2',6-TriCB	19		K	13.0	0.945	0.74	1.001
2,3,3'-TriCB	20	20 + 28	C B	576	0.563	0.99	0.848
2,3,4-TriCB	21	21 + 33	C B	101	0.541	0.94	0.857
2,3,4'-TriCB	22		B	117	0.643	1.01	0.872
2,3,5-TriCB	23		U		0.549		
2,3,6-TriCB	24		K	2.28	0.549	0.51	1.158
2,3',4-TriCB	25			34.1	0.469	0.93	0.825
2,3',5-TriCB	26	26 + 29	C B	87.0	0.554	0.97	1.299
2,3',6-TriCB	27			12.4	0.500	0.98	1.150
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		B	286	0.514	0.99	0.837
2,4',6-TriCB	32			46.5	0.478	0.96	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			1.46	0.576	1.01	1.271
3,3',4-TriCB	35		K	1.23	0.740	1.53	0.984
3,3',5-TriCB	36		U		0.599		
3,4,4'-TriCB	37		B	26.2	0.558	0.97	1.001
3,4,5-TriCB	38		K	2.71	0.599	0.53	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		K	3.98	0.634	0.70	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	266	0.808	0.82	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	228	0.829	0.78	1.309
2,2',3,5'-TeCB	43			25.6	0.932	0.66	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	1160	0.706	0.81	1.283
2,2',3,6'-TeCB	45	45 + 51	C	56.3	0.713	0.83	1.145
2,2',3,6'-TeCB	46			13.0	0.815	0.74	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	61.2	0.795	0.88	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	740	0.666	0.81	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	74.0	0.666	0.83	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	2230	0.706	0.81	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.774		
2,3,3',4'-TeCB	55		U		2.47		
2,3,3',4'-TeCB	56		B	394	2.46	0.74	0.905
2,3,3',5'-TeCB	57			14.8	2.25	0.73	0.843
2,3,3',5'-TeCB	58		K	11.7	2.30	0.91	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	105	0.585	0.86	1.300
2,3,4,4'-TeCB	60		B	394	2.53	0.74	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	2770	2.21	0.75	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			147	2.23	0.74	0.864
2,3,4',6'-TeCB	64		B	393	0.581	0.81	1.345
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	1670	2.23	0.75	0.884
2,3',4,5'-TeCB	67			45.6	1.95	0.75	0.856
2,3',4,5'-TeCB	68			51.4	2.20	0.73	0.830
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			63.9	2.11	0.75	0.822
2,3',5',6'-TeCB	73		U		0.572		
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		B	129	1.71	0.75	1.000
3,3',4,5'-TeCB	78		U		2.74		
3,3',4,5'-TeCB	79			58.5	1.97	0.70	0.969
3,3',5,5'-TeCB	80		U		2.30		
3,4,4',5'-TeCB	81		K	4.69	2.12	0.75	1.001
2,2',3,3',4'-PeCB	82			375	3.53	1.58	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	5190	3.19	1.57	0.885
2,2',3,3',6'-PeCB	84		B	684	3.25	1.63	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	1780	2.77	1.66	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	4150	2.69	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	670	2.86	1.57	1.155
2,2',3,4,6'-PeCB	89			14.5	3.17	1.69	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	7670	2.58	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	2060	3.19	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	3730	2.71	1.59	1.121
2,2',3,5,6'-PeCB	94			15.7	3.06	1.66	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			5.58	0.576	1.45	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			81.5	2.53	1.58	1.093
2,2',4,6,6'-PeCB	104		U		0.987		
2,3,3',4,4'-PeCB	105		B	3060	8.70	1.52	1.000
2,3,3',4,5-PeCB	106		U		10.3		
2,3,3',4',5-PeCB	107	107 + 124	C	242	10.8	1.53	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1050	11.0	1.50	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	6750	2.42	1.56	0.925
2,3,3',5,5'-PeCB	111			35.2	2.34	1.61	0.944
2,3,3',5,6-PeCB	112		U		2.38		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			152	10.4	1.47	1.001
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		B	8220	8.56	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			159	2.40	1.54	0.957
2,3',4,5',6-PeCB	121			8.22	2.37	1.34	1.199
2',3,3',4,5-PeCB	122			46.0	12.1	1.38	1.010
2',3,4,4',5-PeCB	123			110	11.0	1.42	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			24.2	13.3	1.34	1.000
3,3',4,5,5'-PeCB	127			26.4	11.9	1.54	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	4090	8.50	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	22300	8.15	1.27	0.929
2,2',3,3',4,5'-HxCB	130			1330	11.0	1.26	0.914
2,2',3,3',4,6-HxCB	131			93.2	8.91	1.15	1.161
2,2',3,3',4,6'-HxCB	132			2390	9.80	1.26	1.176
2,2',3,3',5,5'-HxCB	133			541	8.91	1.27	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	567	9.25	1.27	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	5490	1.10	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	939	0.774	1.27	1.026
2,2',3,4,4',5-HxCB	137			733	9.93	1.23	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	317	8.43	1.28	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			1550	9.39	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		9.66		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			528	1.18	1.22	1.122
2,2',3,4,6,6'-HxCB	145		K	1.86	0.877	1.71	1.036
2,2',3,4',5,5'-HxCB	146		B	5580	8.02	1.27	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	9320	8.15	1.27	1.134
2,2',3,4',5,6'-HxCB	148			73.3	1.14	1.32	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			25.2	0.802	1.27	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	3.63	0.684	2.17	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	27500	6.99	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			27.4	0.652	1.35	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	1690	9.93	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	1430	6.66	1.29	0.938
2,3,3',4,4',5'-HxCB	159			81.5	7.67	1.13	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		6.84		
2,3,3',4',5,5'-HxCB	162			91.8	7.74	1.31	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			626	7.47	1.23	0.922
2,3,3',5,5',6-HxCB	165		K	47.3	7.88	1.51	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			808	6.85	1.30	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		16.1		
2,2',3,3',4,4',5-HpCB	170			2190	1.66	1.05	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	891	1.60	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			523	1.65	1.03	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			1270	1.46	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			196	1.46	1.02	1.102
2,2',3,3',4,6',6-HpCB	176			258	1.02	1.10	1.034
2,2',3,3',4',5,6-HpCB	177			1840	1.36	1.07	1.146
2,2',3,3',5,5',6-HpCB	178			1490	1.39	1.07	1.085
2,2',3,3',5,6,6'-HpCB	179		B	1080	0.993	1.07	1.010
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	7740	1.25	1.04	0.910
2,2',3,4,4',5,6-HpCB	181			24.7	1.51	0.90	1.156
2,2',3,4,4',5,6'-HpCB	182			46.5	1.44	1.03	1.115
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	2830	1.49	1.06	1.126
2,2',3,4,4',6,6'-HpCB	184			25.6	0.973	0.90	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		1.10		
2,2',3,4',5,5',6-HpCB	187		B	11600	1.34	1.05	1.109
2,2',3,4',5,6,6'-HpCB	188			51.4	0.788	1.08	1.000
2,3,3',4,4',5,5'-HpCB	189			106	3.01	1.03	1.001
2,3,3',4,4',5,6-HpCB	190			436	1.27	1.09	0.947
2,3,3',4,4',5',6-HpCB	191			102	1.25	1.06	0.917
2,3,3',4,5,5',6-HpCB	192		U		1.42		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1230	2.08	0.89	0.991
2,2',3,3',4,4',5,6-OxCB	195			356	2.38	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			973	2.14	0.89	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	212	1.50	0.87	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	2550	2.10	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			358	1.50	0.90	1.022
2,2',3,3',5,5',6,6'-OxCB	202			1140	1.78	0.94	1.000
2,2',3,4,4',5,5',6-OxCB	203			1380	2.10	0.93	0.920
2,2',3,4,4',5,6,6'-OxCB	204			3.66	1.49	0.78	1.038
2,3,3',4,4',5,5',6-OxCB	205			60.3	1.64	0.93	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	1250	3.10	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	196	2.16	0.79	1.019
2,2',3,3',4,5,5',6,6'-NoCB	208			603	1.81	0.75	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			630	2.17	0.68	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-22_Form1A_PB9C_332AS7_SJ1086721_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek- 7 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-22
Sample Size: 0.161 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_332A S: 7
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_332A S: 1
% Moisture: 77.7
% Lipid: 1.53

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 31-Oct-2009 Time: 03:57:19
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	35.7	11.1	2.78	1.000
3-MoCB	2		K B	21.6	12.5	3.61	0.988
4-MoCB	3		B	24.8	11.7	3.35	1.000
2,2'-DiCB	4			197	29.7	1.55	1.001
2,3-DiCB	5		U		20.0		
2,3'-DiCB	6			106	17.1	1.52	1.174
2,4-DiCB	7		K	19.3	17.2	0.99	1.156
2,4'-DiCB	8		B	490	15.3	1.43	1.206
2,5-DiCB	9			31.0	16.8	1.73	1.144
2,6-DiCB	10		U		14.3		
3,3'-DiCB	11		B	1100	21.1	1.46	0.969
3,4-DiCB	12	12 + 13	C U		21.0		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		19.7		
4,4'-DiCB	15			51.8	19.6	1.66	1.000
2,2',3-TriCB	16			426	12.3	1.00	1.165
2,2',4-TriCB	17		B	466	10.7	1.07	1.136
2,2',5-TriCB	18	18 + 30	C B	1590	8.80	1.02	1.113
2,2',6-TriCB	19		K	190	13.8	0.74	1.001
2,3,3'-TriCB	20	20 + 28	C B	8410	8.22	0.99	0.848
2,3,4-TriCB	21	21 + 33	C B	1470	7.89	0.94	0.857
2,3,4'-TriCB	22		B	1710	9.39	1.01	0.872
2,3,5-TriCB	23		U		8.02		
2,3,6-TriCB	24		K	33.3	8.02	0.51	1.158
2,3',4-TriCB	25			498	6.85	0.93	0.825
2,3',5-TriCB	26	26 + 29	C B	1270	8.09	0.97	1.299
2,3',6-TriCB	27			181	7.30	0.98	1.150
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		B	4180	7.50	0.99	0.837
2,4',6-TriCB	32			678	6.98	0.96	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			21.3	8.41	1.01	1.271
3,3',4-TriCB	35		K	18.0	10.8	1.53	0.984
3,3',5-TriCB	36		U		8.74		
3,4,4'-TriCB	37		B	382	8.15	0.97	1.001
3,4,5-TriCB	38		K	39.6	8.74	0.53	0.968



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	58.1	9.26	0.70	0.946
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	3880	11.8	0.82	1.334
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	3330	12.1	0.78	1.309
2,2',3,5'-TeCB	43			374	13.6	0.66	1.243
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	17000	10.3	0.81	1.283
2,2',3,6'-TeCB	45	45 + 51	C	822	10.4	0.83	1.145
2,2',3,6'-TeCB	46			190	11.9	0.74	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	893	11.6	0.88	1.270
2,2',4,5'-TeCB	49	49 + 69	C B	10800	9.72	0.81	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	1080	9.72	0.83	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	32500	10.3	0.81	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		11.3		
2,3,3',4'-TeCB	55		U		36.1		
2,3,3',4'-TeCB	56		B	5750	35.9	0.74	0.905
2,3,3',5'-TeCB	57			216	32.9	0.73	0.843
2,3,3',5'-TeCB	58		K	171	33.5	0.91	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	1530	8.54	0.86	1.300
2,3,4,4'-TeCB	60		B	5750	37.0	0.74	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	40400	32.3	0.75	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			2150	32.5	0.74	0.864
2,3,4',6'-TeCB	64		B	5730	8.48	0.81	1.345
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	24400	32.6	0.75	0.884
2,3',4,5'-TeCB	67			665	28.4	0.75	0.856
2,3',4,5'-TeCB	68			750	32.1	0.73	0.830
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			933	30.8	0.75	0.822
2,3',5',6'-TeCB	73		U		8.35		
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		B	1890	24.9	0.75	1.000
3,3',4,5'-TeCB	78		U		40.0		
3,3',4,5'-TeCB	79			854	28.7	0.70	0.969
3,3',5,5'-TeCB	80		U		33.6		
3,4,4',5'-TeCB	81		K	68.5	31.0	0.75	1.001
2,2',3,3',4'-PeCB	82			5480	51.5	1.58	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	75700	46.6	1.57	0.885
2,2',3,3',6'-PeCB	84		B	9980	47.5	1.63	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	26000	40.4	1.66	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	60600	39.3	1.57	0.902
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	9780	41.7	1.57	1.155
2,2',3,4,6'-PeCB	89			211	46.3	1.69	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	112000	37.6	1.59	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	30100	46.5	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	54400	39.5	1.59	1.121
2,2',3,5,6'-PeCB	94			229	44.7	1.66	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			81.5	8.41	1.45	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			1190	37.0	1.58	1.093
2,2',4,6,6'-PeCB	104		U		14.4		
2,3,3',4,4'-PeCB	105		B	44600	127	1.52	1.000
2,3,3',4,5-PeCB	106		U		151		
2,3,3',4',5-PeCB	107	107 + 124	C	3530	158	1.53	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			15300	160	1.50	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	98500	35.3	1.56	0.925
2,3,3',5,5'-PeCB	111			514	34.1	1.61	0.944
2,3,3',5,6-PeCB	112		U		34.8		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			2220	152	1.47	1.001
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		B	120000	125	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			2320	35.1	1.54	0.957
2,3',4,5',6-PeCB	121			120	34.6	1.34	1.199
2',3,3',4,5-PeCB	122			672	177	1.38	1.010
2',3,4,4',5-PeCB	123			1600	160	1.42	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			353	194	1.34	1.000
3,3',4,5,5'-PeCB	127			386	174	1.54	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	59700	124	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	326000	119	1.27	0.929
2,2',3,3',4,5'-HxCB	130			19400	160	1.26	0.914
2,2',3,3',4,6-HxCB	131			1360	130	1.15	1.161
2,2',3,3',4,6'-HxCB	132			34900	143	1.26	1.176
2,2',3,3',5,5'-HxCB	133			7890	130	1.27	1.191
2,2',3,3',5,6-HxCB	134	134 + 143	C	8280	135	1.27	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	80200	16.0	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	13700	11.3	1.27	1.026
2,2',3,4,4',5-HxCB	137			10700	145	1.23	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	4620	123	1.28	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			22600	137	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		141		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			7700	17.2	1.22	1.122
2,2',3,4,6,6'-HxCB	145		K	27.1	12.8	1.71	1.036
2,2',3,4',5,5'-HxCB	146		B	81500	117	1.27	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	136000	119	1.27	1.134
2,2',3,4',5,6'-HxCB	148			1070	16.7	1.32	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			368	11.7	1.27	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		K	53.0	9.98	2.17	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	402000	102	1.27	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			400	9.52	1.35	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	24700	145	1.27	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	20800	97.2	1.29	0.938
2,3,3',4,4',5',6-HxCB	159			1190	112	1.13	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		99.8		
2,3,3',4',5,5'-HxCB	162			1340	113	1.31	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			9130	109	1.23	0.922
2,3,3',5,5',6-HxCB	165		K	691	115	1.51	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			11800	100	1.30	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		235		
2,2',3,3',4,4',5'-HpCB	170			32000	24.3	1.05	0.936
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C	13000	23.3	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			7630	24.1	1.03	0.897
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			18500	21.3	1.03	1.134
2,2',3,3',4,5',6'-HpCB	175			2860	21.3	1.02	1.102
2,2',3,3',4,6',6'-HpCB	176			3770	14.9	1.10	1.034
2,2',3,3',4',5,6'-HpCB	177			26900	19.9	1.07	1.146
2,2',3,3',5,5',6'-HpCB	178			21800	20.3	1.07	1.085
2,2',3,3',5,6',6'-HpCB	179		B	15800	14.5	1.07	1.010
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	113000	18.3	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181			361	22.0	0.90	1.156
2,2',3,4,4',5,6'-HpCB	182			678	21.0	1.03	1.115
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C B	41300	21.7	1.06	1.126
2,2',3,4,4',6',6'-HpCB	184			373	14.2	0.90	1.024
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6',6'-HpCB	186		U		16.0		
2,2',3,4',5,5',6'-HpCB	187		B	170000	19.5	1.05	1.109
2,2',3,4',5,6',6'-HpCB	188			750	11.5	1.08	1.000
2,3,3',4,4',5,5'-HpCB	189			1550	44.0	1.03	1.001
2,3,3',4,4',5,6'-HpCB	190			6370	18.6	1.09	0.947
2,3,3',4,4',5',6'-HpCB	191			1490	18.3	1.06	0.917
2,3,3',4,5,5',6'-HpCB	192		U		20.7		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			17900	30.3	0.89	0.991
2,2',3,3',4,4',5,6'-OxCB	195			5200	34.7	0.88	0.946
2,2',3,3',4,4',5,6'-OxCB	196			14200	31.2	0.89	0.916
2,2',3,3',4,4',6',6'-OxCB	197	197 + 200	C	3100	21.9	0.87	1.045
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C	37200	30.6	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6',6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6',6'-OxCB	201			5230	21.9	0.90	1.022
2,2',3,3',5,5',6',6'-OxCB	202			16700	26.0	0.94	1.000
2,2',3,4,4',5,5',6'-OxCB	203			20200	30.6	0.93	0.920
2,2',3,4,4',5,6',6'-OxCB	204			53.4	21.8	0.78	1.038
2,3,3',4,4',5,5',6'-OxCB	205			880	23.9	0.93	1.000
2,2',3,3',4,4',5,5',6'-NoCB	206		T	18300	45.2	0.78	1.000
2,2',3,3',4,4',5,6',6'-NoCB	207		T	2860	31.6	0.79	1.019
2,2',3,3',4,5,5',6',6'-NoCB	208			8800	26.4	0.75	1.000
2,2',3,3',4,4',5,5',6',6'-DeCB	209			9200	31.7	0.68	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-22_Form1A_PB9C_332AS7_SJ1086721_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Long Creek- 7 Females
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 31-Oct-2009 Time: 03:57:19
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-22
Sample Size: 10.5 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_332A S: 7
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_332A S: 1
% Moisture: 77.7
% Lipid: 1.53

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	349	17.5	3.52	0.722
13C12-4-MoCB	3L			2000	460	23.0	3.32	0.860
13C12-2,2'-DiCB	4L			2000	514	25.7	1.56	0.876
13C12-4,4'-DiCB	15L			2000	632	31.6	1.55	1.254
13C12-2,2',6-TriCB	19L			2000	660	33.0	1.09	1.073
13C12-3,4,4'-TriCB	37L			2000	985	49.2	1.06	1.092
13C12-2,2',6,6'-TeCB	54L			2000	848	42.4	0.80	0.813
13C12-3,3',4,4'-TeCB	77L			2000	1620	80.8	0.80	1.397
13C12-3,4,4',5-TeCB	81L			2000	1390	69.7	0.81	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	718	35.9	1.62	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1210	60.7	1.55	1.200
13C12-2,3,4,4',5-PeCB	114L			2000	979	48.9	1.54	1.179
13C12-2,3',4,4',5-PeCB	118L			2000	1210	60.7	1.57	1.161
13C12-2',3,4,4',5-PeCB	123L			2000	987	49.3	1.50	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	966	48.3	1.48	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	947	47.3	1.30	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	1750	43.7	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	910	45.5	1.29	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	881	44.1	1.40	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1070	53.5	1.03	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1270	63.5	1.12	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1340	67.0	1.02	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	900	45.0	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1000	50.1	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1250	62.5	0.94	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	1520	75.8	0.85	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1060	53.0	0.79	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1030	51.6	1.16	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1290	64.7	1.05	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	2140	107	1.62	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1480	74.0	1.03	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 14:49:16

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 L

Sample Size: 10.3 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 7

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 78.2
% Lipid: 1.73

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	33.2	0.130	3.19	1.001
3-MoCB	2		B	1.12	0.162	2.83	0.989
4-MoCB	3		B	4.77	0.166	3.57	1.001
2,2'-DiCB	4			275	1.02	1.56	1.001
2,3-DiCB	5		U		0.712		
2,3'-DiCB	6			17.8	0.623	1.65	1.173
2,4-DiCB	7			4.56	0.624	1.65	1.155
2,4'-DiCB	8		B	51.1	0.573	1.63	1.207
2,5-DiCB	9			4.93	0.611	1.54	1.143
2,6-DiCB	10			11.0	0.543	1.66	1.013
3,3'-DiCB	11		B	21.0	0.690	1.49	0.969
3,4-DiCB	12	12 + 13	C K	3.62	0.688	1.30	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.673		
4,4'-DiCB	15			12.5	0.705	1.62	1.000
2,2',3-TriCB	16			35.2	0.171	1.02	1.165
2,2',4-TriCB	17		B	70.7	0.146	1.06	1.136
2,2',5-TriCB	18	18 + 30	C B	148	0.124	1.06	1.112
2,2',6-TriCB	19			60.0	0.186	1.07	1.001
2,3,3'-TriCB	20	20 + 28	C B	1110	0.884	1.03	0.847
2,3,4-TriCB	21	21 + 33	C B	110	0.838	0.97	0.857
2,3,4'-TriCB	22		B	196	0.977	1.02	0.872
2,3,5-TriCB	23		U		0.908		
2,3,6-TriCB	24			2.68	0.108	0.91	1.158
2,3',4-TriCB	25			77.1	0.777	1.02	0.824
2,3',5-TriCB	26	26 + 29	C B	150	0.890	1.03	1.299
2,3',6-TriCB	27			30.8	0.104	1.08	1.150
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		B	442	0.829	1.03	0.837
2,4',6-TriCB	32			132	0.840	1.04	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	1.45	0.942	0.68	1.271
3,3',4-TriCB	35		U		1.03		
3,3',5-TriCB	36		U		0.907		
3,4,4'-TriCB	37		B	26.5	0.943	1.00	1.001
3,4,5-TriCB	38		K	2.36	0.895	0.86	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			5.22	0.924	0.94	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	702	0.122	0.78	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	664	0.125	0.79	1.309
2,2',3,5'-TeCB	43			42.1	0.145	0.67	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	2840	0.112	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	167	0.119	0.78	1.146
2,2',3,6'-TeCB	46			33.5	0.135	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	133	0.122	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	1950	0.104	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	211	0.116	0.79	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	3520	0.115	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			5.03	0.114	0.75	1.001
2,3,3',4'-TeCB	55		U		2.64		
2,3,3',4'-TeCB	56		B	972	2.57	0.78	0.905
2,3,3',5'-TeCB	57			24.8	2.38	0.72	0.843
2,3,3',5'-TeCB	58			20.2	2.42	0.80	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	274	0.0935	0.78	1.300
2,3,4,4'-TeCB	60		B	954	2.69	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	6220	2.40	0.79	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			284	2.34	0.78	0.864
2,3,4',6'-TeCB	64		B	922	0.0891	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	5040	2.46	0.78	0.884
2,3',4,5'-TeCB	67			80.8	2.05	0.79	0.855
2,3',4,5'-TeCB	68			114	2.39	0.76	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			139	2.32	0.76	0.821
2,3',5',6'-TeCB	73		U		0.0905		
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		B	243	2.47	0.78	1.000
3,3',4,5'-TeCB	78		U		2.72		
3,3',4,5'-TeCB	79			131	2.16	0.74	0.969
3,3',5,5'-TeCB	80		U		2.38		
3,4,4',5'-TeCB	81		K	11.9	2.51	0.82	1.001
2,2',3,3',4'-PeCB	82			966	2.23	1.58	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	1400	2.18	1.56	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	3000	1.73	1.56	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	7410	1.74	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1300	1.96	1.58	1.155
2,2',3,4,6'-PeCB	89			22.8	2.07	1.51	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	2780	2.03	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	6610	1.89	1.58	1.122
2,2',3,5,6'-PeCB	94			30.0	2.11	1.54	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			12.1	0.159	1.59	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			159	1.75	1.60	1.093
2,2',4,6,6'-PeCB	104		K	2.12	0.179	1.97	1.001
2,3,3',4,4'-PeCB	105		B	6710	24.7	1.55	1.000
2,3,3',4,5-PeCB	106		U		23.7		
2,3,3',4',5-PeCB	107	107 + 124	C	497	24.2	1.50	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			1820	23.0	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111		K	27.4	1.55	1.28	0.945
2,3,3',5,6-PeCB	112		U		1.46		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			348	25.5	1.54	1.001
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		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			165	1.48	1.55	0.958
2,3',4,5',6-PeCB	121			8.04	1.56	1.68	1.199
2',3,3',4,5-PeCB	122			103	26.4	1.51	1.010
2',3,4,4',5-PeCB	123			310	25.9	1.56	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			52.1	31.5	1.55	1.000
3,3',4,5,5'-PeCB	127		U		26.9		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	3630	5.44	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			1890	6.55	1.26	0.914
2,2',3,3',4,6-HxCB	131			212	6.04	1.23	1.162
2,2',3,3',4,6'-HxCB	132			4080	6.26	1.26	1.177
2,2',3,3',5,5'-HxCB	133			598	5.80	1.26	1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	1050	6.20	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	7690	0.244	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	1410	0.186	1.26	1.027
2,2',3,4,4',5-HxCB	137			1240	6.69	1.26	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	463	5.56	1.27	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2600	5.61	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		6.02		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			990	0.252	1.25	1.123
2,2',3,4,6,6'-HxCB	145			4.26	0.198	1.13	1.036
2,2',3,4',5,5'-HxCB	146		B	5490	4.97	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	13500	5.37	1.26	1.135
2,2',3,4',5,6'-HxCB	148			82.4	0.259	1.23	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			39.6	0.186	1.26	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			3.42	0.182	1.25	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			27.1	0.162	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2780	7.49	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	2430	4.22	1.26	0.938
2,3,3',4,5,5'-HxCB	159			41.9	4.80	1.30	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		4.44		
2,3,3',4',5,5'-HxCB	162			89.8	4.96	1.39	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			1070	4.41	1.26	0.922
2,3,3',5,5',6-HxCB	165			36.7	5.05	1.33	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1280	4.69	1.25	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		11.9		
2,2',3,3',4,4',5-HpCB	170			4550	0.515	1.04	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1310	0.488	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172			806	0.498	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			1770	0.447	1.02	1.134
2,2',3,3',4,5',6-HpCB	175			246	0.442	1.02	1.103
2,2',3,3',4,6,6'-HpCB	176			423	0.325	1.03	1.035
2,2',3,3',4',5,6-HpCB	177			2000	0.441	1.02	1.146
2,2',3,3',5,5',6-HpCB	178			1440	0.433	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179		B	1500	0.316	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			34.2	0.461	1.00	1.157
2,2',3,4,4',5,6'-HpCB	182			33.3	0.418	1.04	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	2960	0.431	1.03	1.127
2,2',3,4,4',6,6'-HpCB	184			18.2	0.311	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.341		
2,2',3,4',5,5',6-HpCB	187		B	7980	0.419	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			34.7	0.345	1.02	1.000
2,3,3',4,4',5,5'-HpCB	189			174	0.838	1.02	1.001
2,3,3',4,4',5,6-HpCB	190			966	0.398	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			215	0.379	1.01	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.420		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1700	0.600	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			573	0.644	0.91	0.946
2,2',3,3',4,4',5,6'-OxCB	196			1150	0.370	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	268	0.271	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	2650	0.378	0.89	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			370	0.265	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			986	0.385	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			1630	0.369	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204			1.87	0.270	0.80	1.038
2,3,3',4,4',5,5',6-OxCB	205			64.7	0.428	0.93	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	681	0.409	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	98.7	0.245	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			324	0.189	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			267	0.168	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-23_Form1A_PB9C_358S7_SJ1087738.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 14:49:16

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 L

Sample Size: 2.25 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 7

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 78.2
% Lipid: 1.73

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	152	0.596	3.19	1.001
3-MoCB	2		B	5.13	0.742	2.83	0.989
4-MoCB	3		B	21.9	0.761	3.57	1.001
2,2'-DiCB	4			1260	4.67	1.56	1.001
2,3-DiCB	5		U		3.26		
2,3'-DiCB	6			81.9	2.86	1.65	1.173
2,4-DiCB	7			20.9	2.86	1.65	1.155
2,4'-DiCB	8		B	234	2.63	1.63	1.207
2,5-DiCB	9			22.6	2.80	1.54	1.143
2,6-DiCB	10			50.4	2.49	1.66	1.013
3,3'-DiCB	11		B	96.3	3.16	1.49	0.969
3,4-DiCB	12	12 + 13	C K	16.6	3.15	1.30	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		3.09		
4,4'-DiCB	15			57.3	3.23	1.62	1.000
2,2',3-TriCB	16			161	0.784	1.02	1.165
2,2',4-TriCB	17		B	324	0.669	1.06	1.136
2,2',5-TriCB	18	18 + 30	C B	678	0.568	1.06	1.112
2,2',6-TriCB	19			275	0.851	1.07	1.001
2,3,3'-TriCB	20	20 + 28	C B	5080	4.05	1.03	0.847
2,3,4-TriCB	21	21 + 33	C B	504	3.84	0.97	0.857
2,3,4'-TriCB	22		B	899	4.48	1.02	0.872
2,3,5-TriCB	23		U		4.16		
2,3,6-TriCB	24			12.3	0.495	0.91	1.158
2,3',4-TriCB	25			353	3.56	1.02	0.824
2,3',5-TriCB	26	26 + 29	C B	687	4.08	1.03	1.299
2,3',6-TriCB	27			141	0.477	1.08	1.150
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		B	2030	3.79	1.03	0.837
2,4',6-TriCB	32			605	3.85	1.04	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	6.64	4.32	0.68	1.271
3,3',4-TriCB	35		U		4.72		
3,3',5-TriCB	36		U		4.15		
3,4,4'-TriCB	37		B	122	4.32	1.00	1.001
3,4,5-TriCB	38		K	10.8	4.11	0.86	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			23.9	4.23	0.94	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	3210	0.559	0.78	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	3040	0.573	0.79	1.309
2,2',3,5'-TeCB	43			193	0.664	0.67	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	13000	0.513	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	765	0.545	0.78	1.146
2,2',3,6'-TeCB	46			154	0.619	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	609	0.559	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	8910	0.477	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	971	0.531	0.79	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	16100	0.527	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			23.1	0.523	0.75	1.001
2,3,3',4'-TeCB	55		U		12.1		
2,3,3',4'-TeCB	56		B	4460	11.8	0.78	0.905
2,3,3',5'-TeCB	57			114	10.9	0.72	0.843
2,3,3',5'-TeCB	58			92.3	11.1	0.80	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	1260	0.429	0.78	1.300
2,3,4,4'-TeCB	60		B	4370	12.3	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	28500	11.0	0.79	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			1300	10.7	0.78	0.864
2,3,4',6'-TeCB	64		B	4220	0.408	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	23100	11.3	0.78	0.884
2,3',4,5'-TeCB	67			370	9.39	0.79	0.855
2,3',4,5'-TeCB	68			523	11.0	0.76	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			637	10.7	0.76	0.821
2,3',5',6'-TeCB	73		U		0.414		
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		B	1110	11.3	0.78	1.000
3,3',4,5'-TeCB	78		U		12.5		
3,3',4,5'-TeCB	79			601	9.86	0.74	0.969
3,3',5,5'-TeCB	80		U		10.9		
3,4,4',5'-TeCB	81		K	54.5	11.5	0.82	1.001
2,2',3,3',4'-PeCB	82			4420	10.2	1.58	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	6410	10.0	1.56	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	13800	7.92	1.56	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	34000	7.96	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	5960	8.99	1.58	1.155
2,2',3,4,6'-PeCB	89			104	9.47	1.51	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	12700	9.31	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	30300	8.67	1.58	1.122
2,2',3,5,6'-PeCB	94			138	9.71	1.54	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			55.5	0.729	1.59	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			729	8.04	1.60	1.093
2,2',4,6,6'-PeCB	104		K	9.71	0.819	1.97	1.001
2,3,3',4,4'-PeCB	105		B	30700	113	1.55	1.000
2,3,3',4,5-PeCB	106		U		109		
2,3,3',4',5-PeCB	107	107 + 124	C	2280	111	1.50	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			8350	105	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111		K	126	7.10	1.28	0.945
2,3,3',5,6-PeCB	112		U		6.69		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			1590	117	1.54	1.001
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		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			756	6.78	1.55	0.958
2,3',4,5',6-PeCB	121			36.8	7.15	1.68	1.199
2',3,3',4,5-PeCB	122			472	121	1.51	1.010
2',3,4,4',5-PeCB	123			1420	119	1.56	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			239	144	1.55	1.000
3,3',4,5,5'-PeCB	127		U		123		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	16600	24.9	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			8670	30.0	1.26	0.914
2,2',3,3',4,6-HxCB	131			971	27.7	1.23	1.162
2,2',3,3',4,6'-HxCB	132			18700	28.7	1.26	1.177
2,2',3,3',5,5'-HxCB	133			2740	26.6	1.26	1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	4810	28.4	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	35200	1.12	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	6460	0.851	1.26	1.027
2,2',3,4,4',5-HxCB	137			5680	30.6	1.26	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	2120	25.5	1.27	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			11900	25.7	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		27.6		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			4530	1.15	1.25	1.123
2,2',3,4,6,6'-HxCB	145			19.5	0.907	1.13	1.036
2,2',3,4',5,5'-HxCB	146		B	25100	22.8	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	61900	24.6	1.26	1.135
2,2',3,4',5,6'-HxCB	148			378	1.19	1.23	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			181	0.851	1.26	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			15.7	0.835	1.25	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			124	0.742	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	12700	34.3	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	11100	19.3	1.26	0.938
2,3,3',4,5,5'-HxCB	159			192	22.0	1.30	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		20.4		
2,3,3',4',5,5'-HxCB	162			411	22.8	1.39	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			4900	20.2	1.26	0.922
2,3,3',5,5',6-HxCB	165			168	23.2	1.33	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			5860	21.5	1.25	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		54.5		
2,2',3,3',4,4',5-HpCB	170			20800	2.36	1.04	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	6010	2.24	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172			3690	2.28	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			8110	2.04	1.02	1.134
2,2',3,3',4,5',6-HpCB	175			1130	2.03	1.02	1.103
2,2',3,3',4,6',6-HpCB	176			1940	1.49	1.03	1.035
2,2',3,3',4',5,6-HpCB	177			9150	2.02	1.02	1.146
2,2',3,3',5,5',6-HpCB	178			6600	1.98	1.04	1.085
2,2',3,3',5,6',6-HpCB	179		B	6870	1.45	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			157	2.12	1.00	1.157
2,2',3,4,4',5,6'-HpCB	182			153	1.92	1.04	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	13500	1.97	1.03	1.127
2,2',3,4,4',6',6-HpCB	184			83.5	1.42	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6',6-HpCB	186		U		1.56		
2,2',3,4',5,5',6-HpCB	187		B	36600	1.92	1.04	1.110
2,2',3,4',5,6',6-HpCB	188			159	1.58	1.02	1.000
2,3,3',4,4',5,5'-HpCB	189			796	3.84	1.02	1.001
2,3,3',4,4',5,6-HpCB	190			4420	1.82	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			986	1.73	1.01	0.918
2,3,3',4,5,5',6-HpCB	192		U		1.93		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			7790	2.75	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			2630	2.95	0.91	0.946
2,2',3,3',4,4',5,6'-OxCB	196			5270	1.69	0.90	0.916
2,2',3,3',4,4',6'-OxCB	197	197 + 200	C	1230	1.24	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	12200	1.73	0.89	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6',6-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6'-OxCB	201			1690	1.22	0.91	1.022
2,2',3,3',5,5',6'-OxCB	202			4520	1.77	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			7470	1.69	0.89	0.919
2,2',3,4,4',5,6',6-OxCB	204			8.59	1.24	0.80	1.038
2,3,3',4,4',5,5',6-OxCB	205			297	1.97	0.93	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	3120	1.88	0.78	1.000
2,2',3,3',4,4',5,6',6-NoCB	207		T	452	1.12	0.78	1.020
2,2',3,3',4,5,5',6',6-NoCB	208			1490	0.867	0.78	1.000
2,2',3,3',4,4',5,5',6',6-DeCB	209			1230	0.770	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-23_Form1A_PB9C_358S7_SJ1087738_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 14:49:16

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 L

Sample Size: 0.179 g (lipid)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 7

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 78.2
% Lipid: 1.73

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	1910	7.49	3.19	1.001
3-MoCB	2		B	64.5	9.33	2.83	0.989
4-MoCB	3		B	275	9.56	3.57	1.001
2,2'-DiCB	4			15800	58.7	1.56	1.001
2,3-DiCB	5		U		41.0		
2,3'-DiCB	6			1030	35.9	1.65	1.173
2,4-DiCB	7			263	35.9	1.65	1.155
2,4'-DiCB	8		B	2940	33.0	1.63	1.207
2,5-DiCB	9			284	35.2	1.54	1.143
2,6-DiCB	10			634	31.3	1.66	1.013
3,3'-DiCB	11		B	1210	39.7	1.49	0.969
3,4-DiCB	12	12 + 13	C K	209	39.6	1.30	0.985
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		38.8		
4,4'-DiCB	15			720	40.6	1.62	1.000
2,2',3-TriCB	16			2030	9.85	1.02	1.165
2,2',4-TriCB	17		B	4070	8.41	1.06	1.136
2,2',5-TriCB	18	18 + 30	C B	8520	7.14	1.06	1.112
2,2',6-TriCB	19			3460	10.7	1.07	1.001
2,3,3'-TriCB	20	20 + 28	C B	63900	50.9	1.03	0.847
2,3,4-TriCB	21	21 + 33	C B	6340	48.3	0.97	0.857
2,3,4'-TriCB	22		B	11300	56.3	1.02	0.872
2,3,5-TriCB	23		U		52.3		
2,3,6-TriCB	24			154	6.22	0.91	1.158
2,3',4-TriCB	25			4440	44.8	1.02	0.824
2,3',5-TriCB	26	26 + 29	C B	8640	51.3	1.03	1.299
2,3',6-TriCB	27			1770	5.99	1.08	1.150
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		B	25500	47.7	1.03	0.837
2,4',6-TriCB	32			7600	48.4	1.04	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	83.5	54.3	0.68	1.271
3,3',4-TriCB	35		U		59.3		
3,3',5-TriCB	36		U		52.2		
3,4,4'-TriCB	37		B	1530	54.3	1.00	1.001
3,4,5-TriCB	38		K	136	51.6	0.86	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			301	53.2	0.94	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	40400	7.03	0.78	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	38200	7.20	0.79	1.309
2,2',3,5'-TeCB	43			2420	8.35	0.67	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	164000	6.45	0.79	1.284
2,2',3,6'-TeCB	45	45 + 51	C	9620	6.85	0.78	1.146
2,2',3,6'-TeCB	46			1930	7.78	0.80	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	7660	7.03	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	112000	5.99	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	12200	6.68	0.79	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	203000	6.62	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			290	6.57	0.75	1.001
2,3,3',4'-TeCB	55		U		152		
2,3,3',4'-TeCB	56		B	56000	148	0.78	0.905
2,3,3',5'-TeCB	57			1430	137	0.72	0.843
2,3,3',5'-TeCB	58			1160	139	0.80	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	15800	5.39	0.78	1.300
2,3,4,4'-TeCB	60		B	54900	155	0.78	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	358000	138	0.79	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			16400	135	0.78	0.864
2,3,4',6'-TeCB	64		B	53100	5.13	0.79	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	290000	142	0.78	0.884
2,3',4,5'-TeCB	67			4650	118	0.79	0.855
2,3',4,5'-TeCB	68			6570	138	0.76	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			8010	134	0.76	0.821
2,3',5',6'-TeCB	73		U		5.21		
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		B	14000	142	0.78	1.000
3,3',4,5'-TeCB	78		U		157		
3,3',4,5'-TeCB	79			7550	124	0.74	0.969
3,3',5,5'-TeCB	80		U		137		
3,4,4',5'-TeCB	81		K	685	145	0.82	1.001
2,2',3,3',4'-PeCB	82			55600	128	1.58	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	80600	126	1.56	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	173000	99.6	1.56	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	427000	100	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	74900	113	1.58	1.155
2,2',3,4,6'-PeCB	89			1310	119	1.51	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	160000	117	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	381000	109	1.58	1.122
2,2',3,5,6'-PeCB	94			1730	122	1.54	1.103
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			697	9.16	1.59	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			9160	101	1.60	1.093
2,2',4,6,6'-PeCB	104		K	122	10.3	1.97	1.001
2,3,3',4,4'-PeCB	105		B	386000	1420	1.55	1.000
2,3,3',4,5-PeCB	106		U		1370		
2,3,3',4',5-PeCB	107	107 + 124	C	28600	1390	1.50	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			105000	1320	1.55	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111		K	1580	89.3	1.28	0.945
2,3,3',5,6-PeCB	112		U		84.1		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			20000	1470	1.54	1.001
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		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			9500	85.2	1.55	0.958
2,3',4,5',6-PeCB	121			463	89.9	1.68	1.199
2',3,3',4,5-PeCB	122			5930	1520	1.51	1.010
2',3,4,4',5-PeCB	123			17900	1490	1.56	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			3000	1810	1.55	1.000
3,3',4,5,5'-PeCB	127		U		1550		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	209000	313	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			109000	377	1.26	0.914
2,2',3,3',4,6-HxCB	131			12200	348	1.23	1.162
2,2',3,3',4,6'-HxCB	132			235000	361	1.26	1.177
2,2',3,3',5,5'-HxCB	133			34400	334	1.26	1.193
2,2',3,3',5,6-HxCB	134	134 + 143	C	60500	357	1.26	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	443000	14.1	1.26	1.106
2,2',3,3',6,6'-HxCB	136		B	81200	10.7	1.26	1.027
2,2',3,4,4',5-HxCB	137			71400	385	1.26	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	26700	320	1.27	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			150000	323	1.24	0.904
2,2',3,4,5,6-HxCB	142		U		347		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			57000	14.5	1.25	1.123
2,2',3,4,6,6'-HxCB	145			245	11.4	1.13	1.036
2,2',3,4',5,5'-HxCB	146		B	316000	286	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	778000	309	1.26	1.135
2,2',3,4',5,6'-HxCB	148			4750	14.9	1.23	1.085
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			2280	10.7	1.26	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			197	10.5	1.25	1.009
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			1560	9.33	1.23	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	160000	431	1.26	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	140000	243	1.26	0.938
2,3,3',4,5,5'-HxCB	159			2410	276	1.30	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		256		
2,3,3',4',5,5'-HxCB	162			5170	286	1.39	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			61600	254	1.26	0.922
2,3,3',5,5',6-HxCB	165			2110	291	1.33	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			73700	270	1.25	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		685		
2,2',3,3',4,4',5-HpCB	170			262000	29.7	1.04	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	75500	28.1	1.03	1.164
2,2',3,3',4,5,5'-HpCB	172			46400	28.7	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			102000	25.7	1.02	1.134
2,2',3,3',4,5',6-HpCB	175			14200	25.5	1.02	1.103
2,2',3,3',4,6,6'-HpCB	176			24400	18.7	1.03	1.035
2,2',3,3',4',5,6-HpCB	177			115000	25.4	1.02	1.146
2,2',3,3',5,5',6-HpCB	178			82900	24.9	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179		B	86400	18.2	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			1970	26.6	1.00	1.157
2,2',3,4,4',5,6'-HpCB	182			1920	24.1	1.04	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	170000	24.8	1.03	1.127
2,2',3,4,4',6,6'-HpCB	184			1050	17.9	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		19.6		
2,2',3,4',5,5',6-HpCB	187		B	460000	24.1	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188			2000	19.9	1.02	1.000
2,3,3',4,4',5,5'-HpCB	189			10000	48.3	1.02	1.001
2,3,3',4,4',5,6-HpCB	190			55600	22.9	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			12400	21.8	1.01	0.918
2,3,3',4,5,5',6-HpCB	192		U		24.2		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			97900	34.6	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			33000	37.1	0.91	0.946
2,2',3,3',4,4',5,6'-OxCB	196			66200	21.3	0.90	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	15400	15.6	0.91	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	153000	21.8	0.89	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			21300	15.3	0.91	1.022
2,2',3,3',5,5',6,6'-OxCB	202			56800	22.2	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			93900	21.3	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204			108	15.6	0.80	1.038
2,3,3',4,4',5,5',6-OxCB	205			3730	24.7	0.93	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	39200	23.6	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	5680	14.1	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			18700	10.9	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			15400	9.68	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-23_Form1A_PB9C_358S7_SJ1087738_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 08-Dec-2009 Time: 02:09:54

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 LWi

Sample Size: 10.3 g (wet)

Initial Calibration Date: 28-Nov-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_376 S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_376 S: 1

% Moisture: 78.2
% Lipid: 1.73

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	12800	0.882	1.57	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	14200	0.754	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	11900	0.676	1.57	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		B D	18900	22.2	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	34800	10.8	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	39200	9.52	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,4',5,5'-HxCB	159		X				
2,3,3',4,4',5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,4',5,6'-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6',6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	10700	0.866	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 08-Dec-2009 Time: 02:09:54

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 LWi

Sample Size: 2.25 g (dry)

Initial Calibration Date: 28-Nov-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_376 S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_376 S: 1

% Moisture: 78.2
% Lipid: 1.73

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	58600	4.04	1.57	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	65100	3.45	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	54500	3.09	1.57	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		B D	86700	102	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	159000	49.5	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	180000	43.6	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	49000	3.97	1.04	0.910
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 08-Dec-2009 Time: 02:09:54

Extract Volume (uL): 100

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 LWi

Sample Size: 0.179 g (lipid)

Initial Calibration Date: 28-Nov-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_376 S: 6

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_376 S: 1

% Moisture: 78.2
% Lipid: 1.73

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	737000	50.8	1.57	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C X				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	818000	43.4	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		X				
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	685000	38.9	1.57	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		B D	1090000	1280	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	2000000	622	1.25	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C X				
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	2260000	548	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6',6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	616000	49.9	1.04	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		X				
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6'-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6'-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6'-OxCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-23_Form1A_PB9C_376S6_SJ1091315_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 14:49:16
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 L
Sample Size: 10.3 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 7
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 78.2
% Lipid: 1.73

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	949	47.5	3.22	0.722
13C12-4-MoCB	3L			2000	1060	53.1	3.18	0.860
13C12-2,2'-DiCB	4L			2000	1290	64.5	1.63	0.875
13C12-4,4'-DiCB	15L			2000	1600	80.1	1.61	1.253
13C12-2,2',6-TriCB	19L			2000	1720	86.2	1.07	1.072
13C12-3,4,4'-TriCB	37L			2000	1620	80.9	1.05	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1300	64.9	0.80	0.812
13C12-3,3',4,4'-TeCB	77L			2000	2070	103	0.78	1.397
13C12-3,4,4',5-TeCB	81L			2000	2130	107	0.79	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1550	77.5	1.59	0.808
13C12-2,3,3',4,4'-PeCB	105L			2000	1790	89.7	1.56	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1720	86.2	1.59	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1900	95.0	1.60	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1810	90.7	1.54	1.151
13C12-3,3',4,4',5-PeCB	126L			2000	1700	84.9	1.56	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1730	86.3	1.25	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2860	71.6	1.27	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1620	80.8	1.30	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	2170	109	1.29	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1820	91.2	1.05	0.898
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1670	83.5	1.06	0.873
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1630	81.7	1.04	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1740	86.9	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1410	70.4	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1810	90.3	0.90	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		V	2000	3840	192	0.87	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1870	93.4	0.81	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	2150	108	1.18	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1520	76.0	1.06	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	2000	100	1.58	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	2000	99.9	1.05	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Crane River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 08-Dec-2009 Time: 02:09:54
Extract Volume (uL): 100
Injection Volume (uL): 1.0
Dilution Factor: 5
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-23 LWI
Sample Size: 10.3 g (wet)
Initial Calibration Date: 28-Nov-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_376 S: 6
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_376 S: 1
% Moisture: 78.2
% Lipid: 1.73

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		X					
13C12-3,3',4,4'-TeCB	77L		X					
13C12-3,4,4',5-TeCB	81L		X					
13C12-2,2',4,6,6'-PeCB	104L		D	2000	1270	63.3	1.62	0.808
13C12-2,3,3',4,4'-PeCB	105L		D	2000	1760	88.1	1.56	1.201
13C12-2,3,4,4',5-PeCB	114L		D	2000	1720	86.2	1.57	1.179
13C12-2,3',4,4',5-PeCB	118L		D	2000	1860	93.0	1.55	1.162
13C12-2',3,4,4',5-PeCB	123L		D	2000	1580	79.2	1.52	1.151
13C12-3,3',4,4',5-PeCB	126L		D	2000	1570	78.5	1.46	1.301
13C12-2,2',4,4',6,6'-HxCB	155L		D	2000	1240	62.1	1.29	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C D	4000	3240	80.9	1.28	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		D	2000	1530	76.6	1.26	1.077
13C12-3,3',4,4',5,5'-HxCB	169L		D	2000	1730	86.5	1.25	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L		D	2000	1930	96.5	1.02	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L		D	2000	1900	95.0	1.06	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L		D	2000	1560	78.0	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L		D	2000	1810	90.4	1.01	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		X					
13C12-2,3,3',4,4',5,5',6-OxCB	205L		X					
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 15:53:40

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-24 L

Sample Size: 10.5 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 8

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 77.1
% Lipid: 2.26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.944	0.260	2.99	1.001
3-MoCB	2		K B	0.527	0.351	2.20	0.987
4-MoCB	3		B	0.599	0.380	2.82	1.000
2,2'-DiCB	4			12.1	2.59	1.67	1.000
2,3-DiCB	5		U		1.93		
2,3'-DiCB	6			7.43	1.69	1.59	1.174
2,4-DiCB	7		U		1.69		
2,4'-DiCB	8		B	25.2	1.55	1.53	1.207
2,5-DiCB	9		U		1.65		
2,6-DiCB	10		U		1.47		
3,3'-DiCB	11		B	16.6	1.87	1.73	0.969
3,4-DiCB	12	12 + 13	C U		1.86		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.82		
4,4'-DiCB	15		K	2.26	1.99	1.83	1.000
2,2',3-TriCB	16			25.4	0.368	1.12	1.165
2,2',4-TriCB	17		B	40.6	0.315	1.08	1.136
2,2',5-TriCB	18	18 + 30	C B	111	0.266	1.08	1.112
2,2',6-TriCB	19			15.1	0.399	1.13	1.001
2,3,3'-TriCB	20	20 + 28	C B	605	0.359	1.04	0.846
2,3,4-TriCB	21	21 + 33	C B	96.7	0.340	1.05	0.856
2,3,4'-TriCB	22		B	123	0.397	1.02	0.872
2,3,5-TriCB	23		U		0.369		
2,3,6-TriCB	24			2.08	0.233	1.03	1.157
2,3',4-TriCB	25			48.0	0.316	1.05	0.824
2,3',5-TriCB	26	26 + 29	C B	95.4	0.362	1.05	1.298
2,3',6-TriCB	27			16.4	0.225	1.07	1.149
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		B	369	0.337	1.04	0.836
2,4',6-TriCB	32			58.5	0.341	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			1.81	0.383	1.10	1.271
3,3',4-TriCB	35		U		0.419		
3,3',5-TriCB	36		U		0.369		
3,4,4'-TriCB	37		B	40.5	0.390	1.01	1.000
3,4,5-TriCB	38		K	2.59	0.364	0.83	0.966



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			5.42	0.375	0.88	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	365	0.364	0.77	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	281	0.371	0.79	1.310
2,2',3,5'-TeCB	43			37.2	0.432	0.78	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	1210	0.332	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C	82.0	0.354	0.78	1.146
2,2',3,6'-TeCB	46			17.4	0.400	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	103	0.363	0.77	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	826	0.309	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	85.5	0.346	0.79	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1510	0.341	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			0.915	0.354	0.87	1.000
2,3,3',4'-TeCB	55		U		2.88		
2,3,3',4'-TeCB	56		B	409	2.81	0.79	0.905
2,3,3',5'-TeCB	57			10.8	2.61	0.75	0.843
2,3,3',5'-TeCB	58			9.11	2.64	0.73	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	119	0.278	0.77	1.300
2,3,4,4'-TeCB	60		B	426	2.94	0.80	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	2830	2.63	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			116	2.56	0.77	0.864
2,3,4',6'-TeCB	64		B	450	0.265	0.78	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	2030	2.68	0.78	0.884
2,3',4,5'-TeCB	67			35.3	2.24	0.75	0.855
2,3',4,5'-TeCB	68			37.3	2.62	0.80	0.830
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			47.6	2.53	0.78	0.822
2,3',5',6'-TeCB	73		U		0.269		
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		B	130	2.57	0.78	1.000
3,3',4,5'-TeCB	78		U		2.97		
3,3',4,5'-TeCB	79			45.6	2.36	0.73	0.969
3,3',5,5'-TeCB	80		U		2.60		
3,4,4',5'-TeCB	81		K	5.19	2.81	0.70	1.000
2,2',3,3',4'-PeCB	82			270	0.913	1.59	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	3940	0.848	1.58	0.885
2,2',3,3',6'-PeCB	84		B	424	0.891	1.56	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	905	0.708	1.57	0.919
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	2280	0.713	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	399	0.804	1.59	1.155
2,2',3,4,6'-PeCB	89			9.26	0.849	1.47	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	4270	0.723	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	891	0.831	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	1990	0.772	1.57	1.121
2,2',3,5,6'-PeCB	94			11.2	0.866	1.52	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			4.62	0.353	1.33	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			44.3	0.717	1.57	1.093
2,2',4,6,6'-PeCB	104			0.537	0.411	1.73	1.001
2,3,3',4,4'-PeCB	105		B	1930	1.81	1.54	1.000
2,3,3',4,5-PeCB	106		U		1.78		
2,3,3',4',5-PeCB	107	107 + 124	C	146	1.82	1.57	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			539	1.73	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	3430	0.631	1.57	0.925
2,3,3',5,5'-PeCB	111		K	10.9	0.635	1.94	0.944
2,3,3',5,6-PeCB	112		U		0.598		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			108	1.95	1.56	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		B	5880	1.72	1.55	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			52.1	0.608	1.58	0.957
2,3',4,5',6-PeCB	121			3.54	0.637	1.36	1.198
2',3,3',4,5-PeCB	122			25.5	1.99	1.55	1.011
2',3,4,4',5-PeCB	123			75.1	1.96	1.49	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			14.2	2.38	1.41	1.000
3,3',4,5,5'-PeCB	127			11.1	2.02	1.54	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	1160	1.23	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	8300	1.21	1.26	0.929
2,2',3,3',4,5'-HxCB	130			449	1.48	1.25	0.914
2,2',3,3',4,6-HxCB	131			39.2	1.37	1.19	1.161
2,2',3,3',4,6'-HxCB	132			934	1.42	1.26	1.176
2,2',3,3',5,5'-HxCB	133			160	1.31	1.24	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	222	1.40	1.27	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	1880	0.300	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	332	0.229	1.25	1.026
2,2',3,4,4',5-HxCB	137			308	1.51	1.27	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	103	1.26	1.25	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			569	1.27	1.28	0.904
2,2',3,4,5,6-HxCB	142		U		1.36		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			198	0.310	1.27	1.122
2,2',3,4,6,6'-HxCB	145		K	0.616	0.243	0.45	1.036
2,2',3,4',5,5'-HxCB	146		B	1530	1.13	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	3320	1.22	1.26	1.134
2,2',3,4',5,6'-HxCB	148			24.5	0.318	1.28	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			10.9	0.229	1.20	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.908	0.224	1.08	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	8770	1.05	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			21.6	0.205	1.21	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	684	1.43	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	517	0.956	1.25	0.938
2,3,3',4,5,5'-HxCB	159			26.4	1.09	1.38	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		1.01		
2,3,3',4',5,5'-HxCB	162			33.9	1.12	1.32	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			233	0.998	1.27	0.922
2,3,3',5,5',6-HxCB	165			10.9	1.14	1.21	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			308	1.01	1.26	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		5.66		
2,2',3,3',4,4',5-HpCB	170			890	0.421	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	328	0.399	1.04	1.164
2,2',3,3',4,5,5'-HpCB	172			197	0.407	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			580	0.365	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			68.2	0.361	1.04	1.103
2,2',3,3',4,6'-HpCB	176			99.7	0.266	1.05	1.035
2,2',3,3',4',5,6-HpCB	177			715	0.361	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			440	0.354	1.03	1.086
2,2',3,3',5,6,6'-HpCB	179		B	378	0.258	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	2740	0.323	1.04	0.910
2,2',3,4,4',5,6-HpCB	181		K	9.88	0.377	1.27	1.157
2,2',3,4,4',5,6'-HpCB	182			15.2	0.342	1.14	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	986	0.353	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			15.0	0.254	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.279		
2,2',3,4',5,5',6-HpCB	187		B	3060	0.342	1.04	1.111
2,2',3,4',5,6,6'-HpCB	188			12.8	0.250	1.01	1.001
2,3,3',4,4',5,5'-HpCB	189			34.1	0.537	0.99	1.000
2,3,3',4,4',5,6-HpCB	190			182	0.325	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			44.1	0.310	1.04	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.343		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			304	0.288	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			96.5	0.309	0.86	0.946
2,2',3,3',4,4',5,6'-OxCB	196			242	0.317	0.92	0.915
2,2',3,3',4,4',6'-OxCB	197	197 + 200	C	68.7	0.232	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	666	0.323	0.89	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			116	0.227	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			306	0.247	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			385	0.316	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	1.17	0.231	1.18	1.038
2,3,3',4,4',5,5',6-OxCB	205			14.7	0.270	0.88	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	267	0.413	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	45.7	0.298	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			154	0.249	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			172	0.202	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-24_Form1A_PB9C_358S8_SJ1087740.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 15:53:40

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-24 L

Sample Size: 2.42 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 8

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 77.1
% Lipid: 2.26

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	4.12	1.13	2.99	1.001
3-MoCB	2		K B	2.29	1.53	2.20	0.987
4-MoCB	3		B	2.61	1.66	2.82	1.000
2,2'-DiCB	4			52.7	11.3	1.67	1.000
2,3-DiCB	5		U		8.41		
2,3'-DiCB	6			32.3	7.36	1.59	1.174
2,4-DiCB	7		U		7.36		
2,4'-DiCB	8		B	110	6.75	1.53	1.207
2,5-DiCB	9		U		7.19		
2,6-DiCB	10		U		6.41		
3,3'-DiCB	11		B	72.3	8.14	1.73	0.969
3,4-DiCB	12	12 + 13	C U		8.10		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		7.92		
4,4'-DiCB	15		K	9.85	8.67	1.83	1.000
2,2',3-TriCB	16			111	1.61	1.12	1.165
2,2',4-TriCB	17		B	177	1.37	1.08	1.136
2,2',5-TriCB	18	18 + 30	C B	483	1.16	1.08	1.112
2,2',6-TriCB	19			65.8	1.74	1.13	1.001
2,3,3'-TriCB	20	20 + 28	C B	2640	1.57	1.04	0.846
2,3,4-TriCB	21	21 + 33	C B	421	1.48	1.05	0.856
2,3,4'-TriCB	22		B	536	1.73	1.02	0.872
2,3,5-TriCB	23		U		1.61		
2,3,6-TriCB	24			9.05	1.01	1.03	1.157
2,3',4-TriCB	25			209	1.38	1.05	0.824
2,3',5-TriCB	26	26 + 29	C B	416	1.58	1.05	1.298
2,3',6-TriCB	27			71.4	0.980	1.07	1.149
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		B	1610	1.47	1.04	0.836
2,4',6-TriCB	32			255	1.49	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			7.88	1.67	1.10	1.271
3,3',4-TriCB	35		U		1.82		
3,3',5-TriCB	36		U		1.61		
3,4,4'-TriCB	37		B	177	1.70	1.01	1.000
3,4,5-TriCB	38		K	11.3	1.59	0.83	0.966



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			23.6	1.64	0.88	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	1590	1.59	0.77	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	1220	1.62	0.79	1.310
2,2',3,5'-TeCB	43			162	1.88	0.78	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	5270	1.45	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C	357	1.54	0.78	1.146
2,2',3,6'-TeCB	46			75.8	1.75	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	448	1.58	0.77	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	3600	1.35	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	372	1.51	0.79	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	6580	1.49	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			3.99	1.54	0.87	1.000
2,3,3',4'-TeCB	55		U		12.5		
2,3,3',4'-TeCB	56		B	1790	12.2	0.79	0.905
2,3,3',5'-TeCB	57			47.0	11.4	0.75	0.843
2,3,3',5'-TeCB	58			39.7	11.5	0.73	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	519	1.21	0.77	1.300
2,3,4,4'-TeCB	60		B	1850	12.8	0.80	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	12300	11.5	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			505	11.1	0.77	0.864
2,3,4',6'-TeCB	64		B	1960	1.15	0.78	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	8850	11.7	0.78	0.884
2,3',4,5'-TeCB	67			154	9.76	0.75	0.855
2,3',4,5'-TeCB	68			163	11.4	0.80	0.830
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			207	11.0	0.78	0.822
2,3',5',6'-TeCB	73		U		1.17		
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		B	566	11.2	0.78	1.000
3,3',4,5'-TeCB	78		U		12.9		
3,3',4,5'-TeCB	79			198	10.3	0.73	0.969
3,3',5,5'-TeCB	80		U		11.3		
3,4,4',5'-TeCB	81		K	22.6	12.2	0.70	1.000
2,2',3,3',4'-PeCB	82			1180	3.98	1.59	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	17200	3.69	1.58	0.885
2,2',3,3',6'-PeCB	84		B	1840	3.88	1.56	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	3940	3.08	1.57	0.919
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	9920	3.10	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1740	3.50	1.59	1.155
2,2',3,4,6'-PeCB	89			40.4	3.70	1.47	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	18600	3.15	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	3880	3.62	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	8670	3.36	1.57	1.121
2,2',3,5,6'-PeCB	94			48.8	3.77	1.52	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			20.1	1.54	1.33	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			193	3.12	1.57	1.093
2,2',4,6,6'-PeCB	104			2.34	1.79	1.73	1.001
2,3,3',4,4'-PeCB	105		B	8410	7.88	1.54	1.000
2,3,3',4,5-PeCB	106		U		7.76		
2,3,3',4',5-PeCB	107	107 + 124	C	636	7.92	1.57	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			2350	7.54	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	15000	2.75	1.57	0.925
2,3,3',5,5'-PeCB	111		K	47.5	2.77	1.94	0.944
2,3,3',5,6-PeCB	112		U		2.61		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			470	8.49	1.56	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		B	25600	7.49	1.55	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			227	2.65	1.58	0.957
2,3',4,5',6-PeCB	121			15.4	2.78	1.36	1.198
2',3,3',4,5-PeCB	122			111	8.67	1.55	1.011
2',3,4,4',5-PeCB	123			327	8.54	1.49	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			61.9	10.4	1.41	1.000
3,3',4,5,5'-PeCB	127			48.3	8.80	1.54	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	5050	5.36	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	36200	5.27	1.26	0.929
2,2',3,3',4,5'-HxCB	130			1950	6.45	1.25	0.914
2,2',3,3',4,6-HxCB	131			171	5.97	1.19	1.161
2,2',3,3',4,6'-HxCB	132			4070	6.19	1.26	1.176
2,2',3,3',5,5'-HxCB	133			697	5.70	1.24	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	967	6.10	1.27	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	8190	1.31	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	1450	1.00	1.25	1.026
2,2',3,4,4',5-HxCB	137			1340	6.58	1.27	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	448	5.48	1.25	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2480	5.53	1.28	0.904
2,2',3,4,5,6-HxCB	142		U		5.92		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			863	1.35	1.27	1.122
2,2',3,4,6,6'-HxCB	145		K	2.69	1.06	0.45	1.036
2,2',3,4',5,5'-HxCB	146		B	6660	4.92	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	14500	5.32	1.26	1.134
2,2',3,4',5,6'-HxCB	148			107	1.39	1.28	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			47.5	1.00	1.20	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			3.96	0.976	1.08	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	38200	4.57	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			94.1	0.893	1.21	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	2980	6.23	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	2250	4.17	1.25	0.938
2,3,3',4,5,5'-HxCB	159			115	4.75	1.38	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		4.40		
2,3,3',4',5,5'-HxCB	162			148	4.88	1.32	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			1010	4.34	1.27	0.922
2,3,3',5,5',6-HxCB	165			47.5	4.97	1.21	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			1340	4.40	1.26	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		24.7		
2,2',3,3',4,4',5-HpCB	170			3880	1.83	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1430	1.74	1.04	1.164
2,2',3,3',4,5,5'-HpCB	172			858	1.78	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			2530	1.59	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			298	1.58	1.04	1.103
2,2',3,3',4,6,6'-HpCB	176			434	1.16	1.05	1.035
2,2',3,3',4',5,6-HpCB	177			3110	1.58	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			1910	1.54	1.03	1.086
2,2',3,3',5,6,6'-HpCB	179		B	1650	1.12	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	11900	1.41	1.04	0.910
2,2',3,4,4',5,6-HpCB	181		K	43.0	1.65	1.27	1.157
2,2',3,4,4',5,6'-HpCB	182			66.2	1.49	1.14	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	4290	1.54	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			65.4	1.11	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		1.22		
2,2',3,4',5,5',6-HpCB	187		B	13300	1.49	1.04	1.111
2,2',3,4',5,6,6'-HpCB	188			55.7	1.09	1.01	1.001
2,3,3',4,4',5,5'-HpCB	189			149	2.34	0.99	1.000
2,3,3',4,4',5,6-HpCB	190			792	1.42	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			192	1.35	1.04	0.918
2,3,3',4,5,5',6-HpCB	192		U		1.50		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1330	1.25	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			420	1.35	0.86	0.946
2,2',3,3',4,4',5,6'-OxCB	196			1050	1.38	0.92	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	300	1.01	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	2900	1.41	0.89	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			505	0.989	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			1330	1.07	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			1680	1.38	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	5.10	1.00	1.18	1.038
2,3,3',4,4',5,5',6-OxCB	205			64.1	1.18	0.88	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	1160	1.80	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	199	1.30	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			670	1.08	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			749	0.880	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-24_Form1A_PB9C_358S8_SJ1087740_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-24 L
Sample Size: 0.240 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 8
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 77.1
% Lipid: 2.26

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 15:53:40
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	41.5	11.4	2.99	1.001
3-MoCB	2		K B	23.1	15.4	2.20	0.987
4-MoCB	3		B	26.3	16.7	2.82	1.000
2,2'-DiCB	4			531	114	1.67	1.000
2,3-DiCB	5		U		84.8		
2,3'-DiCB	6			326	74.2	1.59	1.174
2,4-DiCB	7		U		74.2		
2,4'-DiCB	8		B	1110	68.1	1.53	1.207
2,5-DiCB	9		U		72.5		
2,6-DiCB	10		U		64.6		
3,3'-DiCB	11		B	729	82.1	1.73	0.969
3,4-DiCB	12	12 + 13	C U		81.7		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		79.9		
4,4'-DiCB	15		K	99.3	87.4	1.83	1.000
2,2',3-TriCB	16			1120	16.2	1.12	1.165
2,2',4-TriCB	17		B	1780	13.8	1.08	1.136
2,2',5-TriCB	18	18 + 30	C B	4870	11.7	1.08	1.112
2,2',6-TriCB	19			663	17.5	1.13	1.001
2,3,3'-TriCB	20	20 + 28	C B	26600	15.8	1.04	0.846
2,3,4-TriCB	21	21 + 33	C B	4250	14.9	1.05	0.856
2,3,4'-TriCB	22		B	5400	17.4	1.02	0.872
2,3,5-TriCB	23		U		16.2		
2,3,6-TriCB	24			91.3	10.2	1.03	1.157
2,3',4-TriCB	25			2110	13.9	1.05	0.824
2,3',5-TriCB	26	26 + 29	C B	4190	15.9	1.05	1.298
2,3',6-TriCB	27			720	9.88	1.07	1.149
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		B	16200	14.8	1.04	0.836
2,4',6-TriCB	32			2570	15.0	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			79.5	16.8	1.10	1.271
3,3',4-TriCB	35		U		18.4		
3,3',5-TriCB	36		U		16.2		
3,4,4'-TriCB	37		B	1780	17.1	1.01	1.000
3,4,5-TriCB	38		K	114	16.0	0.83	0.966



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			238	16.5	0.88	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	16000	16.0	0.77	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	12300	16.3	0.79	1.310
2,2',3,5'-TeCB	43			1630	19.0	0.78	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	53100	14.6	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C	3600	15.5	0.78	1.146
2,2',3,6'-TeCB	46			764	17.6	0.82	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	4520	15.9	0.77	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	36300	13.6	0.79	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	3750	15.2	0.79	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	66300	15.0	0.79	1.232
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54			40.2	15.5	0.87	1.000
2,3,3',4'-TeCB	55		U		126		
2,3,3',4'-TeCB	56		B	18000	123	0.79	0.905
2,3,3',5'-TeCB	57			474	115	0.75	0.843
2,3,3',5'-TeCB	58			400	116	0.73	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	5230	12.2	0.77	1.300
2,3,4,4'-TeCB	60		B	18700	129	0.80	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	124000	116	0.78	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			5090	112	0.77	0.864
2,3,4',6'-TeCB	64		B	19800	11.6	0.78	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	89200	118	0.78	0.884
2,3',4,5'-TeCB	67			1550	98.4	0.75	0.855
2,3',4,5'-TeCB	68			1640	115	0.80	0.830
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			2090	111	0.78	0.822
2,3',5',6'-TeCB	73		U		11.8		
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		B	5710	113	0.78	1.000
3,3',4,5'-TeCB	78		U		130		
3,3',4,5'-TeCB	79			2000	104	0.73	0.969
3,3',5,5'-TeCB	80		U		114		
3,4,4',5'-TeCB	81		K	228	123	0.70	1.000
2,2',3,3',4'-PeCB	82			11900	40.1	1.59	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C B	173000	37.2	1.58	0.885
2,2',3,3',6'-PeCB	84		B	18600	39.1	1.56	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	39700	31.1	1.57	0.919
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	100000	31.3	1.58	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	17500	35.3	1.59	1.155
2,2',3,4,6'-PeCB	89			407	37.3	1.47	1.184
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	188000	31.8	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	39100	36.5	1.58	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	87400	33.9	1.57	1.121
2,2',3,5,6'-PeCB	94			492	38.0	1.52	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			203	15.5	1.33	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			1950	31.5	1.57	1.093
2,2',4,6,6'-PeCB	104			23.6	18.0	1.73	1.001
2,3,3',4,4'-PeCB	105		B	84800	79.5	1.54	1.000
2,3,3',4,5-PeCB	106		U		78.2		
2,3,3',4',5-PeCB	107	107 + 124	C	6410	79.9	1.57	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			23700	76.0	1.51	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	151000	27.7	1.57	0.925
2,3,3',5,5'-PeCB	111		K	479	27.9	1.94	0.944
2,3,3',5,6-PeCB	112		U		26.3		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			4740	85.6	1.56	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		B	258000	75.5	1.55	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			2290	26.7	1.58	0.957
2,3',4,5',6-PeCB	121			155	28.0	1.36	1.198
2',3,3',4,5-PeCB	122			1120	87.4	1.55	1.011
2',3,4,4',5-PeCB	123			3300	86.1	1.49	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			624	105	1.41	1.000
3,3',4,5,5'-PeCB	127			487	88.7	1.54	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	50900	54.0	1.26	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	365000	53.1	1.26	0.929
2,2',3,3',4,5'-HxCB	130			19700	65.0	1.25	0.914
2,2',3,3',4,6-HxCB	131			1720	60.2	1.19	1.161
2,2',3,3',4,6'-HxCB	132			41000	62.4	1.26	1.176
2,2',3,3',5,5'-HxCB	133			7030	57.5	1.24	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	9750	61.5	1.27	1.141
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	82600	13.2	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	14600	10.1	1.25	1.026
2,2',3,4,4',5-HxCB	137			13500	66.3	1.27	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	4520	55.3	1.25	1.153
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			25000	55.8	1.28	0.904
2,2',3,4,5,6-HxCB	142		U		59.7		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			8700	13.6	1.27	1.122
2,2',3,4,6,6'-HxCB	145		K	27.1	10.7	0.45	1.036
2,2',3,4',5,5'-HxCB	146		B	67200	49.6	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	146000	53.6	1.26	1.134
2,2',3,4',5,6'-HxCB	148			1080	14.0	1.28	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			479	10.1	1.20	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			39.9	9.84	1.08	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	385000	46.1	1.25	0.899
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			949	9.00	1.21	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	30000	62.8	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	22700	42.0	1.25	0.938
2,3,3',4,5,5'-HxCB	159			1160	47.9	1.38	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		44.4		
2,3,3',4',5,5'-HxCB	162			1490	49.2	1.32	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			10200	43.8	1.27	0.922
2,3,3',5,5',6-HxCB	165			479	50.1	1.21	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			13500	44.4	1.26	1.001
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		249		
2,2',3,3',4,4',5-HpCB	170			39100	18.5	1.02	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	14400	17.5	1.04	1.164
2,2',3,3',4,5,5'-HpCB	172			8650	17.9	1.06	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			25500	16.0	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			3000	15.9	1.04	1.103
2,2',3,3',4,6',6-HpCB	176			4380	11.7	1.05	1.035
2,2',3,3',4',5,6-HpCB	177			31400	15.9	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			19300	15.5	1.03	1.086
2,2',3,3',5,6',6-HpCB	179		B	16600	11.3	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	120000	14.2	1.04	0.910
2,2',3,4,4',5,6-HpCB	181		K	434	16.6	1.27	1.157
2,2',3,4,4',5,6'-HpCB	182			668	15.0	1.14	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	43300	15.5	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			659	11.2	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6',6-HpCB	186		U		12.3		
2,2',3,4',5,5',6-HpCB	187		B	134000	15.0	1.04	1.111
2,2',3,4',5,6',6-HpCB	188			562	11.0	1.01	1.001
2,3,3',4,4',5,5'-HpCB	189			1500	23.6	0.99	1.000
2,3,3',4,4',5,6-HpCB	190			7990	14.3	1.03	0.947
2,3,3',4,4',5',6-HpCB	191			1940	13.6	1.04	0.918
2,3,3',4,5,5',6-HpCB	192		U		15.1		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			13400	12.6	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			4240	13.6	0.86	0.946
2,2',3,3',4,4',5,6'-OxCB	196			10600	13.9	0.92	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	3020	10.2	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	29200	14.2	0.89	1.114
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			5090	9.97	0.89	1.022
2,2',3,3',5,5',6,6'-OxCB	202			13400	10.8	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			16900	13.9	0.89	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	51.4	10.1	1.18	1.038
2,3,3',4,4',5,5',6-OxCB	205			646	11.9	0.88	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	11700	18.1	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	2010	13.1	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			6760	10.9	0.79	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			7550	8.87	0.69	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-24_Form1A_PB9C_358S8_SJ1087740_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Parker River- 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 15:53:40
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-24 L
Sample Size: 10.5 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 8
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 77.1
% Lipid: 2.26

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	554	27.7	3.23	0.722
13C12-4-MoCB	3L			2000	588	29.4	3.42	0.862
13C12-2,2'-DiCB	4L			2000	766	38.3	1.61	0.876
13C12-4,4'-DiCB	15L			2000	891	44.6	1.60	1.255
13C12-2,2',6-TriCB	19L			2000	1040	52.2	1.04	1.073
13C12-3,4,4'-TriCB	37L			2000	1120	55.8	1.05	1.093
13C12-2,2',6,6'-TeCB	54L			2000	949	47.5	0.82	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1610	80.6	0.78	1.396
13C12-3,4,4',5-TeCB	81L			2000	1550	77.3	0.77	1.372
13C12-2,2',4,6,6'-PeCB	104L			2000	1260	63.1	1.59	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1500	75.2	1.59	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1380	69.0	1.59	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1570	78.5	1.55	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1450	72.4	1.57	1.152
13C12-3,3',4,4',5-PeCB	126L			2000	1420	70.8	1.58	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1540	76.9	1.27	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	3060	76.6	1.27	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1630	81.3	1.27	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1530	76.7	1.29	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1820	90.8	1.03	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1990	99.7	1.04	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1870	93.3	1.03	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1580	78.9	1.05	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	2290	115	0.91	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1750	87.5	0.92	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2600	130	0.84	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	2030	102	0.80	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	2240	112	1.11	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1010	50.5	1.05	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	1800	90.2	1.54	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1900	94.8	1.02	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 16:57:59

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 L

Sample Size: 10.4 g (wet)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 9

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 77.1
% Lipid: 2.40

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	3.88	0.287	3.16	1.000
3-MoCB	2		K B	0.481	0.312	4.00	0.988
4-MoCB	3		B	0.546	0.285	3.31	1.000
2,2'-DiCB	4			31.7	2.11	1.70	1.001
2,3-DiCB	5		U		1.07		
2,3'-DiCB	6			9.22	0.938	1.56	1.174
2,4-DiCB	7		U		0.941		
2,4'-DiCB	8		B	29.7	0.864	1.71	1.205
2,5-DiCB	9		K	1.33	0.921	2.90	1.145
2,6-DiCB	10		K	1.41	0.818	2.18	1.013
3,3'-DiCB	11		B	42.2	1.04	1.62	0.968
3,4-DiCB	12	12 + 13	C U		1.04		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.01		
4,4'-DiCB	15			5.61	0.926	1.71	1.000
2,2',3-TriCB	16			27.0	0.179	1.06	1.165
2,2',4-TriCB	17		B	44.5	0.153	1.07	1.136
2,2',5-TriCB	18	18 + 30	C B	111	0.130	1.07	1.112
2,2',6-TriCB	19			27.1	0.241	1.07	1.000
2,3,3'-TriCB	20	20 + 28	C B	1610	0.255	1.04	0.848
2,3,4-TriCB	21	21 + 33	C B	144	0.242	1.06	0.857
2,3,4'-TriCB	22		B	264	0.282	1.02	0.873
2,3,5-TriCB	23		U		0.262		
2,3,6-TriCB	24			2.17	0.113	1.09	1.157
2,3',4-TriCB	25			93.0	0.224	1.03	0.825
2,3',5-TriCB	26	26 + 29	C B	190	0.257	1.04	1.298
2,3',6-TriCB	27			26.0	0.110	1.06	1.149
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		B	551	0.239	1.03	0.836
2,4',6-TriCB	32			96.5	0.242	1.04	1.195
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			2.84	0.272	1.01	1.271
3,3',4-TriCB	35		U		0.297		
3,3',5-TriCB	36		U		0.262		
3,4,4'-TriCB	37		B	66.9	0.252	1.01	1.001
3,4,5-TriCB	38			9.60	0.258	1.00	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			8.07	0.267	0.88	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	910	0.250	0.78	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	1070	0.255	0.79	1.309
2,2',3,5'-TeCB	43			60.2	0.297	0.81	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	4100	0.228	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C	148	0.244	0.80	1.146
2,2',3,6'-TeCB	46			26.5	0.275	0.77	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	170	0.250	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	2660	0.212	0.79	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	184	0.238	0.78	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	3830	0.235	0.79	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	1.09	0.284	0.97	1.001
2,3,3',4'-TeCB	55		U		11.9		
2,3,3',4'-TeCB	56		B	1730	11.6	0.79	0.905
2,3,3',5'-TeCB	57			37.5	10.8	0.80	0.843
2,3,3',5'-TeCB	58			46.7	10.9	0.79	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	439	0.191	0.80	1.300
2,3,4,4'-TeCB	60		B	1510	12.1	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	9830	10.8	0.79	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			462	10.6	0.80	0.864
2,3,4',6'-TeCB	64		B	1320	0.182	0.78	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	9910	11.1	0.79	0.884
2,3',4,5'-TeCB	67			125	9.27	0.79	0.856
2,3',4,5'-TeCB	68			194	10.8	0.82	0.830
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			218	10.5	0.81	0.822
2,3',5',6'-TeCB	73		U		0.185		
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		B	372	10.3	0.81	1.001
3,3',4,5'-TeCB	78		U		12.3		
3,3',4,5'-TeCB	79			208	9.75	0.76	0.969
3,3',5,5'-TeCB	80		U		10.7		
3,4,4',5'-TeCB	81		K	22.6	11.0	0.83	1.000
2,2',3,3',4'-PeCB	82			1260	5.78	1.59	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	1590	5.63	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	4880	4.48	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	1560	5.09	1.57	1.155
2,2',3,4,6'-PeCB	89			27.7	5.37	1.60	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	3750	5.26	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	7630	4.89	1.57	1.122
2,2',3,5,6'-PeCB	94			28.4	5.48	1.50	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			7.59	0.111	1.58	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			169	4.53	1.55	1.093
2,2',4,6,6'-PeCB	104			1.66	0.138	1.51	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		32.6		
2,3,3',4',5-PeCB	107	107 + 124	C	629	33.4	1.55	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			2900	31.7	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			49.6	4.02	1.65	0.945
2,3,3',5,6-PeCB	112		U		3.78		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			476	36.7	1.52	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		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			310	3.84	1.58	0.957
2,3',4,5',6-PeCB	121			9.93	4.03	1.52	1.198
2',3,3',4,5-PeCB	122			139	36.5	1.54	1.011
2',3,4,4',5-PeCB	123			398	36.5	1.56	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			87.1	42.0	1.57	1.000
3,3',4,5,5'-PeCB	127			50.4	37.1	1.55	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	7240	14.8	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			2600	17.8	1.25	0.914
2,2',3,3',4,6-HxCB	131			225	16.5	1.27	1.161
2,2',3,3',4,6'-HxCB	132			4570	17.1	1.26	1.176
2,2',3,3',5,5'-HxCB	133			788	15.8	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	1100	16.9	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	8290	0.165	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	1310	0.126	1.25	1.026
2,2',3,4,4',5-HxCB	137			1570	18.2	1.26	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	573	15.2	1.27	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			2240	15.3	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		16.4		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			890	0.171	1.25	1.122
2,2',3,4,6,6'-HxCB	145		K	3.64	0.134	1.02	1.035
2,2',3,4',5,5'-HxCB	146		B	7920	13.6	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C E				
2,2',3,4',5,6'-HxCB	148			91.8	0.175	1.24	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			32.5	0.126	1.27	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			2.43	0.123	1.27	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			14.1	0.124	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	4220	16.8	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	3180	11.5	1.26	0.938
2,3,3',4,5,5'-HxCB	159			107	13.1	1.33	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		12.1		
2,3,3',4',5,5'-HxCB	162			181	13.5	1.30	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			1000	12.0	1.26	0.922
2,3,3',5,5',6-HxCB	165			46.3	13.8	1.34	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			2020	12.1	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		26.0		
2,2',3,3',4,4',5-HpCB	170			5640	0.398	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	2240	0.378	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			1030	0.385	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			2590	0.346	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			399	0.342	1.04	1.103
2,2',3,3',4,6,6'-HpCB	176			526	0.252	1.03	1.035
2,2',3,3',4',5,6-HpCB	177			4680	0.341	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			2310	0.335	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179		B	1790	0.244	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			46.8	0.357	1.05	1.156
2,2',3,4,4',5,6'-HpCB	182			60.9	0.324	1.06	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	5930	0.334	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			16.6	0.240	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.264		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			42.3	0.241	1.00	1.000
2,3,3',4,4',5,5'-HpCB	189			233	0.916	0.99	1.000
2,3,3',4,4',5,6-HpCB	190			1030	0.308	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			259	0.294	1.05	0.917
2,3,3',4,5,5',6-HpCB	192		U		0.325		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1900	0.319	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			514	0.342	0.91	0.946
2,2',3,3',4,4',5,6'-OxCB	196			1320	0.295	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	310	0.216	0.90	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	3370	0.301	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			602	0.211	0.90	1.023
2,2',3,3',5,5',6,6'-OxCB	202			1340	0.227	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			1670	0.294	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204			2.36	0.215	0.94	1.038
2,3,3',4,4',5,5',6-OxCB	205			84.6	0.305	0.90	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	1040	0.259	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	148	0.184	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			515	0.154	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			461	0.167	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-25_Form1A_PB9C_358S9_SJ1087742.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 25-Nov-2009 Time: 16:57:59

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 L

Sample Size: 2.38 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_358 S: 9

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_358 S: 1

% Moisture: 77.1
% Lipid: 2.40

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	16.9	1.25	3.16	1.000
3-MoCB	2		K B	2.10	1.36	4.00	0.988
4-MoCB	3		B	2.38	1.24	3.31	1.000
2,2'-DiCB	4			138	9.22	1.70	1.001
2,3-DiCB	5		U		4.67		
2,3'-DiCB	6			40.3	4.09	1.56	1.174
2,4-DiCB	7		U		4.10		
2,4'-DiCB	8		B	130	3.77	1.71	1.205
2,5-DiCB	9		K	5.80	4.02	2.90	1.145
2,6-DiCB	10		K	6.15	3.57	2.18	1.013
3,3'-DiCB	11		B	184	4.54	1.62	0.968
3,4-DiCB	12	12 + 13	C U		4.54		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		4.41		
4,4'-DiCB	15			24.4	4.04	1.71	1.000
2,2',3-TriCB	16			118	0.781	1.06	1.165
2,2',4-TriCB	17		B	195	0.668	1.07	1.136
2,2',5-TriCB	18	18 + 30	C B	485	0.568	1.07	1.112
2,2',6-TriCB	19			118	1.05	1.07	1.000
2,3,3'-TriCB	20	20 + 28	C B	7030	1.12	1.04	0.848
2,3,4-TriCB	21	21 + 33	C B	628	1.06	1.06	0.857
2,3,4'-TriCB	22		B	1150	1.23	1.02	0.873
2,3,5-TriCB	23		U		1.15		
2,3,6-TriCB	24			9.47	0.493	1.09	1.157
2,3',4-TriCB	25			406	0.978	1.03	0.825
2,3',5-TriCB	26	26 + 29	C B	829	1.13	1.04	1.298
2,3',6-TriCB	27			114	0.480	1.06	1.149
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		B	2400	1.04	1.03	0.836
2,4',6-TriCB	32			421	1.06	1.04	1.195
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			12.4	1.19	1.01	1.271
3,3',4-TriCB	35		U		1.30		
3,3',5-TriCB	36		U		1.15		
3,4,4'-TriCB	37		B	292	1.09	1.01	1.001
3,4,5-TriCB	38			41.9	1.13	1.00	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39			35.2	1.17	0.88	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	3980	1.09	0.78	1.335
2,2',3,4-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	4670	1.12	0.79	1.309
2,2',3,5-TeCB	43			263	1.30	0.81	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	17900	0.995	0.79	1.283
2,2',3,6-TeCB	45	45 + 51	C	646	1.06	0.80	1.146
2,2',3,6'-TeCB	46			116	1.20	0.77	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5-TeCB	48		B	742	1.09	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	11600	0.926	0.79	1.256
2,2',4,6-TeCB	50	50 + 53	C B	804	1.04	0.78	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	16700	1.03	0.79	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	4.76	1.24	0.97	1.001
2,3,3',4-TeCB	55		U		52.0		
2,3,3',4'-TeCB	56		B	7550	50.6	0.79	0.905
2,3,3',5-TeCB	57			164	47.2	0.80	0.843
2,3,3',5'-TeCB	58			204	47.6	0.79	0.851
2,3,3',6-TeCB	59	59 + 62 + 75	C B	1910	0.833	0.80	1.300
2,3,4,4'-TeCB	60		B	6590	52.8	0.79	0.911
2,3,4,5-TeCB	61	61 + 70 + 74 + 76	C B	42900	47.2	0.79	0.874
2,3,4,6-TeCB	62	59 + 62 + 75	C59				
2,3,4',5-TeCB	63			2020	46.2	0.80	0.864
2,3,4',6-TeCB	64		B	5760	0.794	0.78	1.346
2,3,5,6-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	43300	48.5	0.79	0.884
2,3',4,5-TeCB	67			545	40.5	0.79	0.856
2,3',4,5'-TeCB	68			847	47.2	0.82	0.830
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			951	45.8	0.81	0.822
2,3',5',6-TeCB	73		U		0.808		
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		B	1630	45.0	0.81	1.001
3,3',4,5-TeCB	78		U		53.7		
3,3',4,5'-TeCB	79			908	42.5	0.76	0.969
3,3',5,5'-TeCB	80		U		46.7		
3,4,4',5-TeCB	81		K	98.6	48.0	0.83	1.000
2,2',3,3',4-PeCB	82			5500	25.2	1.59	0.934
2,2',3,3',5-PeCB	83	83 + 99	C E				
2,2',3,3',6-PeCB	84		B	6940	24.6	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	21300	19.6	1.57	0.920
2,2',3,4,5-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6-PeCB	88	88 + 91	C	6810	22.2	1.57	1.155
2,2',3,4,6'-PeCB	89			121	23.5	1.60	1.183
2,2',3,4',5-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	16400	23.0	1.57	0.853
2,2',3,5,6-PeCB	93	93 + 95 + 98 + 100 + 102	C B	33300	21.4	1.57	1.122
2,2',3,5,6'-PeCB	94			124	23.9	1.50	1.102
2,2',3,5',6-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			33.2	0.485	1.58	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			738	19.8	1.55	1.093
2,2',4,6,6'-PeCB	104			7.25	0.603	1.51	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		142		
2,3,3',4',5-PeCB	107	107 + 124	C	2740	146	1.55	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			12700	138	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			217	17.5	1.65	0.945
2,3,3',5,6-PeCB	112		U		16.5		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			2070	161	1.52	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		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			1350	16.8	1.58	0.957
2,3',4,5',6-PeCB	121			43.4	17.6	1.52	1.198
2',3,3',4,5-PeCB	122			607	159	1.54	1.011
2',3,4,4',5-PeCB	123			1730	159	1.56	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			381	183	1.57	1.000
3,3',4,5,5'-PeCB	127			220	162	1.55	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	31600	64.6	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			11400	77.7	1.25	0.914
2,2',3,3',4,6-HxCB	131			982	72.1	1.27	1.161
2,2',3,3',4,6'-HxCB	132			20000	74.6	1.26	1.176
2,2',3,3',5,5'-HxCB	133			3440	69.0	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	4800	73.8	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	36100	0.721	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	5720	0.550	1.25	1.026
2,2',3,4,4',5-HxCB	137			6860	79.4	1.26	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	2500	66.3	1.27	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			9780	66.8	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		71.6		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			3880	0.746	1.25	1.122
2,2',3,4,6,6'-HxCB	145		K	15.8	0.585	1.02	1.035
2,2',3,4',5,5'-HxCB	146		B	34500	59.4	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C E				
2,2',3,4',5,6'-HxCB	148			401	0.764	1.24	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			141	0.550	1.27	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			10.6	0.537	1.27	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			61.5	0.541	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	18400	73.3	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	13900	50.2	1.26	0.938
2,3,3',4,4',5',6-HxCB	159			467	57.2	1.33	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		52.8		
2,3,3',4',5,5'-HxCB	162			790	58.9	1.30	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			4370	52.4	1.26	0.922
2,3,3',5,5',6-HxCB	165			202	60.3	1.34	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			8820	52.8	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		114		
2,2',3,3',4,4',5-HpCB	170			24700	1.73	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	9780	1.65	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			4500	1.68	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			11300	1.51	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			1740	1.49	1.04	1.103
2,2',3,3',4,6,6'-HpCB	176			2300	1.09	1.03	1.035
2,2',3,3',4',5,6-HpCB	177			20400	1.49	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			10100	1.47	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179		B	7810	1.06	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			204	1.56	1.05	1.156
2,2',3,4,4',5,6'-HpCB	182			266	1.41	1.06	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	25900	1.46	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			72.5	1.05	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		1.15		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			185	1.05	1.00	1.000
2,3,3',4,4',5,5'-HpCB	189			1020	4.00	0.99	1.000
2,3,3',4,4',5,6-HpCB	190			4500	1.34	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			1130	1.29	1.05	0.917
2,3,3',4,5,5',6-HpCB	192		U		1.41		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			8290	1.39	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			2240	1.49	0.91	0.946
2,2',3,3',4,4',5,6'-OxCB	196			5760	1.29	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	1350	0.943	0.90	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	14700	1.32	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			2630	0.922	0.90	1.023
2,2',3,3',5,5',6,6'-OxCB	202			5850	0.991	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			7290	1.29	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204			10.3	0.939	0.94	1.038
2,3,3',4,4',5,5',6-OxCB	205			369	1.33	0.90	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	4540	1.13	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	646	0.804	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			2240	0.672	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			2010	0.729	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-25_Form1A_PB9C_358S9_SJ1087742_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Contract No.: 4574

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 L
Sample Size: 0.253 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 9
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 77.1
% Lipid: 2.40

Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 16:57:59
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg/g (lipid weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	159	11.8	3.16	1.000
3-MoCB	2		K B	19.8	12.8	4.00	0.988
4-MoCB	3		B	22.4	11.7	3.31	1.000
2,2'-DiCB	4			1300	86.7	1.70	1.001
2,3-DiCB	5		U		43.9		
2,3'-DiCB	6			379	38.5	1.56	1.174
2,4-DiCB	7		U		38.6		
2,4'-DiCB	8		B	1220	35.5	1.71	1.205
2,5-DiCB	9		K	54.6	37.8	2.90	1.145
2,6-DiCB	10		K	57.9	33.6	2.18	1.013
3,3'-DiCB	11		B	1730	42.7	1.62	0.968
3,4-DiCB	12	12 + 13	C U		42.7		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		41.5		
4,4'-DiCB	15			230	38.0	1.71	1.000
2,2',3-TriCB	16			1110	7.35	1.06	1.165
2,2',4-TriCB	17		B	1830	6.28	1.07	1.136
2,2',5-TriCB	18	18 + 30	C B	4560	5.34	1.07	1.112
2,2',6-TriCB	19			1110	9.90	1.07	1.000
2,3,3'-TriCB	20	20 + 28	C B	66100	10.5	1.04	0.848
2,3,4-TriCB	21	21 + 33	C B	5910	9.94	1.06	0.857
2,3,4'-TriCB	22		B	10800	11.6	1.02	0.873
2,3,5-TriCB	23		U		10.8		
2,3,6-TriCB	24			89.1	4.64	1.09	1.157
2,3',4-TriCB	25			3820	9.20	1.03	0.825
2,3',5-TriCB	26	26 + 29	C B	7800	10.6	1.04	1.298
2,3',6-TriCB	27			1070	4.52	1.06	1.149
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		B	22600	9.82	1.03	0.836
2,4',6-TriCB	32			3960	9.94	1.04	1.195
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34			117	11.2	1.01	1.271
3,3',4-TriCB	35		U		12.2		
3,3',5-TriCB	36		U		10.8		
3,4,4'-TriCB	37		B	2750	10.3	1.01	1.001
3,4,5-TriCB	38			394	10.6	1.00	0.967



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39			331	11.0	0.88	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	37400	10.3	0.78	1.335
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	43900	10.5	0.79	1.309
2,2',3,5'-TeCB	43			2470	12.2	0.81	1.244
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	168000	9.36	0.79	1.283
2,2',3,6'-TeCB	45	45 + 51	C	6080	10.0	0.80	1.146
2,2',3,6'-TeCB	46			1090	11.3	0.77	1.160
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	6980	10.3	0.78	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	109000	8.71	0.79	1.256
2,2',4,6'-TeCB	50	50 + 53	C B	7560	9.77	0.78	1.109
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	157000	9.65	0.79	1.231
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	44.8	11.7	0.97	1.001
2,3,3',4'-TeCB	55		U		489		
2,3,3',4'-TeCB	56		B	71000	476	0.79	0.905
2,3,3',5'-TeCB	57			1540	444	0.80	0.843
2,3,3',5'-TeCB	58			1920	448	0.79	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	18000	7.84	0.80	1.300
2,3,4,4'-TeCB	60		B	62000	497	0.79	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	404000	444	0.79	0.874
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			19000	435	0.80	0.864
2,3,4',6'-TeCB	64		B	54200	7.47	0.78	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	407000	456	0.79	0.884
2,3',4,5'-TeCB	67			5130	381	0.79	0.856
2,3',4,5'-TeCB	68			7970	444	0.82	0.830
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			8950	431	0.81	0.822
2,3',5',6'-TeCB	73		U		7.60		
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		B	15300	423	0.81	1.001
3,3',4,5'-TeCB	78		U		505		
3,3',4,5'-TeCB	79			8540	400	0.76	0.969
3,3',5,5'-TeCB	80		U		439		
3,4,4',5'-TeCB	81		K	928	452	0.83	1.000
2,2',3,3',4'-PeCB	82			51700	237	1.59	0.934
2,2',3,3',5'-PeCB	83	83 + 99	C E				
2,2',3,3',6'-PeCB	84		B	65300	231	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	200000	184	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C E				
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	64100	209	1.57	1.155
2,2',3,4,6'-PeCB	89			1140	221	1.60	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C E				
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	154000	216	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	313000	201	1.57	1.122
2,2',3,5,6'-PeCB	94			1170	225	1.50	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			312	4.56	1.58	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			6940	186	1.55	1.093
2,2',4,6,6'-PeCB	104			68.2	5.67	1.51	1.001
2,3,3',4,4'-PeCB	105		E				
2,3,3',4,5-PeCB	106		U		1340		
2,3,3',4',5-PeCB	107	107 + 124	C	25800	1370	1.55	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			119000	1300	1.54	0.997
2,3,3',4',6-PeCB	110	110 + 115	C E				
2,3,3',5,5'-PeCB	111			2040	165	1.65	0.945
2,3,3',5,6-PeCB	112		U		155		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			19500	1510	1.52	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		E				
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			12700	158	1.58	0.957
2,3',4,5',6-PeCB	121			408	166	1.52	1.198
2',3,3',4,5-PeCB	122			5710	1500	1.54	1.011
2',3,4,4',5-PeCB	123			16300	1500	1.56	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			3580	1720	1.57	1.000
3,3',4,5,5'-PeCB	127			2070	1520	1.55	1.041
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	297000	608	1.26	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C E				
2,2',3,3',4,5'-HxCB	130			107000	731	1.25	0.914
2,2',3,3',4,6-HxCB	131			9240	678	1.27	1.161
2,2',3,3',4,6'-HxCB	132			188000	702	1.26	1.176
2,2',3,3',5,5'-HxCB	133			32400	649	1.26	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	45200	694	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	340000	6.78	1.25	1.106
2,2',3,3',6,6'-HxCB	136		B	53800	5.17	1.25	1.026
2,2',3,4,4',5-HxCB	137			64500	747	1.26	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	23500	624	1.27	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			92000	628	1.26	0.904
2,2',3,4,5,6-HxCB	142		U		674		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			36500	7.02	1.25	1.122
2,2',3,4,6,6'-HxCB	145		K	149	5.50	1.02	1.035
2,2',3,4',5,5'-HxCB	146		B	325000	559	1.25	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C E				
2,2',3,4',5,6'-HxCB	148			3770	7.19	1.24	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			1330	5.17	1.27	1.013
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			99.8	5.05	1.27	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C E				
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			579	5.09	1.26	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	173000	690	1.25	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	131000	472	1.26	0.938
2,3,3',4,5,5'-HxCB	159			4390	538	1.33	0.982
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		497		
2,3,3',4',5,5'-HxCB	162			7430	554	1.30	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			41100	493	1.26	0.922
2,3,3',5,5',6-HxCB	165			1900	567	1.34	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			83000	497	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		1070		
2,2',3,3',4,4',5-HpCB	170			232000	16.3	1.04	0.936
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	92000	15.5	1.04	1.163
2,2',3,3',4,5,5'-HpCB	172			42300	15.8	1.04	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			106000	14.2	1.03	1.134
2,2',3,3',4,5',6-HpCB	175			16400	14.0	1.04	1.103
2,2',3,3',4,6,6'-HpCB	176			21600	10.3	1.03	1.035
2,2',3,3',4',5,6-HpCB	177			192000	14.0	1.04	1.146
2,2',3,3',5,5',6-HpCB	178			94900	13.8	1.04	1.085
2,2',3,3',5,6,6'-HpCB	179		B	73500	10.0	1.04	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C E				
2,2',3,4,4',5,6-HpCB	181			1920	14.7	1.05	1.156
2,2',3,4,4',5,6'-HpCB	182			2500	13.3	1.06	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	244000	13.7	1.04	1.127
2,2',3,4,4',6,6'-HpCB	184			682	9.86	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		10.8		
2,2',3,4',5,5',6-HpCB	187		E				
2,2',3,4',5,6,6'-HpCB	188			1740	9.90	1.00	1.000
2,3,3',4,4',5,5'-HpCB	189			9570	37.6	0.99	1.000
2,3,3',4,4',5,6-HpCB	190			42300	12.6	1.04	0.947
2,3,3',4,4',5',6-HpCB	191			10600	12.1	1.05	0.917
2,3,3',4,5,5',6-HpCB	192		U		13.3		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			78000	13.1	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			21100	14.0	0.91	0.946
2,2',3,3',4,4',5,6'-OxCB	196			54200	12.1	0.90	0.915
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	12700	8.87	0.90	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	138000	12.4	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			24700	8.67	0.90	1.023
2,2',3,3',5,5',6,6'-OxCB	202			55000	9.32	0.90	1.000
2,2',3,4,4',5,5',6-OxCB	203			68600	12.1	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204			96.9	8.83	0.94	1.038
2,3,3',4,4',5,5',6-OxCB	205			3470	12.5	0.90	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	42700	10.6	0.78	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	6080	7.56	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			21100	6.32	0.78	1.000
2,2',3,3',4,4',5,5',6,6'-DeCB	209			18900	6.86	0.69	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard; E = exceeds calibrated linear range, see dilution data.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-25_Form1A_PB9C_358S9_SJ1087742_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 08-Dec-2009 Time: 03:14:10

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (wet weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 LWi

Sample Size: 10.4 g (wet)

Initial Calibration Date: 28-Nov-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_376 S: 7

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_376 S: 1

% Moisture: 77.1
% Lipid: 2.40

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	20300	14.7	1.58	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	10600	12.6	1.56	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	18000	12.5	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	9200	80.8	1.50	1.001
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	15500	11.2	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		B D	29300	76.4	1.51	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	53400	74.0	1.26	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	17100	77.7	1.25	1.134
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	54400	65.3	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	13800	1.67	1.05	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	15300	1.72	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		X				
2,2',3,3',4,4',5,6'-OcCB	195		X				
2,2',3,3',4,4',5,6'-OcCB	196		X				
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OcCB	198	198 + 199	C X				
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		X				
2,2',3,3',5,5',6,6'-OcCB	202		X				
2,2',3,4,4',5,5',6'-OcCB	203		X				
2,2',3,4,4',5,6,6'-OcCB	204		X				
2,3,3',4,4',5,5',6'-OcCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 08-Dec-2009 Time: 03:14:10

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (dry weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 LWi

Sample Size: 2.38 g (dry)

Initial Calibration Date: 28-Nov-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_376 S: 7

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_376 S: 1

% Moisture: 77.1
% Lipid: 2.40

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	88700	64.2	1.58	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	46200	55.0	1.56	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	78600	54.5	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	40200	353	1.50	1.001
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	67700	48.9	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		B D	128000	334	1.51	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	233000	323	1.26	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	74600	339	1.25	1.134
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	237000	285	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5-HpCB	170		X				
2,2',3,3',4,4',6-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6-HpCB	177		X				
2,2',3,3',5,5',6-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	60300	7.29	1.05	0.910
2,2',3,4,4',5,6-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6-HpCB	187		B D	66800	7.50	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6-HpCB	190		X				
2,3,3',4,4',5',6-HpCB	191		X				
2,3,3',4,5,5',6-HpCB	192		X				
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		X				
2,2',3,3',4,4',5,6-OxCB	195		X				
2,2',3,3',4,4',5,6'-OxCB	196		X				
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C X				
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		X				
2,2',3,3',5,5',6,6'-OxCB	202		X				
2,2',3,4,4',5,5',6-OxCB	203		X				
2,2',3,4,4',5,6,6'-OxCB	204		X				
2,3,3',4,4',5,5',6-OxCB	205		X				
2,2',3,3',4,4',5,5',6-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: TISSUE

Sample Receipt Date: 01-Sep-2009

Extraction Date: 10-Sep-2009

Analysis Date: 08-Dec-2009 Time: 03:14:10

Extract Volume (uL): 200

Injection Volume (uL): 1.0

Dilution Factor: 10

Concentration Units: pg/g (lipid weight basis)

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 LWi
Sample Size: 0.253 g (lipid)
Initial Calibration Date: 28-Nov-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_376 S: 7
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_376 S: 1
% Moisture: 77.1
% Lipid: 2.40

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		X				
3-MoCB	2		X				
4-MoCB	3		X				
2,2'-DiCB	4		X				
2,3-DiCB	5		X				
2,3'-DiCB	6		X				
2,4-DiCB	7		X				
2,4'-DiCB	8		X				
2,5-DiCB	9		X				
2,6-DiCB	10		X				
3,3'-DiCB	11		X				
3,4-DiCB	12	12 + 13	C X				
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		X				
4,4'-DiCB	15		X				
2,2',3-TriCB	16		X				
2,2',4-TriCB	17		X				
2,2',5-TriCB	18	18 + 30	C X				
2,2',6-TriCB	19		X				
2,3,3'-TriCB	20	20 + 28	C X				
2,3,4-TriCB	21	21 + 33	C X				
2,3,4'-TriCB	22		X				
2,3,5-TriCB	23		X				
2,3,6-TriCB	24		X				
2,3',4-TriCB	25		X				
2,3',5-TriCB	26	26 + 29	C X				
2,3',6-TriCB	27		X				
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		X				
2,4',6-TriCB	32		X				
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		X				
3,3',4-TriCB	35		X				
3,3',5-TriCB	36		X				
3,4,4'-TriCB	37		X				
3,4,5-TriCB	38		X				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		X				
2,2',3,3'-TeCB	40	40 + 41 + 71	C X				
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		X				
2,2',3,5'-TeCB	43		X				
2,2',3,5'-TeCB	44	44 + 47 + 65	C X				
2,2',3,6'-TeCB	45	45 + 51	C X				
2,2',3,6'-TeCB	46		X				
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		X				
2,2',4,5'-TeCB	49	49 + 69	C X				
2,2',4,6'-TeCB	50	50 + 53	C X				
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		X				
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		X				
2,3,3',4'-TeCB	55		X				
2,3,3',4'-TeCB	56		X				
2,3,3',5'-TeCB	57		X				
2,3,3',5'-TeCB	58		X				
2,3,3',6'-TeCB	59	59 + 62 + 75	C X				
2,3,4,4'-TeCB	60		X				
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C X				
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		X				
2,3,4',6'-TeCB	64		X				
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		X				
2,3',4,5'-TeCB	67		X				
2,3',4,5'-TeCB	68		X				
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		X				
2,3',5',6'-TeCB	73		X				
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		X				
3,3',4,5'-TeCB	78		X				
3,3',4,5'-TeCB	79		X				
3,3',5,5'-TeCB	80		X				
3,4,4',5'-TeCB	81		X				
2,2',3,3',4'-PeCB	82		X				
2,2',3,3',5'-PeCB	83	83 + 99	C B D	834000	604	1.58	0.885
2,2',3,3',6'-PeCB	84		X				
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C X				
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B D	435000	517	1.56	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C X				
2,2',3,4,6'-PeCB	89		X				
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B D	739000	513	1.57	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		X				
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C X				
2,2',3,5,6'-PeCB	94		X				
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		X				
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		X				
2,2',4,6,6'-PeCB	104		X				
2,3,3',4,4'-PeCB	105		B D	378000	3320	1.50	1.001
2,3,3',4,5-PeCB	106		X				
2,3,3',4',5-PeCB	107	107 + 124	C X				
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		X				
2,3,3',4',6-PeCB	110	110 + 115	C B D	637000	460	1.56	0.925
2,3,3',5,5'-PeCB	111		X				
2,3,3',5,6-PeCB	112		X				
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		X				
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		B D	1200000	3140	1.51	1.001
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		X				
2,3',4,5',6-PeCB	121		X				
2',3,3',4,5-PeCB	122		X				
2',3,4,4',5-PeCB	123		X				
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		X				
3,3',4,5,5'-PeCB	127		X				
2,2',3,3',4,4'-HxCB	128	128 + 166	C X				
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B D	2190000	3040	1.26	0.929
2,2',3,3',4,5'-HxCB	130		X				
2,2',3,3',4,6-HxCB	131		X				
2,2',3,3',4,6'-HxCB	132		X				
2,2',3,3',5,5'-HxCB	133		X				
2,2',3,3',5,6-HxCB	134	134 + 143	C X				
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C X				
2,2',3,3',6,6'-HxCB	136		X				
2,2',3,4,4',5-HxCB	137		X				
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C X				
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		X				
2,2',3,4,5,6-HxCB	142		X				
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		X				
2,2',3,4,6,6'-HxCB	145		X				
2,2',3,4',5,5'-HxCB	146		X				
2,2',3,4',5,6-HxCB	147	147 + 149	C B D	702000	3190	1.25	1.134
2,2',3,4',5,6'-HxCB	148		X				
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		X				
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		X				
2,2',4,4',5,5'-HxCB	153	153 + 168	C B D	2230000	2680	1.25	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		X				
2,3,3',4,4',5-HxCB	156	156 + 157	C X				
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		X				
2,3,3',4,5,5'-HxCB	159		X				
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		X				
2,3,3',4',5,5'-HxCB	162		X				
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		X				
2,3,3',5,5',6-HxCB	165		X				
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		X				
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		X				
2,2',3,3',4,4',5'-HpCB	170		X				
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C X				
2,2',3,3',4,5,5'-HpCB	172		X				
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		X				
2,2',3,3',4,5',6'-HpCB	175		X				
2,2',3,3',4,6,6'-HpCB	176		X				
2,2',3,3',4',5,6'-HpCB	177		X				
2,2',3,3',5,5',6'-HpCB	178		X				
2,2',3,3',5,6,6'-HpCB	179		X				
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B D	567000	68.6	1.05	0.910
2,2',3,4,4',5,6'-HpCB	181		X				
2,2',3,4,4',5,6'-HpCB	182		X				
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C X				
2,2',3,4,4',6,6'-HpCB	184		X				
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		X				
2,2',3,4',5,5',6'-HpCB	187		B D	628000	70.6	1.04	1.110
2,2',3,4',5,6,6'-HpCB	188		X				
2,3,3',4,4',5,5'-HpCB	189		X				
2,3,3',4,4',5,6'-HpCB	190		X				
2,3,3',4,4',5',6'-HpCB	191		X				
2,3,3',4,5,5',6'-HpCB	192		X				
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OcCB	194		X				
2,2',3,3',4,4',5,6'-OcCB	195		X				
2,2',3,3',4,4',5,6'-OcCB	196		X				
2,2',3,3',4,4',6,6'-OcCB	197	197 + 200	C X				
2,2',3,3',4,5,5',6'-OcCB	198	198 + 199	C X				
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		X				
2,2',3,3',5,5',6,6'-OcCB	202		X				
2,2',3,4,4',5,5',6'-OcCB	203		X				
2,2',3,4,4',5,6,6'-OcCB	204		X				
2,3,3',4,4',5,5',6'-OcCB	205		X				
2,2',3,3',4,4',5,5',6'-NoCB	206		X				
2,2',3,3',4,4',5,6,6'-NoCB	207		X				
2,2',3,3',4,5,5',6,6'-NoCB	208		X				
2,2',3,3',4,4',5,5',6,6'-DeCB	209		X				

(1) Where applicable, custom lab flags have been used on this report; B = analyte found in sample and the associated blank; D = dilution data; C = co-eluting congener; X = result reported separately.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_L13452-25_Form1A_PB9C_376S7_SJ1091317_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 25-Nov-2009 Time: 16:57:59
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 L
Sample Size: 10.4 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_358 S: 9
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_358 S: 1
% Moisture: 77.1
% Lipid: 2.40

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	269	13.5	3.21	0.722
13C12-4-MoCB	3L			2000	416	20.8	3.26	0.861
13C12-2,2'-DiCB	4L			2000	500	25.0	1.59	0.875
13C12-4,4'-DiCB	15L			2000	949	47.4	1.60	1.254
13C12-2,2',6-TriCB	19L			2000	881	44.0	1.07	1.072
13C12-3,4,4'-TriCB	37L			2000	1060	52.8	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	753	37.7	0.81	0.813
13C12-3,3',4,4'-TeCB	77L			2000	1550	77.7	0.79	1.397
13C12-3,4,4',5-TeCB	81L			2000	1540	76.8	0.79	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1050	52.6	1.59	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1430	71.5	1.55	1.201
13C12-2,3,4,4',5-PeCB	114L			2000	1180	59.1	1.60	1.180
13C12-2,3',4,4',5-PeCB	118L			2000	1470	73.6	1.60	1.162
13C12-2',3,4,4',5-PeCB	123L			2000	1270	63.7	1.55	1.152
13C12-3,3',4,4',5-PeCB	126L			2000	1270	63.5	1.57	1.302
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1260	63.2	1.28	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C	4000	2860	71.6	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	1440	72.1	1.27	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1460	72.9	1.28	1.191
13C12-2,2',3,3',4,4',5-HpCB	170L			2000	1600	79.9	1.08	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1600	80.1	1.04	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1500	75.0	1.07	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1300	64.8	1.09	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1890	94.6	0.93	0.817
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1370	68.6	0.91	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2260	113	0.83	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1560	78.1	0.80	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1750	87.4	1.21	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	895	44.7	1.05	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1470	73.7	1.57	1.088
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1600	80.1	1.04	1.011

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Fore River - 10 Males
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

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Analysis Date: 08-Dec-2009 Time: 03:14:10
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Injection Volume (uL): 1.0
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Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: L13452-25 LWI
Sample Size: 10.4 g (wet)
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GC Column ID: SPB OCTYL
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Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_376 S: 1
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% Lipid: 2.40

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	SPIKE CONC.	CONC. FOUND	R(%) ³	ION ABUND. RATIO	RRT
13C12-2-MoCB	1L		X					
13C12-4-MoCB	3L		X					
13C12-2,2'-DiCB	4L		X					
13C12-4,4'-DiCB	15L		X					
13C12-2,2',6-TriCB	19L		X					
13C12-3,4,4'-TriCB	37L		X					
13C12-2,2',6,6'-TeCB	54L		X					
13C12-3,3',4,4'-TeCB	77L		X					
13C12-3,4,4',5-TeCB	81L		X					
13C12-2,2',4,6,6'-PeCB	104L		D	2000	934	46.7	1.59	0.808
13C12-2,3,3',4,4'-PeCB	105L		D	2000	1390	69.6	1.59	1.201
13C12-2,3,4,4',5-PeCB	114L		D	2000	1290	64.5	1.52	1.180
13C12-2,3',4,4',5-PeCB	118L		D	2000	1460	73.2	1.51	1.162
13C12-2',3,4,4',5-PeCB	123L		D	2000	1320	66.2	1.56	1.151
13C12-3,3',4,4',5-PeCB	126L		D	2000	1300	65.1	1.50	1.302
13C12-2,2',4,4',6,6'-HxCB	155L		D	2000	1070	53.3	1.24	0.785
13C12-2,3,3',4,4',5-HxCB	156L	156L + 157L	C D	4000	2740	68.5	1.29	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L		D	2000	1340	67.2	1.32	1.077
13C12-3,3',4,4',5,5'-HxCB	169L		D	2000	1370	68.3	1.28	1.192
13C12-2,2',3,3',4,4',5-HpCB	170L		D	2000	1450	72.5	1.06	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L		D	2000	1540	77.0	1.11	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L		D	2000	1150	57.4	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L		D	2000	1310	65.7	1.07	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L		X					
13C12-2,3,3',4,4',5,5',6-OxCB	205L		X					
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L		X					
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L		X					
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L		X					
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L		X					
13C12-2,3,3',5,5'-PeCB	111L		X					
13C12-2,2',3,3',5,5',6-HpCB	178L		X					

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; D = dilution data; C = co-eluting congener; X = result reported separately.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____Shelley Facchin_____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Project No. N/A
Lab Sample I.D.: WG30100-101
Sample Size: 10.0 g
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 4
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1

Matrix: CANOLA OIL

Sample Receipt Date: N/A

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 11:23:44

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1			0.068	0.0571	3.26	1.003
3-MoCB	2			0.078	0.0665	3.10	0.988
4-MoCB	3		K	0.182	0.0704	8.88	1.000
2,2'-DiCB	4		U		0.323		
2,3-DiCB	5		U		0.231		
2,3'-DiCB	6		U		0.200		
2,4-DiCB	7		U		0.201		
2,4'-DiCB	8		K	0.268	0.181	1.19	1.207
2,5-DiCB	9		U		0.199		
2,6-DiCB	10		U		0.191		
3,3'-DiCB	11			0.837	0.228	1.70	0.969
3,4-DiCB	12	12 + 13	C U		0.228		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.218		
4,4'-DiCB	15		U		0.227		
2,2',3-TriCB	16		U		0.0764		
2,2',4-TriCB	17		K	0.085	0.0696	1.76	1.137
2,2',5-TriCB	18	18 + 30	C	0.247	0.0578	1.18	1.113
2,2',6-TriCB	19		U		0.0835		
2,3,3'-TriCB	20	20 + 28	C	0.852	0.0500	0.95	0.847
2,3,4-TriCB	21	21 + 33	C	0.210	0.0500	0.99	0.856
2,3,4'-TriCB	22			0.158	0.0500	1.09	0.872
2,3,5-TriCB	23		U		0.0500		
2,3,6-TriCB	24		U		0.0540		
2,3',4-TriCB	25		U		0.0500		
2,3',5-TriCB	26	26 + 29	C	0.101	0.0500	1.07	1.299
2,3',6-TriCB	27		U		0.0500		
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			0.504	0.0500	0.90	0.837
2,4',6-TriCB	32		U		0.0500		
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.0500		
3,3',4-TriCB	35		U		0.0536		
3,3',5-TriCB	36		U		0.0500		
3,4,4'-TriCB	37		K	0.062	0.0500	0.42	1.001
3,4,5-TriCB	38		U		0.0500		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		0.0500		
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.155	0.0500	0.74	1.333
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		K	0.116	0.0500	0.36	1.308
2,2',3,5'-TeCB	43		U		0.0500		
2,2',3,5'-TeCB	44	44 + 47 + 65	C	0.812	0.0500	0.81	1.283
2,2',3,6'-TeCB	45	45 + 51	C U		0.0500		
2,2',3,6'-TeCB	46		U		0.0500		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48			0.054	0.0500	0.70	1.271
2,2',4,5'-TeCB	49	49 + 69	C	0.433	0.0500	0.81	1.257
2,2',4,6'-TeCB	50	50 + 53	C	0.081	0.0500	0.83	1.111
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		K	1.15	0.0500	0.97	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.0500		
2,3,3',4'-TeCB	55		U		0.0643		
2,3,3',4'-TeCB	56			0.110	0.0643	0.81	0.905
2,3,3',5'-TeCB	57		U		0.0587		
2,3,3',5'-TeCB	58		U		0.0560		
2,3,3',6'-TeCB	59	59 + 62 + 75	C	0.084	0.0500	0.71	1.300
2,3,4,4'-TeCB	60			0.110	0.0646	0.72	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C	1.12	0.0575	0.82	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		U		0.0581		
2,3,4',6'-TeCB	64		K	0.156	0.0500	0.96	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			0.553	0.0583	0.73	0.884
2,3',4,5'-TeCB	67		U		0.0526		
2,3',4,5'-TeCB	68		U		0.0561		
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		0.0567		
2,3',5,6'-TeCB	73		U		0.0500		
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	0.078	0.0526	2.21	1.000
3,3',4,5'-TeCB	78		U		0.0686		
3,3',4,5'-TeCB	79		U		0.0527		
3,3',5,5'-TeCB	80		U		0.0585		
3,4,4',5'-TeCB	81		U		0.0644		
2,2',3,3',4'-PeCB	82		U		0.100		
2,2',3,3',5'-PeCB	83	83 + 99	C	1.21	0.0880	1.58	0.885
2,2',3,3',6'-PeCB	84			0.190	0.0915	1.66	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C K	0.233	0.0764	1.08	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	0.611	0.0750	1.50	0.902
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		0.0809		
2,2',3,4,6'-PeCB	89		U		0.0880		
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C K	1.20	0.0737	1.88	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		K	0.322	0.0872	1.13	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C K	0.958	0.0772	1.31	1.122
2,2',3,5,6'-PeCB	94		U		0.0852		
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		0.0500		
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		U		0.0717		
2,2',4,6,6'-PeCB	104		U		0.0555		
2,3,3',4,4'-PeCB	105		K	0.304	0.0718	2.46	1.001
2,3,3',4,5-PeCB	106		U		0.0761		
2,3,3',4',5-PeCB	107	107 + 124	C U		0.0816		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		U		0.0808		
2,3,3',4',6-PeCB	110	110 + 115	C K	0.697	0.0670	2.07	0.925
2,3,3',5,5'-PeCB	111		U		0.0665		
2,3,3',5,6-PeCB	112		U		0.0654		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		U		0.0760		
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	0.909	0.0768	1.29	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		U		0.0668		
2,3',4,5',6-PeCB	121		U		0.0657		
2',3,3',4,5-PeCB	122		U		0.0910		
2',3,4,4',5-PeCB	123		U		0.0791		
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		0.0965		
3,3',4,5,5'-PeCB	127		U		0.0872		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.174	0.103	1.25	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	1.23	0.103	1.40	0.929
2,2',3,3',4,5'-HxCB	130		U		0.132		
2,2',3,3',4,6-HxCB	131		U		0.112		
2,2',3,3',4,6'-HxCB	132		U		0.122		
2,2',3,3',5,5'-HxCB	133		U		0.112		
2,2',3,3',5,6-HxCB	134	134 + 143	C U		0.116		
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C K	0.631	0.0928	1.64	1.105
2,2',3,3',6,6'-HxCB	136			0.146	0.0636	1.14	1.026
2,2',3,4,4',5-HxCB	137		U		0.123		
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		0.105		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		U		0.111		
2,2',3,4,5,6-HxCB	142		U		0.119		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		U		0.0976		
2,2',3,4,6,6'-HxCB	145		U		0.0691		
2,2',3,4',5,5'-HxCB	146		K	0.290	0.102	1.68	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C K	0.748	0.103	0.99	1.134
2,2',3,4',5,6'-HxCB	148		U		0.0930		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		0.0663		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.0585		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	1.55	0.0864	1.14	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		0.0548		
2,3,3',4,4',5-HxCB	156	156 + 157	C U		0.109		
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		K	0.119	0.0800	0.62	0.938
2,3,3',4,5,5'-HxCB	159		U		0.0875		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		0.0837		
2,3,3',4',5,5'-HxCB	162		U		0.0917		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		U		0.0867		
2,3,3',5,5',6-HxCB	165		U		0.0951		
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		U		0.0795		
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		0.0893		
2,2',3,3',4,4',5'-HpCB	170		U		0.0948		
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C U		0.104		
2,2',3,3',4,5,5'-HpCB	172		U		0.0996		
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		U		0.0944		
2,2',3,3',4,5',6'-HpCB	175		U		0.0955		
2,2',3,3',4,6',6'-HpCB	176		U		0.0686		
2,2',3,3',4',5,6'-HpCB	177		U		0.0907		
2,2',3,3',5,5',6'-HpCB	178		U		0.0939		
2,2',3,3',5,6',6'-HpCB	179			0.090	0.0666	0.93	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C K	0.198	0.0735	1.25	0.910
2,2',3,4,4',5,6'-HpCB	181		U		0.101		
2,2',3,4,4',5,6'-HpCB	182		U		0.0960		
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C K	0.122	0.0974	1.90	1.127
2,2',3,4,4',6,6'-HpCB	184		U		0.0661		
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6',6'-HpCB	186		U		0.0741		
2,2',3,4',5,5',6'-HpCB	187			0.403	0.0896	1.10	1.110
2,2',3,4',5,6',6'-HpCB	188		U		0.0598		
2,3,3',4,4',5,5'-HpCB	189		U		0.0760		
2,3,3',4,4',5,6'-HpCB	190		U		0.0719		
2,3,3',4,4',5',6'-HpCB	191		U		0.0731		
2,3,3',4,5,5',6'-HpCB	192		U		0.0849		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		U		0.0666		
2,2',3,3',4,4',5,6'-OxCB	195		U		0.0754		
2,2',3,3',4,4',5,6'-OxCB	196		U		0.0910		
2,2',3,3',4,4',6'-OxCB	197	197 + 200	C U		0.0726		
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C U		0.0968		
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6',6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6',6'-OxCB	201		U		0.0734		
2,2',3,3',5,5',6',6'-OxCB	202		U		0.0974		
2,2',3,4,4',5,5',6'-OxCB	203		U		0.0920		
2,2',3,4,4',5,6',6'-OxCB	204		U		0.0740		
2,3,3',4,4',5,5',6'-OxCB	205		U		0.0505		
2,2',3,3',4,4',5,5',6'-NoCB	206		U		0.0781		
2,2',3,3',4,4',5,6',6'-NoCB	207		U		0.0671		
2,2',3,3',4,5,5',6',6'-NoCB	208		U		0.0687		
2,2',3,3',4,4',5,5',6',6'-DeCB	209		U		0.0787		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_WG30100-101_Form1A_PB9C_331S4_SJ1078261.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: CANOLA OIL

Sample Receipt Date: N/A

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 11:23:44

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (dry weight basis)

Project No. N/A
Lab Sample I.D.: WG30100-101

Sample Size: 2.00 g (dry)

Initial Calibration Date: 01-Sep-2009

Instrument ID: HR GC/MS

GC Column ID: SPB OCTYL

Sample Data Filename: PB9C_331 S: 4

Blank Data Filename: PB9C_331 S: 4

Cal. Ver. Data Filename: PB9C_331 S: 1

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1			0.340	0.286	3.26	1.003
3-MoCB	2			0.390	0.333	3.10	0.988
4-MoCB	3		K	0.910	0.352	8.88	1.000
2,2'-DiCB	4		U		1.62		
2,3-DiCB	5		U		1.16		
2,3'-DiCB	6		U		1.00		
2,4-DiCB	7		U		1.01		
2,4'-DiCB	8		K	1.34	0.905	1.19	1.207
2,5-DiCB	9		U		0.995		
2,6-DiCB	10		U		0.955		
3,3'-DiCB	11			4.19	1.14	1.70	0.969
3,4-DiCB	12	12 + 13	C U		1.14		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.09		
4,4'-DiCB	15		U		1.14		
2,2',3-TriCB	16		U		0.382		
2,2',4-TriCB	17		K	0.425	0.348	1.76	1.137
2,2',5-TriCB	18	18 + 30	C	1.24	0.289	1.18	1.113
2,2',6-TriCB	19		U		0.418		
2,3,3'-TriCB	20	20 + 28	C	4.26	0.250	0.95	0.847
2,3,4-TriCB	21	21 + 33	C	1.05	0.250	0.99	0.856
2,3,4'-TriCB	22			0.790	0.250	1.09	0.872
2,3,5-TriCB	23		U		0.250		
2,3,6-TriCB	24		U		0.270		
2,3',4-TriCB	25		U		0.250		
2,3',5-TriCB	26	26 + 29	C	0.505	0.250	1.07	1.299
2,3',6-TriCB	27		U		0.250		
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			2.52	0.250	0.90	0.837
2,4',6-TriCB	32		U		0.250		
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		0.250		
3,3',4-TriCB	35		U		0.268		
3,3',5-TriCB	36		U		0.250		
3,4,4'-TriCB	37		K	0.310	0.250	0.42	1.001
3,4,5-TriCB	38		U		0.250		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		U		0.250		
2,2',3,3'-TeCB	40	40 + 41 + 71	C	0.775	0.250	0.74	1.333
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		K	0.580	0.250	0.36	1.308
2,2',3,5'-TeCB	43		U		0.250		
2,2',3,5'-TeCB	44	44 + 47 + 65	C	4.06	0.250	0.81	1.283
2,2',3,6'-TeCB	45	45 + 51	C U		0.250		
2,2',3,6'-TeCB	46		U		0.250		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48			0.270	0.250	0.70	1.271
2,2',4,5'-TeCB	49	49 + 69	C	2.17	0.250	0.81	1.257
2,2',4,6'-TeCB	50	50 + 53	C	0.405	0.250	0.83	1.111
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		K	5.75	0.250	0.97	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		0.250		
2,3,3',4'-TeCB	55		U		0.322		
2,3,3',4'-TeCB	56			0.550	0.322	0.81	0.905
2,3,3',5'-TeCB	57		U		0.294		
2,3,3',5'-TeCB	58		U		0.280		
2,3,3',6'-TeCB	59	59 + 62 + 75	C	0.420	0.250	0.71	1.300
2,3,4,4'-TeCB	60			0.550	0.323	0.72	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C	5.60	0.288	0.82	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		U		0.291		
2,3,4',6'-TeCB	64		K	0.780	0.250	0.96	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			2.77	0.292	0.73	0.884
2,3',4,5'-TeCB	67		U		0.263		
2,3',4,5'-TeCB	68		U		0.281		
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		0.284		
2,3',5,6'-TeCB	73		U		0.250		
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	0.390	0.263	2.21	1.000
3,3',4,5'-TeCB	78		U		0.343		
3,3',4,5'-TeCB	79		U		0.264		
3,3',5,5'-TeCB	80		U		0.293		
3,4,4',5'-TeCB	81		U		0.322		
2,2',3,3',4'-PeCB	82		U		0.500		
2,2',3,3',5'-PeCB	83	83 + 99	C	6.05	0.440	1.58	0.885
2,2',3,3',6'-PeCB	84			0.950	0.458	1.66	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C K	1.17	0.382	1.08	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	3.06	0.375	1.50	0.902
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		0.405		
2,2',3,4,6'-PeCB	89		U		0.440		
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C K	6.00	0.369	1.88	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		K	1.61	0.436	1.13	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C K	4.79	0.386	1.31	1.122
2,2',3,5,6'-PeCB	94		U		0.426		
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		0.250		
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		U		0.359		
2,2',4,6,6'-PeCB	104		U		0.278		
2,3,3',4,4'-PeCB	105		K	1.52	0.359	2.46	1.001
2,3,3',4,5-PeCB	106		U		0.381		
2,3,3',4',5-PeCB	107	107 + 124	C U		0.408		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		U		0.404		
2,3,3',4',6-PeCB	110	110 + 115	C K	3.49	0.335	2.07	0.925
2,3,3',5,5'-PeCB	111		U		0.333		
2,3,3',5,6-PeCB	112		U		0.327		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		U		0.380		
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	4.55	0.384	1.29	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		U		0.334		
2,3',4,5',6-PeCB	121		U		0.329		
2',3,3',4,5-PeCB	122		U		0.455		
2',3,4,4',5-PeCB	123		U		0.396		
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		0.483		
3,3',4,5,5'-PeCB	127		U		0.436		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	0.870	0.515	1.25	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	6.15	0.515	1.40	0.929
2,2',3,3',4,5'-HxCB	130		U		0.660		
2,2',3,3',4,6-HxCB	131		U		0.560		
2,2',3,3',4,6'-HxCB	132		U		0.610		
2,2',3,3',5,5'-HxCB	133		U		0.560		
2,2',3,3',5,6-HxCB	134	134 + 143	C U		0.580		
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C K	3.16	0.464	1.64	1.105
2,2',3,3',6,6'-HxCB	136			0.730	0.318	1.14	1.026
2,2',3,4,4',5-HxCB	137		U		0.615		
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		0.525		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		U		0.555		
2,2',3,4,5,6-HxCB	142		U		0.595		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		U		0.488		
2,2',3,4,6,6'-HxCB	145		U		0.346		
2,2',3,4',5,5'-HxCB	146		K	1.45	0.510	1.68	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C K	3.74	0.515	0.99	1.134
2,2',3,4',5,6'-HxCB	148		U		0.465		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		0.332		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		0.293		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	7.75	0.432	1.14	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		0.274		
2,3,3',4,4',5-HxCB	156	156 + 157	C U		0.545		
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		K	0.595	0.400	0.62	0.938
2,3,3',4,5,5'-HxCB	159		U		0.438		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		0.419		
2,3,3',4',5,5'-HxCB	162		U		0.459		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		U		0.434		
2,3,3',5,5',6-HxCB	165		U		0.476		
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		U		0.398		
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		0.447		
2,2',3,3',4,4',5'-HpCB	170		U		0.474		
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C U		0.520		
2,2',3,3',4,5,5'-HpCB	172		U		0.498		
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		U		0.472		
2,2',3,3',4,5',6'-HpCB	175		U		0.478		
2,2',3,3',4,6,6'-HpCB	176		U		0.343		
2,2',3,3',4',5,6'-HpCB	177		U		0.454		
2,2',3,3',5,5',6'-HpCB	178		U		0.470		
2,2',3,3',5,6,6'-HpCB	179			0.450	0.333	0.93	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C K	0.990	0.368	1.25	0.910
2,2',3,4,4',5,6'-HpCB	181		U		0.505		
2,2',3,4,4',5,6'-HpCB	182		U		0.480		
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C K	0.610	0.487	1.90	1.127
2,2',3,4,4',6,6'-HpCB	184		U		0.331		
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.371		
2,2',3,4',5,5',6'-HpCB	187			2.02	0.448	1.10	1.110
2,2',3,4',5,6,6'-HpCB	188		U		0.299		
2,3,3',4,4',5,5'-HpCB	189		U		0.380		
2,3,3',4,4',5,6'-HpCB	190		U		0.360		
2,3,3',4,4',5',6'-HpCB	191		U		0.366		
2,3,3',4,5,5',6'-HpCB	192		U		0.425		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		U		0.333		
2,2',3,3',4,4',5,6'-OxCB	195		U		0.377		
2,2',3,3',4,4',5,6'-OxCB	196		U		0.455		
2,2',3,3',4,4',6'-OxCB	197	197 + 200	C U		0.363		
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C U		0.484		
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201		U		0.367		
2,2',3,3',5,5',6,6'-OxCB	202		U		0.487		
2,2',3,4,4',5,5',6'-OxCB	203		U		0.460		
2,2',3,4,4',5,6,6'-OxCB	204		U		0.370		
2,3,3',4,4',5,5',6'-OxCB	205		U		0.253		
2,2',3,3',4,4',5,5',6'-NoCB	206		U		0.391		
2,2',3,3',4,4',5,6,6'-NoCB	207		U		0.336		
2,2',3,3',4,5,5',6,6'-NoCB	208		U		0.344		
2,2',3,3',4,4',5,5',6,6'-DeCB	209		U		0.394		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_WG30100-101_Form1A_PB9C_331S4_SJ1078261_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574

Matrix: CANOLA OIL

Sample Receipt Date: N/A

Extraction Date: 10-Sep-2009

Analysis Date: 30-Oct-2009 Time: 11:23:44

Extract Volume (uL): 20

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: pg/g (lipid weight basis)

Project No. N/A
Lab Sample I.D.: WG30100-101
Sample Size: 0.200 g (lipid)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 4
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1			3.40	2.86	3.26	1.003
3-MoCB	2			3.90	3.33	3.10	0.988
4-MoCB	3		K	9.10	3.52	8.88	1.000
2,2'-DiCB	4		U		16.2		
2,3-DiCB	5		U		11.6		
2,3'-DiCB	6		U		10.0		
2,4-DiCB	7		U		10.1		
2,4'-DiCB	8		K	13.4	9.05	1.19	1.207
2,5-DiCB	9		U		9.95		
2,6-DiCB	10		U		9.55		
3,3'-DiCB	11			41.9	11.4	1.70	0.969
3,4-DiCB	12	12 + 13	C U		11.4		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		10.9		
4,4'-DiCB	15		U		11.4		
2,2',3-TriCB	16		U		3.82		
2,2',4-TriCB	17		K	4.25	3.48	1.76	1.137
2,2',5-TriCB	18	18 + 30	C	12.4	2.89	1.18	1.113
2,2',6-TriCB	19		U		4.18		
2,3,3'-TriCB	20	20 + 28	C	42.6	2.50	0.95	0.847
2,3,4-TriCB	21	21 + 33	C	10.5	2.50	0.99	0.856
2,3,4'-TriCB	22			7.90	2.50	1.09	0.872
2,3,5-TriCB	23		U		2.50		
2,3,6-TriCB	24		U		2.70		
2,3',4-TriCB	25		U		2.50		
2,3',5-TriCB	26	26 + 29	C	5.05	2.50	1.07	1.299
2,3',6-TriCB	27		U		2.50		
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			25.2	2.50	0.90	0.837
2,4',6-TriCB	32		U		2.50		
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		U		2.50		
3,3',4-TriCB	35		U		2.68		
3,3',5-TriCB	36		U		2.50		
3,4,4'-TriCB	37		K	3.10	2.50	0.42	1.001
3,4,5-TriCB	38		U		2.50		



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		U		2.50		
2,2',3,3'-TeCB	40	40 + 41 + 71	C	7.75	2.50	0.74	1.333
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		K	5.80	2.50	0.36	1.308
2,2',3,5'-TeCB	43		U		2.50		
2,2',3,5'-TeCB	44	44 + 47 + 65	C	40.6	2.50	0.81	1.283
2,2',3,6'-TeCB	45	45 + 51	C U		2.50		
2,2',3,6'-TeCB	46		U		2.50		
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48			2.70	2.50	0.70	1.271
2,2',4,5'-TeCB	49	49 + 69	C	21.7	2.50	0.81	1.257
2,2',4,6'-TeCB	50	50 + 53	C	4.05	2.50	0.83	1.111
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		K	57.5	2.50	0.97	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		U		2.50		
2,3,3',4'-TeCB	55		U		3.22		
2,3,3',4'-TeCB	56			5.50	3.22	0.81	0.905
2,3,3',5'-TeCB	57		U		2.94		
2,3,3',5'-TeCB	58		U		2.80		
2,3,3',6'-TeCB	59	59 + 62 + 75	C	4.20	2.50	0.71	1.300
2,3,4,4'-TeCB	60			5.50	3.23	0.72	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C	56.0	2.88	0.82	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63		U		2.91		
2,3,4',6'-TeCB	64		K	7.80	2.50	0.96	1.346
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66			27.7	2.92	0.73	0.884
2,3',4,5'-TeCB	67		U		2.63		
2,3',4,5'-TeCB	68		U		2.81		
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		2.84		
2,3',5,6'-TeCB	73		U		2.50		
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	3.90	2.63	2.21	1.000
3,3',4,5'-TeCB	78		U		3.43		
3,3',4,5'-TeCB	79		U		2.64		
3,3',5,5'-TeCB	80		U		2.93		
3,4,4',5'-TeCB	81		U		3.22		
2,2',3,3',4'-PeCB	82		U		5.00		
2,2',3,3',5'-PeCB	83	83 + 99	C	60.5	4.40	1.58	0.885
2,2',3,3',6'-PeCB	84			9.50	4.58	1.66	1.165
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C K	11.7	3.82	1.08	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C	30.6	3.75	1.50	0.902
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		4.05		
2,2',3,4,6'-PeCB	89		U		4.40		
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C K	60.0	3.69	1.88	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		K	16.1	4.36	1.13	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C K	47.9	3.86	1.31	1.122
2,2',3,5,6'-PeCB	94		U		4.26		
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96		U		2.50		
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103		U		3.59		
2,2',4,6,6'-PeCB	104		U		2.78		
2,3,3',4,4'-PeCB	105		K	15.2	3.59	2.46	1.001
2,3,3',4,5-PeCB	106		U		3.81		
2,3,3',4',5-PeCB	107	107 + 124	C U		4.08		
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109		U		4.04		
2,3,3',4',6-PeCB	110	110 + 115	C K	34.9	3.35	2.07	0.925
2,3,3',5,5'-PeCB	111		U		3.33		
2,3,3',5,6-PeCB	112		U		3.27		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114		U		3.80		
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	45.5	3.84	1.29	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120		U		3.34		
2,3',4,5',6-PeCB	121		U		3.29		
2',3,3',4,5-PeCB	122		U		4.55		
2',3,4,4',5-PeCB	123		U		3.96		
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		4.83		
3,3',4,5,5'-PeCB	127		U		4.36		
2,2',3,3',4,4'-HxCB	128	128 + 166	C	8.70	5.15	1.25	0.960
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C	61.5	5.15	1.40	0.929
2,2',3,3',4,5'-HxCB	130		U		6.60		
2,2',3,3',4,6-HxCB	131		U		5.60		
2,2',3,3',4,6'-HxCB	132		U		6.10		
2,2',3,3',5,5'-HxCB	133		U		5.60		
2,2',3,3',5,6-HxCB	134	134 + 143	C U		5.80		
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C K	31.6	4.64	1.64	1.105
2,2',3,3',6,6'-HxCB	136			7.30	3.18	1.14	1.026
2,2',3,4,4',5-HxCB	137		U		6.15		
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		5.25		
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141		U		5.55		
2,2',3,4,5,6-HxCB	142		U		5.95		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144		U		4.88		
2,2',3,4,6,6'-HxCB	145		U		3.46		
2,2',3,4',5,5'-HxCB	146		K	14.5	5.10	1.68	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C K	37.4	5.15	0.99	1.134
2,2',3,4',5,6'-HxCB	148		U		4.65		
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150		U		3.32		
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152		U		2.93		
2,2',4,4',5,5'-HxCB	153	153 + 168	C	77.5	4.32	1.14	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155		U		2.74		
2,3,3',4,4',5-HxCB	156	156 + 157	C U		5.45		
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		K	5.95	4.00	0.62	0.938
2,3,3',4,5,5'-HxCB	159		U		4.38		
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		4.19		
2,3,3',4',5,5'-HxCB	162		U		4.59		
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164		U		4.34		
2,3,3',5,5',6-HxCB	165		U		4.76		
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167		U		3.98		
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		4.47		
2,2',3,3',4,4',5'-HpCB	170		U		4.74		
2,2',3,3',4,4',6'-HpCB	171	171 + 173	C U		5.20		
2,2',3,3',4,5,5'-HpCB	172		U		4.98		
2,2',3,3',4,5,6'-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174		U		4.72		
2,2',3,3',4,5',6'-HpCB	175		U		4.78		
2,2',3,3',4,6,6'-HpCB	176		U		3.43		
2,2',3,3',4',5,6'-HpCB	177		U		4.54		
2,2',3,3',5,5',6'-HpCB	178		U		4.70		
2,2',3,3',5,6,6'-HpCB	179			4.50	3.33	0.93	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C K	9.90	3.68	1.25	0.910
2,2',3,4,4',5,6'-HpCB	181		U		5.05		
2,2',3,4,4',5,6'-HpCB	182		U		4.80		
2,2',3,4,4',5',6'-HpCB	183	183 + 185	C K	6.10	4.87	1.90	1.127
2,2',3,4,4',6,6'-HpCB	184		U		3.31		
2,2',3,4,5,5',6'-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		3.71		
2,2',3,4',5,5',6'-HpCB	187			20.2	4.48	1.10	1.110
2,2',3,4',5,6,6'-HpCB	188		U		2.99		
2,3,3',4,4',5,5'-HpCB	189		U		3.80		
2,3,3',4,4',5,6'-HpCB	190		U		3.60		
2,3,3',4,4',5',6'-HpCB	191		U		3.66		
2,3,3',4,5,5',6'-HpCB	192		U		4.25		
2,3,3',4',5,5',6'-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194		U		3.33		
2,2',3,3',4,4',5,6'-OxCB	195		U		3.77		
2,2',3,3',4,4',5,6'-OxCB	196		U		4.55		
2,2',3,3',4,4',6'-OxCB	197	197 + 200	C U		3.63		
2,2',3,3',4,5,5',6'-OxCB	198	198 + 199	C U		4.84		
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5,6,6'-OxCB	201		U		3.67		
2,2',3,3',5,5',6,6'-OxCB	202		U		4.87		
2,2',3,4,4',5,5',6'-OxCB	203		U		4.60		
2,2',3,4,4',5,6,6'-OxCB	204		U		3.70		
2,3,3',4,4',5,5',6'-OxCB	205		U		2.53		
2,2',3,3',4,4',5,5',6'-NoCB	206		U		3.91		
2,2',3,3',4,4',5,6,6'-NoCB	207		U		3.36		
2,2',3,3',4,5,5',6,6'-NoCB	208		U		3.44		
2,2',3,3',4,4',5,5',6,6'-DeCB	209		U		3.94		

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_WG30100-101_Form1A_PB9C_331S4_SJ1078261_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 2
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: CANOLA OIL
Sample Receipt Date: N/A
Extraction Date: 10-Sep-2009
Analysis Date: 30-Oct-2009 Time: 11:23:44
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. N/A
Lab Sample I.D.: WG30100-101
Sample Size: 10.0 g
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 4
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 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	508	25.4	3.34	0.721
13C12-4-MoCB	3L			2000	599	29.9	3.22	0.860
13C12-2,2'-DiCB	4L			2000	673	33.6	1.63	0.875
13C12-4,4'-DiCB	15L			2000	814	40.7	1.57	1.254
13C12-2,2',6-TriCB	19L			2000	865	43.2	1.07	1.072
13C12-3,4,4'-TriCB	37L			2000	1200	60.1	1.02	1.092
13C12-2,2',6,6'-TeCB	54L			2000	1180	59.2	0.81	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1530	76.3	0.80	1.396
13C12-3,4,4',5'-TeCB	81L			2000	1290	64.3	0.80	1.373
13C12-2,2',4,6,6'-PeCB	104L			2000	1470	73.3	1.63	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1640	82.1	1.57	1.200
13C12-2,3,4,4',5'-PeCB	114L			2000	1440	72.0	1.58	1.180
13C12-2,3',4,4',5'-PeCB	118L			2000	1480	74.0	1.55	1.162
13C12-2',3,4,4',5'-PeCB	123L			2000	1500	74.8	1.56	1.151
13C12-3,3',4,4',5'-PeCB	126L			2000	1460	73.1	1.54	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1590	79.6	1.28	0.785
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	4000	3250	81.3	1.27	1.108
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1640	82.1	1.29	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1670	83.5	1.29	1.191
13C12-2,2',3,3',4,4',5'-HpCB	170L			2000	1460	73.1	1.07	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1430	71.7	1.06	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1740	86.8	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1480	74.2	1.03	0.959
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			2000	1630	81.6	0.94	0.818
13C12-2,3,3',4,4',5,5',6-OcCB	205L			2000	2150	107	0.95	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	1870	93.4	0.82	1.043
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1690	84.4	0.83	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	2030	102	1.21	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1130	56.7	1.05	0.925
13C12-2,3,3',5,5'-PeCB	111L			2000	1900	95.2	1.61	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1610	80.6	1.06	1.012

(1) Suffix "L" indicates labeled compound.
 (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
 (3) R% = percent recovery of labeled compounds.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



**Form 8A
PCB CONGENER ONGOING PRECISION AND RECOVERY (OPR)**

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4574	Lab Sample I.D.:	WG30100-102
Matrix:	CANOLA OIL	Initial Calibration Date:	01-Sep-2009
Extraction Date:	10-Sep-2009	Instrument ID:	HR GC/MS
Analysis Date:	30-Oct-2009 Time: 09:14:54	GC Column ID:	SPB OCTYL
Extract Volume (uL):	20	OPR Data Filename:	PB9C_331 S: 2
Injection Volume (uL):	1.0	Blank Data Filename:	PB9C_331 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB9C_331 S: 1

CONCENTRATIONS REPORTED ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
2-MoCB	1			3.08	50.0	46.4	25.0 - 75.0	92.8
4-MoCB	3			3.09	50.0	45.8	25.0 - 75.0	91.7
2,2'-DiCB	4			1.51	50.0	45.4	25.0 - 75.0	90.9
4,4'-DiCB	15			1.50	50.0	42.8	25.0 - 75.0	85.6
2,2',6-TriCB	19			1.05	50.0	47.9	25.0 - 75.0	95.8
3,4,4'-TriCB	37			1.02	50.0	45.0	25.0 - 75.0	89.9
2,2',6,6'-TeCB	54			0.80	50.0	48.0	25.0 - 75.0	95.9
3,3',4,4'-TeCB	77			0.76	50.0	43.8	25.0 - 75.0	87.5
3,4,4',5-TeCB	81			0.76	50.0	45.4	25.0 - 75.0	90.7
2,2',4,6,6'-PeCB	104			1.58	50.0	48.8	25.0 - 75.0	97.6
2,3,3',4,4'-PeCB	105			1.53	50.0	43.9	25.0 - 75.0	87.7
2,3,4,4',5-PeCB	114			1.54	50.0	44.2	25.0 - 75.0	88.4
2,3',4,4',5-PeCB	118			1.49	50.0	46.4	25.0 - 75.0	92.9
2',3,4,4',5-PeCB	123			1.48	50.0	45.7	25.0 - 75.0	91.4
3,3',4,4',5-PeCB	126			1.56	50.0	47.0	25.0 - 75.0	94.1
2,2',4,4',6,6'-HxCB	155			1.23	50.0	48.9	25.0 - 75.0	97.8
2,3,3',4,4',5-HxCB	156	156 + 157	C	1.25	100	95.5	50.0 - 150	95.5
2,3,3',4,4',5',5'-HxCB	157	156 + 157	C156					
2,3',4,4',5,5',5'-HxCB	167			1.24	50.0	47.2	25.0 - 75.0	94.3
3,3',4,4',5,5',5'-HxCB	169			1.24	50.0	47.3	25.0 - 75.0	94.5
2,2',3,4',5,6,6'-HpCB	188			1.04	50.0	48.0	25.0 - 75.0	96.0
2,3,3',4,4',5,5',5'-HpCB	189			0.99	50.0	45.1	25.0 - 75.0	90.3
2,2',3,3',5,5',6,6'-OcCB	202			0.94	50.0	48.5	25.0 - 75.0	97.0
2,3,3',4,4',5,5',6-OcCB	205			0.88	50.0	48.1	25.0 - 75.0	96.1
2,2',3,3',4,4',5,5',6-NoCB	206			0.78	50.0	46.6	25.0 - 75.0	93.2
2,2',3,3',4,5,5',6,6'-NoCB	208			0.78	50.0	47.1	25.0 - 75.0	94.2
2,2',3,3',4,4',5,5',6,6'-DeCB	209			0.70	50.0	47.5	25.0 - 75.0	95.0

(1) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16688A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLtransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_WG30100-102_Form8A_SJ1078256.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



PCB CONGENER ONGOING PRECISION AND RECOVERY (OPR)

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4574	Lab Sample I.D.:	WG30100-102
Matrix:	CANOLA OIL	Initial Calibration Date:	01-Sep-2009
Extraction Date:	10-Sep-2009	Instrument ID:	HR GC/MS
Analysis Date:	30-Oct-2009 Time: 09:14:54	GC Column ID:	SPB OCTYL
Extract Volume (uL):	20	OPR Data Filename:	PB9C_331 S: 2
Injection Volume (uL):	1.0	Blank Data Filename:	PB9C_331 S: 4
Dilution Factor:	N/A	Cal. Ver. Data Filename:	PB9C_331 S: 1

CONCENTRATIONS REPORTED ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 uL EXTRACT VOLUME.

LABELLED COMPOUND	IUPAC NO. ¹	CO-ELUTIONS	LAB FLAG ²	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
13C12-2-MoCB	1L			3.24	100	18.9	15.0 - 140	18.9
13C12-4-MoCB	3L			3.28	100	23.8	15.0 - 140	23.8
13C12-2,2'-DiCB	4L		V	1.58	100	27.9	30.0 - 140	27.9
13C12-4,4'-DiCB	15L			1.57	100	35.8	30.0 - 140	35.8
13C12-2,2',6-TriCB	19L			1.07	100	40.4	30.0 - 140	40.4
13C12-3,4,4'-TriCB	37L			1.03	100	49.8	30.0 - 140	49.8
13C12-2,2',6,6'-TeCB	54L			0.81	100	55.6	30.0 - 140	55.6
13C12-3,3',4,4'-TeCB	77L			0.80	100	66.7	30.0 - 140	66.7
13C12-3,4,4',5'-TeCB	81L			0.81	100	58.0	30.0 - 140	58.0
13C12-2,2',4,6,6'-PeCB	104L			1.60	100	69.5	30.0 - 140	69.5
13C12-2,3,3',4,4'-PeCB	105L			1.56	100	72.6	30.0 - 140	72.6
13C12-2,3,4,4',5'-PeCB	114L			1.61	100	65.2	30.0 - 140	65.2
13C12-2,3',4,4',5'-PeCB	118L			1.56	100	65.4	30.0 - 140	65.4
13C12-2',3,4,4',5'-PeCB	123L			1.56	100	66.6	30.0 - 140	66.6
13C12-3,3',4,4',5'-PeCB	126L			1.55	100	65.0	30.0 - 140	65.0
13C12-2,2',4,4',6,6'-HxCB	155L			1.27	100	73.7	30.0 - 140	73.7
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	1.30	200	150	60.0 - 280	74.8
13C12-2,3,3',4,4',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			1.30	100	75.8	30.0 - 140	75.8
13C12-3,3',4,4',5,5'-HxCB	169L			1.28	100	76.5	30.0 - 140	76.5
13C12-2,2',3,4',5,6,6'-HpCB	188L			1.06	100	85.8	30.0 - 140	85.8
13C12-2,3,3',4,4',5,5'-HpCB	189L			1.06	100	68.7	30.0 - 140	68.7
13C12-2,2',3,3',5,5',6,6'-OcCB	202L			0.94	100	82.2	30.0 - 140	82.2
13C12-2,3,3',4,4',5,5',6-OcCB	205L			0.96	100	103	30.0 - 140	103
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			0.81	100	95.6	30.0 - 140	95.6
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			0.83	100	80.4	30.0 - 140	80.4
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			1.16	100	108	30.0 - 140	108

CLEANUP STANDARD

13C12-2,4,4'-TriCB	28L			1.05	100	51.6	40.0 - 125	51.6
13C12-2,3,3',5,5'-PeCB	111L			1.58	100	89.2	40.0 - 125	89.2
13C12-2,2',3,3',5,5',6-HpCB	178L			1.07	100	74.3	40.0 - 125	74.3

(1) Suffix "L" indicates labeled compound.

(2) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits; C = co-eluting congener.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
(Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4574	Project No.:	SOC RBS SPRING FYKE NET 2009
Matrix:	TISSUE	Lab Sample I.D.:	WG30100-103 (DUP L13452-7)
Sample Receipt Date:	01-Sep-2009	Sample Size:	10.9 g (wet)
Extraction Date:	10-Sep-2009	Initial Calibration Date:	01-Sep-2009
Analysis Date:	30-Oct-2009 Time: 17:50:21	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	SPB OCTYL
Injection Volume (uL):	1.0	Sample Data Filename:	PB9C_331 S: 10
Dilution Factor:	N/A	Blank Data Filename:	PB9C_331 S: 4
Concentration Units:	pg/g (wet weight basis)	Cal. Ver. Data Filename:	PB9C_331 S: 1
		% Moisture:	79.4
		% Lipid:	1.61

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.194	0.0622	2.94	1.001
3-MoCB	2		B	0.268	0.0693	3.02	0.987
4-MoCB	3		B	0.265	0.0707	3.52	1.000
2,2'-DiCB	4		K	0.782	0.382	1.90	1.000
2,3-DiCB	5		U		0.248		
2,3'-DiCB	6			0.512	0.215	1.60	1.174
2,4-DiCB	7		U		0.216		
2,4'-DiCB	8		B	3.15	0.194	1.62	1.206
2,5-DiCB	9		U		0.214		
2,6-DiCB	10		U		0.205		
3,3'-DiCB	11		B	3.92	0.245	1.62	0.970
3,4-DiCB	12	12 + 13	C U		0.245		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		0.234		
4,4'-DiCB	15		K	0.341	0.231	2.34	1.000
2,2',3-TriCB	16			2.22	0.0631	0.98	1.165
2,2',4-TriCB	17		B	3.84	0.0575	1.02	1.136
2,2',5-TriCB	18	18 + 30	C B	10.0	0.0477	1.09	1.112
2,2',6-TriCB	19			1.09	0.0745	1.12	1.001
2,3,3'-TriCB	20	20 + 28	C B	82.1	0.0618	1.02	0.847
2,3,4-TriCB	21	21 + 33	C B	13.0	0.0574	1.06	0.857
2,3,4'-TriCB	22		B	13.4	0.0684	1.04	0.872
2,3,5-TriCB	23		U		0.0626		
2,3,6-TriCB	24			0.215	0.0459	0.90	1.157
2,3',4-TriCB	25			5.14	0.0516	1.01	0.825
2,3',5-TriCB	26	26 + 29	C B	9.05	0.0621	1.01	1.299
2,3',6-TriCB	27			1.21	0.0459	1.06	1.150
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		B	38.3	0.0569	1.02	0.836
2,4',6-TriCB	32			5.60	0.0552	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	0.186	0.0617	1.24	1.272
3,3',4-TriCB	35		U		0.0792		
3,3',5-TriCB	36		U		0.0650		
3,4,4'-TriCB	37		B	3.54	0.0637	0.96	1.001
3,4,5-TriCB	38			0.446	0.0646	0.98	1.001



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	0.655	0.0667	1.24	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	46.8	0.0459	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	44.5	0.0459	0.79	1.310
2,2',3,5'-TeCB	43			4.01	0.0459	0.76	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	187	0.0459	0.78	1.284
2,2',3,6'-TeCB	45	45 + 51	C	9.33	0.0459	0.78	1.146
2,2',3,6'-TeCB	46			1.95	0.0459	0.74	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	11.9	0.0459	0.79	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	142	0.0459	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	11.2	0.0459	0.78	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	231	0.0459	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	0.102	0.0459	0.59	1.001
2,3,3',4'-TeCB	55		U		0.476		
2,3,3',4'-TeCB	56		B	82.7	0.476	0.76	0.905
2,3,3',5'-TeCB	57			2.14	0.434	0.84	0.843
2,3,3',5'-TeCB	58			2.27	0.414	0.81	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	19.9	0.0459	0.78	1.300
2,3,4,4'-TeCB	60		B	59.6	0.478	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	465	0.426	0.77	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			22.9	0.430	0.77	0.864
2,3,4',6'-TeCB	64		B	62.9	0.0459	0.78	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	331	0.431	0.76	0.884
2,3',4,5'-TeCB	67			8.72	0.390	0.79	0.856
2,3',4,5'-TeCB	68			9.51	0.415	0.75	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			10.7	0.419	0.75	0.822
2,3',5',6'-TeCB	73		U		0.0459		
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		B	18.8	0.386	0.77	1.000
3,3',4,5'-TeCB	78		U		0.508		
3,3',4,5'-TeCB	79			11.8	0.390	0.76	0.969
3,3',5,5'-TeCB	80		U		0.433		
3,4,4',5'-TeCB	81		K	0.742	0.438	0.94	1.000
2,2',3,3',4'-PeCB	82			42.8	0.159	1.57	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	1110	0.140	1.58	0.885
2,2',3,3',6'-PeCB	84		B	63.1	0.146	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	205	0.122	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	445	0.120	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	92.0	0.129	1.58	1.154
2,2',3,4,6'-PeCB	89			1.52	0.140	1.71	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	1090	0.117	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	210	0.139	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	412	0.123	1.58	1.122
2,2',3,5,6'-PeCB	94			2.69	0.136	1.56	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			0.704	0.0632	1.72	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			18.2	0.114	1.59	1.093
2,2',4,6,6'-PeCB	104		K	0.106	0.0891	1.29	1.001
2,3,3',4,4'-PeCB	105		B	376	2.21	1.53	1.000
2,3,3',4,5-PeCB	106		U		2.41		
2,3,3',4',5-PeCB	107	107 + 124	C	27.0	2.58	1.52	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			166	2.56	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	618	0.107	1.57	0.925
2,3,3',5,5'-PeCB	111			6.94	0.106	1.54	0.945
2,3,3',5,6-PeCB	112		U		0.104		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			21.6	2.47	1.54	1.001
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		B	1220	2.13	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			27.4	0.106	1.58	0.958
2,3',4,5',6-PeCB	121			1.35	0.105	1.42	1.198
2',3,3',4,5-PeCB	122			5.73	2.88	1.63	1.010
2',3,4,4',5-PeCB	123			18.0	2.53	1.51	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			3.81	2.98	1.49	1.000
3,3',4,5,5'-PeCB	127		U		2.76		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	596	3.66	1.24	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	4590	3.63	1.26	0.929
2,2',3,3',4,5'-HxCB	130			221	4.69	1.25	0.913
2,2',3,3',4,6-HxCB	131			11.3	3.98	1.33	1.161
2,2',3,3',4,6'-HxCB	132			321	4.31	1.25	1.177
2,2',3,3',5,5'-HxCB	133			101	3.98	1.28	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	86.7	4.11	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	881	0.0579	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	122	0.0459	1.25	1.026
2,2',3,4,4',5-HxCB	137			70.7	4.37	1.24	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	39.6	3.73	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			205	3.93	1.27	0.904
2,2',3,4,5,6-HxCB	142		U		4.22		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			71.6	0.0609	1.27	1.123
2,2',3,4,6,6'-HxCB	145		K	0.274	0.0459	0.55	1.036
2,2',3,4',5,5'-HxCB	146		B	1140	3.60	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	1840	3.64	1.25	1.134
2,2',3,4',5,6'-HxCB	148			13.8	0.0580	1.22	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			6.43	0.0459	1.27	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.183	0.0459	1.08	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	6240	3.06	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			3.63	0.0459	1.19	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	198	3.71	1.24	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	208	2.84	1.26	0.938
2,3,3',4,5,5'-HxCB	159			16.7	3.10	1.28	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		2.96		
2,3,3',4',5,5'-HxCB	162			16.2	3.25	1.30	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			90.3	3.07	1.27	0.922
2,3,3',5,5',6-HxCB	165			9.83	3.37	1.20	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			112	2.67	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		4.36		
2,2',3,3',4,4',5-HpCB	170			482	0.0805	1.06	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	210	0.0879	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			111	0.0847	1.07	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			267	0.0802	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			46.1	0.0811	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			64.6	0.0583	1.04	1.035
2,2',3,3',4',5,6-HpCB	177			650	0.0771	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			339	0.0798	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	239	0.0566	1.06	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	1600	0.0624	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			3.62	0.0857	1.11	1.156
2,2',3,4,4',5,6'-HpCB	182			7.54	0.0815	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	670	0.0828	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			4.18	0.0561	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.0630		
2,2',3,4',5,5',6-HpCB	187		B	2630	0.0761	1.05	1.109
2,2',3,4',5,6,6'-HpCB	188			9.78	0.0522	1.05	1.000
2,3,3',4,4',5,5'-HpCB	189			18.5	0.203	0.98	1.001
2,3,3',4,4',5,6-HpCB	190			93.8	0.0611	1.05	0.948
2,3,3',4,4',5',6-HpCB	191			21.5	0.0621	1.05	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.0722		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			260	0.135	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			90.0	0.153	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			167	0.0561	0.92	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	41.8	0.0459	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	415	0.0597	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			78.8	0.0459	0.89	1.023
2,2',3,3',5,5',6,6'-OxCB	202			215	0.0554	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			256	0.0567	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	0.794	0.0459	1.09	1.038
2,3,3',4,4',5,5',6-OxCB	205			12.6	0.109	0.90	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	300	0.100	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	45.5	0.0642	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			142	0.0510	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			220	0.0459	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_WG30100-103_Form1A_PB9C_331S10_SJ1078273.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
(Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4574	Project No.:	SOC RBS SPRING FYKE NET 2009
Matrix:	TISSUE	Lab Sample I.D.:	WG30100-103 (DUP L13452-7)
Sample Receipt Date:	01-Sep-2009	Sample Size:	2.24 g (dry)
Extraction Date:	10-Sep-2009	Initial Calibration Date:	01-Sep-2009
Analysis Date:	30-Oct-2009 Time: 17:50:21	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	SPB OCTYL
Injection Volume (uL):	1.0	Sample Data Filename:	PB9C_331 S: 10
Dilution Factor:	N/A	Blank Data Filename:	PB9C_331 S: 4
Concentration Units:	pg/g (dry weight basis)	Cal. Ver. Data Filename:	PB9C_331 S: 1
		% Moisture:	79.4
		% Lipid:	1.61

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	0.945	0.302	2.94	1.001
3-MoCB	2		B	1.30	0.337	3.02	0.987
4-MoCB	3		B	1.29	0.344	3.52	1.000
2,2'-DiCB	4		K	3.80	1.86	1.90	1.000
2,3-DiCB	5		U		1.20		
2,3'-DiCB	6			2.49	1.05	1.60	1.174
2,4-DiCB	7		U		1.05		
2,4'-DiCB	8		B	15.3	0.945	1.62	1.206
2,5-DiCB	9		U		1.04		
2,6-DiCB	10		U		1.00		
3,3'-DiCB	11		B	19.1	1.19	1.62	0.970
3,4-DiCB	12	12 + 13	C U		1.19		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		1.14		
4,4'-DiCB	15		K	1.66	1.13	2.34	1.000
2,2',3-TriCB	16			10.8	0.307	0.98	1.165
2,2',4-TriCB	17		B	18.7	0.280	1.02	1.136
2,2',5-TriCB	18	18 + 30	C B	48.6	0.232	1.09	1.112
2,2',6-TriCB	19			5.30	0.363	1.12	1.001
2,3,3'-TriCB	20	20 + 28	C B	399	0.301	1.02	0.847
2,3,4-TriCB	21	21 + 33	C B	63.2	0.279	1.06	0.857
2,3,4'-TriCB	22		B	65.2	0.333	1.04	0.872
2,3,5-TriCB	23		U		0.305		
2,3,6-TriCB	24			1.05	0.223	0.90	1.157
2,3',4-TriCB	25			25.0	0.251	1.01	0.825
2,3',5-TriCB	26	26 + 29	C B	44.0	0.302	1.01	1.299
2,3',6-TriCB	27			5.88	0.223	1.06	1.150
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		B	186	0.277	1.02	0.836
2,4',6-TriCB	32			27.2	0.269	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	0.906	0.300	1.24	1.272
3,3',4-TriCB	35		U		0.385		
3,3',5-TriCB	36		U		0.316		
3,4,4'-TriCB	37		B	17.2	0.309	0.96	1.001
3,4,5-TriCB	38			2.17	0.314	0.98	1.001



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5'-TriCB	39		K	3.19	0.324	1.24	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	227	0.223	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	216	0.223	0.79	1.310
2,2',3,5'-TeCB	43			19.5	0.223	0.76	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	906	0.223	0.78	1.284
2,2',3,6'-TeCB	45	45 + 51	C	45.4	0.223	0.78	1.146
2,2',3,6'-TeCB	46			9.45	0.223	0.74	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	57.9	0.223	0.79	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	691	0.223	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	54.5	0.223	0.78	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	1130	0.223	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	0.496	0.223	0.59	1.001
2,3,3',4'-TeCB	55		U		2.31		
2,3,3',4'-TeCB	56		B	402	2.31	0.76	0.905
2,3,3',5'-TeCB	57			10.4	2.11	0.84	0.843
2,3,3',5'-TeCB	58			11.0	2.02	0.81	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	96.9	0.223	0.78	1.300
2,3,4,4'-TeCB	60		B	290	2.32	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	2260	2.07	0.77	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			112	2.09	0.77	0.864
2,3,4',6'-TeCB	64		B	305	0.223	0.78	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	1610	2.09	0.76	0.884
2,3',4,5'-TeCB	67			42.4	1.90	0.79	0.856
2,3',4,5'-TeCB	68			46.3	2.02	0.75	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			52.0	2.04	0.75	0.822
2,3',5',6'-TeCB	73		U		0.223		
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		B	91.4	1.88	0.77	1.000
3,3',4,5'-TeCB	78		U		2.47		
3,3',4,5'-TeCB	79			57.3	1.90	0.76	0.969
3,3',5,5'-TeCB	80		U		2.10		
3,4,4',5'-TeCB	81		K	3.61	2.13	0.94	1.000
2,2',3,3',4'-PeCB	82			208	0.773	1.57	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	5400	0.680	1.58	0.885
2,2',3,3',6'-PeCB	84		B	307	0.710	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	1000	0.593	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	2160	0.584	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	448	0.627	1.58	1.154
2,2',3,4,6'-PeCB	89			7.39	0.680	1.71	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	5300	0.569	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	1020	0.676	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	2000	0.598	1.58	1.122
2,2',3,5,6'-PeCB	94			13.0	0.661	1.56	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			3.42	0.307	1.72	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			88.3	0.554	1.59	1.093
2,2',4,6,6'-PeCB	104		K	0.516	0.433	1.29	1.001
2,3,3',4,4'-PeCB	105		B	1830	10.8	1.53	1.000
2,3,3',4,5-PeCB	106		U		11.7		
2,3,3',4',5-PeCB	107	107 + 124	C	131	12.6	1.52	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			805	12.4	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	3010	0.520	1.57	0.925
2,3,3',5,5'-PeCB	111			33.8	0.516	1.54	0.945
2,3,3',5,6-PeCB	112		U		0.505		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			105	12.0	1.54	1.001
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		B	5930	10.4	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			134	0.516	1.58	0.958
2,3',4,5',6-PeCB	121			6.56	0.510	1.42	1.198
2',3,3',4,5-PeCB	122			27.9	14.0	1.63	1.010
2',3,4,4',5-PeCB	123			87.5	12.3	1.51	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			18.5	14.5	1.49	1.000
3,3',4,5,5'-PeCB	127		U		13.4		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	2900	17.8	1.24	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	22300	17.7	1.26	0.929
2,2',3,3',4,5'-HxCB	130			1080	22.8	1.25	0.913
2,2',3,3',4,6-HxCB	131			54.9	19.4	1.33	1.161
2,2',3,3',4,6'-HxCB	132			1560	20.9	1.25	1.177
2,2',3,3',5,5'-HxCB	133			491	19.4	1.28	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	422	20.0	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	4280	0.281	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	593	0.223	1.25	1.026
2,2',3,4,4',5-HxCB	137			344	21.3	1.24	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	192	18.1	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			1000	19.1	1.27	0.904
2,2',3,4,5,6-HxCB	142		U		20.5		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			348	0.296	1.27	1.123
2,2',3,4,6,6'-HxCB	145		K	1.34	0.223	0.55	1.036
2,2',3,4',5,5'-HxCB	146		B	5540	17.5	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	8980	17.7	1.25	1.134
2,2',3,4',5,6'-HxCB	148			67.1	0.282	1.22	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			31.3	0.223	1.27	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			0.891	0.223	1.08	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	30300	14.8	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			17.7	0.223	1.19	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	961	18.0	1.24	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	1010	13.8	1.26	0.938
2,3,3',4,5,5'-HxCB	159			81.3	15.1	1.28	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		14.4		
2,3,3',4',5,5'-HxCB	162			78.9	15.8	1.30	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			439	14.9	1.27	0.922
2,3,3',5,5',6-HxCB	165			47.8	16.4	1.20	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			545	13.0	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		21.2		
2,2',3,3',4,4',5-HpCB	170			2340	0.391	1.06	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	1020	0.427	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			540	0.412	1.07	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			1300	0.390	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			224	0.395	1.05	1.102
2,2',3,3',4,6',6-HpCB	176			314	0.284	1.04	1.035
2,2',3,3',4',5,6-HpCB	177			3160	0.375	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			1650	0.388	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	1160	0.275	1.06	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	7780	0.303	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			17.6	0.416	1.11	1.156
2,2',3,4,4',5,6'-HpCB	182			36.6	0.396	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	3260	0.402	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			20.3	0.273	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		0.306		
2,2',3,4',5,5',6-HpCB	187		B	12800	0.370	1.05	1.109
2,2',3,4',5,6,6'-HpCB	188			47.6	0.254	1.05	1.000
2,3,3',4,4',5,5'-HpCB	189			89.8	0.984	0.98	1.001
2,3,3',4,4',5,6-HpCB	190			456	0.297	1.05	0.948
2,3,3',4,4',5',6-HpCB	191			105	0.302	1.05	0.918
2,3,3',4,5,5',6-HpCB	192		U		0.351		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			1270	0.656	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			438	0.744	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			813	0.273	0.92	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	203	0.223	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	2020	0.291	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			383	0.223	0.89	1.023
2,2',3,3',5,5',6,6'-OxCB	202			1050	0.270	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			1240	0.276	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	3.86	0.223	1.09	1.038
2,3,3',4,4',5,5',6-OxCB	205			61.3	0.530	0.90	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	1460	0.486	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	221	0.313	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			691	0.248	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			1070	0.223	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____Shelley Facchin_____ QA/QC Chemist

For Axy's Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_WG30100-103_Form1A_PB9C_331S10_SJ1078273_Dry.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



Form 1A
PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
(Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.:	4574	Project No.:	SOC RBS SPRING FYKE NET 2009
Matrix:	TISSUE	Lab Sample I.D.:	WG30100-103 (DUP L13452-7)
Sample Receipt Date:	01-Sep-2009	Sample Size:	0.175 g (lipid)
Extraction Date:	10-Sep-2009	Initial Calibration Date:	01-Sep-2009
Analysis Date:	30-Oct-2009 Time: 17:50:21	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	SPB OCTYL
Injection Volume (uL):	1.0	Sample Data Filename:	PB9C_331 S: 10
Dilution Factor:	N/A	Blank Data Filename:	PB9C_331 S: 4
Concentration Units:	pg/g (lipid weight basis)	Cal. Ver. Data Filename:	PB9C_331 S: 1
		% Moisture:	79.4
		% Lipid:	1.61

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2-MoCB	1		B	12.1	3.87	2.94	1.001
3-MoCB	2		B	16.7	4.31	3.02	0.987
4-MoCB	3		B	16.5	4.40	3.52	1.000
2,2'-DiCB	4		K	48.7	23.8	1.90	1.000
2,3-DiCB	5		U		15.4		
2,3'-DiCB	6			31.9	13.4	1.60	1.174
2,4-DiCB	7		U		13.4		
2,4'-DiCB	8		B	196	12.1	1.62	1.206
2,5-DiCB	9		U		13.3		
2,6-DiCB	10		U		12.8		
3,3'-DiCB	11		B	244	15.2	1.62	0.970
3,4-DiCB	12	12 + 13	C U		15.2		
3,4'-DiCB	13	12 + 13	C12				
3,5-DiCB	14		U		14.6		
4,4'-DiCB	15		K	21.2	14.4	2.34	1.000
2,2',3-TriCB	16			138	3.93	0.98	1.165
2,2',4-TriCB	17		B	239	3.58	1.02	1.136
2,2',5-TriCB	18	18 + 30	C B	622	2.97	1.09	1.112
2,2',6-TriCB	19			67.8	4.64	1.12	1.001
2,3,3'-TriCB	20	20 + 28	C B	5110	3.85	1.02	0.847
2,3,4-TriCB	21	21 + 33	C B	809	3.57	1.06	0.857
2,3,4'-TriCB	22		B	834	4.26	1.04	0.872
2,3,5-TriCB	23		U		3.90		
2,3,6-TriCB	24			13.4	2.86	0.90	1.157
2,3',4-TriCB	25			320	3.21	1.01	0.825
2,3',5-TriCB	26	26 + 29	C B	563	3.86	1.01	1.299
2,3',6-TriCB	27			75.3	2.86	1.06	1.150
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		B	2380	3.54	1.02	0.836
2,4',6-TriCB	32			348	3.44	1.02	1.196
2',3,4-TriCB	33	21 + 33	C21				
2',3,5-TriCB	34		K	11.6	3.84	1.24	1.272
3,3',4-TriCB	35		U		4.93		
3,3',5-TriCB	36		U		4.04		
3,4,4'-TriCB	37		B	220	3.96	0.96	1.001
3,4,5-TriCB	38			27.8	4.02	0.98	0.98



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
3,4',5-TriCB	39		K	40.8	4.15	1.24	0.945
2,2',3,3'-TeCB	40	40 + 41 + 71	C B	2910	2.86	0.79	1.336
2,2',3,4'-TeCB	41	40 + 41 + 71	C40				
2,2',3,4'-TeCB	42		B	2770	2.86	0.79	1.310
2,2',3,5'-TeCB	43			250	2.86	0.76	1.245
2,2',3,5'-TeCB	44	44 + 47 + 65	C B	11600	2.86	0.78	1.284
2,2',3,6'-TeCB	45	45 + 51	C	581	2.86	0.78	1.146
2,2',3,6'-TeCB	46			121	2.86	0.74	1.161
2,2',4,4'-TeCB	47	44 + 47 + 65	C44				
2,2',4,5'-TeCB	48		B	741	2.86	0.79	1.271
2,2',4,5'-TeCB	49	49 + 69	C B	8840	2.86	0.78	1.257
2,2',4,6'-TeCB	50	50 + 53	C B	697	2.86	0.78	1.110
2,2',4,6'-TeCB	51	45 + 51	C45				
2,2',5,5'-TeCB	52		B	14400	2.86	0.79	1.233
2,2',5,6'-TeCB	53	50 + 53	C50				
2,2',6,6'-TeCB	54		K	6.35	2.86	0.59	1.001
2,3,3',4'-TeCB	55		U		29.6		
2,3,3',4'-TeCB	56		B	5150	29.6	0.76	0.905
2,3,3',5'-TeCB	57			133	27.0	0.84	0.843
2,3,3',5'-TeCB	58			141	25.8	0.81	0.851
2,3,3',6'-TeCB	59	59 + 62 + 75	C B	1240	2.86	0.78	1.300
2,3,4,4'-TeCB	60		B	3710	29.7	0.76	0.911
2,3,4,5'-TeCB	61	61 + 70 + 74 + 76	C B	28900	26.5	0.77	0.875
2,3,4,6'-TeCB	62	59 + 62 + 75	C59				
2,3,4',5'-TeCB	63			1430	26.8	0.77	0.864
2,3,4',6'-TeCB	64		B	3910	2.86	0.78	1.347
2,3,5,6'-TeCB	65	44 + 47 + 65	C44				
2,3',4,4'-TeCB	66		B	20600	26.8	0.76	0.884
2,3',4,5'-TeCB	67			543	24.3	0.79	0.856
2,3',4,5'-TeCB	68			592	25.8	0.75	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			666	26.1	0.75	0.822
2,3',5',6'-TeCB	73		U		2.86		
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		B	1170	24.0	0.77	1.000
3,3',4,5'-TeCB	78		U		31.6		
3,3',4,5'-TeCB	79			734	24.3	0.76	0.969
3,3',5,5'-TeCB	80		U		26.9		
3,4,4',5'-TeCB	81		K	46.2	27.3	0.94	1.000
2,2',3,3',4'-PeCB	82			2660	9.89	1.57	0.935
2,2',3,3',5'-PeCB	83	83 + 99	C B	69100	8.71	1.58	0.885
2,2',3,3',6'-PeCB	84		B	3930	9.09	1.58	1.164
2,2',3,4,4'-PeCB	85	85 + 116 + 117	C B	12800	7.59	1.57	0.920
2,2',3,4,5'-PeCB	86	86 + 87 + 97 + 108 + 119 + 125	C B	27700	7.47	1.57	0.901
2,2',3,4,5'-PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6'-PeCB	88	88 + 91	C	5730	8.03	1.58	1.154
2,2',3,4,6'-PeCB	89			94.6	8.71	1.71	1.183
2,2',3,4',5'-PeCB	90	90 + 101 + 113	C B	67800	7.28	1.58	0.869
2,2',3,4',6'-PeCB	91	88 + 91	C88				
2,2',3,5,5'-PeCB	92		B	13100	8.65	1.57	0.853
2,2',3,5,6'-PeCB	93	93 + 95 + 98 + 100 + 102	C B	25600	7.65	1.58	1.122
2,2',3,5,6'-PeCB	94			167	8.46	1.56	1.102
2,2',3,5',6'-PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6'-PeCB	96			43.8	3.93	1.72	1.017
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				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,2',4,5',6-PeCB	103			1130	7.09	1.59	1.093
2,2',4,6,6'-PeCB	104		K	6.60	5.54	1.29	1.001
2,3,3',4,4'-PeCB	105		B	23400	138	1.53	1.000
2,3,3',4,5-PeCB	106		U		150		
2,3,3',4',5-PeCB	107	107 + 124	C	1680	161	1.52	0.991
2,3,3',4,5'-PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3,3',4,6-PeCB	109			10300	159	1.53	0.997
2,3,3',4',6-PeCB	110	110 + 115	C B	38500	6.66	1.57	0.925
2,3,3',5,5'-PeCB	111			432	6.60	1.54	0.945
2,3,3',5,6-PeCB	112		U		6.47		
2,3,3',5',6-PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5-PeCB	114			1340	154	1.54	1.001
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		B	75900	133	1.52	1.000
2,3',4,4',6-PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5'-PeCB	120			1710	6.60	1.58	0.958
2,3',4,5',6-PeCB	121			84.0	6.53	1.42	1.198
2',3,3',4,5-PeCB	122			357	179	1.63	1.010
2',3,4,4',5-PeCB	123			1120	157	1.51	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			237	185	1.49	1.000
3,3',4,5,5'-PeCB	127		U		172		
2,2',3,3',4,4'-HxCB	128	128 + 166	C B	37100	228	1.24	0.959
2,2',3,3',4,5-HxCB	129	129 + 138 + 160 + 163	C B	286000	226	1.26	0.929
2,2',3,3',4,5'-HxCB	130			13800	292	1.25	0.913
2,2',3,3',4,6-HxCB	131			703	248	1.33	1.161
2,2',3,3',4,6'-HxCB	132			20000	268	1.25	1.177
2,2',3,3',5,5'-HxCB	133			6290	248	1.28	1.192
2,2',3,3',5,6-HxCB	134	134 + 143	C	5400	256	1.27	1.142
2,2',3,3',5,6'-HxCB	135	135 + 151 + 154	C B	54800	3.60	1.26	1.105
2,2',3,3',6,6'-HxCB	136		B	7590	2.86	1.25	1.026
2,2',3,4,4',5-HxCB	137			4400	272	1.24	0.918
2,2',3,4,4',5'-HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6-HxCB	139	139 + 140	C	2460	232	1.25	1.154
2,2',3,4,4',6'-HxCB	140	139 + 140	C139				
2,2',3,4,5,5'-HxCB	141			12800	245	1.27	0.904
2,2',3,4,5,6-HxCB	142		U		263		
2,2',3,4,5,6'-HxCB	143	134 + 143	C134				
2,2',3,4,5',6-HxCB	144			4460	3.79	1.27	1.123
2,2',3,4,6,6'-HxCB	145		K	17.1	2.86	0.55	1.036
2,2',3,4',5,5'-HxCB	146		B	70900	224	1.26	0.884
2,2',3,4',5,6-HxCB	147	147 + 149	C B	115000	227	1.25	1.134
2,2',3,4',5,6'-HxCB	148			859	3.61	1.22	1.084
2,2',3,4',5',6-HxCB	149	147 + 149	C147				
2,2',3,4',6,6'-HxCB	150			400	2.86	1.27	1.014
2,2',3,5,5',6-HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6'-HxCB	152			11.4	2.86	1.08	1.008
2,2',4,4',5,5'-HxCB	153	153 + 168	C B	388000	190	1.26	0.898
2,2',4,4',5,6'-HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6'-HxCB	155			226	2.86	1.19	1.001
2,3,3',4,4',5-HxCB	156	156 + 157	C	12300	231	1.24	1.000
2,3,3',4,4',5'-HxCB	157	156 + 157	C156				
2,3,3',4,4',6-HxCB	158		B	12900	177	1.26	0.938
2,3,3',4,5,5'-HxCB	159			1040	193	1.28	0.981
2,3,3',4,5,6-HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6-HxCB	161		U		184		
2,3,3',4',5,5'-HxCB	162			1010	202	1.30	0.989
2,3,3',4',5,6-HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6-HxCB	164			5620	191	1.27	0.922
2,3,3',5,5',6-HxCB	165			612	210	1.20	0.878
2,3,4,4',5,6-HxCB	166	128 + 166	C128				



COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT	ION ABUND. RATIO	RRT
2,3',4,4',5,5'-HxCB	167			6970	166	1.27	1.000
2,3',4,4',5',6'-HxCB	168	153 + 168	C153				
3,3',4,4',5,5'-HxCB	169		U		271		
2,2',3,3',4,4',5-HpCB	170			30000	5.01	1.06	0.937
2,2',3,3',4,4',6-HpCB	171	171 + 173	C	13100	5.47	1.05	1.163
2,2',3,3',4,5,5'-HpCB	172			6910	5.27	1.07	0.897
2,2',3,3',4,5,6-HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6'-HpCB	174			16600	4.99	1.05	1.134
2,2',3,3',4,5',6-HpCB	175			2870	5.05	1.05	1.102
2,2',3,3',4,6,6'-HpCB	176			4020	3.63	1.04	1.035
2,2',3,3',4',5,6-HpCB	177			40400	4.80	1.05	1.146
2,2',3,3',5,5',6-HpCB	178			21100	4.97	1.06	1.085
2,2',3,3',5,6,6'-HpCB	179		B	14900	3.52	1.06	1.011
2,2',3,4,4',5,5'-HpCB	180	180 + 193	C B	99600	3.88	1.05	0.910
2,2',3,4,4',5,6-HpCB	181			225	5.33	1.11	1.156
2,2',3,4,4',5,6'-HpCB	182			469	5.07	1.01	1.116
2,2',3,4,4',5',6-HpCB	183	183 + 185	C B	41700	5.15	1.05	1.127
2,2',3,4,4',6,6'-HpCB	184			260	3.49	1.09	1.024
2,2',3,4,5,5',6-HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6'-HpCB	186		U		3.92		
2,2',3,4',5,5',6-HpCB	187		B	164000	4.74	1.05	1.109
2,2',3,4',5,6,6'-HpCB	188			609	3.25	1.05	1.000
2,3,3',4,4',5,5'-HpCB	189			1150	12.6	0.98	1.001
2,3,3',4,4',5,6-HpCB	190			5840	3.80	1.05	0.948
2,3,3',4,4',5',6-HpCB	191			1340	3.86	1.05	0.918
2,3,3',4,5,5',6-HpCB	192		U		4.49		
2,3,3',4',5,5',6-HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5'-OxCB	194			16200	8.40	0.90	0.991
2,2',3,3',4,4',5,6-OxCB	195			5600	9.52	0.90	0.946
2,2',3,3',4,4',5,6'-OxCB	196			10400	3.49	0.92	0.916
2,2',3,3',4,4',6,6'-OxCB	197	197 + 200	C	2600	2.86	0.89	1.045
2,2',3,3',4,5,5',6-OxCB	198	198 + 199	C	25800	3.72	0.90	1.115
2,2',3,3',4,5,5',6'-OxCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6'-OxCB	200	197 + 200	C197				
2,2',3,3',4,5',6,6'-OxCB	201			4900	2.86	0.89	1.023
2,2',3,3',5,5',6,6'-OxCB	202			13400	3.45	0.91	1.000
2,2',3,4,4',5,5',6-OxCB	203			15900	3.53	0.91	0.919
2,2',3,4,4',5,6,6'-OxCB	204		K	49.4	2.86	1.09	1.038
2,3,3',4,4',5,5',6-OxCB	205			784	6.78	0.90	1.000
2,2',3,3',4,4',5,5',6-NoCB	206		T	18700	6.22	0.79	1.000
2,2',3,3',4,4',5,6,6'-NoCB	207		T	2830	4.00	0.78	1.020
2,2',3,3',4,5,5',6,6'-NoCB	208			8840	3.17	0.78	1.001
2,2',3,3',4,4',5,5',6,6'-DeCB	209			13700	2.86	0.70	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; B = analyte found in sample and the associated blank; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

For Axy Internal Use Only [XSL Template: Form16681A.xsl; Created: 08-Jan-2010 09:30:45; Application: XMLTransformer-1.10.14; Report Filename: 1668_PCB1668_PCBTF_WG30100-103_Form1A_PB9C_331S10_SJ1078273_Lipid.html; Workgroup: WG30100; Design ID: 1193]

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.



PCB CONGENER ANALYSIS REPORT

CLIENT SAMPLE NO.
Deer Meadow Bk- 20 Males
(Duplicate)
Sample Collection:
N/A

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Contract No.: 4574
Matrix: TISSUE
Sample Receipt Date: 01-Sep-2009
Extraction Date: 10-Sep-2009
Analysis Date: 30-Oct-2009 Time: 17:50:21
Extract Volume (uL): 20
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: pg absolute

Project No. SOC RBS SPRING FYKE NET 2009
Lab Sample I.D.: WG30100-103 (DUP L13452-7)
Sample Size: 10.9 g (wet)
Initial Calibration Date: 01-Sep-2009
Instrument ID: HR GC/MS
GC Column ID: SPB OCTYL
Sample Data Filename: PB9C_331 S: 10
Blank Data Filename: PB9C_331 S: 4
Cal. Ver. Data Filename: PB9C_331 S: 1
% Moisture: 79.4
% Lipid: 1.61

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	359	17.9	3.26	0.722
13C12-4-MoCB	3L			2000	463	23.1	3.22	0.861
13C12-2,2'-DiCB	4L			2000	527	26.4	1.61	0.876
13C12-4,4'-DiCB	15L			2000	726	36.3	1.57	1.254
13C12-2,2',6-TriCB	19L			2000	739	37.0	1.08	1.073
13C12-3,4,4'-TriCB	37L			2000	1060	53.2	1.04	1.092
13C12-2,2',6,6'-TeCB	54L			2000	970	48.5	0.83	0.812
13C12-3,3',4,4'-TeCB	77L			2000	1400	70.0	0.81	1.396
13C12-3,4,4',5'-TeCB	81L			2000	1280	64.2	0.80	1.372
13C12-2,2',4,6,6'-PeCB	104L			2000	1090	54.6	1.62	0.809
13C12-2,3,3',4,4'-PeCB	105L			2000	1440	72.2	1.55	1.201
13C12-2,3,4,4',5'-PeCB	114L			2000	1230	61.5	1.57	1.179
13C12-2,3',4,4',5'-PeCB	118L			2000	1420	71.2	1.53	1.162
13C12-2',3,4,4',5'-PeCB	123L			2000	1260	62.8	1.55	1.151
13C12-3,3',4,4',5'-PeCB	126L			2000	1290	64.5	1.55	1.301
13C12-2,2',4,4',6,6'-HxCB	155L			2000	1060	53.2	1.27	0.785
13C12-2,3,3',4,4',5'-HxCB	156L	156L + 157L	C	4000	2460	61.4	1.29	1.107
13C12-2,3,3',4,4',5',5'-HxCB	157L	156L + 157L	C156L					
13C12-2,3',4,4',5,5'-HxCB	167L			2000	1230	61.4	1.31	1.077
13C12-3,3',4,4',5,5'-HxCB	169L			2000	1200	60.2	1.28	1.191
13C12-2,2',3,3',4,4',5'-HpCB	170L			2000	1310	65.3	1.06	0.897
13C12-2,2',3,4,4',5,5'-HpCB	180L			2000	1530	76.4	1.04	0.872
13C12-2,2',3,4',5,6,6'-HpCB	188L			2000	1370	68.6	1.06	0.712
13C12-2,3,3',4,4',5,5'-HpCB	189L			2000	1300	64.8	1.04	0.959
13C12-2,2',3,3',5,5',6,6'-OxCB	202L			2000	1440	71.8	0.92	0.818
13C12-2,3,3',4,4',5,5',6-OxCB	205L			2000	1600	79.9	0.94	1.009
13C12-2,2',3,3',4,4',5,5',6-NoCB	206L			2000	2640	132	0.86	1.044
13C12-2,2',3,3',4,5,5',6,6'-NoCB	208L			2000	1510	75.4	0.80	0.949
13C12-2,2',3,3',4,4',5,5',6,6'-DeCB	209L			2000	1570	78.5	1.16	1.075
CLEANUP STANDARD								
13C12-2,4,4'-TriCB	28L			2000	1020	51.2	1.03	0.924
13C12-2,3,3',5,5'-PeCB	111L			2000	1540	77.1	1.62	1.087
13C12-2,2',3,3',5,5',6-HpCB	178L			2000	1280	63.8	1.05	1.012

- (1) Suffix "L" indicates labeled compound.
- (2) Where applicable, custom lab flags have been used on this report; C = co-eluting congener.
- (3) R% = percent recovery of labeled compounds.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist



PCB CONGENER ANALYSIS REPORT
RELATIVE PERCENT DIFFERENCE

AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811

Project No.

SOC RBS SPRING FYKE NET 2009

Contract No.: 4574

Client ID: Deer Meadow Bk- 20 Males

Concentration Units: pg/g (wet weight basis)

COMPOUND	IUPAC NO.	L13452-7 (A)		WG30100-103		MEAN	RELATIVE PERCENT DIFFERENCE
		LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
2-MoCB	1	K	0.222		0.194		
3-MoCB	2		0.257		0.268	0.263	4.19
4-MoCB	3		0.244		0.265	0.255	8.25
2,2'-DiCB	4	K	0.871	K	0.782		
2,3-DiCB	5	U		U			
2,3'-DiCB	6	K	0.542		0.512		
2,4-DiCB	7	U		U			
2,4'-DiCB	8		3.09		3.15	3.12	1.96
2,5-DiCB	9	U		U			
2,6-DiCB	10	U		U			
3,3'-DiCB	11		3.42		3.92	3.67	13.6
3,4-DiCB	12	C U		C U			
3,4'-DiCB	13	C12		C12			
3,5-DiCB	14	U		U			
4,4'-DiCB	15		0.403	K	0.341		
2,2',3-TriCB	16		2.43		2.22	2.32	8.92
2,2',4-TriCB	17		3.99		3.84	3.92	3.86
2,2',5-TriCB	18	C	10.9	C	10.0	10.4	8.52
2,2',6-TriCB	19		0.983		1.09	1.04	10.4
2,3,3'-TriCB	20	C	82.2	C	82.1	82.2	0.204
2,3,4-TriCB	21	C	13.7	C	13.0	13.4	5.57
2,3,4'-TriCB	22		13.7		13.4	13.6	1.98
2,3,5-TriCB	23	U		U			
2,3,6-TriCB	24	K	0.208		0.215		
2,3',4-TriCB	25		5.01		5.14	5.07	2.72
2,3',5-TriCB	26	C	9.43	C	9.05	9.24	4.16
2,3',6-TriCB	27		1.40		1.21	1.30	15.0
2,4,4'-TriCB	28	C20		C20			
2,4,5-TriCB	29	C26		C26			
2,4,6-TriCB	30	C18		C18			
2,4',5-TriCB	31		38.4		38.3	38.4	0.438
2,4',6-TriCB	32		5.91		5.60	5.75	5.34
2',3,4-TriCB	33	C21		C21			
2',3,5-TriCB	34	K	0.170	K	0.186		
3,3',4-TriCB	35	U		U			
3,3',5-TriCB	36	U		U			
3,4,4'-TriCB	37		3.43		3.54	3.49	3.16
3,4,5-TriCB	38		0.425		0.446	0.436	4.82
3,4',5-TriCB	39		0.573	K	0.655		
2,2',3,3'-TeCB	40	C	47.6	C	46.8	47.2	1.68
2,2',3,4'-TeCB	41	C40		C40			
2,2',3,4'-TeCB	42		47.8		44.5	46.1	7.21
2,2',3,5'-TeCB	43		4.40		4.01	4.21	9.32
2,2',3,5'-TeCB	44	C	199	C	187	193	6.00
2,2',3,6'-TeCB	45	C	10.5	C	9.33	9.89	11.5
2,2',3,6'-TeCB	46		2.24		1.95	2.10	13.9
2,2',4,4'-TeCB	47	C44		C44			
2,2',4,5'-TeCB	48		13.1		11.9	12.5	9.89
2,2',4,5'-TeCB	49	C	154	C	142	148	8.09
2,2',4,6'-TeCB	50	C	12.8	C	11.2	12.0	13.5
2,2',4,6'-TeCB	51	C45		C45			
2,2',5,5'-TeCB	52		249		231	240	7.30
2,2',5,6'-TeCB	53	C50		C50			
2,2',6,6'-TeCB	54		0.089	K	0.102		
2,3,3',4'-TeCB	55	U		U			
2,3,3',4'-TeCB	56		77.6		82.7	80.2	6.37
2,3,3',5'-TeCB	57	U			2.14		
2,3,3',5'-TeCB	58		2.54		2.27	2.41	11.3
2,3,3',6'-TeCB	59	C	21.0	C	19.9	20.4	5.31
2,3,4,4'-TeCB	60		53.9		59.6	56.7	9.92



COMPOUND	IUPAC NO.	L13452-7 (A)		WG30100-103		MEAN	RELATIVE PERCENT DIFFERENCE
		LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
2,3,4,5-TeCB	61	C	449	C	465	457	3.51
2,3,4,6-TeCB	62	C59		C59			
2,3,4',5-TeCB	63		21.4		22.9	22.1	6.99
2,3,4',6-TeCB	64		65.3		62.9	64.1	3.69
2,3,5,6-TeCB	65	C44		C44			
2,3',4,4'-TeCB	66		324		331	328	2.14
2,3',4,5-TeCB	67		8.41		8.72	8.57	3.62
2,3',4,5'-TeCB	68	K	8.87		9.51		
2,3',4,6-TeCB	69	C49		C49			
2,3',4',5-TeCB	70	C61		C61			
2,3',4',6-TeCB	71	C40		C40			
2,3',5,5'-TeCB	72		10.0		10.7	10.4	6.60
2,3',5',6-TeCB	73	U		U			
2,4,4',5-TeCB	74	C61		C61			
2,4,4',6-TeCB	75	C59		C59			
2',3,4,5-TeCB	76	C61		C61			
3,3',4,4'-TeCB	77		18.3		18.8	18.6	3.04
3,3',4,5-TeCB	78	U		U			
3,3',4,5'-TeCB	79		10.5		11.8	11.2	11.0
3,3',5,5'-TeCB	80	U		U			
3,4,4',5-TeCB	81	U		K	0.742		
2,2',3,3',4-PeCB	82		42.9		42.8	42.9	0.275
2,2',3,3',5-PeCB	83	C	1120	C	1110	1110	0.578
2,2',3,3',6-PeCB	84		66.8		63.1	64.9	5.71
2,2',3,4,4'-PeCB	85	C	204	C	205	204	0.373
2,2',3,4,5-PeCB	86	C	444	C	445	444	0.131
2,2',3,4,5'-PeCB	87	C86		C86			
2,2',3,4,6-PeCB	88	C	97.3	C	92.0	94.6	5.58
2,2',3,4,6'-PeCB	89		1.38		1.52	1.45	9.75
2,2',3,4',5-PeCB	90	C	1120	C	1090	1110	3.25
2,2',3,4',6-PeCB	91	C88		C88			
2,2',3,5,5'-PeCB	92		215		210	212	2.42
2,2',3,5,6-PeCB	93	C	446	C	412	429	7.89
2,2',3,5,6'-PeCB	94		2.90		2.69	2.79	7.49
2,2',3,5',6-PeCB	95	C93		C93			
2,2',3,6,6'-PeCB	96		0.766		0.704	0.735	8.44
2,2',3',4,5-PeCB	97	C86		C86			
2,2',3',4,6-PeCB	98	C93		C93			
2,2',4,4',5-PeCB	99	C83		C83			
2,2',4,4',6-PeCB	100	C93		C93			
2,2',4,5,5'-PeCB	101	C90		C90			
2,2',4,5,6'-PeCB	102	C93		C93			
2,2',4,5',6-PeCB	103		19.7		18.2	19.0	7.78
2,2',4,6,6'-PeCB	104	K	0.176	K	0.106		
2,3,3',4,4'-PeCB	105		381		376	379	1.30
2,3,3',4,5-PeCB	106	U		U			
2,3,3',4',5-PeCB	107	C	26.0	C	27.0	26.5	3.75
2,3,3',4,5'-PeCB	108	C86		C86			
2,3,3',4,6-PeCB	109		166		166	166	0.155
2,3,3',4',6-PeCB	110	C	616	C	618	617	0.344
2,3,3',5,5'-PeCB	111		6.66		6.94	6.80	4.12
2,3,3',5,6-PeCB	112	U		U			
2,3,3',5',6-PeCB	113	C90		C90			
2,3,4,4',5-PeCB	114		20.4		21.6	21.0	5.61
2,3,4,4',6-PeCB	115	C110		C110			
2,3,4,5,6-PeCB	116	C85		C85			
2,3,4',5,6-PeCB	117	C85		C85			
2,3',4,4',5-PeCB	118		1220		1220	1220	0.534
2,3',4,4',6-PeCB	119	C86		C86			
2,3',4,5,5'-PeCB	120		27.3		27.4	27.3	0.432
2,3',4,5',6-PeCB	121		1.42		1.35	1.38	5.28
2',3,3',4,5-PeCB	122		5.97		5.73	5.85	4.26
2',3,4,4',5-PeCB	123		17.0		18.0	17.5	5.20
2',3,4,5,5'-PeCB	124	C107		C107			
2',3,4,5,6'-PeCB	125	C86		C86			
3,3',4,4',5-PeCB	126	U			3.81		
3,3',4,5,5'-PeCB	127	U		U			
2,2',3,3',4,4'-HxCB	128	C	554	C	596	575	7.36
2,2',3,3',4,5-HxCB	129	C	4520	C	4590	4550	1.67



COMPOUND	IUPAC NO.	L13452-7 (A)		WG30100-103		MEAN	RELATIVE PERCENT DIFFERENCE
		LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
2,2',3,3',4,5'-HxCB	130		220		221	221	0.545
2,2',3,3',4,6'-HxCB	131		11.6		11.3	11.4	2.81
2,2',3,3',4,6'-HxCB	132		321		321	321	0.040
2,2',3,3',5,5'-HxCB	133		102		101	101	0.834
2,2',3,3',5,6'-HxCB	134	C	86.6	C	86.7	86.6	0.142
2,2',3,3',5,6'-HxCB	135	C	880	C	881	880	0.119
2,2',3,3',6,6'-HxCB	136		126		122	124	3.96
2,2',3,4,4',5-HxCB	137		70.4		70.7	70.5	0.374
2,2',3,4,4',5'-HxCB	138	C129		C129			
2,2',3,4,4',6-HxCB	139	C	40.6	C	39.6	40.1	2.41
2,2',3,4,4',6'-HxCB	140	C139		C139			
2,2',3,4,5,5'-HxCB	141		203		205	204	1.05
2,2',3,4,5,6-HxCB	142	U		U			
2,2',3,4,5,6'-HxCB	143	C134		C134			
2,2',3,4,5',6-HxCB	144		73.7		71.6	72.6	3.01
2,2',3,4,6,6'-HxCB	145		0.406	K	0.274		
2,2',3,4',5,5'-HxCB	146		1120		1140	1130	2.39
2,2',3,4',5,6-HxCB	147	C	1840	C	1840	1840	0.216
2,2',3,4',5,6'-HxCB	148		14.1		13.8	13.9	1.64
2,2',3,4',5',6-HxCB	149	C147		C147			
2,2',3,4',6,6'-HxCB	150		6.99		6.43	6.71	8.29
2,2',3,5,5',6-HxCB	151	C135		C135			
2,2',3,5,6,6'-HxCB	152		0.263		0.183	0.223	35.9
2,2',4,4',5,5'-HxCB	153	C	6360	C	6240	6300	1.92
2,2',4,4',5,6'-HxCB	154	C135		C135			
2,2',4,4',6,6'-HxCB	155		3.66		3.63	3.64	0.686
2,3,3',4,4',5-HxCB	156	C	198	C	198	198	0.239
2,3,3',4,4',5'-HxCB	157	C156		C156			
2,3,3',4,4',6-HxCB	158		199		208	204	4.30
2,3,3',4,5,5'-HxCB	159		16.8		16.7	16.8	0.883
2,3,3',4,5,6-HxCB	160	C129		C129			
2,3,3',4,5',6-HxCB	161	U		U			
2,3,3',4',5,5'-HxCB	162		15.3		16.2	15.7	5.49
2,3,3',4',5,6-HxCB	163	C129		C129			
2,3,3',4',5',6-HxCB	164		88.5		90.3	89.4	2.05
2,3,3',5,5',6-HxCB	165		9.39		9.83	9.61	4.60
2,3,4,4',5,6-HxCB	166	C128		C128			
2,3',4,4',5,5'-HxCB	167		111		112	111	1.57
2,3',4,4',5',6-HxCB	168	C153		C153			
3,3',4,4',5,5'-HxCB	169	U		U			
2,2',3,3',4,4',5-HpCB	170		485		482	484	0.602
2,2',3,3',4,4',6-HpCB	171	C	204	C	210	207	2.79
2,2',3,3',4,5,5'-HpCB	172		111		111	111	0.566
2,2',3,3',4,5,6-HpCB	173	C171		C171			
2,2',3,3',4,5,6'-HpCB	174		268		267	268	0.238
2,2',3,3',4,5',6-HpCB	175		45.4		46.1	45.8	1.49
2,2',3,3',4,6,6'-HpCB	176		64.9		64.6	64.7	0.414
2,2',3,3',4',5,6-HpCB	177		546		650	598	17.2
2,2',3,3',5,5',6-HpCB	178		332		339	335	2.06
2,2',3,3',5,6,6'-HpCB	179		239		239	239	0.115
2,2',3,4,4',5,5'-HpCB	180	C	1580	C	1600	1590	1.16
2,2',3,4,4',5,6-HpCB	181	K	3.80		3.62		
2,2',3,4,4',5,6'-HpCB	182	K	8.76		7.54		
2,2',3,4,4',5',6-HpCB	183	C	672	C	670	671	0.293
2,2',3,4,4',6,6'-HpCB	184		4.23		4.18	4.20	1.26
2,2',3,4,5,5',6-HpCB	185	C183		C183			
2,2',3,4,5,6,6'-HpCB	186	U		U			
2,2',3,4',5,5',6-HpCB	187		2540		2630	2590	3.74
2,2',3,4',5,6,6'-HpCB	188		9.07		9.78	9.43	7.60
2,3,3',4,4',5,5'-HpCB	189		18.6		18.5	18.5	1.03
2,3,3',4,4',5,6-HpCB	190		93.6		93.8	93.7	0.193
2,3,3',4,4',5',6-HpCB	191		21.9		21.5	21.7	2.02
2,3,3',4,5,5',6-HpCB	192	U		U			
2,3,3',4',5,5',6-HpCB	193	C180		C180			
2,2',3,3',4,4',5,5'-OxCB	194		236		260	248	9.87
2,2',3,3',4,4',5,6-OxCB	195		85.2		90.0	87.6	5.40
2,2',3,3',4,4',5,6'-OxCB	196		167		167	167	0.293
2,2',3,3',4,4',6,6'-OxCB	197	C	42.2	C	41.8	42.0	0.896
2,2',3,3',4,5,5',6-OxCB	198	C	397	C	415	406	4.38



COMPOUND	IUPAC NO.	L13452-7 (A)		WG30100-103		MEAN	RELATIVE PERCENT DIFFERENCE
		LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
2,2',3,3',4,5,5',6'-OcCB	199	C198		C198			
2,2',3,3',4,5,6,6'-OcCB	200	C197		C197			
2,2',3,3',4,5',6'-OcCB	201		79.4		78.8	79.1	0.694
2,2',3,3',5,5',6'-OcCB	202		216		215	215	0.444
2,2',3,4,4',5,5',6'-OcCB	203		243		256	250	4.85
2,2',3,4,4',5,6,6'-OcCB	204	K	0.869	K	0.794		
2,3,3',4,4',5,5',6'-OcCB	205		13.2		12.6	12.9	4.50
2,2',3,3',4,4',5,5',6-NoCB	206	T	296	T	300	298	1.62
2,2',3,3',4,4',5,6,6'-NoCB	207	T	44.8	T	45.5	45.1	1.62
2,2',3,3',4,5,5',6,6'-NoCB	208		142		142	142	0.275
2,2',3,3',4,4',5,5',6,6'-DeCB	209		199		220	210	10.2

(1) Where applicable, custom lab flags have been used on this report; U = not detected; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; C = co-eluting congener; T = analyte recalculated against alternate labeled compound(s) or internal standard.

Approved by: _____ Shelley Facchin _____ QA/QC Chemist

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These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested. Results are compliant with NELAP where specific accreditation is held.

