APPENDIX E: LABORATORY FORM 1s

ATTACHMENT E-1: SIM ANALYSES ATTACHMENT E-2: TISSUE CHEMISTRY ATTACHMENT E-3: SEDIMENT CHEMISTRY

Lower Duwamish Waterway Group

Port of Seattle / City of Seattle / King County / The Boeing Company

BI Data Report Addendum Appendix **E**



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BI Data Report Addendum Appendix E



SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Sediment

QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24

Client ID	FBP	PHL	FPH	CPL	DCB	NBZ	TBP	TER	TOT OUT
MB-031705	51.6%	47.5%	51.5%	49.3%	46.4%	49.2%	50.9%	68.4%	0
LCS-031705	68.8%	70.7%	71.5%	68.8%	67.28	67.6%	70.9%	87.6%	0
SRM SQ-1	63.2%	59.5%	58.1%	54.7%	51.6%	56.4%	76.5%	78.8%	0
LDW-C2-S2	51.2%	49.6%	46.4%	46.7%	38.0%	43.6%	63.2%	58.8%	0
LDW-C3-S1	58.8%	61.6%	59.2%	59.2%	51.2%	56.0%	74.48	70.8%	0
LDW-C3-S2	61.6%	59.2%	56.8%	59.7%	50.4%	56.4%	80.8%	75.2%	0
LDW-C4-S	55.6%	56.0%	48.0%	53.3%	44.0%	50.0%	66.9%	61.2%	0
LDW-C5-S	62.0%	58.4%	57.3%	57.3%	46.0%	53.6%	76.8%	69.6%	0
LDW-C6-S	57.6%	57.1%	54.9%	53.9%	46.8%	55.2%	69.9%	66.8%	0
LDW-C9-S	58.8%	56.5%	52.3%	55.7%	44.0%	50.8%	68.8%	65.6%	0
LDW-B1a-S	46.8%	45.1%	45.3%	45.9%	39.2%	41.6%	57.1%	58.0%	0
LDW-B1a-S MS	56.0%	58.4%	56.8%	56.3%	46.8%	50.4%	67.7%	66.8%	0
LDW-B1a-S MSD	55.2%	58.9%	56.3%	55.5%	45.2%	49.2%	67.5%	66.0%	0
LDW-B2a-S	57.2%	56.0%	57.1%	55.7%	48.8%	50.8%	75.2%	68.8%	0
LDW-B3a-S	51.6%	49.1%	46.4%	48.5%	43.2%	48.0%	60.0%	56.4%	0
LDW-B10b-S	52.4%	51.2%	48.5%	49.9%	40.0%	45.2%	66.9%	63.2%	0
LDW-B1b-S	58.8%	54.4%	54.4%	54.9%	50.0%	54.4%	66.1%	62.4%	0
LDW-B8b-S	56.0%	50.9%	47.2%	49.1%	41.6%	48.8%	69.9%	65.2%	0
LDW-B9b-S	37.2%	33.1%	32.5%	32.5%	24.8%*	30.4%	52.3%	51.6%	1
LDW-B10a-S	59.6%	56.5%	49.9%	55.5%	46.4%	54.8%	71.5%	68.4%	0

LCS/MB LIMITS QC LIMITS

(FBP)	=	2-Fluorobiphenyl	(30-160)	(30-160)
(PHL)	=	d5-Phenol	(30-160)	(30-160)
(FPH)	=	2-Fluorophenol	(30-160)	(30-160)
		d4-2-Chlorophenol	(30-160)	(30-160)
(DCB)	=	d4-1,2-Dichlorobenzene	(30-160)	(30-160)
		d5-Nitrobenzene	(30-160)	(30-160)
		2,4,6-Tribromophenol	(30-160)	(30-160)
(TER)	=	d14-p-Terphenyl	(30-160)	(30-160)

Prep Method: SW3550B Log Number Range: 05-5026 to 05-5076

ANALYTICAL RESOURCES

ORGANICS ANALYSIS DATA SHEET

Semivolatiles by Selected Ion Monitoring GC/MS Page 1 of 1 Sample ID: SQ-1 031705 STANDARD REFERENCE

Lab Sample ID: SRM-031705 LIMS ID: 05-5026 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 15:40 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: NA Date Received: NA

Sample Amount: 1.79 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 40.2 % pH: 6.0

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	28	120
205-99-2	Benzo(b)fluoranthene	28	130
50-32-8	Benzo(a)pyrene	28	120
193-39-5	Indeno(1,2,3-cd)pyrene	28	< 28 Ŭ
106-46-7	1,4-Dichlorobenzene	28	< 28 U
120-82-1	1,2,4-Trichlorobenzene	28	< 28 U
118-74-1	Hexachlorobenzene	28	< 28 U
87-68-3	Hexachlorobutadiene	28	< 28 U
65-85-0	Benzoic Acid	280	400
131-11-3	Dimethylphthalate	28	< 28 Ŭ
84-66-2	Diethylphthalate	28	53 B
85-68-7	Butylbenzylphthalate	28	< 28 U
95-48-7	2-Methylphenol	28	< 28 U
105-67-9	2,4-Dimethylphenol	28	< 28 U
86-30-6	N-Nitrosodiphenylamine	28	< 28 U
100-51-6	Benzyl Alcohol	140	< 140 U
87-86-5	Pentachlorophenol	140	440
95-50-1	1,2-Dichlorobenzene	28	< 28 U
621-64-7	N-Nitroso-Di-N-Propylamine	140	< 140 U
62-75-9	N-Nitrosodimethylamine	140	< 140 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	63.2%	d5-Phenol	59.5%
2-Fluorophenol	58.1%	d4-2-Chlorophenol	54.7%
d4-1,2-Dichlorobenzene	51.6%	d5-Nitrobenzene	56.4%
2,4,6-Tribromophenol	76.5%	d14-p-Terphenyl	78.88



Page 1 of 1

Lab Sample ID: HV45A LIMS ID: 05-5026 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 16:12 Instrument/Analyst: NT2/Van GPC Cleanup: No Sample ID: LDW-C2-S2 SAMPLE

QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/26/04 Date Received: 03/11/05

Sample Amount: 7.72 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 35.8 % pH: 6.9

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	6.5	25
205-99-2	Benzo(b) fluoranthene	6.5	20
50-32-8	Benzo (a) pyrene	6.5	26
193-39-5	Indeno (1,2,3-cd) pyrene	6.5	16
106-46-7	1,4-Dichlorobenzene	6.5	< 6.5 U
120-82-1	1,2,4-Trichlorobenzene	6.5	< 6.5 U
118-74-1	Hexachlorobenzene	6.5	< 6.5 U
87-68-3	Hexachlorobutadiene	6.5	< 6.5 U
65-85-0	Benzoic Acid	65	79
131-11-3	Dimethylphthalate	6.5	< 6.5 U
84-66-2	Diethylphthalate	6.5	6.5 B
85-68-7	Butylbenzylphthalate	6.5	< 6.5 U
95-48-7	2-Methylphenol	6.5	< 6.5 U
105-67-9	2,4-Dimethylphenol	6.5	< 6.5 Ŭ
86-30-6	N-Nitrosodiphenylamine	6.5	< 6.5 U
100-51-6	Benzyl Alcohol	32	< 32 U
87-86-5	Pentachlorophenol	32	< 32 U
95-50-1	1,2-Dichlorobenzene	6.5	< 6.5 U
621-64-7	N-Nitroso-Di-N-Propylamine	32	< 32 U
62-75-9	N-Nitrosodimethylamine	32	< 32 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	51.2%	d5-Phenol	49.6%
2-Fluorophenol	46.4%	d4-2-Chlorophenol	46.7%
d4-1,2-Dichlorobenzene	38.0%	d5-Nitrobenzene	43.6%
2,4,6-Tribromophenol	63.2%	d14-p-Terphenyl	58.8%



Semivolatiles by Selected Ion Monitoring GC/MS Page 1 of 1

Lab Sample ID: HV45B LIMS ID: 05-5027 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 16:44 Instrument/Analyst: NT2/Van GPC Cleanup: No

SAMPLE QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24

Sample ID: LDW-C3-S1

Date Sampled: 08/29/04 Date Received: 03/11/05

Sample Amount: 7.65 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 23.8 % рН: 6.8

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	6.5	110
205-99-2	Benzo(b) fluoranthene	6.5	85
50-32-8	Benzo (a) pyrene	6.5	99
193-39-5	Indeno (1,2,3-cd) pyrene	6.5	61
106-46-7	1,4-Dichlorobenzene	6.5	< 6.5 U
120-82-1	1,2,4-Trichlorobenzene	6.5	< 6.5 U
118-74-1	Hexachlorobenzene	6.5	< 6.5 U
87-68-3	Hexachlorobutadiene	6.5	< 6.5 U
65-85-0	Benzoic Acid	65	66
131-11-3	Dimethylphthalate	6.5	< 6.5 U
84-66-2	Diethylphthalate	6.5	< 6.5 U
85-68-7	Butylbenzylphthalate	6.5	< 6.5 U
95-48-7	2-Methylphenol	6.5	< 6.5 U
105-67-9	2,4-Dimethylphenol	6.5	< 6.5 U
86-30-6	N-Nitrosodiphenylamine	6.5	< 6.5 U
100-51-6	Benzyl Alcohol	33	< 33 U
87-86-5	Pentachlorophenol	33	< 33 U
95-50-1	1,2-Dichlorobenzene	6.5	< 6.5 U
621-64-7	N-Nitroso-Di-N-Propylamine	33	< 33 U
62-75-9	N-Nitrosodimethylamine	33	< 33 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	58.8%	d5-Phenol	61.6%
2-Fluorophenol	59.2%	d4-2-Chlorophenol	59.2%
d4-1,2-Dichlorobenzene	51.2%	d5-Nitrobenzene	56.0%
2,4,6-Tribromophenol	74.4%	d14-p-Terphenyl	70.8%



Sample ID: LDW-C3-S2 SAMPLE

Lab Sample ID: HV45C LIMS ID: 05-5028 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 17:16 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/29/04 Date Received: 03/11/05

Sample Amount: 2.89 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 28.0 % pH: 6.9

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	17	38
205-99-2	Benzo(b)fluoranthene	17	35
50-32-8	Benzo (a) pyrene	17	43
193-39-5	Indeno (1,2,3-cd) pyrene	17	26
106-46-7	1,4-Dichlorobenzene	17	< 17 Ŭ
120-82-1	1,2,4-Trichlorobenzene	17	< 17 U
118-74-1	Hexachlorobenzene	17	< 17 U
87-68-3	Hexachlorobutadiene	17	< 17 Ŭ
65-85-0	Benzoic Acid	170	< 170 Ŭ
131-11-3	Dimethylphthalate	17	< 17 Ŭ
84-66-2	Diethylphthalate	17	< 17 Ü
85-68-7	Butylbenzylphthalate	17	< 17 Ŭ
95-48-7	2-Methylphenol	17	< 17 Ŭ
105-67-9	2,4-Dimethylphenol	17	< 17 Ŭ
86-30-6	N-Nitrosodiphenylamine	17	< 17 U
100-51-6	Benzyl Alcohol	86	< 86 U
87-86-5	Pentachlorophenol	86	< 86 U
95-50-1	1,2-Dichlorobenzene	17	< 17 U
621-64-7	N-Nitroso-Di-N-Propylamine	86	< 86 U
62-75-9	N-Nitrosodimethylamine	86	< 86 U

Reported in $\mu g/kg$ (ppb)

SIM Semivolatile Surrogate Recovery

2-Fluorobiphenyl	61.6%	d5-Phenol	59.2%
2-Fluorophenol	56.8%	d4-2-Chlorophenol	59.7%
d4-1,2-Dichlorobenzene	50.4%	d5-Nitrobenzene	56.4%
2,4,6-Tribromophenol	80.8%	d14-p-Terphenyl	75.2%

.



Sample ID: LDW-C4-S SAMPLE

Lab Sample ID: HV45D LIMS ID: 05-5029 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 17:49 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/27/04 Date Received: 03/11/05

Sample Amount: 7.53 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 31.7 % pH: 6.8

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	6.6	100
205-99-2	Benzo(b) fluoranthene	6.6	98
50-32-8	Benzo (a) pyrene	6.6	170
193-39-5	Indeno (1,2,3-cd) pyrene	6.6	84
106-46-7	1,4-Dichlorobenzene	6.6	< 6.6 U
120-82-1	1,2,4-Trichlorobenzene	6.6	< 6.6 U
118-74-1	Hexachlorobenzene	6.6	< 6.6 U
87-68-3	Hexachlorobutadiene	6.6	< 6.6 U
65-85-0	Benzoic Acid	66	100
131-11-3	Dimethylphthalate	6.6	< 6.6 U
84-66-2	Diethylphthalate	6.6	< 6.6 U
85-68-7	Butylbenzylphthalate	6.6	< 6.6 U
95-48-7	2-Methylphenol	6.6	< 6.6 U
105-67-9	2,4-Dimethylphenol	6.6	< 6.6 U
86-30-6	N-Nitrosodiphenylamine	6.6	< 6.6 U
100-51-6	Benzyl Alcohol	33	< 33 U
87-86-5	Pentachlorophenol	33	130
95-50-1	1,2-Dichlorobenzene	6.6	< 6.6 U
621-64-7	N-Nitroso-Di-N-Propylamine	33	< 33 U
62-75-9	N-Nitrosodimethylamine	33	< 33 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	55.6%	d5-Phenol	56.0%
2-Fluorophenol	48.0%	d4-2-Chlorophenol	53.3%
d4-1,2-Dichlorobenzene	44.0%	d5-Nitrobenzene	50.0%
2,4,6-Tribromophenol	66.9%	d14-p-Terphenyl	61.2%



Sample ID: LDW-C5-S SAMPLE

Lab Sample ID: HV45E LIMS ID: 05-5030 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 18:20 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/27/04 Date Received: 03/11/05

Sample Amount: 7.82 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 22.1 % pH: 6.7

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	6.4	410
205-99-2	Benzo(b) fluoranthene	6.4	390
50-32-8	Benzo (a) pyrene	6.4	390
193-39-5	Indeno (1,2,3-cd) pyrene	6.4	200
106-46-7	1,4-Dichlorobenzene	6.4	< 6.4 U
120-82-1	1,2,4-Trichlorobenzene	6.4	< 6.4 U
118-74-1	Hexachlorobenzene	6.4	< 6.4 U
87-68-3	Hexachlorobutadiene	6.4	< 6.4 U
65-85-0	Benzoic Acid	64	600
131-11-3	Dimethylphthalate	6.4	< 6.4 U
84-66-2	Diethylphthalate	6.4	< 6.4 U
85-68-7	Butylbenzylphthalate	6.4	39
95-48-7	2-Methylphenol	6.4	< 6.4 U
105-67-9	2,4-Dimethylphenol	6.4	< 6.4 U
86-30-6	N-Nitrosodiphenylamine	6.4	< 6.4 U
100-51-6	Benzyl Alcohol	32	< 32 U
87-86-5	Pentachlorophenol	32	44
95-50-1	1,2-Dichlorobenzene	6.4	< 6.4 U
621-64-7	N-Nitroso-Di-N-Propylamine	32	< 32 U
62-75-9	N-Nitrosodimethylamine	32	< 32 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	62.0%	d5-Phenol	58.4%
2-Fluorophenol	57.3%	d4-2-Chlorophenol	57.3%
d4-1,2-Dichlorobenzene	46.0%	d5-Nitrobenzene	53.6%
2,4,6-Tribromophenol	76.8%	d14-p-Terphenyl	69.6%



Semivolatiles by Selected Ion Monitoring GC/MS Page 1 of 1

Sample ID: LDW-C6-S SAMPLE

Lab Sample ID: HV45F LIMS ID: 05-5031 Matrix: Sediment Data Release Authorized:

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 18:52 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/25/04 Date Received: 03/11/05

Sample Amount: 7.52 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 31.6 % pH: 7.0

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	6.6	37
205-99-2	Benzo(b) fluoranthene	6.6	54
50-32-8	Benzo (a) pyrene	6.6	41
193-39-5	Indeno (1,2,3-cd) pyrene	6.6	32
106-46-7	1,4-Dichlorobenzene	6.6	< 6.6 U
120-82-1	1,2,4-Trichlorobenzene	6.6	< 6.6 U
118-74-1	Hexachlorobenzene	6.6	< 6.6 U
87-68-3	Hexachlorobutadiene	6.6	< 6.6 Ŭ
65-85-0	Benzoic Acid	66	89
131-11-3	Dimethylphthalate	6.6	< 6.6 U
84-66-2	Diethylphthalate	6.6	< 6.6 U
85-68-7	Butylbenzylphthalate	6.6	< 6.6 U
95-48-7	2-Methylphenol	6.6	< 6.6 U
105-67-9	2,4~Dimethylphenol	6.6	< 6.6 U
86-30-6	N-Nitrosodiphenylamine	6.6	< 6.6 U
100-51-6	Benzyl Alcohol	33	< 33 U
87-86-5	Pentachlorophenol	33	< 33 U
95-50-1	1,2-Dichlorobenzene	6.6	< 6.6 Ŭ
621-64-7	N-Nitroso-Di-N-Propylamine	33	< 33 U
62-75-9	N-Nitrosodimethylamine	33	< 33 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	57.6%	d5-Phenol	57.1%
2-Fluorophenol	54.9%	d4-2-Chlorophenol	53.9%
d4-1,2-Dichlorobenzene	46.8%	d5-Nitrobenzene	55.2%
2,4,6-Tribromophenol	69.9%	d14-p-Terphenyl	66.8%



Semivolatiles by Selected Ion Monitoring GC/MS Page 1 of 1 Sample ID: LDW-C9-S SAMPLE

Lab Sample ID: HV45G LIMS ID: 05-5032 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 19:24 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/15/04 Date Received: 03/11/05

Sample Amount: 7.76 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 22.7 % pH: 6.7

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	6.4	- 11
205-99-2	Benzo(b) fluoranthene	6.4	15
50-32-8	Benzo(a)pyrene	6.4	9.7
193-39-5	Indeno (1,2,3-cd) pyrene	6.4	10
106-46-7	1,4-Dichlorobenzene	6.4	< 6.4 U
120-82-1	1,2,4-Trichlorobenzene	6.4	< 6.4 U
118 - 74-1	Hexachlorobenzene	6.4	< 6.4 U
87-68-3	Hexachlorobutadiene	6.4	< 6.4 U
65-85-0	Benzoic Acid	64	270
131-11-3	Dimethylphthalate	6.4	< 6.4 U
84-66-2	Diethylphthalate	6.4	< 6.4 U
85-68-7	Butylbenzylphthalate	6.4	< 6.4 U
95-48-7	2-Methylphenol	6.4	< 6.4 U
105-67-9	2,4-Dimethylphenol	6.4	< 6.4 U
86-30-6	N-Nitrosodiphenylamine	6.4	< 6.4 U
100-51-6	Benzyl Alcohol	32	< 32 U
87-86-5	Pentachlorophenol	32	< 32 U
95-50-1	1,2-Dichlorobenzene	6.4	< 6.4 U
621-64-7	N-Nitroso-Di-N-Propylamine	32	< 32 U
62-75 - 9	N-Nitrosodimethylamine	32	< 32 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	58.8%	d5-Phenol	56.5%
2-Fluorophenol	52.3%	d4-2-Chlorophenol	55.7%
d4-1,2-Dichlorobenzene	44.0%	d5-Nitrobenzene	50.8%
2,4,6-Tribromophenol	68.8%	d14-p-Terphenyl	65.6%



Semivolatiles by Selected Ion Monitoring GC/MS Page 1 of 1

Lab Sample ID: HV45H LIMS ID: 05-5033 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 19:57 Instrument/Analyst: NT2/Van GPC Cleanup: No Sample ID: LDW-B1a-S SAMPLE

QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/12/04 Date Received: 03/11/05

Sample Amount: 7.66 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 19.4 % pH: 6.8

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	6.5	29
205-99-2	Benzo(b) fluoranthene	6.5	44
50-32-8	Benzo(a)pyrene	6.5	35
193-39-5	Indeno (1,2,3-cd) pyrene	6.5	26
106-46-7	1,4-Dichlorobenzene	6.5	< 6.5 U
120-82-1	1,2,4-Trichlorobenzene	6.5	< 6.5 Ŭ
118-74-1	Hexachlorobenzene	6.5	< 6.5 U
87-68-3	Hexachlorobutadiene	6.5	< 6.5 U
65-85-0	Benzoic Acid	65	500
131-11-3	Dimethylphthalate	6.5	< 6.5 U
84-66-2	Diethylphthalate	6.5	< 6.5 U
85-68-7	Butylbenzylphthalate	6.5	< 6.5 U
95-48-7	2-Methylphenol	6.5	< 6.5 U
105-67-9	2,4-Dimethylphenol	6.5	< 6.5 U
86-30-6	N-Nitrosodiphenylamine	6.5	< 6.5 U
100-51-6	Benzyl Alcohol	33	< 33 U
87-86-5	Pentachlorophenol	33	< 33 U
95-50-1	1,2-Dichlorobenzene	6.5	< 6.5 U
621-64-7	N-Nitroso-Di-N-Propylamine	33	< 33 Ŭ
62-75-9	N-Nitrosodimethylamine	33	< 33 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	46.8%	d5-Phenol	45.1%
2-Fluorophenol	45.3%	d4-2-Chlorophenol	45.9%
d4-1,2-Dichlorobenzene	39.2%	d5-Nitrobenzene	41.6%
2,4,6-Tribromophenol	57.1%	d14-p-Terphenyl	58.0%



Page 1 of 1

Lab Sample ID: HV45I LIMS ID: 05-5034 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 21:32 Instrument/Analyst: NT2/Van GPC Cleanup: No

Sample ID: LDW-B2a-S SAMPLE

QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/13/04 Date Received: 03/11/05

Sample Amount: 7.58 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 46.0 % рН: 6.6

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	6.6	280
205-99-2	Benzo(b) fluoranthene	6.6	260
50-32-8	Benzo(a)pyrene	6.6	280
193-39-5	Indeno (1,2,3-cd) pyrene	6.6	130
106-46-7	1,4-Dichlorobenzene	6.6	< 6.6 U
120-82-1	1,2,4-Trichlorobenzene	6.6	< 6.6 Ŭ
118-74-1	Hexachlorobenzene	6.6	< 6.6 U
87-68-3	Hexachlorobutadiene	6.6	< 6.6 U
65-85-0	Benzoic Acid	66	69
131-11-3	Dimethylphthalate	6.6	< 6.6 U
84-66-2	Diethylphthalate	6.6	< 6.6 U
85~68-7	Butylbenzylphthalate	6.6	< 6.6 U
95-48-7	2-Methylphenol	6.6	< 6.6 U
105-67-9	2,4-Dimethylphenol	6.6	< 6.6 U
86-30-6	N-Nitrosodiphenylamine	6.6	< 6.6 U
100-51-6	Benzyl Alcohol	33	< 33 U
87-86-5	Pentachlorophenol	33	< 33 U
95-50-1	1,2-Dichlorobenzene	6.6	< 6.6 U
621-64-7	N-Nitroso-Di-N-Propylamine	33	< 33 U
62-75-9	N-Nitrosodimethylamine	33	< 33 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	57.2%	d5-Phenol	56.0%
2-Fluorophenol	57.1%	d4-2-Chlorophenol	55.7%
d4-1,2-Dichlorobenzene	48.8%	d5-Nitrobenzene	50.8%
2,4,6-Tribromophenol	75.2%	d14-p-Terphenyl	68.8%



Semivolatiles by Selected Ion Monitoring GC/MS Page 1 of 1 Sample ID: LDW-B3a-S SAMPLE

Lab Sample ID: HV45J LIMS ID: 05-5035 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 22:04 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/26/04 Date Received: 03/11/05

Sample Amount: 7.57 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 37.1 % pH: 7.1

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	6.6	28
205-99-2	Benzo(b) fluoranthene	6.6	27
50-32-8	Benzo(a)pyrene	6.6	20
193-39-5	Indeno(1,2,3-cd)pyrene	6.6	7.9
106-46-7	1,4-Dichlorobenzene	6.6	< 6.6 U
120-82-1	1,2,4-Trichlorobenzene	6.6	< 6.6 U
118-74-1	Hexachlorobenzene	6.6	< 6.6 U
87-68-3	Hexachlorobutadiene	6.6	< 6.6 U
65-85-0	Benzoic Acid	66	220
131-11-3	Dimethylphthalate	6.6	< 6.6 U
84-66-2	Diethylphthalate	6.6	< 6.6 U
85-68-7	Butylbenzylphthalate	6.6	< 6.6 U
95-48-7	2-Methylphenol	6.6	< 6.6 U
105-67-9	2,4-Dimethylphenol	6.6	< 6.6 U
86-30-6	N-Nitrosodiphenylamine	6.6	< 6.6 U
100-51-6	Benzyl Alcohol	33	< 33 U
87-86-5	Pentachlorophenol	33	< 33 U
95-50-1	1,2-Dichlorobenzene	6.6	< 6.6 U
621-64-7	N-Nitroso-Di-N-Propylamine	33	< 33 U
62-75-9	N-Nitrosodimethylamine	33	< 33 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	51.6%	d5-Phenol	49.18
2-Fluorophenol	46.4%	d4-2-Chlorophenol	48.5%
d4-1,2-Dichlorobenzene	43.2%	d5-Nitrobenzene	48.0%
2,4,6-Tribromophenol	60.0%	d14-p-Terphenyl	56.4%



Sample ID: LDW-B10b-S SAMPLE

Lab Sample ID: HV45K LIMS ID: 05-5036 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 22:36 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/19/04 Date Received: 03/11/05

Sample Amount: 7.78 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 32.5 % pH: 6.8

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	6.4	13
205-99-2	Benzo(b)fluoranthene	6.4	17
50-32-8	Benzo (a) pyrene	6.4	15
193-39-5	Indeno(1,2,3-cd) pyrene	6.4	14
106-46-7	1,4-Dichlorobenzene	6.4	< 6.4 U
120-82-1	1,2,4-Trichlorobenzene	6.4	< 6.4 U
118-74-1	Hexachlorobenzene	6.4	< 6.4 U
87-68-3	Hexachlorobutadiene	6.4	< 6.4 U
65-85-0	Benzoic Acid	64	300
131-11-3	Dimethylphthalate	6.4	< 6.4 U
84-66-2	Diethylphthalate	6.4	< 6.4 U
85-68-7	Butylbenzylphthalate	6.4	< 6.4 U
95-48-7	2-Methylphenol	6.4	< 6.4 U
105-67-9	2,4-Dimethylphenol	6.4	< 6.4 U
86-30-6	N-Nitrosodiphenylamine	6.4	< 6.4 U
100-51-6	Benzyl Alcohol	32	< 32 U
87-86-5	Pentachlorophenol	32	< 32 U
95-50-1	1,2-Dichlorobenzene	6.4	< 6.4 U
621-64-7	N-Nitroso-Di-N-Propylamine	32	< 32 U
62-75-9	N-Nitrosodimethylamine	32	< 32 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	52.4%	d5-Phenol	51.2%
2-Fluorophenol	48.5%	d4-2-Chlorophenol	49.9%
d4-1,2-Dichlorobenzene	40.0%	d5-Nitrobenzene	45.2%
2,4,6-Tribromophenol	66.9%	d14-p-Terphenyl	63.2%



Semivolatiles by Selected Ion Monitoring GC/MS Page 1 of 1

Lab Sample ID: HV45L LIMS ID: 05-5037 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 23:08 Instrument/Analyst: NT2/Van GPC Cleanup: No Sample ID: LDW-B1b-S SAMPLE

QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 09/27/04 Date Received: 03/11/05

Sample Amount: 7.92 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 21.1 % pH: 7.2

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	6.3	17
205-99-2	Benzo(b) fluoranthene	6.3	25
50-32-8	Benzo(a)pyrene	6.3	20
193-39-5	Indeno (1,2,3-cd) pyrene	6.3	11
106-46-7	1,4-Dichlorobenzene	6.3	< 6.3 Ŭ
120-82-1	1,2,4-Trichlorobenzene	6.3	< 6.3 U
118-74-1	Hexachlorobenzene	6.3	< 6.3 U
87-68-3	Hexachlorobutadiene	6.3	< 6.3 U
65-85-0	Benzoic Acid	63	72
131-11-3	Dimethylphthalate	6.3	< 6.3 U
84-66-2	Diethylphthalate	6.3	< 6.3 U
85-68-7	Butylbenzylphthalate	6.3	< 6.3 U
95-48-7	2-Methylphenol	6.3	< 6.3 U
105-67-9	2,4-Dimethylphenol	6.3	< 6.3 U
86-30-6	N-Nitrosodiphenylamine	6.3	< 6.3 U
100-51-6	Benzyl Alcohol	32	< 32 U
87-86-5	Pentachlorophenol	32	< 32 U
95-50-1	1,2-Dichlorobenzene	6.3	< 6.3 U
621-64-7	N-Nitroso-Di-N-Propylamine	32	< 32 U
62-75-9	N-Nitrosodimethylamine	32	< 32 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	58.8%	d5-Phenol	54.4%
2-Fluorophenol	54.4%	d4-2-Chlorophenol	54.9%
d4-1,2-Dichlorobenzene	50.0%	d5-Nitrobenzene	54.4%
2,4,6-Tribromophenol	66.1%	d14-p-Terphenyl	62.4%



Semivolatiles by Selected Ion Monitoring GC/MS Page 1 of 1

Lab Sample ID: HV45M LIMS ID: 05-5038 Matrix: Sediment Data Release Authorized:

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 23:41 Instrument/Analyst: NT2/Van GPC Cleanup: No

Sample ID: LDW-B8b-S SAMPLE

QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/19/04 Date Received: 03/11/05

Sample Amount: 7.65 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 45.5 % pH: 7.3

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	6.5	39
205-99-2	Benzo(b)fluoranthene	6.5	58
50-32-8	Benzo(a)pyrene	6.5	50
193-39-5	Indeno (1,2,3-cd) pyrene	6.5	40
106-46-7	1,4-Dichlorobenzene	6.5	< 6.5 U
120-82-1	1,2,4-Trichlorobenzene	6.5	< 6.5 U
118-74-1	Hexachlorobenzene	6.5	< 6.5 U
87-68-3	Hexachlorobutadiene	6.5	< 6.5 U
65-85-0	Benzoic Acid	65	110
131-11-3	Dimethylphthalate	6.5	< 6.5 Ŭ
84-66-2	Diethylphthalate	6.5	< 6.5 U
85-68-7	Butylbenzylphthalate	6.5	< 6.5 U
95-48-7	2-Methylphenol	6.5	< 6.5 Ŭ
105-67-9	2,4-Dimethylphenol	6.5	< 6.5 Ŭ
86-30-6	N-Nitrosodiphenylamine	6.5	< 6.5 U
100-51-6	Benzyl Alcohol	33	< 33 U
87-86-5	Pentachlorophenol	33	< 33 U
95-50-1	1,2-Dichlorobenzene	6.5	< 6.5 U
521-64-7	N-Nitroso-Di-N-Propylamine	33	< 33 U
62-75-9	N-Nitrosodimethylamine	33	< 33 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	56.0%	d5-Phenol	50.9%
2-Fluorophenol	47.2%	d4-2-Chlorophenol	49.1%
d4-1,2-Dichlorobenzene	41.6%	d5-Nitrobenzene	48.8%
2,4,6-Tribromophenol	69.9%	d14-p-Terphenyl	65.2%



Sample ID: LDW-B9b-S SAMPLE

Lab Sample ID: HV45N LIMS ID: 05-5039 Matrix: Sediment Data Release Authorized: A Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/19/05 00:13 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/11/04 Date Received: 03/11/05

Sample Amount: 7.54 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 37.4 % pH: 7.3

CAS Number	Analyte	RL	Result
56-55-3	Benzo (a) anthracene	6.6	51
205-99-2	Benzo(b) fluoranthene	6.6	61
50-32-8	Benzo(a)pyrene	6.6	49
193-39-5	Indeno (1,2,3-cd) pyrene	6.6	44
106-46-7	1,4-Dichlorobenzene	6.6	< 6.6 U
120-82-1	1,2,4-Trichlorobenzene	6.6	< 6.6 U
118-74-1	Hexachlorobenzene	6.6	< 6.6 U
87-68-3	Hexachlorobutadiene	6.6	< 6.6 U
65-85-0	Benzoic Acid	66	120
131-11-3	Dimethylphthalate	6.6	21
84-66-2	Diethylphthalate	6.6	6.6 JB
85-68-7	Butylbenzylphthalate	6.6	14
95-48-7	2-Methylphenol	6.6	< 6.6 U
105-67-9	2,4-Dimethylphenol	6.6	< 6.6 U
86-30-6	N-Nitrosodiphenylamine	6.6	< 6.6 U
100-51-6	Benzyl Alcohol	33	< 33 U
87-86-5	Pentachlorophenol	33	< 33 U
95-50-1	1,2-Dichlorobenzene	6.6	< 6.6 U
621-64-7	N-Nitroso-Di-N-Propylamine	33	< 33 U
62 - 75-9	N-Nitrosodimethylamine	33	< 33 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	37.2%	d5-Phenol	33.1%
2-Fluorophenol	32.5%	d4-2-Chlorophenol	32.5%
d4-1,2-Dichlorobenzene	24.8%	d5-Nitrobenzene	30.4%
2,4,6-Tribromophenol	52.3%	d14-p-Terphenyl	51.6%



Sample ID: LDW-B10a-S SAMPLE

Lab Sample ID: HV450 LIMS ID: 05-5076 Matrix: Sediment Data Release Authorized:

Date Extracted: 03/17/05 Date Analyzed: 03/19/05 00:45 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/26/04 Date Received: 03/11/05

Sample Amount: 7.81 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 35.0 % pH: 7.4

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a) anthracene	6.4	30
205-99-2	Benzo(b) fluoranthene	6.4	44
50-32-8	Benzo (a) pyrene	6.4	42
193-39-5	Indeno (1,2,3-cd) pyrene	6.4	33
106-46-7	1,4-Dichlorobenzene	б.4	< 6.4 U
120-82-1	1,2,4-Trichlorobenzene	6.4	< 6.4 U
118-74-1	Hexachlorobenzene	6.4	< 6.4 U
87-68-3	Hexachlorobutadiene	6.4	< 6.4 U
65-85-0	Benzoic Acid	64	160
131-11-3	Dimethylphthalate	6.4	< 6.4 U
84-66-2	Diethylphthalate	6.4	9.6 B
85-68-7	Butylbenzylphthalate	6.4	< 6.4 U
95-48-7	2-Methylphenol	6.4	< 6.4 U
105-67-9	2,4-Dimethylphenol	б.4	< 6.4 U
86-30-6	N-Nitrosodiphenylamine	6.4	< 6.4 U
100-51-6	Benzyl Alcohol	32	< 32 U
87-86-5	Pentachlorophenol	32	< 32 Ŭ
95-50-1	1,2-Dichlorobenzene	6.4	< 6.4 U
621-64-7	N-Nitroso-Di-N-Propylamine	32	< 32 U
62-75-9	N-Nitrosodimethylamine	32	< 32 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	59.6%	d5-Phenol	56.5%
2-Fluorophenol	49.9%	d4-2-Chlorophenol	55.5%
d4-1,2-Dichlorobenzene	46.4%	d5-Nitrobenzene	54.8%
2,4,6-Tribromophenol	71.5%	d14-p-Terphenyl	68.4%



ORGANICS ANALYSIS DATA SHEET PNAs by SW8270C SIM GC/MS Page 1 of 1

Lab Sample ID: HV45H LIMS ID: 05-5033 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted MS/MSD: 03/17/05

Date Analyzed MS: 03/18/05 20:28

Instrument/Analyst MS: NT2/Van

GPC Cleanup: No

Alumina Cleanup: No

MSD: 03/18/05 21:00

MSD: NT2/Van

QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/12/04 Date Received: 03/11/05

Sample ID: LDW-B1a-S

MS/MSD

Sample Amount MS: 7.69 g-dry-wt MSD: 7.69 g-dry-wt Final Extract Volume MS: 0.5 mL MSD: 0.5 mL Dilution Factor MS: 1.00 MSD: 1.00 pH: 6.8 Moisture: 19.4%

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
1,2,4-Trichlorobenzene	< 6.5	86.5	163	53.1%	89.7	163	55.0%	3.6%
Pentachlorophenol	< 32.6	186	244	76.2%	185	244	75.8%	0.5%
N-Nitroso-Di-N-Propylamine	e < 32.6	79.3	163	48.7%	80.0	163	49.1%	0.9%

Reported in μ g/kg (ppb)

RPD calculated using sample concentrations per SW846.



Semivolatiles by Selected Ion Monitoring GC/MS Sample ID: LDW-B1a-S Page 1 of 1

MATRIX SPIKE

Lab Sample ID: HV45H LIMS ID: 05-5033 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 20:28 Instrument/Analyst: NT2/Van GPC Cleanup: No

QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/12/04 Date Received: 03/11/05

Sample Amount: 7.69 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 19.4 % pH: 6.8

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	6.5	48
205-99-2	Benzo(b) fluoranthene	6.5	42
50-32-8	Benzo (a) pyrene	6.5	49
193-39-5	Indeno (1,2,3-cd) pyrene	6.5	34
106-46-7	1,4-Dichlorobenzene	6.5	79
120-82-1	1,2,4-Trichlorobenzene	6.5	
118-74-1	Hexachlorobenzene	6.5	< 6.5 U
87-68-3	Hexachlorobutadiene	6.5	< 6.5 U
65-85-0	Benzoic Acid	65	530
131-11-3	Dimethylphthalate	6.5	< 6.5 U
84-66-2	Diethylphthalate	6.5	< 6.5 U
85-68-7	Butylbenzylphthalate	6.5	< 6.5 U
95-48-7	2-Methylphenol	6.5	< 6.5 Ŭ
105-67-9	2,4-Dimethylphenol	6.5	< 6.5 U
86-30-6	N-Nitrosodiphenylamine	6.5	< 6.5 U
100-51-6	Benzyl Alcohol	32	< 32 Ŭ
87-86-5	Pentachlorophenol	32	
95-50-1	1,2-Dichlorobenzene	6.5	< 6.5 Ŭ
621-64-7	N-Nitroso-Di-N-Propylamine	32	
62-75-9	N-Nitrosodimethylamine	32	< 32 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	56.0%	d5-Phenol	58.4%
2-Fluorophenol	56.8%	d4-2-Chlorophenol	56.3%
d4-1,2-Dichlorobenzene	46.8%	d5-Nitrobenzene	50.4%
2,4,6-Tribromophenol	67.7%	d14-p-Terphenyl	66.8%



Semivolatiles by Selected Ion Monitoring GC/MS Page 1 of 1

Sample ID: LDW-Bla-S MATRIX SPIKE DUP

Lab Sample ID: HV45H LIMS ID: 05-5033 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 21:00 Instrument/Analyst: NT2/Van GPC Cleanup: No QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/12/04 Date Received: 03/11/05

Sample Amount: 7.69 g-dry-wt Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: 19.4 % pH: 6.8

CAS Number	Analyte	RL	Result	
56-55-3	Benzo (a) anthracene	6.5	32	
205-99-2	Benzo(b) fluoranthene	6.5	37	
50-32-8	Benzo(a)pyrene	6.5	36	
193-39-5	Indeno (1,2,3-cd) pyrene	6.5	27	
106-46-7	1,4-Dichlorobenzene	6.5	78	
120-82-1	1,2,4-Trichlorobenzene	6.5		
118-74-1	Hexachlorobenzene	6.5	< 6.5 U	
87-68-3	Hexachlorobutadiene	6.5	< 6.5 U	
65-85-0	Benzoic Acid	65	560	
131-11-3	Dimethylphthalate	6.5	< 6.5 U	
84-66-2	Diethylphthalate	6.5	< 6.5 U	
85-68-7	Butylbenzylphthalate	6.5	< 6.5 U	
95-48-7	2-Methylphenol	6.5	< 6.5 Ŭ	
105-67-9	2,4-Dimethylphenol	6.5	< 6.5 U	
86-30-6	N-Nitrosodiphenylamine	6.5	< 6.5 U	
100-51-6	Benzyl Alcohol	32	< 32 U	
87-86-5	Pentachlorophenol	32		
95-50-1	1,2-Dichlorobenzene	6.5	< 6.5 U	
521-64-7	N-Nitroso-Di-N-Propylamine	32		
62-75-9	N-Nitrosodimethylamine	32	< 32 U	

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	55.2%	d5-Phenol	58.9%
2-Fluorophenol	56.3%	d4-2-Chlorophenol	55.5%
d4-1,2-Dichlorobenzene	45.2%	d5-Nitrobenzene	49.2%
2,4,6-Tribromophenol	67.5%	d14-p-Terphenyl	66.0%



Semivolatiles by Selected Ion Monitoring GC/MS Sample ID: MB-031705 Page 1 of 1

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Lab Sample ID: MB-031705 LIMS ID: 05-5026 Matrix: Sediment Data Release Authorized: Øð Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 14:36 Instrument/Analyst: NT2/Van GPC Cleanup: No

QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: NA Date Received: NA

Sample Amount: 7.50 g Final Extract Volume: 0.50 mL Dilution Factor: 1.00 Percent Moisture: NA pH: NA

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	6.7	< 6.7 U
205-99-2	Benzo(b)fluoranthene	6.7	< 6.7 U
50-32-8	Benzo(a)pyrene	6.7	< 6.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	6.7	< 6.7 Ŭ
106-46-7	1,4-Dichlorobenzene	6.7	< 6.7 Ŭ
120-82-1	1,2,4-Trichlorobenzene	6.7	< 6.7 U
118-74-1	Hexachlorobenzene	6.7	< 6.7 U
87-68-3	Hexachlorobutadiene	6.7	< 6.7 U
65-85-0	Benzoic Acid	67	< 67 Ŭ
131-11-3	Dimethylphthalate	6.7	< 6.7 U
84-66-2	Diethylphthalate	6.7	15
85-68-7	Butylbenzylphthalate	6.7	< 6.7 U
95-48-7	2-Methylphenol	б.7	< 6.7 U
105-67-9	2,4-Dimethylphenol	6.7	< 6.7 U
86-30-6	N-Nitrosodiphenylamine	6.7	6.7
100-51-6	Benzyl Alcohol	33	< 33 U
87-86-5	Pentachlorophenol	33	< 33 U
95-50-1	1,2-Dichlorobenzene	6.7	< 6.7 U
621-64-7	N-Nitroso-Di-N-Propylamine	33	< 33 U
62-75-9	N-Nitrosodimethylamine	33	< 33 U

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	51.6%	d5-Phenol	47.5%
2-Fluorophenol	51.5%	d4-2-Chlorophenol	49.3%
d4-1,2-Dichlorobenzene	46.4%	d5-Nitrobenzene	49.2%
2,4,6-Tribromophenol	50.9%	d14-p-Terphenyl	68.4%



ORGANICS ANALYSIS DATA SHEET PNAs by SW8270C SIM GC/MS Page 1 of 1

Lab Sample ID: LCS-031705 LIMS ID: 05-5026 Matrix: Sediment Data Release Authorized: Reported: 03/21/05

Date Extracted: 03/17/05 Date Analyzed: 03/18/05 15:08 Instrument/Analyst: NT2/Van GPC Cleanup: No Alumina Cleanup: No

Sample ID: LCS-031705 LAB CONTROL

QC Report No: HV45-Windward Environmental Project: LDW RI-Surface Sediment Chemistry 04-08-06-24 Date Sampled: 08/26/04 Date Received: 03/11/05

Sample Amount: 7.50 g Final Extract Volume: 0.50 mL Dilution Factor: 1.00 pH: NA Moisture: NA

Analyte	Lab Control	Spike Added	Recovery
1,2,4-Trichlorobenzene	117	167	70.1%
Pentachlorophenol	159	250	63.6%
N-Nitroso-Di-N-Propylamine	92.0	167	55.1%

Reported in $\mu g/kg$ (ppb)

2-Fluorobiphenyl	68.8%
d5-Phenol	70.7%
2-Fluorophenol	71.5%
d4-2-Chlorophenol	68.8%
d4-1,2-Dichlorobenzene	67.2%
d5-Nitrobenzene	67.6%
2,4,6-Tribromophenol	70.9%
d14-p-Terphenyl	87.6%

Lower Duwamish Waterway Group

Port of Seattle / City of Seattle / King County / The Boeing Company

BI Data Report Addendum Appendix **E**

AXYS METHOD MLA-010 Rev 05 19684-51 20 Page 1 of 6		Form 1A PCB CONGENER ANALYS	SIS REPORT		CLIENT ID: LDW-B1b-T	
				Sample Collection:	10-Aug-2004	
Lab Name. AXY3 ANALYTICAL (DERVICES			Project Number:	04 08 06 21	
Contract No.:	4033			Lab Sample ID:	L7510-1 I	
Matrix:	TISSUE			Sample Size:	1 44	g (wet)
Sample Receipt Date:	16-Dec-2004			Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005			Instrument ID:	HR GC/MS	
Analysis Date:	17-Feb-2005	Time: 1:48:2	0	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20			Sample Data Filename:	PB5C_084 S:6	
Injection Volume (μL):	10			Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N/A			Cal. Ver. Data Filename:	PB5C_084 S:1	

Concentration Units :

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		JB	3.60	0 123	3.27	1.001
3 - MoCB	2		JB	1.45	0.149	3.37	0.988
4 - MoCB	3		JB	3.39	0.183	3.28	1.000
2,2' - DiCB	4		В	32.9	0 730	1.45	1.001
2,3 - DiCB	5		J	1.12	0.647	1.58	1.198
2.3' - DiCB	6		В	28.3	0 595	1 50	1.176
2,4 - DiCB	7		J	6.10	0 576	1 36	1.158
2.4' - DiCB	8		В	131	0.551	1 50	1.207
2,5 - DiCB	9		J	6.40	0.590	1.61	1.146
2,6 - DICB	10		J	1.62	0.585	1.75	1.014
3,3' - DiCB	11		JB	13.6	0.663	1 50	0.968
3.4 - DiCB	12	12 + 13	СJ	15.5	0.639	1 70	0.983
3,4' - DiCB	13	12 + 13	C12				
3,5 - DICB	14		U		0.641		
4.4' - DiCB	15		В	111	0.850	1.47	1.001
2,2',3 - TriCB	16		В	118	0.197	1.09	1.166
2,2',4 - TriCB	17		в	234	0.187	1.05	1 139
2.2'.5 - TriCB	18	18 + 30	СВ	418	0.155	1.06	1.113
2,2',6 - TriCB	19		В	43.0	0 190	1.10	1.001
2,3,3' - TriCB	20	20 + 28	СВ	1710	0.363	1.01	0.848

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0060 AXYS ANALYTICAL SERVICES LTD PG BOX 2219, 2045 MILLS RD, WEST, SIDNEY, B.C., CANADA VBI 358 TE: (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05

L7510-1 i

Form 1A

Page 2 of 6 Lab Sample ID LDW-B1b-T

Project Number Sample Data Filename 04-08-06-21 PB5C_084 S[.]6

COMPOUND	IUPAC	CO-ELUTIONS	LAB	CONC.	DETECTION	ION ABUND.	RRT
COMPOUND	NO.	00.220110110	FI AG ¹	FOUND	LIMIT	RATIO	
		21 + 33	СВ	435	0.353	0.99	0.857
2.3.4 - TriCB	21	2 · 🖛 33	В	403	0 406	1.00	0.872
2.3.4' - TriCB	22		кJ	0 846	0.356	1 32	1 284
2.3,5 - TriCB	23		J		0.129	1.16	1.158
2,3,6 - TriCB	24		B	5.28 148	0.328	1 00	0.825
2.3',4 - TriCB	25	20 - 20	СВ	148 302	0.328	1.01	1 302
2,3',5 - TriCB	26	26 + 29	В	49 9	0 131	1.13	1 151
2,3',6 - TriCB	27	00 + 00	C20	400	0 101	1.10	
2,4,4' - TriCB	28	20 + 28					
2,4.5 - TriCB	29	26 + 29	C26 C18				
2.4,6 - TriCB	30	18 + 30	B	1390	0.373	1 01	0.837
2,4',5 - TriCB	31			224	0.347	1.03	1.197
2,4',6 - TriCB	32	04 + 00	B	224	0.347	1.03	1.197
2',3,4 - TriCB	33	21 + 33	C21 J	4,91	0.378	0.96	12/4
2',3,5 - TriCB	34		J	4.91	0.423	1.09	0.985
3,3 ',4 - TriCB	35			17.1	0.393	1.09	0.900
3.3',5 - TriCB	36		U	417	0.393	1.01	1.001
3,4,4' - TriCB	37		В KJ	417 1 53	0.376	1.01	0.969
3.4,5 - TriCB	38		J	12.0	0.372	0.95	0.947
3,4',5 - TriCB	39			838	0.117	0 79	1 337
2,2',3,3' - TeCB	40	40 + 41 + 71	CB	030	0117	075	1 337
2,2',3,4 - TeCB	41	40 + 41 + 71	C40	500	0.111	0.77	1 312
2,2',3,4' - TeCB	42		В	580	0.111	0 77	
2,2',3,5 - TeCB	43		В	109	0 125	0.78	1.247
2,2',3,5' - TeCB	44	44 + 47 + 65	СВ	2690	0.107	0.79 0.79	1.287 1.147
2,2',3,6 - TeCB	45	45 + 51	СВ	259	0.114		1 161
2,2',3,6' - TeCB	46		<u></u>	74 1	0.133	0.79	1 101
2,2',4,4' - TeCB	47	44 + 47 + 65	C44	004	0.440	0.70	4 074
2.2',4,5 - TeCB	48		В	364	0.113	0 79	1 274
2,2',4,5' - TeCB	49	49 + 69	СВ	2350	0 101	0.79	1.259 1.112
2,2',4,6 - TeCB	50	50 + 53	CB	271	0.111	0.78	1.112
2,2',4.6' - TeCB	51	45 + 51	C45				1 005
2,2',5,5' - TeCB	52		В	1070	0.113	0 70	1.235
2,2',5,6' - TeCB	53	50 + 53	C50				1 000
2,2',6.6' - TeCB	54		L	4.89	0 0806	0.78	1.002
2,3,3 ' ,4 - TeCB	55			116	0.418	0.75	0 889
2.3.3'.4' - TeCB	56		В	1180	0 428	0.75	0 904
2.3,3',5 - TeCB	57			21.6	0 410	0 67	0.843
2,3,3',5' - TeCB	58		J	13.1	0 404	0 79	0 851
2,3,3',6 - TeCB	59	59 + 62 + 75	СВ	255	0 0904	0.81	1.303
2,3,4,4' - TeCB	60		В	814	0 411	0.75	0.911 0.875
2.3,4.5 - TeCB	61	61 + 70 + 74 + 76	СВ	5970	0.379	0 77	0.875
2.3,4,6 - TeCB	62	59 + 62 + 75	C59	110	0.384	0.76	0.864
2.3.4'.5 ToCB	63			142	0.384	0.76	0.004

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Approved by

_QA/QC Chemist

01-03-2005 dd-mm-yyyy

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219 2045 MILLS RD. WEST, SIDNEY B.C., CANADA VOL 358 TEL 1250, 655-5800 FAX (250, 655-581)

AXYS	METHOD	MLA-010	Rev	05

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Form 1A Page 3 of 6

Lab Sample ID

CLIENT ID:

LDW-B1b-T

Project Number: Sample Data Filename 04-08-06-21 PB5C_084 S:6

COMPOUND	NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND. RATIO	RRT
2,3,4 '.6 - TeCB	64		В	956	0 0839	0.79	1 349
2.3.5.6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		В	3880	0.398	0.76	0 884
2,3 ',4,5 - TeCB	67			111	0.353	0.73	0.856
2,3'.4,5' - TeCB	68			27.9	0 388	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			49.6	0.407	0.78	0.823
2.3'.5',6 - TeCB	73		U		0.0897		
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 - IeCB	/6	61 + /U + /4 + /b	C61				
3.3'.4.4' - TeCB	77		В	310	0 461	0 76	1 000
3,3 ',4,5 - TeCB	78		U		0.444		
3,3',4,5' - TeCB	79			80.7	0.353	0 70	0 970
3,3',5,5' - TeCB	80		U	22.1	0.402 0.430	0.77	1.000
3,4,4',5 - TeCB	81		К	22. I 545	0.430	1.58	0.933
2.2',3,3',4 - PeCB	82						
2,2',3,3',5 - PeCB	83	83 + 99	СВ	7790	0.371	1.59	0.885
2,2',3,3',6 - PeCB	84		В	1130	0.398	1.58	1.163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СВ	1580	0.311	1.58	0.919
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125 86 + 87 + 97 + 108 + 119 + 125	C B C86	4900	0.308	1.59	0.901
2,2',3,4,5' - PeCB	87 88	88 + 91	C B	1210	0 341	1.59	1.155
2,2',3,4,6 - PeCB		00 + 91	C D	39.1	0.373	1.55	1.182
2,2',3.4,6' - PeCB	89	00 + 101 + 112	СВ	11400	0.373	1.55	0.869
2,2',3,4',5 - PeCB	90	90 + 101 + 113 88 + 91	C88	11400	0.511	1.50	0.003
2,2',3,4',6 - PeCB	91 92	00 + 91	B	1900	0,364	1 59	0.853
2,2',3,5,5' - PeCB		93 + 95 + 98 + 100 + 102	СB	5710	0.326	1 58	1 121
2,2',3,5,6 - PeCB 2,2',3,5,6' - PeCB	93 94	93 + 95 + 98 + 100 + 102	СB	20.9	0.352	1 66	1 102
2,2',3,5',6 - PeCB 2,2',3,5',6 - PeCB	94 95	93 + 95 + 98 + 100 + 102	C93	711 -	11.5.72		1 (177
2,2',3,6,6' - PeCB	96	00 1 00 1 00 1 100 1 102	000	23.9	0.147	1.58	1.015
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2.2'.4.4'.6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2'.4,5,5' - PeCB	100	90 + 101 + 113	C90				
2.2'.4.5.6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103			191	0.312	1.62	1.094
2.2'.4.6.6' - PeCB	104		J	1 39	0.139	1.52	1 001
2.3.3'.4.4' - PoCB	105		R	3340	0 387	1 50	1 000
2.3.3',4,5 - PeCB	106		U		0.342		
,							

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 Approved by _______QA/QC Chemist
 01-03-2005

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0006.2 •)((• AXYS ANALYTICAL SERVICES LTD P.O. 80): 2219 2045 MILLS RD WEST, SIDNEY, B.C., CANADA VBL 358 FEL (250): 655-5800 FAX (250): 655-5801 FAX (250): 655-5801

AXYS METHOD MLA-010 Rev 05 Form 1A Page 4 of 6 Lab Sample ID L7510-1 I

CLIENT ID:

LDW-B1b-T

Project Number Sample Data Filename 04-08-06-21 PB5C_084 S[.]6

COMPOUND	NO.	CO-ELUTIONS	LAB FLAG	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5 - PeCB	107	107 + 124	С	302	0.367	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			612	0.344	1.54	0.997
2.3,3',4',6 - PeCB	110	110 + 115	СВ	6630	0.263	1.59	0.925
2,3.3',5.5' - PeCB	111		KJ	8.75	0.268	2.01	0.945
2,3,3',5,6 - PeCB	112		U		0.262		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4.4',5 - PeCB	114			185	0.378	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		В	8940	0.350	1.53	1 001
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4.5,5' - PeCB	120			62.4	0.272	1.69	0.959
2,3',4,5',6 - PeCB	121		J	5.58	0.266	1.45	1 200
2'.3,3',4,5 - PeCB	122			116	0.392	1.58	1.010
2',3,4,4'.5 - PeCB	123			206	0.385	1,55	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 5	0 459	1 33	1 000
3.3',4.5,5' - PeCB	127			26.2	0.379	1.38	1.042
2,2',3,3',4,4' - HxCB	128	128 + 166	СВ	1950	0.416	1.27	0.958
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СB	17800	0 398	1 27	0.928
2,2',3,3',4,5' - HxCB	130			916	0 527	1.28	0.913
2,2',3,3',4,6 - HxCB	131		_	94.1	0 450	1 23	1.159
2.2',3.3',4,6' - HxCB	132		В	3270	0 477	1 27	1.174
2.2',3,3',5,5' - HxCB	133			269	0.456	1 24	1.191
2,2',3,3'.5,6 - HxCB	134	134 + 143	С	491	0.450	1 34	1.140
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	СВ	5580	0.383	1 27	1.104
2,2',3,3',6,6' - HxCB	136		В	1350	0.292	1.28	1.024
2,2',3,4,4',5 - H×CB	137		0400	687	0 492	1 26	0 918
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129		0.447	4.00	4.450
2,2',3,4.4',6 - HxCB	139	139 + 140	C	300	0 417	1 29	1 153
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4.5,5' - HxCB	141		В	2900	0 480	1 22	0.904
2,2',3.4.5,6 - HxCB	142		U		0 478		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134	770	0.007	4.00	4 4 9 4
2,2',3,4,5',6 - HxCB	144			772	0.397	1 29	1 121 1 033
2,2',3,4,6,6' - HxCB	145		J	3.16	0.296	1.19	
2,2',3,4',5,5' - HxCB	146	147 + 140	B	3330	0.422	1.26	0.884
2.2',3.4',5,6 - HxCB	147	147 + 149	СВ	13500 42.4	0.408	1.27 1.30	1 133 1 084
2,2'.3,4',5',6' - H×CB 2,2',3,4',5',6 - H×CB	149 149	147 + 149	C147	42.4	0.4096	1 211	084



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Form 1A

Page 5 of 6 Lab Sample 1D LDW-B1b-T

Project Number Sample Data Filename 04-08-06-21 PB5C_084 S:6

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.2',3.4',6,6' - HxCB	150			37 8	0.278	1 28	1 012
2,2',3.5,5'.6 - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6' - H×CB	152		J	4 10	0 276	1 16	1 006
2,2',4,4',5,5' - HxCB	153	153 + 168	СВ	22700	0.363	1.27	0.899
2,2',4.4'.5.6' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6' - HxCB	155		J	2.91	0.249	1.36	1.001
2,3,3',4,4',5 - HxCB	156	156 + 157	СВ	1300	0.417	1.26	1 000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6 - HxCB	158		В	1300	0.336	1.28	0.938
2,3,3',4.5,5' - HxCB	159		U		0.361		
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB	161		U		0.339		
2,3,3',4',5,5' - HxCB	162			31.4	0.363	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		В	663	0.340	1.27	0.921
2,3,3',5,5',6 - H×CB	165		J	6.69	0.378	1.33	0.878
2,3,4.4',5,6 - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167		В	607	0.331	1,27	1.001
2.3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		23.9		
2,2',3,3',4,4',5 - HpCB	170		В	3700	0.677	1.05	0.936
2,2',3,3',4,4',6 - HpCB	171	171 + 173	С	1120	0 643	1 05	1.162
2,2',3,3',4,5,5' - HpCB	172			646	0.665	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		В	2980	0.594	1.06	1 133
2,2',3,3',4,5',6 - HpCB	175			175	0.565	1.03	1 103
2,2'.3,3',4,6,6' - HpCB	176			447	0.417	1.06	1.034
2,2',3,3',4',5,6 - HpCB	177		В	2690	0.629	1.04	1 145
2,2',3,3',5,5',6 - HpCB	178			925	0 576	1.04	1.085
2,2',3,3',5,6,6' - HpCB	179		В	1450	0 405	1.06	1.010
2,2',3,4,4'.5,5' - HpCB	180	180 + 193	СB	10400	0.510	1 05	0 910
2,2',3,4,4',5,6 - HpCB	181			31.1	0.597	0.99	1 156
2,2',3,4,4',5,6' - HpCB	182			70.4	0.569	1 01	1.116
2,2',3,4,4',5',6 - HpCB	183	183 + 185	CB	3480	0.559	1.06	1.127
2,2',3,4,4',6,6' - HpCB	184		J	2.47	0.383	1.02	1.025
2,2',3,4,5,5',6 - HpCB	185	183 + 185	C183				
2.2',3,4.5.6,6' - HpCB	186		U		0.420		
2,2',3,4',5,5',6 - HpCB	187		В	7430	0 521	1.06	1.110
2,2'.3,4'.5.6,6' - HpCB	188		J	9.47	0 354	0.99	1.001
2,3,3',4,4',5,5' - HpCB	189		_	132	2.25	1.02	1.001
2,3,3',4,4',5,6 - HpCB	190		В	729	0.516	1.05	0.947
2,3,3'.4,4'.5',6 - HpCB	191			172	0.494	1.02	0 918
2,3,3',4,5,5',6 HpCB	192		U		0.520		

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QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD = 0 BOX 2219, 2045 MILLS RD, WEST SIDNEY B C., CANADA V8L 358 TEL (250) 655-5800 FAX (250) 655-5811

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AXYS METHOD MLA-010 Rev 05		CLIENT ID:			LDW-B1b-T		
Page 6 of 6	~			Project Number Sample Data Filename		04-08-06-21 PB5C_084 S:6	
COMPOLIND	NO.	CO-FI UTIONS	I AB FLAG ¹	CONC FOUND	DETECTION LIMIT	ION ARUND RATIO	RRT
2.3.3'.4',5.5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194		В	1510	1 41	0.90	0.991
2,2',3,3',4,4',5,6 - OcCB	195		В	524	1.51	0.90	0.945
2,2',3,3',4,4',5,6' - OcCB	196		В	757	0 0850	0.88	0 916
2,2',3,3',4.4'.6,6' - OcCB	197	197 + 200	С	162	0.0601	0.90	1 046

СВ

C198

C197

В

В

В

KJB

В

В

R

В

1870

235

449

1220

0.924

86.4

499

56.0

122

139

0 0843

0.0608

0.0613

0.0770

0.0619

1.31

0.370

0.290

0.294

0.0569

0.90

0.91

0.91

0.89

1.28

0.87

0.79

0.78

0.81

0.68

1 1 1 5

1.023

1.001

0.920

1.039

1.000

1.001

1.020

1.001

1.001

(1) C = co-eluting congener, U = not detected; K = peak detected, but did not meet quantification criteria. result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

198 + 199

198 + 199

197 + 200

These pages are part of a larger report that may contain information necessary for full data evaluation.

198

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209

2,2',3,3',4,5,5',6 - OcCB

2,2',3,3',4.5,5',6' - OcCB

2,2',3,3',4,5,6,6' - OcCB

2,2',3,3',4,5',6,6' - OcCB

2,2',3,3',5,5',6,6' - OcCB

2,2',3,4,4',5,5',6 - OcCB

2,2',3,4,4',5,6,6' - OcCB

2,3,3',4,4',5,5',6 - OCCB

2,2',3,3'.4,4',5,5',6 - NoCB

2,2',3,3'.4,4',5,6,6' - NoCB

2,2',3,3',4,5,5',6,6' - NoCB

2,2',3,3',4,4',5,5'.6,6' - DeCB

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Approved by.

QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219 2045 MILLS RD. WEST SIDNEY, B.C. CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID: LDW-B1b-T

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

			Sample Collection:		10-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-1 i	
Matrix:	TISSUE		Sample Size:		1 44	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration)ate:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	17-Feb-2005	Time: 1:48:20	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filenan	ie:	PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filen	ame:	PB5C_084 S:1	
Dilution Factor:	N/A		PB5C_084 S:6			
Concentration Units :	ng/kg (wet weight be	asis)				
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			8.43	0.183		
Total Dichloro Biphenyls			348	0.850		
Total Trichloro Biphenyls			5940	0.450		
Total Tetrachloro Biphenyls			25500	0.461		
Total Pentachloro Biphenyls			56900	0.459		
Total Hexachloro Biphenyls			80000	23.9		
Total Heptachloro Biphenyls			36600	2.25		

(1) U = Not detected

Total Octachloro Biphenyls

Total Nonachloro Biphenyls

Decachloro Biphenyl

TOTAL PCBs

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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1.51

0.370

0.0569

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MAXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD. WEST SIDNEY B C. CANADA V8L 358 TEL -2501 655-5800 FAX -2501 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TEO-DL_ 1-Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-B1b-T

Lab Name: AXYS ANALYTICAL S	ab Name: AXYS ANALYTICAL SERVICES				
Contract No.:	4033	Project Number:	04-08-06-21		
Matrix:	TISSUE	Lab Sample ID:	L7510-1 i		
Sample Size:	1 44 g (wet)	GC Column ID(s):	SPB-OCTYL		
Concentration Units :	ng/kg (wet weight basis)	Sample Datafile(s):	PB5C_084 S:6		

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			310	0.461	0.0001	3.10E-02	3.10E-02
3,4,4',5-TetraCB	81		U		0.430	0.0001	2.15E-05	0.00E+00
2,3,3'.4,4'-PentaCB	105			3340	0.387	0.0001	3.34E-01	3.34E-01
2,3,4,4',5-PentaCB	114			185	0 378	0.0005	9.24E-02	9.24E-02
2,3',4,4',5-PentaCB	118			8940	0.350	0.0001	8.94E-01	8.94E-01
2',3,4,4',5-PentaCB	123			206	0.385	0.0001	2.06E-02	2.06E-02
3,3',4,4',5-PentaCB	126			17.5	0.459	0 1	1.75E+00	1.75E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	С	1300	0.417	0.0005	6.51E-01	6.51E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			607	0 331	0.00001	6.07E-03	6.07E-03
3,3',4,4',5,5'-HexaCB	169		U		23.9	0.01	1 19E-01	0.00E+00
2,3,3',4,4',5,5'-HeptaGB	180			132	2.25	0.0001	1 32E-02	1.32E-02

TOTAL TEQ 3.92 3.80

C = co-eluting congener. U = not detected
 Concentrations that do not meet quantification criteria are not included in the TEQ calculations.

These pages are part of a larger report that may contain information necessary for full data evaluation.

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AXYS METHOD MLA-010 Rev 05 1968A-S1_209 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-B2a-T	
			Sample Collection:	14-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7510-2	
Matrix:	TISSUE		Sample Size:	9 43	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 11-13:31	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_075 S:4	
Injection Volume (μL):	10		Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_075 S:1	

Concentration Units :

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		JB	1.36	0.0285	2.84	1.001
3 - MoCB	2		JB	1.06	0.0368	3 16	0.988
4 - MoCB	3		JB	1.60	0.0369	3.09	1.000
2,2' - DiCB	4		в	21 3	0.132	1 54	1 001
2,3 - DiCB	5		J	0.941	0.112	1.57	1.198
2,3' - DiCB	6		В	24.2	0.106	1.51	1 176
2,4 - DiCB	7			5.08	0.105	1.50	1 158
2,4" - DiCB	8		В	124	0.102	1.52	1 207
2,5 - DiCB	9			3.31	0.104	1.53	1 146
2.6 - DiCB	10		J	1.70	0.102	1.58	1 014
3.3' - DiCB	11		R	21.2	0 120	1 51	0 969
3,4 - DiCB	12	12 + 13	С	16.4	0.119	1.49	0.984
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		J	0.226	0 114	1.51	0.926
4,4' - DiCB	15		В	141	0 138	1.50	1 002
2.2',3 - TriCB	16		В	121	0.0346	1.04	1 166
2,2',4 - TriCB	17		В	287	0.0304	1.04	1 139
2.2',5 - TriCB	18	18 + 30	СВ	369	0.0244	1 05	1 113
2,2',6 - TriCB	19		в	33.8	0.0323	1.05	1 001
2,3,3' - TriCB	20	20 + 28	СВ	1750	0.250	1 00	0.848

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MAXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD, WEST SIDNEY B.C., CANADA VOL 358 FEI (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05

Form 1A Page 2 of 6

Lab

LDW-B2a-T

rm 1A									
ge 2 of 6					Project Numbe	r	04-08-06-21		
o Sample ID	L	7510-2			Sample Data F	ilename	PB5C_075 S.4		
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT	
	DOA THCP	21	21 + 33	СВ	454	0.256	0 99	0.857	
	2.3,4 - TriCB	21	21, 00	В	293	0.279	0.98	0.872	
	2.3,4' - TriCB 2.3,5 - TriCB	22		J	0 736	0 257	0.90	1.283	
		24		0	4 75	0.0213	1.10	1.159	
	2,3,6 - TriCB	24 25		В	143	0.235	0.98	0.825	
	2.3'.4 - TriCB 2.3'.5 - TriCB	25 26	26 + 29	СВ	270	0.257	0.99	1 302	
	2.3'.6 - TriCB	20	20 . 20	B	57.7	0.0205	1.05	1 151	
	2,4,4' - TriCB	28	20 + 28	C20					
	2,4,5 - TriCB	20	26 + 29	C26					
	2.4,5 - TriCB	30	18 + 30	C18					
	2,4',5 - TriCB	31	10 100	В	1060	0.250	0.99	0.837	
	2,4',6 - TriCB	32		B	233	0.238	0.98	1.197	
	2,4,6 - TriCB 2',3,4 - TriCB	32	21 + 33	C21	200	0.200	0.00		
	2',3,5 - TriCB	34	21.00	021	11 1	0.258	0.95	1.274	
	3,3',4 - TriCB	35			19.4	0.319	0.98	0.985	
	3,3',5 - TriCB	36		KJ	0 909	0.261	0.82	0.932	
	3,4,4' - TriCB	37		В	343	0.278	0.98	1.001	
	3,4,5 - TriCB	38		2	3.99	0.280	0.95	0.969	
	3,4',5 - TriCB	39			17.4	0.273	0.90	0 947	
	2,2',3,3' - TeCB	40	40 + 41 + 71	СВ	1180	0 0449	0 78	1 338	
	2,2',3,4 - TeCB	41	40 + 41 + 71	C40					
	2,2',3,4' - TeCB	42		В	728	0.0467	0 78	1 312	
	2,2',3,5 - TeCB	43		B	98.0	0.0494	0.79	1 247	
	2,2',3,5' - TeCB	43	44 + 47 + 65	СВ	2600	0.0400	0 79	1 287	
	2,2',3,6 - TeCB	45	45 + 51	СВ	282	0.0419	0 79	1 147	
	2,2',3,6' - TeCB	46			68.0	0 0504	0 78	1 161	
	2,2',4,4' - TeCB	47	44 + 47 + 65	C44					
	2,2',4,5 - TeCB	48		В	509	0.0437	0.79	1.275	
	2,2',4,5' - TeCB	49	49 + 69	СВ	2570	0 0389	0 79	1 260	
	2,2',4,6 - TeCB	50	50 + 53	СВ	291	0.0404	0.79	1 112	
	2,2',4,6' - TeCB	51	45 + 51	C45					
	2,2',5,5' - TeCB	52		E					
	2,2',5,6' - TeCB	53	50 + 53	C50					
	2,2',6,6' - TeCB	54			3.02	0.0300	0 79	1 002	
	2,3,3',4 - TeCB	55			30.7	0.351	0.74	0 889	
	2,3,3',4' - TeCB	56		В	1040	0.366	0 74	0.904	
	2,3,3',5 - TeCB	57			22.1	0.371	0.72	0.843	
	2,3.3',5' - TeCB	58			17.5	0.364	0.67	0.851	
	2,3.3'.6 - TeCB	59	59 + 62 + 75	СВ	288	0.0341	0.79	1.303	
	2,3.4,4' - TeCB	60		В	545	0.358	0.74	0.911	
	2,3,4.5 - TeCB	61	61 + 70 + 74 + 76	CE					
	2,3,4,6 - TeCB	62	59 + 62 + 75	C59					
	2,3.4',5 TeCB	63			155	0.353	0 73	0,864	

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QA/QC Chemist

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AXYS METH	OD MLA-01	0 Rev	05
Form 1A			

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Page 3 of 6

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Lab Sample ID

LDW-B2a-T

Project Number Sample Data Filename 04-08-06-21 PB5C_075 S:4

	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND. RATIO	RRT
	2,3,4 ` .6 - TeCB	64		в	951	0.0325	0 79	1 350
	2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
	2,3'.4,4' - TeCB	66		В	3590	0 341	0 74	0.884
	2,3',4.5 - TeCB	67			120	0 337	0 72	0.857
	2,3',4,5' - TeCB	68			49.5	0.335	0 73	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			80.0	0.339	0.71	0 823
	2,3',5',6 - TeCB	73		U		0.0338		
	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		В	247	0 376	0.74	1 000
	3,3 ',4,5 - TeCB	78		U		0 386		
	3.3'.4.5' - TeCB	79			76.0	0 311	0.68	0.970
	3,3',5,5' - TeCB	80		U		0.335		
	3,4,4 ' ,5 - TeCB	81			12.1	0.331	0.78	1.001
2	2,2',3,3',4 - PeCB	82			509	0.249	1 57	0.934
2	2,2',3,3',5 - PeCB	83	83 + 99	CE				
2	2,2',3,3',6 - PeCB	84		В	945	0.237	1.58	1.163
2	2,2',3,4,4' - PeCB	85	85 + 116 + 117	СB	1340	0.191	1.57	0.920
	2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CE				
	2,2',3.4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86	1050	0.005		4.455
	2,2',3,4,6 - PeCB	88	88 + 91	СВ	1050	0.205	1 57	1 155
	2,2',3,4,6' - PeCB	89			48.3	0.219	1 59	1 182
	2,2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
	2,2',3,4',6 - PeCB	91	88 + 91	C88				
	2,2',3,5,5' - PeCB	92		В	1770	0.220	1 57	0.853
	2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CE				
	2.2',3,5.6' - PeCB	94		000	26.8	0.212	1.54	1 103
	2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93	20.8	0.0452	1 57	1.015
	2.2',3.6.6' - PeCB	96	96 · 97 · 07 · 409 · 440 · 495	0.96	20.8	0 0453	1.57	1.015
	2.2',3',4.5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
	2.2',3'.4,6 - PeCB	98 99	93 + 95 + 98 + 100 + 102 83 + 99	C93 C83				
	2.2'.4.4',5 - PeCB							
	2,2'.4.4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
	2.2'.4.5.5' - PeCB	101 102	90 + 101 + 113 93 + 95 + 98 + 100 + 102	C90 C93				
	2,2',4.5,6' - PeCB	102	95 T 95 T 96 T 100 T 102	095	124	0 185	1.57	1 094
	.,2',4,5',6' - PeCB	103		J	0.826	0 0416	1.61	1 001
		104		B	2180	0 358	1.50	1 000
	2,3,3',4,5 - PeCB	106		U	2100	0 353	1.00	1 000
4	1,0,0, 1 ,0*FEOD	.00		0		0.000		

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Approved by

_QA/QC Chemist

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AXYS METHOD MLA-010 Rev 05	CLIENT ID:
Form 1A	
Page 4 of 6	Project Number

Lab Sample ID

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L7510-2

Sample Data Filename.

04-08-06-21 PB5C_075 S:4

LDW-B2a-T

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	COMPOUND	NO.	CO-FI UTIONS	I AB FLAG ¹	CONC FOUND	DETECTION	ION ABUND RATIO	RRT
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,3.3'.4',5 - PeCB	107	107 + 124	С	249	0.369	1.54	0.991
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2,3.3°.4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,3,3',4.6 - PeCB	109			585	0.349	1.51	0.997
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	2.3.3'.4'.6 - PeCB	110	110 + 115	CE				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2.3,3',5,5' - PeCB	111			6.90	0 166	1.59	0.945
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2.3,3',5,6 - PeCB	112		U		0 164		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,5,6 - PeCB 116 85 + 116 + 117 C85 2,3,4,5,6 - PeCB 117 85 + 116 + 117 C25 2,3',4,4',5 - PeCB 118 E 2,3',4,4',5 - PeCB 119 86 + 87 + 97 + 108 + 119 + 125 C36 2,3',4,5',5 - PeCB 120 51.8 0.167 1.58 0.95 2,3',4,5',5 - PeCB 120 69.3 0.408 1.51 1.01 2',3,4,5',5 - PeCB 122 0.964 1.52 1.00 2',3,4,5',5 - PeCB 122 0.364 1.52 1.00 2',3,4,5',5 - PeCB 126 86 + 87 + 97 + 108 + 119 + 125 C26 17.8 0.438 1.44 1.00 3,3',4,5',5 - PeCB 126 86 + 87 + 97 + 108 + 119 + 125 C26 17.8 0.438 1.44 1.00 3,3',4,5',5 - PeCB 126 128 + 166 + 163 C E 129 129 + 138 + 160 + 163 C E 0.400 1.25 0.937 2,2',3,3',4,5' + HxCB 130 718 0.368 1.25 1.17 2,2',3,3',4,5' + HxCB 132 8 2760 0.468 1.25	2,3,4,4',5 - PeCB	114			112	0.369	1.52	1.000
2,3,4,5,6 - PeCB117 $85 + 116 + 117$ C852,3,4,4,5 - PeCB118E2,3,4,4,5 - PeCB110 $86 + 87 + 97 + 108 + 119 + 125$ C362,3,4,4,5 - PeCB120 51.8 0.167 1.580.952,3,4,5,5 - PeCB121 2.58 0.1601.661.202,3,4,5,5 - PeCB122 69.3 0.4081.511.011,2,3,4,4,5 - PeCB122 0.408 1.511.012,3,4,4,5 - PeCB124107 + 124C1071.521.002,3,4,4,5 - PeCB125 $86 + 87 + 97 + 108 + 119 + 125$ C361.441.003,3,4,4,5 - PeCB126 $86 + 87 + 97 + 108 + 119 + 125$ C361.441.003,3,4,4,5 - PeCB126 $86 + 87 + 97 + 108 + 119 + 125$ C361.441.003,3,4,4,5 - PeCB128128 + 166C B13600.4401.250.9512,2,3,3,4,4 - HxCB128128 + 166 + 163C E1.250.9411.241.1652,2,3,3,4,4 - HxCB1302770.4481.251.171.1612,2,3,3,4,5 - HxCB133134 + 143C3960.4601.251.172,2,3,3,5,6 - HxCB134134 + 143C3960.4601.251.1442,2,3,4,5,5 - HxCB138139 + 140 + 163C12922;3,4,5,6 + HxCB1361.271.1022,2,3,4,5,5 - HxCB138139 + 140 + 163C12922;3,4,5,6 + HxCB1.250.903 <th>2,3,4,4',6 - PeCB</th> <td>115</td> <td>110 + 115</td> <td>C110</td> <td></td> <td></td> <td></td> <td></td>	2,3,4,4',6 - PeCB	115	110 + 115	C110				
E 2.3'.4.4'.5 - PeCB 119 86 + 87 + 97 + 108 + 119 + 125 C86 2.3'.4.5'.5 - PeCB 120 - 51.8 0.167 1.58 0.95 2.3'.4.5'.5 - PeCB 120 - 51.8 0.160 1.66 1.20 2.3.3'.4.5'.5 - PeCB 122 - 69.3 0.408 1.51 1.01 2.3.4.5'.5 - PeCB 123 - 122 0.364 1.52 1.00 2.3.4.5'.5 - PeCB 124 107 + 124 C107 2.3.4.5'.5 - PeCB 125 86 + 87 + 97 + 108 + 119 + 125 C86 3.3'.4.4'.5 - PeCB 126 - 17.8 0.438 1.44 1.00 3.3'.4.5'.5 - PeCB 126 27 0.64 1.25 0.965 2.2'.3.3'.4.5' - PeCB 128 126 - 17.8 0.438 1.44 1.00 3.3'.4.5'.5 - PeCB 129 129 + 138 + 166 + 163 C E 2.2'.3.3'.4.5' - HxCB 130 - 118 0.536 1.25 0.911 2.2'.3.3'.4.5' - HxCB 130 - 118 0.536 1.25 0.911 2.2'.3.3'.4.5' - HxCB 131 - 207 0.448 1.25 1.177 2.2'.3.3'.5.6' + HxCB 133 - 207 0.448 1.25 1.177 2.2'.3.3'.5.6' + HxCB 133 - 207 0.448 1.25 1.179 2.2'.3.3'.5.6' + HxCB 134 134 + 143 C 396 0.460 1.25 1.174 2.2'.3.3'.5.6' + HxCB 135 135 + 151 + 154 CB 3810 0.0985 1.27 1.100 2.2'.3.3'.5.6' + HxCB 138 129 + 138 + 160 + 163 CL9 2.2'.3.4'.5' - HxCB 138 129 + 138 + 160 + 163 CL9 2.2'.3.4'.5' - HxCB 134 134 + 144 C 396 0.460 1.25 1.174 2.2'.3.3'.5.6' + HxCB 134 134 + 143 C 396 0.460 1.25 1.174 2.2'.3.3'.5.6' + HxCB 134 134 + 143 C 396 0.460 1.25 1.174 2.2'.3.3'.5.6' + HxCB 134 134 + 144 C 396 0.460 1.25 1.174 2.2'.3.4'.5.6' + HxCB 138 129 + 138 + 160 + 163 CL9 2.2'.3.4.4'.5' + HxCB 134 134 + 143 C 139 - 140 0.400 1.24 0.611 2.2'.3.4.5.6' + HxCB 134 134 + 143 C 139 - 140 0.400 1.24 0.611 2.2'.3.4.5.6' + HxCB 140 139 + 140 C 139 - 122 0.473 1.27 1.162 2.2'.3.4.5.6' + HxCB 141 B 139 1.139 + 140 C 139 - 122 0.473 1.27 1.155 2.2'.3.4.5.6' + HxCB 141 B 139 1.134 + 143 C134 - 127 1.162 2.2'.3.4.5.6' + HxCB 144 1.27 1.127 1.122 2.2'.3.4.5.6' + HxCB 144 1.27 1.127 1.121 2.2'.3.4.5.6' + HxCB 144 1.27 1.127 1.121 2.2'.3.4.5.6' + HxCB 144 1.27 1.127 1.122 2.2'.3.4.5.6' + HxCB 144 1.27 1.127 1.121 2.2'.3.4.5.6' + HxCB 144 1.34 + 143 C134 - 127 1.121 2.2'.3.4.5.6' + HxCB 144 1.34 + 143 C134 - 136 1.25 0.800 3.2'.2'.3.4.5.6' + HxCB 144 1.34 + 147 1.47 + 149 CE	2,3,4,5,6 - PeCB	116	85 + 116 + 117	C85				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2,3,4',5,6 - PeCB	117	85 + 116 + 117	C85				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,3',4,4',5 - PeCB	118						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,3',4,5,5' - PeCB	120						0.959
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2.3'.4.5',6 - PeCB							1.200
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								1.010
2'3,4,5,6' - PeCB125 $86 + 87 + 97 + 108 + 119 + 125$ C863,3',4,5' - PeCB12617.80.4381.441.003,3',4,5' - PeCB12720.60.4071.511.042,2'3,3',4,5' - PeCB128128 + 166C B13600.4401.550.9552,2'3,3',4,5' - HxCB128128 + 166 + 163C E1780.5361.250.9752,2'3,3',4,5' - HxCB1307180.5361.250.9750.9752,2'3,3',4,6' - HxCB13182.20.4471.241.1562,2'3,3',4,6' - HxCB132B27600.4681.251.192,2'3,3',5,6' - HxCB1332070.4481.251.192,2'3,3',5,6' - HxCB134134 + 143C B3960.4601.251.1442,2'3,3',5,6' - HxCB136129 + 138 + 160 + 163C191291.240.9132,2'3,3,4,4',6' - HxCB138129 + 138 + 160 + 163C191.271.0240.9132,2'3,4,4',6' - HxCB138129 + 138 + 160 + 163C191.271.1512,2'3,4,4',6' - HxCB140139 + 140C 1940.4241.271.1512,2'3,4,4',6' - HxCB143134 + 143C1341.271.241.1532,2'3,4,5,5' - HxCB141B15800.4651.250.9032,2'3,4,5,6' - HxCB143134 + 143C1341.271.1212,2'3,4,5,6' - HxCB143					122	0.364	1.52	1.000
3,3',4,4',5 - PeCB 126 17.8 0.438 1.44 1.00 3,3',4,4',5 - PeCB 127 20.6 0.407 1.51 1.04 2,2',3,3',4,5 - HxCB 129 129 + 138 + 166 C B 1360 0.440 1.25 0.955 2,2',3,3',4,5 - HxCB 129 129 + 138 + 166 + 163 C E								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,3',4,4' + HxCB 128 128 + 166 C B 1360 0.440 1.25 0.951 2,2',3,3',4,5' + HxCB 129 129 + 138 + 160 + 163 C E								
111 <th< th=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>								
2,2',3,3',4,5' + HxCB130/180.5361.250.913 $2,2',3,3',4,6' + HxCB$ 131 82.2 0.4471.241.156 $2,2',3,3',4,6' + HxCB$ 132B27600.4681.251.174 $2,2',3,3',5,5' + HxCB$ 1332070.4481.251.191 $2,2',3,3',5,6' + HxCB$ 134134 + 143C3960.4601.251.140 $2,2',3,3',5,6' + HxCB$ 135135 + 151 + 154C B38100.09851.271.104 $2,2',3,3',5,6' + HxCB$ 136135 + 151 + 154C B38100.09851.271.104 $2,2',3,4,4',5' + HxCB$ 138129 + 138 + 160 + 163C1291.240.9180.1031.271.153 $2,2',3,4,4',6' + HxCB$ 139139 + 140C1940.4241.250.903 $2,2',3,4,4',6' + HxCB$ 140139 + 140C 1391.250.9030.9131.271.153 $2,2',3,4,5,6' + HxCB$ 141B15800.4651.250.9030.9131.271.124 $2,2',3,4,5,6' + HxCB$ 143134 + 143C1341.271.1241.0330.9031.271.124 $2,2',3,4,5,6' + HxCB$ 1444900.1031.271.1241.0330.9031.271.124 $2,2',3,4,5,6' + HxCB$ 143134 + 143C1342.770.07471.141.0330.903 $2,2',3,4,5,6' + HxCB$ 1452.770.07471.14					1360	0.440	1.25	0.958
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			129 + 138 + 160 + 163	CE	(1)	0.640	a ()+	0.040
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				Þ				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				D				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			124 + 142	C				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			135 + 151 + 154					
2,2',3,4,4',5' - HxCB138 $129 + 138 + 160 + 163$ C1292,2',3,4,4',6 - HxCB139139 + 140C1940.4241.271 1532,2',3,4,4',6' - HxCB140139 + 140C139				U				
2,2',3,4,4',6 - HxCB 139 139 + 140 C 194 0.424 1.27 1 153 2,2',3,4,4',6' - HxCB 140 139 + 140 C139			129 + 138 + 160 + 163	C129			1 . Ken 1	01010
2,2',3,4,4'6' - HxCB 140 139 + 140 C139 2,2',3,4,5,5' - HxCB 141 B 1580 0.465 1.25 0.903 2,2',3,4,5,6' - HxCB 142 U 0.473 0.473 0.473 2,2',3,4,5,6' - HxCB 143 134 + 143 C134 1.27 1.121 2,2',3,4,5,6' - HxCB 144 490 0.103 1.27 1.121 2,2',3,4,6,6' - HxCB 145 2.77 0.0747 1.14 1.033 2,2',3,4',5,5' - HxCB 146 B 2160 0.413 1.25 0.884 2,2',3,4',5,6 - HxCB 147 147 + 149 C E C C C					194	0.424	1.27	1 153
2,2',3,4,5,6' - HxCB 141 B 1580 0.465 1.25 0.903 2,2',3,4,5,6 - HxCB 142 U 0.473 0.473 0.473 2,2',3,4,5,6' - HxCB 143 134 + 143 C134 127 1.121 2,2',3,4,5,6 - HxCB 144 490 0.103 1.27 1.121 2,2',3,4,5,6 - HxCB 145 2.77 0.0747 1.14 1.033 2,2',3,4',5,5' - HxCB 146 B 2160 0.413 1.25 0.884 2,2',3,4',5,6 - HxCB 147 147 + 149 C E C								
2,2',3,4,5,6 - HxCB 142 U 0.473 2,2',3,4,5,6' - HxCB 143 134 + 143 C134 2,2',3,4,5,6 - HxCB 144 490 0.103 1.27 1.121 2,2',3,4,5,6 - HxCB 144 2.77 0.0747 1.14 1.033 2,2',3,4',5,5' - HxCB 146 B 2160 0.413 1.25 0.884 2,2',3,4',5,6 - HxCB 147 147 + 149 C E C E C E C E				В	1580	0,465	1.25	0.903
2,2',3,4,5,6' - HxCB 143 134 + 143 C134 2,2',3,4,5,6 - HxCB 144 490 0.103 1.27 1.121 2,2',3,4,6,6' - HxCB 145 2.77 0.0747 1.14 1.033 2,2',3,4',5,5' - HxCB 146 B 2160 0.413 1.25 0.884 2,2',3,4',5,6 - HxCB 147 147 + 149 C E C C C								
2,2',3,4,5',6 - HxCB 144 490 0.103 1.27 1.121 2,2',3,4,6,6' - HxCB 145 2.77 0.0747 1.14 1.033 2,2',3,4',5,5' - HxCB 146 B 2160 0.413 1.25 0.884 2,2',3,4',5,6' - HxCB 147 147 + 149 C E C E C E C E			134 + 143	C134				
2.2',3.4,6,6' - HxCB 145 2.77 0.0747 1.14 1.033 2,2',3.4',5,5' - HxCB 146 B 2160 0.413 1.25 0.884 2,2',3.4',5,6 - HxCB 147 147 + 149 C E C E C E C E					490	0,103	1,27	1,121
2,2'.3,4'.5,6 - HxCB 147 147 + 149 C E					2.77			1.033
		146		В	2160	0.413	1.25	0.884
2.2'.3.4'.5.6' HxCB 148 22.0 0.102 1.29 1.084	2,2',3,4',5,6 - HxCB	147	147 + 149	CE				
	2,2',3.4',5.6' HxCB	148			22.0	0 102	1.29	1 084
2,2',3,4',5',6 - HxCB 149 147 + 149 C147	2,2'.3.4'.5'.6 - HxCB	149	147 + 149	C147				

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QA/QC Chemist

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(250) 655-5800 FAX (250) 655-5801

AXYS METHOD	MLA-010 Rev 05
Form 1A	
Page 5 of 6	

CLIENT ID:

LDW-B2a-T

Form 1A								
Page 5 of 6					Project Numbe		04-08-06-21	
Lab Sample ID	L	_7510-2			Sample Data F	ilename	PB5C_075 S·4	
COMPO	OUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.2',3,4',6,6' -	HxCB	150			18 4	0.0730	1.27	1 013
2,2',3,5,5',6 -		151	135 + 151 + 154	C135				
2,2',3,5,6,6' -		152			6.25	0 0715	1.25	1 007
2,2',4,4',5,5' -		153	153 + 168	CE				
2,2',4,4',5,6' -		154	135 + 151 + 154	C135				
2,2',4,4',6,6' -		155		J	0,665	0.0604	1.23	1.001
2,3,3',4,4',5 -		156	156 + 157	СВ	917	0.446	1.25	1.000
2,3,3',4,4',5' -		157	156 + 157	C156				
2,3,3'.4,4',6 -		158		В	996	0.352	1.25	0.938
2,3,3',4,5,5' -		159		U		0.385		
2,3,3',4,5,6 -		160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 -		161		U		0 343		
2,3,3',4',5,5' -		162			29.6	0.382	1 27	0 989
2,3,3',4',5,6 -		163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 -		164		В	592	0.356	1.25	0.921
2,3,3',5,5',6 -	НхСВ	165			8.30	0.376	1.34	0.878
2,3,4,4',5,6 -	НхСВ	166	128 + 166	C128				
2,3',4,4',5,5' -	НхСВ	167		в	382	0.343	1.26	1.000
2,3',4,4',5',6 -	НхСВ	168	153 + 168	C153				
3,3',4,4',5,5' -	НхСВ	169		U		14.1		
2,2',3,3',4,4',5 -	НрСВ	170		в	2300	0.150	1.05	0.936
2,2',3,3',4,4',6 -	НрСВ	171	171 + 173	С	702	0.139	1.04	1.163
2,2',3,3',4,5,5' - 1	НрСВ	172			360	0.143	1.05	0.897
2,2',3,3',4,5,6 - 1	НрСВ	173	171 + 173	C171				
2,2',3,3',4,5,6' -	НрСВ	174		в	1930	0.128	1.05	1 133
2,2',3,3',4,5',6 -	HpCB	175			106	0 120	1.06	1 103
2,2',3,3',4,6,6' -	НрСВ	176			309	0.0869	1.05	1 034
2,2',3,3',4'.5,6 -	НрСВ	177		В	1790	0.133	1.05	1.145
2,2',3,3',5.5',6 -	НрСВ	178			703	0.122	1.06	1.085
2,2',3,3',5,6,6' -	НрСВ	179		В	988	0.0841	1.06	1.010
2,2',3,4,4',5,5' -	НрСВ	180	180 + 193	CE				
2,2',3,4,4',5,6 - 1	НрСВ	181			17.9	0.126	1.02	1.156
2,2',3,4,4',5,6' -	НрСВ	182			20.1	0.123	1.03	1.116
2,2',3,4,4',5',6 -	НрСВ	183	183 + 185	СВ	1970	0.120	1.05	1.127
2,2',3,4,4',6,6' -	HpCB	184		J	1.95	0.0795	1.14	1.025
2,2',3,4,5,5',6 - 1	НрСВ	185	183 + 185	C183				
2.2',3,4,5,6,6' - 1	НрСВ	186		U		0 0883		
2,2',3,4',5,5',6 - 1	НрСВ	187		Е				
2,2',3,4',5,6,6' -	НрСВ	188			4.59	0.0659	1 08	1 000
2,3,3',4,4'.5,5' -	НрСВ	189			717	0 637	0 96	1 000
2,3.3',4,4',5,6 -	НрСВ	190		В	489	0 119	1 05	0.947
2,3,3',4.4',5',6 - 1		191			83.9	0.113	1.05	0.918
2 3 3' 4 5.5' 6 + 1	HpCB	192				0 119		

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AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		LDW-B2a-T	
Page 6 of 6				Project Numbe	r	04-08-06-21	
0	7510-2			Sample Data F		PB5C_075 S 4	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3.3'.4',5.5',6 - HpCB	193	180 + 193	C180				
2.2',3,3',4,4',5,5' - OcCB	194		В	631	0.272	0 90	0 991
2,2',3.3',4,4'.5.6 - OcCB	195		В	299	0 315	0.89	0 945
2.2'.3.3'.4.4'.5.6' - OcCB	196		В	396	0 0071	0.89	0.916
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	С	114	0.0049	0.88	1 046
2.2',3,3'.4,5,5'.6 - OcCB	198	198 + 199	СВ	975	0.0073	0 90	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		В	142	0.0049	0 89	1.023
2,2',3,3',5,5',6,6' - OcCB	202		В	247	0.0047	0.91	1.000
2,2',3,4,4',5,5',6 - OcCB	203		В	611	0.0069	0 90	0.920
2,2',3,4,4',5.6,6' - OcCB	204		JB	0.358	0.0050	0 93	1.039
2,3,3`.4,4`,5,5',6 - Ucub	205		в	33.6	0.244	0.91	1.000
2,2',3,3',4,4',5,5',6 - NoCB	206		В	167	0.0678	0.78	1.000
2,2',3,3',4,4',5,6,6' - NoCB	207			24 4	0.0568	0 79	1.020
2,2',3,3',4,5,5',6,6' - NoCB	208		В	59.5	0.0572	0 79	1.001
2,2',3,3',4,4',5,5',6,6' - DeCB	209		В	44.4	0.0042	0 70	1.000

(1) C = co-eluting congener. U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743AD2_1 KIS S2

Approved by _____

QA/QC Chemist

27-02-2005 dd-mm-yyyy

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MO AXYS ANALYTICAL SERVICES LTD PO 80), 2219 2045 MILLS RD, WEST, SIDNEY, B.C., CANADA VOI 358 TEL (250) 655-5800 FAX (250 655-581)

AXYS METHOD MLA-010 Rev 05 16084-S1 209 Page 1 of 6	PCB	PORT			CLIENT ID: LDW - B2a-T		
				Sample Collect	on:	14-Aug-2004	
Lab Name: AXYS ANALYTICAL S	ERVICES			Project Number		04-08-06-21	
Contract No.:	4033			Lab Sample ID:		L7510-2 W	
Matrix:	TISSUE			Sample Size:		9.43	g (wet)
Sample Receipt Date:	16-Dec-2004			Initial Calibratio	n Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005			Instrument ID:		HR GC/MS	
Analysis Date:	17-Feb-2005	Time: 12:35:23		GC Column ID:		SPB-OCTYL	
Extract Volume (μL):	400			Sample Data Fil	ename:	PB5C_085 S:5	
Injection Volume (µL):	10			Blank Data Filer	iame:	PB5C_074 S:7	
Dilution Factor:	20			Cal. Ver. Data F	llename:	PB5C_085 S:1	
Concentration Units :	ng/kg (wet weight basis)						
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB 3 - MoCB 4 - MoCB 2,2' - DiCB 2,3 - DiCB 2,3' - DiCB 2,4 - DiCB 2,4' - DiCB 2,5 - DiCB 2,6 - DiCB 3,4' - DiCB 3,4' - DiCB 3,4' - DiCB 3,5 - DiCB 4,4' - DiCB 2,2',3 - TriCB 2,2',5 - TriCB 2,2',6 - TriCB	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	12 + 13 12 + 13 18 + 30					

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HANSHITM QA/QC Chemist Approved by

01-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD PO 807 2219 2045 MILLS RD WEST, SIDNEY B.C. (AMADA VBL 358 FEI (250) 655-5800 FAX (250) 655-5811

AXYS METHOD	41 A-010 Rev 05				CLIENT ID:		LDW-B2a-T	
Form 1A	MERCOTO TICO DO							
Page 2 of 6					Project Numbe	c	04-08-06-21	
Lab Sample ID		7510-2 W			Sample Data F		PB5C_085 S-5	
cap partiple ip		1010 2019						
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2,3.4 - TriCB	21	21 + 33					
	2,3,4' - TriCB	22						
	2,3,5 - TriCB	23						
	2,3,6 - TriCB	24						
	2.3'.4 - TriCB	25						
	2.3',5 - TriCB	26	26 + 29					
	2.3',6 - TriCB	27						
	2,4.4' - TriCB	28	20 + 28					
	2.4.5 - TriCB	29	26 + 29					
	2.4,6 - TriCB	30	18 + 30					
	2,4',5 - TriCB	31						
	2,4',6 - TriCB	32						
	2',3,4 - TriCB	33	21 + 33					
	2',3,5 - TriCB	34						
	3,3',4 - TriCB	35						
	3,3',5 - TriCB	36						
	3,4,4' - TriCB	37						
	3,4,5 - TriCB	38						
	3,4',5 - TriCB	39						
	2,2',3,3' - TeCB	40	40 + 41 + 71					
	2,2',3,4 - TeCB	41	40 + 41 + 71					
	2,2',3.4' - TeCB	42						
	2,2',3,5 - TeCB	43						
	2,2',3,5' - TeCB	44	44 + 47 + 65					
	2,2',3,6 - TeCB	45	45 + 51					
	2,2',3,6' - TeCB	46						
	2,2',4,4' - TeCB	47	44 + 47 + 65					
	2,2',4,5 - TeCB	48						
	2,2',4,5' - TeCB	49	49 + 69					
	2,2',4,6 - TeCB	50	50 + 53					
	2,2',4,6' - TeCB	51	45 + 51					
	2,2',6,5' ToCB	52		DB	3340	1 77	0.80	1 235
	2,2',5,6' - TeCB	53	50 + 53					
	2,2',6,6' - TeCB	54						
	2,3,3',4 - TeCB	55						
	2,3,3',4' - TeCB	56						
	2,3,3',5 - TeCB	57						
	2,3,3',5' - TeCB	58						
	2,3,3',6 - TeCB	59	59 + 62 + 75					
	2.3,4.4' - TeCB	60						
	2,3,4.5 - TeCB	61	61 + 70 + 74 + 76	CDB	4250	30.4	0 76	0.875
	2,3,4,6 - TeCB	62	59 + 62 + 75					
	2,3.4',5 - TeCB	63						



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AXYS ANALYTICAL SERVICES LTD = 0 BOX 2219, 2045 MILLS RD WEST SIDNEY B.C., CANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05				CLIENT ID:		LDW-B2a-T	
Form 1A							
Page 3 of 6				Project Number		04-08-06-21	
Lab Sample 1D	L7510-2 W			Sample Data File	ename	PB5C_085 S 5	
COMPOLIND	IUPAC	CO-ELUTIONS	LAB	CONC.	DETECTION	ION ABUND.	RRT
	NO.		FLAG ¹	FOUND	LIMIT	RATIO	
2,3.4',6 - TeCB	64						
2,3,5.6 - TeCB	65	44 + 47 + 65					
2,3',4,4' - TeCB	66						
2,3',4,5 - TeCB	67						
2,3',4,5' - TeCB	68						
2,3',4,6 - TeCB	69	49 + 69					
2.3',4',5 - TeCB	70	61 + 70 + 74 + 76	C61				
2,3',4'.6 - TeCB	71	40 + 41 + 71					
2,3',5,5' - TeCB	72						
2,3',5',6 - TeCB	73						
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4 ' ,6 - TeCB	75	59 + 62 + 75					
2',3,4,5 - IeCB	76	61 + /U + /4 + /b	C61				
3,3 ' ,4,4' - TeCB	77						
3,3',4,5 - TeCB	78						
3,3',4,5' - TeCB	79						
3,3',5,5' - TeCB	80						
3,4,4',5 - TeCB	81						
2,2'.3,3',4 - PeCB	82						
2,2'.3,3',5 - PeCB	83	83 + 99					
2,2',3,3',6 - PeCB	84						
2,2',3,4,4' - PeCB	85	85 + 116 + 117					
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125					
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125					
2,2',3,4,6 - PeCB	88	88 + 91					
2,2',3,4,6' - PeCB	89						
2,2'.3,4',5 - PeCB	90	90 + 101 + 113	CDB	9860	22 7	1.59	0.870
2,2',3,4',6 - PeCB	91	88 + 91					
2,2',3,5,5' - PeCB	92						
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CDB	4710	23.4	1.66	1.121
2,2',3,5,6' PcCB	94						
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2 ` ,3,6,6 ' - PeCB	96						
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125					
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2.2',4,4',5 - PeCB	99	83 + 99					
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						
2.2',4,6.6' - PeCB	104						
2,3,3',4,4' PoCB	105						
2,3,3',4,5 - PeCB	106						

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CANADA VSI 358 TEL (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5811

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AXYS METHOD MLA-010	Rev 05	CLIENT ID:	LDW-B2a-T
Form 1A			
Page 4 of 6		Project Number	04-08-06-21
Lab Sample ID	L7510-2 W	Sample Data Filename:	PB5C_085 S:5

14743AD6_1 xls. S2

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND. RATIO	RRT
2,3,3',4',5 - PeCB	107	107 + 124					
2,3,3'.4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125					
2,3,3',4,6 - PeCB	109						
2,3,3',4',6 - PeCB	110	110 + 115	CDB	7620	19.2	1.57	0.925
2,3.3',5,5' - PeCB	111						
2,3,3',5,6 - PeCB	112						
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114						
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3.4,5.6 - PeCB	116	85 + 116 + 117					
2,3,4',5,6 - PeCB	117	85 + 116 + 117					
2,3',4,4',5 - PeCB	118		DB	8420	66.1	1.55	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125					
2,3',4,5,5' - PeCB	120						
2,3',4,5',6 - PeCB	121						
2'.3.3'.4.5 - PeCB	122						
2',3,4,4',5 - PeCB	123	107 + 124					
2',3,4,5,5' - PeCB	124 125	86 + 87 + 97 + 108 + 119 + 125					
2',3,4,5,6' - PeCB 3,3',4,4',5 - PeCB	125	00 + 07 + 97 + 108 + 119 + 125					
3,3',4,4,5,5' - PeCB 3,3',4,5,5' - PeCB	120						
2,2',3,3',4,4' - HxCB	128	128 + 166					
2,2',3,3',4,4 - HXCB	120	129 + 138 + 160 + 163	CDB	11900	41.3	1,27	0.929
2,2',3,3',4,5' - HxCB	130	120 * 100 * 100 * 100	000	11000	11.0	1.601	0.040
2,2',3,3',4,6 - HxCB	131						
2,2',3,3',4,6' - HxCB	132						
2,2',3,3',5,5' - HxCB	133						
2,2',3,3',5,6 - HxCB	134	134 + 143					
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154					
2,2',3,3',6,6' - HxCB	136						
2,2',3,4,4',5 - HxCB	137						
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6 - HxCB	139	139 + 140					
2,2',3,4,4',6' - HxCB	140	139 + 140					
2,2',3,4.5,5' - HxCB	141						
2,2',3,4,5.6 - HxCB	142						
2,2',3,4,5,6' - HxCB	143	134 + 143					
2,2',3.4,5',6 - HxCB	144						
2,2',3,4,6,6' - HxCB	145						
2,2',3,4',5,5' - HxCB	146		0.0.0	0700	44.0	4.00	4 4 9 9
2.2',3,4',5,6 - HxCB	147	147 + 149	CDB	8730	41 2	1.26	1 133
2,2',3,4',5,0' - HxCB	140 149	147 + 149	C147				
2,2',3,4'.5',6 - HxCB	149	141 7 148	U1+/				

<u>4</u> 01-03-2005 dd-mm-yyyy QA/QC Chemist Approved by:_

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD WEST, SIDNEY, B.C. CANADA VOL 358 FEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL_209 Page 1 of 1 CLIENT ID: LDW-B2a-T

Form 1A

HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

			Sample Collection:		14-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-2	
Matrix:	TISSUE		Sample Size:		9.43	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Da	ite:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 11:13:31	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename	; :	PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filena	me:	PB5C_075 S:1	
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_075 S:4 PB5C_085 S:5	
Concentration Units :	ng/kg (wet weight ba	ng/kg (wet weight basis)				
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			4.02	0.0369		
Total Dichloro Biphenyls			360	0.138		
Total Trichloro Biphenyls			5470	0.319		
Total Trichloro Biphenyls Total Tetrachloro Biphenyls			5470 23200			
				0.319		
Total Tetrachloro Biphenyls			23200	0.319 0.386		
Total Tetrachloro Biphenyls Total Pentachloro Biphenyls			23200 50500	0.319 0.386 0.438		
Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls			23200 50500 51600	0.319 0.386 0.438 14 1		
Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls			23200 50500 51600 19500	0.319 0.386 0.438 14 1 0.637		
Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls			23200 50500 51600 19500 3450	0.319 0.386 0.438 14 1 0.637 0.315		
Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls Total Nonachloro Biphenyls			23200 50500 51600 19500 3450 251	0.319 0.386 0.438 14 1 0.637 0.315 0.0678		

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation

14743PCBTOTAL 1 xis. S7

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD WEST SIDNEY, B.C. CANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TEQ-DL 14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-B2a-T

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Sample Collection: Lab Name: AXYS ANALYTICAL SERVICES 14-Aug-2004 4033 Project Number: 04-08-06-21 Contract No.: TISSUE Lab Sample ID: L7510-2 Matrix: SPB-OCTYL 9 43 GC Column ID(s): Sample Size: g (wet) PB5C_075 S:4 PB5C_085 S:5 Sample Datafile(s): Concentration Units : ng/kg (wet weight basis)

								TE	EQ
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
	3,3',4,4'-TetraCB	77			247	0.376	0.0001	2.47E-02	2.47E-02
	3,4,4',5-TetraCB	81			12.1	0.331	0.0001	1.21E-03	1.21E-03
•	2,3,3',4,4'-PentaCB	105			2180	0.358	0.0001	2.18E-01	2.18E-01
	2,3,4,4',5-PentaCB	114			112	0.369	0.0005	5.62E-02	5.62E-02
	2,3',4,4',5-PentaCB	118			8420	66.1	0.0001	8.42E-01	8.42E-01
	2',3,4,4',5-PentaCB	123			122	0.364	0.0001	1.22E-02	1.22E-02
	3,3',4,4',5-PentaCB	126			17.8	0.438	0.1	1.78E+00	1.78E+00
	2,3,3',4,4',5-HexaCB	156	156 + 157	С	917	0.446	0.0005	4.58E-01	4.58E-01
	2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
	2,3',4,4',5,5'-HexaCB	167			382	0.343	0.00001	3.82E-03	3.82E-03
	3,3',4,4',5,5'-HexaCB	169		U		14.1	0.01	7 04E-02	0.00E+00
	2,3,3',4,4',5,5'-HeptaCB	189			717	0.637	0.0001	7 17E-03	7 17E-03

TOTAL TEQ 3.48 3.41

(1) C = co-eluting congener. U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743POBTEQ 1 KIS SECTEQ

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02-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA V8L 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 168A-S1 209 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-B3b-T	
			Sample Collection:	10-Aug-2004	
Lab Name: AXYS ANALYTICAL S	SERVICES		Project Number	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7510-3	
Matrix:	TISSUE		Sample Size:	2.22	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 12:17:48	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_075 S:5	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_074 S 7	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_075 S:1	

Concentration Units :

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		JB	6.73	0.137	2.97	1 001
3 - MoCB	2		JB	1.95	0.175	3.22	0.988
4 - MoCB	3		JB	4.41	0 174	3.23	1 000
2,2' - DiCB	4		В	103	0.580	1 51	1 001
2,3 - DICB	5		J	3.64	0.506	1.57	1,198
2,3' - DiCB	6		В	120	0 480	1.52	1 176
2,4 - DiCB	7			16.7	0.474	1 48	1.158
2,4' - DiCB	8		В	419	0 459	1.54	1.207
2,5 - DiCB	9			19,5	0 471	1.48	1.147
2,6 - DiCB	10		J	8 07	0.461	1.46	1.014
3,3' - DICB	11		R	22.9	0 543	1 57	0 969
3,4 - DiCB	12	12 + 13	С	51.1	0 538	1 52	0.985
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		0.516		
4.4' - DiCB	15		В	322	0 639	1.51	1.001
2,2',3 - TriCB	16		В	509	0 340	1.05	1 166
2,2',4 - TriCB	17		В	765	0.299	1.04	1 140
2,2',5 - TriCB	18	18 + 30	СВ	1430	0.240	1.05	1 1 1 4
2,2'.6 - TriCB	19		В	204	0.303	1.04	1.001
2,3,3' - TriCB	20	20 + 28	СВ	3950	0 774	0 99	0.848

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AXYS ANALYTICAL SERVICES LTD RO 807 2219, 2045 MILLS RD WEST SIDNEY B.C. CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS	METHOD	MLA-010	Rev	05
Form	1A			

Page 2 of 6 Lab Sample

Project Number:

LDW-B3b-T 04-08-06-21

ige 2 or 6 b Sample ID	1	7510-3			Sample Data F		PB5C_075 S:5	
n gamhie in	kur	010-0			<i>a</i> ann <i>p</i> to <i>a</i> a to to <i>t</i>			
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2.3,4 - TriCB	21	21 + 33	СВ	1250	0 792	0.98	0 857
	2.3.4' - TriCB	22		В	1000	0.864	0.99	0 871
	2,3,5 - TriCB	23		J	2.95	0 796	1 00	1 284
	2,3,6 - TriCB	24			22.4	0.209	1 10	1 159
	2,3',4 - TriCB	25		В	425	0 726	0.98	0.825
	2.3'.5 - TriCB	26	26 + 29	СB	805	0 797	0.99	1 302
	2.3',6 - TriCB	27		В	233	0.202	1.06	1 152
	2,4,4' - TriCB	28	20 + 28	C20				
	2,4,5 - TriCB	29	26 + 29	C26				
	2,4,6 - TriCB	30	18 + 30	C18				
	2.4',5 - TriCB	31		В	2730	0.773	0.98	0.837
	2,4',6 - TriCB	32		В	854	0.736	0.99	1.198
	2',3,4 - TriCB	33	21 + 33	C21				
	21,3,5 - TriCB	34			15.6	0.799	0.99	1.275
	3,3',4 - TriCB	35			56.9	0.987	1.00	0 985
	3.3',5 - TriCB	36		KJ	1.08	0 808	1.58	0.931
	3,4,4' - TriCB	37		В	940	0.889	0.99	1.001
	3.4,5 - TriCB	38			13.0	0.866	1.15	0.968
	3,4',5 - TriCB	39			31.5	0.846	0.97	0.947
	2,2',3,3' - TeCB	40	40 + 41 + 71	СB	2860	0.273	0.79	1.338
	2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
	2,2',3,4' - TeCB	42		В	1740	0.284	0.79	1.313
	2,2',3,5 - TeCB	43		В	215	0.301	0.79	1.247
	2,2',3,5' - TeCB	44	44 + 47 + 65	СВ	6680	0.243	0.79	1.287
	2,2',3,6 - TeCB	45	45 + 51	СВ	972	0.255	0.79	1.147
	2,2',3,6' - TeCB	46			266	0.307	0 78	1.161
	2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
	2,2',4,5 - TeCB	48		В	939	0.266	0.79	1.275
	2,2'.4,5' - TeCB	49	49 + 69	СB	5710	0.237	0.79	1 260
	2,2',4,6 - TeCB	50	50 + 53	СВ	934	0.246	0.79	1 1 1 1
	2,2',4,6' - TeCB	51	45 + 51	C45				
	2,2',5,5' - TeCB	52		B	10900	0 254	0.79	1 236
	2,2',5,6' - TeCB	53	50 + 53	C50				
	2,2',6,6' - TeCB	54			15.0	0.190	0.80	1.002
	2,3,3',4 - TeCB	55			116	0.430	0.73	0.890
	2,3,3',4' - TeCB	56		В	2930	0.449	0.73	0.905
	2,3,3',5 - TeCB	57			52.1	0.455	0.72	0.844
	2,3,3',5' - TeCB	58			27.2	0.447	0.75	0.852
	2,3,3',6 - TeCB	59	59 + 62 + 75	СВ	778	0.207	0.79	1.303
	2,3,4,4' - TeCB	60		В	1600	0.439	0.74	0.911
	2.3.4.5 - TeCB	61	61 + 70 + 74 + 76	СВ	13100	0 410	0.73	0.875
	2,3.4.6 - TeCB	62	59 + 62 + 75	C59				
	2 3 4'.5 - TeCB	63			309	0 433	0 74	0 864

14743AD2_1 xis \$3 Approved by _

QA/QC Chemist

27-02-2005 dd-mm-yyyy

0191

AXYS ANALYTICAL SERVICES LTD 90 80X 2219 2045 MILLS RD. WEST, SIDNEY, B.(.. (ANADA V81 3S8 TEI (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-01	0 Rev 05	CLIENT ID:	LDW-B3b-T
Form 1A			
Page 3 of 6		Project Number	04-08-06-21
Lab Sample ID	L7510-3	Sample Data Filename	PB5C_075 S 5

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ARUND RATIO	RRT
2.3.4',6 - TeCB	64		В	2730	0 198	0.79	1.350
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3'.4,4' - TeCB	66		В	8160	0.418	0.73	0.884
2,3',4,5 - TeCB	67			295	0.413	0.73	0.857
2,3',4,5' - TeCB	68			66.4	0.411	0.74	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			98.0	0.416	0 72	0 823
2,3',5',6 - TeCB	73		U		0.206		
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		В	594	0.441	0 74	1.000
3,3',4,5 - TeCB	78		U		0.473		
3,3',4,5' - TeCB	79			174	0.381	0.82	0.970
3,3',5,5' - TeCB	80		U		0 411		
3,4,4',5 - TeCB	81			39.3	0 405	0.82	1.000
2,2',3,3',4 - PeCB	82			1510	0.610	1.56	0.933
2,2',3,3',5 - PeCB	83	83 + 99	СВ	14200	0.544	1.57	0.885
2,2'.3,3',6 - PeCB	84		В	3750	0.580	1.57	1 163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СB	3440	0.468	1.57	0 920
2,2`,3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	СB	11300	0 458	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	СВ	2720	0.502	1 57	1 155
2,2'.3,4,6' - PeCB	89			113	0.537	1.59	1.182
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		В	3970	0.538	1.58	0.853
2,2'.3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CE				
2,2',3,5,0' - PeCB	94			40.8	0.520	1.50	1.103
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			78 9	0.244	1.65	1 015
2.2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2.2'.3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2.2',4.4',5 - PeCB	99	83 + 99	C83				
2.2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2.2'.4.5.5' - PeCB	101	90 + 101 + 113	C90				
2,2'.4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93		0.171		
2,2',4,5',6 - PeCB	103			219	0 454	1.57	1.094
2,2'.4.6.6' - PeCB	104		J	2.54	0.243	1.60	1.001
2.3,3',4,4' - PeCB	105		B	6370	0 3/2	1.51	1 000
2.3.3',4.5 - PeCB	106		U		0.351		

27-02-2005 dd-mm-yyyy 14743AD2_1 xis S3 QA/QC Chemist Approved by 009

MO AXYS ANALYTICAL SERVICES LTD PO 80X 2219 2045 MILLS RD. WEST, SIDNEY, B.C., CAHADA VOL 3S8 TEL (250) 655-5800 FAX (250) 655-5817

AXYS METHOD MLA-010 Rev 05 Form 1A

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Page 4 of 6

Lab Sample ID

CLIENT ID.

LDW-B3b-T

Project Number Sample Data Filename 04-08-06-21 PB5C_075 S:5

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND. RATIO	RRŤ
2,3,3',4',5 - PeCB	107	107 + 124	С	796	0 367	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			1300	0 346	1 52	0 997
2.3,3',4',6 - PeCB	110	110 + 115	CE				
2,3,3',5,5' - PeCB	111		J	8.82	0.406	1 33	0.945
2,3,3',5,6 - PeCB	112		U		0.402		
2.3.3'.5'.6 - PeCB	113	90 + 101 + 113	C90				
2.3.4.4',5 - PeCB	114			343	0.353	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			62.8	0.409	1 54	0.959
2.3',4.5',6 - PeCB	121		J	3.60	0.393	1.66	1.200
2',3,3',4,5 - PeCB	122			209	0 405	1.52	1.010
2',3,4,4',5 - PeCB	123			315	0.354	1.53	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			32.9	0.434	1.62	1.000
3,3',4,5,5' - PeCB	127			47.6	0 404	1.49	1.042
2,2',3,3',4,4' - HxCB	128	128 + 166	CB	3240	0.380	1.26	0.958
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СB	25500	0.361	1.25	0.928
2,2',3,3',4,5' - HxCB	130			1220	0.463	1 26	0.913
2.2',3,3'.4,6 - HxCB	131			169	0.386	1 30	1 159
2,2',3,3',4,6' - HxCB	132		В	5650	0.404	1 25	1 173
2,2',3,3',5,5' - HxCB	133			299	0.387	1 23	1 191
2,2',3,3',5,6 - HxCB	134	134 + 143	С	912	0.397	1 26	1 138
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	СB	7110	0.441	1 27	1 103
2,2',3,3',6,6' - HxCB	136		В	2330	0 333	1 28	1 023
2,2',3,4,4',5 - 11×CB	137			1170	0 131	1.25	0.018
2.2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4.4',6 - HxCB	139	139 + 140	С	410	0.366	1.26	1.152
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141		B	3840	0.401	1.25	0.903
2,2',3,4,5,6 - HxCB	142		U		0.409		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4.5',6 - HxCB	144			865	0.459	1.26	1 121
2,2',3,4.6,6' - HxCB	145		J	4.29	0 334	1.30	1 033
2,2',3.4'.5,5' - HxCB	146		В	3270	0.356	1.25	0.884
2,2',3,4',5,6 - HxCB	147	147 + 149	СВ	18000	0.347	1.25	1 133
2,2',3,4',5.6' HxCB	148	147 . 140	0447	28.8	0 155	1 25	1 083
2,2',3.4',5',6 • HxCB	149	147 + 149	C147				

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Approved by ______QA:QC Chemist

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD, WEST SIDNEY B C, CANADA VBL 358 TEL 2501 655-5800 FAX (250+ 655-5811

AXYS	METHOD	MLA-010	Rev	05
Form	1A			

Page 5 or 6

LDW-B3b-T

rm 1A							
ge 5 or 6				Project Numbe	r	04-08-06-21	
b Sample ID	L7510-3			Sample Data F	ilename	PB5C_075 S:5	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.2',3,4',6.6' - HxCB	150			39 4	0 327	1 32	1 011
2,2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6' - HxCB	152			12.7	0.320	1 25	1,006
2.2',4,4',5,5' - HxCB	153	153 + 168	СВ	25400	0.308	1.25	0 899
2,2',4,4'.5,6' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6,6' - HxCB	155		J	2.37	0.280	1.31	1 001
2,3,3',4,4',5 - HxCB	156	156 + 157	СВ	2100	0 377	1.24	1 000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6 - HxCB	158		В	2150	0.304	1 25	0 938
2,3,3',4,5,5' - HxCB	159		U		0.333		
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB	161		U		0.296		
2,3,3',4',5,5' - HxCB	162			61.5	0.330	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		В	1320	0.308	1.25	0.921
2,3,3',5,5',6 - HxCB	165		J	7.01	0.325	1.31	0.878
2,3,4,4',5,6 - H×CB	166	128 + 166	C128				
2,3',4.4',5,5' - HxCB	167		В	954	0.299	1.25	1.000
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		23 7		
2,2',3,3',4,4',5 - HpCB	170		В	3050	0 676	1 05	0 936
2,2',3.3'.4,4',6 - HpCB	171	171 + 173	С	980	0 624	1.05	1.163
2,2',3,3',4,5,5' - HpCB	172			540	0.642	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		в	3080	Ü.577	1.05	1.133
2,2',3,3',4,5',6 - HpCB	175			125	0.538	1 08	1.103
2,2',3,3',4,6,6' - HpCB	176			444	0.392	1.05	1.034
2,2',3,3',4',5,6 - HpCB	177		В	2150	0.600	1 06	1.145
2,2',3,3',5,5',6 - HpCB	178			777	0.548	1 05	1.085
2,2',3,3',5,6,6' - HpCB	179		В	1620	0.379	1.05	1.010
2,2',3,4,4'.5,5' - HpCB	180	180 + 193	СВ	7180	0.521	1.06	0.910
2,2',3,4,4',5,6 HpCB	181			36.8	0.566	1 02	1.156
2,2',3,4,4',5,6' - HpCB	182			30.6	0.554	1.09	1 116
2,2',3,4,4',5',6 - HpCB	183	183 + 185	СВ	2760	0.541	1.05	1 127
2,2',3,4,4',6,6' - HpCB	184		J	2.61	0.358	0.95	1 025
2,2',3,4,5,5',6 - HpCB	185	183 + 185	C183				
2,2',3,4,5,6,6' - HpCB	186		U		0 398		
2,2',3,4',5,5',6 - HpCB	187		В	5680	0.505	1.06	1 110
2,2',3,4',5,6,6' - HpCB	188		J	8.42	0.305	0.98	1 001
2,3,3',4,4',5,5' - HpCB	189			111	1.08	1.03	1 000
2,3,3',4,4',5,6 - HpCB	190		В	846	0.538	1.05	0 947
2.3.3',4,4',5',6 - HpCB	191			126	0.507	1 03	0.918
2.3 3',4,5.5' 6 - HpCB	192		U		0 535		

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Approved by._

QA/QC Chemist

27-02-2005 dd-mm-yyyy

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C''' AXYS ANALYTICAL SERVICES LTD PO BOX 2210 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		LDW-B3b-T	
Page 6 of 6				Project Number	r	04-08-06-21	
	. 7510-5			, Sample Data F		PB5C 075 S.5	
				a compre a concern			
COMPOUND	IUPAC	CO-ELUTIONS	LAB	CONC.	DETECTION	ION ABUND.	RRT
	NO.		FLAG ¹	FOUND	LIMIT	RATIO	
2,3.3',4'.5.5',6 - HpCB	193	180 + 193	C180				
2.2'.3.3'.4.4'.5.5' - OcCB	194	100 1 100	B	949	0 503	0 90	0 991
	195		B	442			
2.2',3,3',4,4',5,6 - OcCB					0.583	0.90	0.946
2,2',3,3',4,4',5,6' - OcCB	196		В	534	0.119	0.89	0.916
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	С	209	0.0814	0 90	1.046
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	СB	1480	0.122	0.91	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		В	186	0.0810	0 90	1.023
2,2'.3,3',5,5',6,6' - OcCB	202		В	347	0.0845	0.91	1,000
2,2',3,4,4',5,5',6 - OcCB	203		В	954	0 115	0.89	0.920
2,2',3,4,4',5,6,6' - OcCB	204		JB	0.580	0 0826	0.81	1 039
2,3,3',4,4',5,5',6 - OLCB	205		D	52.0	0 412	0.96	1 001
2,2',3.3',4,4',5,5',6 - NoCB	206		В	328	0 283	0.79	1.001
2,2',3,3',4,4',5,6,6' - NoCB	207			49.4	0.230	0 79	1 0 2 0
2,2',3,3',4,5,5',6,6' - NoCB	208		В	106	0.227	0 77	1 001

(1) C = co-eluting congener. U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration, E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested, J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

В

120

0.0151

0 72

1 001

These pages are part or a larger report that may contain information necessary for full data evaluation.

209

14743AD2_1 kis S3

2,2',3,3',4,4',5,5',6.6' - DeCB

Approved by

QA/QC Chemist

27-02-2005 dd-mm-yyyy

€ AXYS ANALYTICAL SERVICES LTD PO. BOX 2219, 2045 MILLS RD WEST, SIDNEY B.C., CANADA V8L 3S8 TEL (250) 655-5800 FAX (250) 655-581)

	AXYS METHOD MLA-010 Rev 05						CLIENT ID:	
	1668A-S1 209 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS RE	PORT			LDW-B3b-T	
					Sample Collect	lion:	10-Aug-2004	
	Lab Name. AXYS ANALYTICAL S	ERVICES			Project Numbe	r:	04 08 06 21	
	Contract No.:	4033			Lab Sample ID		L7510-3 W	
	Matrix:	TISSUE			Sample Size:		2.22	g (wet)
	Sample Receipt Date:	16-Dec-2004			Initial Calibration	on Date:	04-Feb-2005	
	Extraction Date:	27-Jan-2005			Instrument ID:		HR GC/MS	
i	Analysis Date:	17-Feb-2005	Time: 13:39:35		GC Column ID:		SPB-OCTYL	
	Extract Volume (µL):	400			Sample Data Fi	lename:	PB5C_085 S:6	
	Injection Volume (µL):	10			Blank Data File	name:	PB5C_074 S:7	
	Dilution Factor:	20			Cal. Ver. Data F	ilename:	PB5C_085 S:1	
	Concentration Units :	ng/kg (wet weight	basis)					
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
ı	2 - MoCB	1						
	3 - MoCB	2						
	4 - MoCB							
	2,2' - DiCB							
	2,3 - DiCB							
	2,3' - DiCB							
	2,4 - DiCB							
	2,4' - DiCB							
	2,5 - DiCB							
	2.6 - DiCB							
	3,3' DiCB							
	3,4 - DICB		12 + 13					
	3.4' - DiCB		12 + 13					
	3,5 - DiCB							
	4,4' - DiCB							
	2,2',3 - TriCB							
	2,2',4 - TriCB							
	2.2',4 - TriCB		18 + 30					
	2.2'.6 - TriCB							

14743AD6_1 xis, S3

2.3.3' - TriCB

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C AXYS ANALYTICAL SERVICES LTD PO, BOX 2219, 2045 MILLS RD WEST, SIDNEY B.C. CANADA VBL 358 FEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A

Page 2 of 6	
Lab Sample ID	

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	COMPOUND	IUPAC NO.	CO-ELUTIONS
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,3,4 - TriCB	21	21 + 33
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2.3.4' - TriCB	22	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,3,5 - TriCB	23	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2.3.6 - TriCB	24	
2.3',6 - TriCB272.4.4' - TriCB28 $20 + 28$ 2.4.5 - TriCB29 $26 + 29$ 2.4.6 - TriCB30 $18 + 30$ 2.4',5 - TriCB31 $24',6 - TriCB$ 2.4',6 - TriCB32 $21 + 33$ 2.4',6 - TriCB33 $21 + 33$ 2.3.4 - TriCB343.3',4 - TriCB353.3',5 - TriCB363.4,4' - TriCB373,4,5 - TriCB383.4',5 - TriCB392.2',3,3' - TeCB4040 + 41 + 712.2',3,4 - TeCB4140 + 41 + 712.2',3,5 - TeCB432.2',3,5 - TeCB4444 + 47 + 652,2',3,6 - TeCB462,2',4,6' - TeCB4744 + 47 + 652,2',4,6' - TeCB482,2',4,6' - TeCB5050 + 532,2',4,6' - TeCB5145 + 512,2',5,6' - TeCB522,2',5,6' - TeCB532,2',5,6' - TeCB542,3,3',4' - TeCB552,3,3',5' - TeCB572,3,3',5' - TeCB582,3,3',6' - TeCB5959 + 62 + 752,3,4,6 - TeCB5059 + 62 + 752,3,4,6 - TeCB6161 + 70 + 74 + 762,3,4,6 - TeCB6161 + 70 + 74 + 762,3,4,6 - TeCB6259 + 62 +	2.3'.4 - TriCB	25	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			26 + 29
2.4.5 - TriCB29 $26 + 29$ 2.4.6 - TriCB30 $18 + 30$ 2.4.6 - TriCB312.4.6 - TriCB322'.3.4 - TriCB332'.3.4 - TriCB332'.3.5 - InCB343.3',4 - TriCB353.3',5 - TriCB363.4.4' - TriCB373.4.5 - TriCB392.2'.3.3' - TeCB4040 + 41 + 712.2'.3.4 - TeCB4140 + 41 + 712.2'.3.5 - TeCB432.2'.3.6 - TeCB4444 + 47 + 652.2'.3.6 - TeCB462.2'.4.5' - TeCB482.2'.4.5' - TeCB4949 + 692.2'.4.6' - TeCB5145 + 512.2'.5.6' - TeCB5145 + 512.2'.5.6' - TeCB522.3.3'.4' - TeCB5350 + 532.2'.5.6' - TeCB542.3.3'.4' - TeCB552.3.3'.5' - TeCB542.3.3'.5' - TeCB552.3.3'.4' - TeCB562.3.3'.5' - TeCB572.3.3'.5' - TeCB582.3.3'.5' - TeCB5959 + 62 + 752.3.4.4' - TeCB602.3.4.5 - TeCB6161 + 70 + 74 + 762.3.4.6 - TeCB6259 + 62 + 75	2,3',6 - TriCB	27	
2.4.6 - TriCB30 $18 + 30$ 2.4',5 - TriCB312.4',6 - TriCB322',3.4 - TriCB332',3.5 - IriCB343.3',4 - TriCB353.3',5 - TriCB363.4,4' - TriCB373,4,5 - TriCB392.2',3,3' - TeCB4040 + 41 + 712.2',3,4' - TeCB4140 + 41 + 712.2',3,5' - TeCB432.2',3,5' - TeCB4444 + 47 + 652,2',3,6' - TeCB462.2',4,5' - TeCB4744 + 47 + 652,2',4,5' - TeCB482,2',4,5' - TeCB4949 + 692,2',4,6' - TeCB5145 + 512,2',5,6' - TeCB522,2',5,6' - TeCB5350 + 532,2',5,6' - TeCB5145 + 512,2',5,6' - TeCB522,3,3',4' - TeCB5350 + 532,3,3',4' - TeCB512,3,3',5' - TeCB522,3,3',5' - TeCB532,3,3',5' - TeCB542,3,3',5' - TeCB572,3,3',5' - TeCB582,3,3',5' - TeCB5959 + 62 + 752,3,4,6 - TeCB6161 + 70 + 74 + 762,3,4,6 - TeCB6259 + 62 + 75			
2.4'.5 - TriCB312.4'.5 - TriCB322'.3.4 - TriCB332'.3.4 - TriCB333.3'.5 - TriCB363.3'.5 - TriCB363.4.4' - TriCB373.4.5 - TriCB392.2'.3.3' - TeCB4040 + 41 + 712.2'.3.4 - TeCB4140 + 41 + 712.2'.3.5 - TeCB432.2'.3.6 - TeCB432.2'.3.6 - TeCB4444 + 47 + 652.2'.3.6 - TeCB462.2'.4.5' - TeCB4744 + 47 + 652.2'.4.5' - TeCB482.2'.5.6' - TeCB5050 + 532.2'.5.6' - TeCB5145 + 512.2'.5.6' - TeCB5145 + 512.2'.5.6' - TeCB522.3.3'.4' - TeCB5350 + 532.2'.5.6' - TeCB542.3.3'.4' - TeCB552.3.3'.5' - TeCB572.3.3'.5' - TeCB582.3.3'.5' - TeCB572.3.3'.5' - TeCB582.3.3'.5' - TeCB5959 + 62 + 752.3.4.4' - TeCB602.3.4.5 - TeCB6161 + 70 + 74 + 762.3.4.6 - TeCB6259 + 62 + 75			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			18 + 30
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2',3,5 - InCB343,3',4 - TriCB353,3',5 - TriCB363,4,4' - TriCB373,4,5 - TriCB392,2',3,3' - TeCB4040 + 41 + 712,2',3,4 - TeCB4140 + 41 + 712,2',3,5 - TeCB432,2',3,5 - TeCB4444 + 47 + 652,2',3,6 - IeCB45 + 512,2',3,6 - TeCB462,2',4,5' - TeCB4744 + 47 + 652,2',4,5' - TeCB482,2',4,5' - TeCB4949 + 692,2',4,6' - TeCB5145 + 512,2',5,6' - TeCB522,2',5,6' - TeCB5350 + 532,2',5,6' - TeCB542,3,3',4' - TeCB552,3,3',5' - TeCB572,3,3',5' - TeCB582,3,3',6 - TeCB5959 + 62 + 752,3,4,6 - TeCB6161 + 70 + 74 + 762,3,4,6 - TeCB6259 + 62 + 75			
3.3', 4 - TriCB353.3', 5 - TriCB363.4.4' - TriCB373.4.5 - TriCB392.2', 3.3' - TeCB4040 + 41 + 712.2', 3.4 - TeCB4140 + 41 + 712.2', 3.4 - TeCB4140 + 41 + 712.2', 3.5 - TeCB432.2', 3.5 - TeCB4444 + 47 + 652.2', 3.6 - TeCB45 + 512.2', 4.4' - TeCB4744 + 47 + 652.2', 4.5' - TeCB482.2', 4.5' - TeCB4949 + 692.2', 4.6' - TeCB5145 + 512.2', 5.6' - TeCB522.2', 5.6' - TeCB5350 + 532.2', 5.6' - TeCB542.3, 3', 4' - TeCB552.3, 3', 4' - TeCB562.3, 3', 5' - TeCB572.3, 3', 6' - TeCB582.3, 3', 6' - TeCB5959 + 62 + 752.3, 4.4' - TeCB602.3, 4.5 - TeCB6161 + 70 + 74 + 762.3, 4.6 - TeCB6259 + 62 + 75			21 + 33
3.3', 5 - TriCB36 $3, 4, 4' - TriCB$ 37 $3, 4, 5 - TriCB$ 38 $3, 4', 5 - TriCB$ 39 $2.2', 3, 3' - TeCB$ 40 $40 + 41 + 71$ $2.2', 3, 4' - TeCB$ 41 $40 + 41 + 71$ $2.2', 3, 4' - TeCB$ 41 $40 + 41 + 71$ $2.2', 3, 5' - TeCB$ 43 $2.2', 3, 5' - TeCB$ 44 $44 + 47 + 65$ $2, 2', 3, 6' - TeCB$ 46 $2.2', 4, 4' - TeCB$ 47 $44 + 47 + 65$ $2, 2', 4, 5' - TeCB$ 48 $2, 2', 4, 5' - TeCB$ 49 $49 + 69$ $2, 2', 4, 6' - TeCB$ 50 $50 + 53$ $2, 2', 4, 6' - TeCB$ 51 $45 + 51$ $2, 2', 5, 6' - TeCB$ 53 $2, 3, 3', 4' - TeCB$ 55 $2, 3, 3', 4' - TeCB$ 56 $2, 3, 3', 5' - TeCB$ 57 $2, 3, 3', 6 - TeCB$ 59 $59 + 62 + 75$ $2, 3, 4, 5 - TeCB$ 61 $2, 3, 4, 6 - TeCB$ 61 $61 + 70 + 74 + 76$ $2, 3, 4, 6 - TeCB$ 62 $59 + 62 + 75$, .		
3,4,4' - TriCB 37 $3,4,5 - TriCB$ 38 $3,4,5 - TriCB$ 39 $2,2',3,3' - TeCB$ 40 $40 + 41 + 71$ $2,2',3,4' - TeCB$ 41 $40 + 41 + 71$ $2,2',3,5' - TeCB$ 43 $2,2',3,5' - TeCB$ 44 $44 + 47 + 65$ $2,2',3,6' - TeCB$ $45 + 51$ $2,2',3,6' - TeCB$ 46 $2,2',4,5' - TeCB$ 46 $2,2',4,5' - TeCB$ 48 $2,2',4,5' - TeCB$ 49 $49 + 69$ $2,2',4,6' - TeCB$ 50 $50 + 53$ $2,2',4,6' - TeCB$ 51 $45 + 51$ $2,2',5,6' - TeCB$ 52 $2,2',5,6' - TeCB$ 53 $50 + 53$ $2,2',5,6' - TeCB$ 53 $2,2',6,6' - TeCB$ 54 $2,3,3',4' - TeCB$ 55 $2,3,3',5' - TeCB$ 57 $2,3,3',5' - TeCB$ 58 $2,3,3',6 - TeCB$ 59 $59 + 62 + 75$ $2,3,4,6 - TeCB$ 61 $61 + 70 + 74 + 76$ $2,3,4,6 - TeCB$ 62 $59 + 62 + 75$			
3,4,5 - TriCB 38 $3,4',5 - TriCB$ 39 $2,2',3,3' - TeCB$ 40 $40 + 41 + 71$ $2,2',3,4' - TeCB$ 41 $40 + 41 + 71$ $2,2',3,5' - TeCB$ 43 $2,2',3,5' - TeCB$ 44 $44 + 47 + 65$ $2,2',3,6' - TeCB$ 46 $2,2',3,6' - TeCB$ 46 $2,2',4,5' - TeCB$ 47 $44 + 47 + 65$ $2,2',4,5' - TeCB$ 48 $2,2',4,5' - TeCB$ 49 $49 + 69$ $2,2',4,6' - TeCB$ 50 $50 + 53$ $2,2',4,6' - TeCB$ 51 $45 + 51$ $2,2',5,6' - TeCB$ 53 $50 + 53$ $2,2',5,6' - TeCB$ 52 $2,2',5,6' - TeCB$ 53 $2,2',6,6' - TeCB$ 53 $2,3,3',4' - TeCB$ 56 $2,3,3',5' - TeCB$ 57 $2,3,3',5' - TeCB$ 58 $2,3,3',6 - TeCB$ 59 $59 + 62 + 75$ $2,3,4,5 - TeCB$ 61 $61 + 70 + 74 + 76$ $2,3,4,6 - TeCB$ 62 $59 + 62 + 75$			
3.4', 5 - TriCB 39 $2.2', 3, 3' - TeCB$ 40 $40 + 41 + 71$ $2.2', 3, 4' - TeCB$ 41 $40 + 41 + 71$ $2.2', 3, 4' - TeCB$ 42 $2.2', 3, 5' - TeCB$ 43 $2.2', 3, 5' - TeCB$ 44 $44 + 47 + 65$ $2.2', 3, 6' - TeCB$ 46 $2.2', 3, 6' - TeCB$ 46 $2.2', 4, 4' - TeCB$ 47 $44 + 47 + 65$ $2.2', 4, 5' - TeCB$ 48 $2.2', 4, 5' - TeCB$ 49 $49 + 69$ $2.2', 4, 6' - TeCB$ 50 $50 + 53$ $2.2', 4, 6' - TeCB$ 51 $45 + 51$ $2.2', 5, 6' - TeCB$ 52 $2.2', 5, 6' - TeCB$ 53 $50 + 53$ $2.2', 5, 6' - TeCB$ 53 $2.3, 3', 4 - TeCB$ 55 $2.3, 3', 4' - TeCB$ 56 $2.3, 3', 5' - TeCB$ 57 $2.3, 3', 6 - TeCB$ 59 $59 + 62 + 75$ $2.3, 4, 6 - TeCB$ 61 $61 + 70 + 74 + 76$ $2.3, 4, 6 - TeCB$ 62 $59 + 62 + 75$			
2.2',3,3' - TeCB40 $40 + 41 + 71$ 2.2',3,4 - TeCB41 $40 + 41 + 71$ 2.2',3,4 - TeCB422.2',3,5 - TeCB432.2',3,5 - TeCB4444 + 47 + 652.2',3,6 - TeCB462.2',4,5 - TeCB4744 + 47 + 652.2',4,5 - TeCB482.2',4,5 - TeCB4949 + 692.2',4,5 - TeCB5050 + 532.2',4,6 - TeCB5145 + 512.2',5,5' - TeCB522,2',5,6' - TeCB5350 + 532,2',6,6' - TeCB542,3,3',4 - TeCB552,3,3',5 - TeCB572,3,3',5 - TeCB582,3,3',6 - TeCB5959 + 62 + 752,3,4,5 - TeCB6161 + 70 + 74 + 762,3,4,6 - TeCB6259 + 62 + 75			
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2,2',3,4' - TeCB422,2',3,5 - TeCB432,2',3,5 - TeCB4444 + 47 + 652,2',3,6 - 1eCB4545 + 512,2',3,6' - TeCB462,2',4,5' - TeCB4744 + 47 + 652,2',4,5 - TeCB482,2',4,5' - TeCB4949 + 692,2',4,6' - TeCB5145 + 512,2',5,5' - TeCB522,2',5,6' - TeCB5350 + 532,2',5,6' - TeCB5145 + 512,2',5,6' - TeCB5350 + 532,2',6,6' - TeCB542,3,3',4' - TeCB552,3,3',5' - TeCB572,3,3',5' - TeCB582,3,3',6 - TeCB5959 + 62 + 752,3,4,5 - TeCB6161 + 70 + 74 + 762,3,4,6 - TeCB6259 + 62 + 75			
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2.2', 3.5' - TeCB44 $44 + 47 + 65$ 2.2', 3.6 - IeCB4545 + 512.2', 3.6' - TeCB462.2', 4.4' - TeCB47 $44 + 47 + 65$ 2.2', 4.5 - TeCB482.2', 4.5 - TeCB49 $49 + 69$ 2.2', 4.6 - TeCB50 $50 + 53$ 2.2', 4.6' - TeCB 51 45 + 51 $2.2', 5.6' - TeCB$ 52 $2.2', 5.6' - TeCB$ 53 $50 + 53$ $2.2', 5.6' - TeCB$ 53 $2.3', 4' - TeCB$ 55 $2.3, 3', 4' - TeCB$ 56 $2.3, 3', 5' - TeCB$ 57 $2.3, 3', 6 - TeCB$ 59 $59 + 62 + 75$ $2.3, 4.4' - TeCB$ 60 $2.3, 4.5 - TeCB$ 61 $61 + 70 + 74 + 76$ $2.3, 4.6 - TeCB$ 62 $59 + 62 + 75$			
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2,2'.3,6' - TeCB462,2'.4,4' - TeCB47 $44 + 47 + 65$ 2,2',4,5 - TeCB482,2',4,5 - TeCB49 $49 + 69$ 2,2',4,6 - TeCB50 $50 + 53$ 2,2',4,6' - TeCB 51 45 + 512,2',5,5' - TeCB 52 2,2',5,6' - TeCB 53 $50 + 53$ 2,2',6,6' - TeCB 54 2,3,3',4 - TeCB 55 2,3,3',5' - TeCB 57 2,3,3',6 - TeCB 59 $59 + 62 + 75$ 2,3,4,5 - TeCB 61 $61 + 70 + 74 + 76$ 2,3,4,6 - TeCB 62 $59 + 62 + 75$			
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2,2'.4.5' - TeCB49 $49 + 69$ 2,2'.4,6 - TeCB50 $50 + 53$ 2,2'.4,6' - TeCB51 $45 + 51$ 2,2',5,5' - TeCB522,2',5,6' - TeCB532,2',6,6' - TeCB542,3,3',4 - TeCB552,3,3',4' - TeCB562,3,3',5' - TeCB572,3,3',6 - TeCB5959 + 62 + 752.3,4,4' - TeCB6061 + 70 + 74 + 762,3,4,6 - TeCB6259 + 62 + 75			
2,2',4,6 - TeCB50 $50 + 53$ 2,2',4,6' - TeCB51 $45 + 51$ 2,2',5,5' - TeCB522,2',5,6' - TeCB532,2',6,6' - TeCB542,3,3',4 - TeCB552,3,3',4' - TeCB562,3,3',5' - TeCB572,3,3',6 - TeCB592,3,3',6 - TeCB592,3,3',6 - TeCB592,3,4,5 - TeCB602,3,4,5 - TeCB6161 + 70 + 74 + 762,3,4,6 - TeCB6259 + 62 + 75			49 + 69
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2,2'.5,6' - TeCB 53 50 + 53 2,2',6,6' - TeCB 54 2,3.3',4 - TeCB 55 2,3.3',4' - TeCB 56 2,3.3',5' - TeCB 57 2,3.3',6 - TeCB 59 2,3,3',6 - TeCB 59 2,3,4' - TeCB 60 2,3,4,5 - TeCB 61 61 + 70 + 74 + 76 2,3,4,6 - TeCB 62 59 + 62 + 75		51	45 + 51
2.2',6,6' - TeCB 54 2.3.3',4 - TeCB 55 2.3.3',4' - TeCB 56 2.3.3',5' - TeCB 57 2.3.3',5' - TeCB 58 2.3.3',6 - TeCB 59 59 + 62 + 75 2.3.4,4' - TeCB 60 2.3.4,5 - TeCB 61 61 + 70 + 74 + 76 2.3.4,6 - TeCB 62 59 + 62 + 75	2,2',5,5' - TeCB	52	
2,3,3',4 - TeCB 55 2,3,3',4' - TeCB 56 2,3,3',5 - TeCB 57 2,3,3',5' - TeCB 58 2,3,3',6 - TeCB 59 2,3,4,4' - TeCB 60 2,3,4,5 - TeCB 61 2,3,4,5 - TeCB 61 2,3,4,6 - TeCB 62	2,2',5,6' - TeCB	53	50 + 53
2.3.3'.4' - TeCB 56 2.3.3'.5 - TeCB 57 2.3.3'.5' - TeCB 58 2.3.3'.6 - TeCB 59 2.3.4.4' - TeCB 60 2.3.4.5 - TeCB 61 61 + 70 + 74 + 76 2.3.4.6 - TeCB 62 59 + 62 + 75	2,2',6,6' - TeCB	54	
2,3,3',5 - TeCB 57 2,3,3',5' - TeCB 58 2,3,3',6 - TeCB 59 2,3,4,4' - TeCB 60 2,3,4,5 - TeCB 61 61 + 70 + 74 + 76 29 + 62 + 75 2,3,4,6 - TeCB 62	2,3,3',4 - TeCB	55	
2.3.3',5' - TeCB 58 2.3,3',6 - TeCB 59 59 + 62 + 75 2.3,4,4' - TeCB 60 2.3,4,5 - TeCB 61 61 + 70 + 74 + 76 2.3,4,6 - TeCB 62 59 + 62 + 75	2.3,3',4' - TeCB	56	
2.3,3',6 - TeCB 59 59 + 62 + 75 2.3,4,4' - TeCB 60 2.3,4,5 - TeCB 61 61 + 70 + 74 + 76 2.3,4,6 - TeCB 62 59 + 62 + 75	2,3,3',5 - TeCB	57	
2.3.4.4' - TeCB 60 2.3.4.5 - TeCB 61 61 + 70 + 74 + 76 2.3.4.6 - TeCB 62 59 + 62 + 75	2,3,3',5' - TeCB	58	
2,3,4,5 - TeCB 61 61 + 70 + 74 + 76 2,3,4,6 - TeCB 62 59 + 62 + 75	2,3,3',6 - TeCB	59	59 + 62 + 75
2,3,4,6 - TeCB 62 59 + 62 + 75			
		61	
2 3 4' 5 - TeCB 63			59 + 62 + 75
	2 3 4' 5 • TeCB	63	

L7510-3 W

CLIENT	ID:	

LDW-B3b-T

Project Number.	04-08-06-21
Sample Data Filename:	PB5C_085 S:6

LAB	CONC.	DETECTION	ION ABUND.	RRT
FLAG ¹	FOUND	LIMIT	RATIO	

14743AD6_1 xis. S3

Approved by.____

QA/QC Chemist

01-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD PO 80X 2719 2045 MILLS RD. WEST, SIDNEY B C (ANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5811

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Form 1A	MLA-010 Rev 05				CLIENT ID: Project Number		LDW-B3b-T	
Page 3 of 6 Lab Sample ID	1	.7510-3 W			Sample Data Fi		PB5C_085 S:6	
Lab Gampie ID	-				eanipie balari			
	COMPOUND	IUPAC NO.	CO-FUITIONS	I AR FLAG ¹	CONC	DETECTION	ION ARLIND RATIO	RRT
	2.3.4'.6 - TeCB	64						
	2,3,5,6 - TeCB	65	44 + 47 + 65					
	2,3'.4.4' - TeCB	66						
	2,3',4,5 - TeCB	67						
	2,3',4,5' - TeCB	68						
	2,3',4,6 - TeCB	69	49 + 69					
	2,3',4',5 - TeCB	70	61 + 70 + 74 + 76					
	2,3',4',6 - TeCB	71	40 + 41 + 71					
	2,3',5,5' - TeCB	72						
	2.3',5',6 - TeCB	73						
	2,4,4',5 - TeCB	74	61 + 70 + 74 + 76					
	2,4,4',6 - TeCB	75	59 + 62 + 75					
	2',3,4,5 - TeCB	/6	61 + /0 + /4 + /6					
	3.3',4,4' - TeCB	77						
	3,3',4,5 - TeCB	78						
	3.3'.4.5' - TeCB	79						
	3,3',5,5' - TeCB	80						
	3,4,4',5 - TeCB	81						
	2,2',3,3',4 - PeCB	82						
	2,2',3,3',5 - PeCB	83	83 + 99					
	2,2',3,3',6 - PeCB	84						
	2,2',3,4,4' - PeCB	85	85 + 116 + 117					
	2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125					
	2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125					
	2,2',3,4,6 - PeCB	88	88 + 91					
	2,2',3,4,6' - PeCB	89						
	2,2',3,4',5 - PeCB	90	90 + 101 + 113	CDB	21700	48.1	1.59	0.869
	2,2',3,4',6 - PeCB	91	88 + 91					
	2,2',3,5,5' - PeCB	92						
	2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CDB	15400	49.6	1.60	1.121
	2,2',3,5,6' PcCB	01						
	2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
	2,2',3,6,6' - PeCB	96						
	2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125					
	2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
	2,2',4,4',5 - PeCB	99	83 + 99					
	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						
	2.2'.4.6.6' - PeCB	104						
	2,3,3',4,4' PoCB	105						
	2,3,3',4,5 - PeCB	106						

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(250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5801

AXYS METHOD M Form 1A	MLA-010 Rev 05				CLIENT ID:		LDW-B3b-T	
Page 4 of 6 Lab Sample ID L7510-3 W					Project Number Sample Data Filename			
	COMPOUND	IUPAC NO.	CO-FUUTIONS	I AR FLAG ¹	CONC	DETECTION LIMIT	ION ABUND RATIO	RRT

2,3,3'.4'.5 - PeCB	107	107 + 124					
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125					
2,3,3',4,6 - PeCB	109						
2.3.3'.4'.6 - PeCB	110	110 + 115	CDB	20000	40 7	1.59	0 925
2,3,3',5,5' - PeCB	111						
2,3,3',5,6 - PeCB	112						
2.3.3'.5',6 - PeCB	113	90 + 101 + 113	C90				
2.3,4.4'.5 - PeCB	114						
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3,4,5,6 - PeCB	116	85 + 116 + 117					
2,3,4',5,6 - PeCB	117	85 + 116 + 117					
2,3',4,4',5 - PeCB	118		DВ	19400	172	1.53	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125					
2,3',4,5,5' - PeCB	120						
2,3',4,5',6 - PeCB	121						
2',3,3',4,5 - PeCB	122						
2',3,4,4',5 - PeCB	123						
2',3,4,5,5' - PeCB	124	107 + 124					
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125					
3,3',4,4',5 - PeCB	126						
3,3',4,5.5' - PeCB	127						
2,2',3,3',4,4' - HxCB	128	128 + 166					
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163					
2,2',3,3',4,5' - HxCB	130						
2,2',3,3',4,6 - HxCB	131						
2,2',3,3',4,6' - HxCB	132						
2,2'.3,3'.5.5' - HxCB	133						
2,2',3,3',5,6 - HxCB	134	134 + 143					
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154					
2,2'.3,3'.6,6' - HxCB	136						
2,2',3,4,4',5 - HxCB	137						
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163					
2,2',3,4,4',6 - HxCB	139	139 + 140					
2,2',3,4,4',6' - HxCB	140	139 + 140					
2,2',3,4,5,5' - HxCB	141						
2,2',3,4,5,6 - HxCB	142						
2,2',3,4,5,6' - HxCB	143	134 + 143					
2,2',3.4,5',6 - HxCB	144						
2,2',3,4,6,6' - HxCB	145						
2,2',3,4',5,5' - HxCB	146						
2,2',3.4'.5,6 - HxCB	147	147 + 149					
2,2',3,4',5,6' HxCB	148	147 + 140					
2,2',3,4',5',6 - HxCB	149	147 + 149					

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_QA/QC Cnemist

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AXYS ANALYTICAL SERVICES LTD PO 804 2219 2045 MILLS RD WEST SIDNEY & (CANADA VBL 358 TEL (250) 655-5800 FA) (250) 655-5811

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AXYS METHOD MLA-010 Rev 05	
Form 1A	
Page 5 of 6	
Lab Sample ID	L7510-3 W

COMPOUND	IUPAC NO.	CO-ELUTIONS
2.2',3.4'.6,6' - HxCB	150	
2,2',3,5,5',6 - HxCB	151	135 + 151 + 154
2,2',3.5,6,6' - HxCB	152	
2,2',4,4',5,5' - HxCB	153	153 + 168
2,2'.4,4',5,6' - HxCB	154	135 + 151 + 154
2.2'.4.4'.6.6' - HxCB	155	
2.3.3',4,4',5 - HxCB	156	156 + 157
2.3,3',4.4',5' - HxCB	157	156 + 157
2,3,3',4,4',6 - HxCB	158	
2,3.3',4,5,5' - HxCB	159	
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163
2,3,3',4,5',6 - HxCB	161	
2,3,3',4',5,5' - HxCB	162	
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163
2,3,3',4',5',6 - HxCB	164	
2,3,3',5.5',6 - HxCB	165	
2,3,4,4',5,6 - HxCB	166	128 + 166
2,3',4,4',5,5' - HxCB	167	
2,3',4,4',5',6 - HxCB	168	153 + 168
3,3',4,4',5,5' - HxCB	169	
2,2',3,3',4,4',5 - HpCB	170	
2,2',3,3',4,4',6 - HpCB	171	171 + 173
2,2',3,3',4,5,5' - HpCB	172	
2,2',3,3',4,5,6 - HpCB	173	171 + 173
2,2',3,3',4,5,6' - HpCB	174	
2,2',3,3',4,5',6 - HpCB	175	
2,2',3,3',4.6,6' - HpCB	176	
2,2',3,3',4',5,6 - HpCB	177	
2,2',3,3',5,5',6 - HpCB	178	
2,2',3,3',5,6,6' - HpCB	179	
2,2',3,4,4',5,5' - HpCB	180	180 + 193
2,2',3,4,4',5,0 - HpCB	101	
2,2',3,4,4',5,6' - HpCB	182	100 - 105
2,2',3,4,4',5',6 - HpCB	183	183 + 185
2,2',3,4,4',6,6' - HpCB	184	100 - 105
2,2',3,4,5,5',6 - HpCB	185	183 + 185
2,2',3.4,5,6,6' - HpCB	186	
2,2',3,4',5,5',6 - HpCB	187	
2.2'.3.4'.5.6.6' - HpCB	188 189	
2,3,3',4,4',5,5' - HpCB	189 190	
2,3,3',4,4',5,6 - HpCB	190	
2,3,3',4,4',5',6 - HpCB 2,3,3',4,5,5',6 HpCB	102	
	1.101.800	

CLIENT ID:

LDW-B3b-T

Project Number:04-08-06-21Sample Data Filename:PB5C_085 S:6

LAB	CONC.	DETECTION	ION ABUND.	RRT
FI AG ¹	FOUND	LIMIT	RATIO	

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Approved by

_QA/QC Chemist

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AXYS METHOD MLA-010 Re Form 1A Page 6 of 6 Lab Sampie ID		.7510-3 W			CLIENT ID: Project Numbe Sample Data F		LDW-B3b-T 04-08-06-21 PB5C_085 S:6	
COMPC	DUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3,3',4',5,5'.6 -	HpCB	193	180 + 193					
2,2',3,3',4,4'.5.5' - (OcCB	194						
2,2',3,3',4,4',5,6 - 0	OcCB	195						
2,2',3,3',4,4'.5.6' - (DcCB	196						
2,2',3,3',4,4',6,6' - (Dr.C.R	197	197 + 200					
2,2',3,3',4,5,5',6 - (OcCB	198	198 + 199					
2,2',3,3',4,5,5',6' - (DcCB	199	198 + 199					
2,2',3,3',4,5,6,6' - 0	OcCB	200	197 + 200					
2.2',3,3',4,5',6,6' - 0	OcCB	201						
2,2',3,3',5,5',6,6' - 0	DcCB	202						
2,2',3,4,4',5,5',6 - 0	OcCB	203						
2,2',3,4,4',5,6,6' - 0	DcCB	204						
2,3,3',4,4',5,5',6 - 0	DcCB	205						
2,2',3,3',4,4',5,5',6 - N	NoCB	206						
2,2',3,3',4,4'.5,6,6' - N	loCB	207						
2.2',3,3',4.5,5'.6.6' - N	loCB	208						
2,2',3,3',4,4',5,5',6,6' - [DeCB	209						

(1) C = co-eluting congener. U = not detected; K = pcak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested. J = concentration less than LMCL. B = analyte found in sample and the associated blank. X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by _

QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD = 0. 80x 2219 2045 MILLS RD WEST, SLONEY B.C. CAMADA V81, 358 TEL (250) 655 5800 FAX (250) 655 5871

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID: LDW-B3b-T

Form 1A HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT Sample Collection: 10-Aug-2004 Lab Name: AXYS ANALYTICAL SERVICES Project Number: 04-08-06-21 Contract No.: 4033 Lab Sample ID: L7510-3 Matrix: TISSUE Sample Size: 2.22 g (wet) 16-Dec-2004 04-Feb-2005 Initial Calibration Date: Sample Receipt Date: 27-Jan-2005 Instrument ID: HR GC/MS Extraction Date: Analysis Date: 12-Feb-2005 Time: 12:17:48 GC Column ID: SPB-OCTYL Blank Data Filename: Extract Volume (µL): 20 PB5C 074 S:7 Cal. Ver. Data Filename: 1.0 PB5C 075 S:1 Injection Volume (uL): **Dilution Factor:** N/A Sample Datafile(s): PB5C 075 S:5 PB5C_085 S:6 Concentration Units . ng/kg (wet weight basis) PCB HOMOLOGUE GROUP LAB CONC. DETECTION FOUND LIMIT FLAG¹ Total Monochloro Biphenyls 0.175 13.1 **Total Dichloro Biphenyls** 1090 0.639 0.987 15200 **Total Trichloro Biphenyls Total Tetrachloro Biphenyls** 62300 0.473 127000 0.610 **Total Pentachloro Biphenyls Total Hexachloro Biphenyls** 106000 23.7 29600 **Total Heptachloro Biphenyls** 1 08

(1) U = Not detected

Total Octachloro Biphenyls

Total Nonachloro Biphenyls

Decachloro Biphenyl

TOTAL PCBs

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by: ARAMANA QA/QC Chemist

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120

347000

0.583

0.283

0.0151

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AXYS ANALYTICAL SERVICES LTD RO BOX 2219 2045 MILLS RD WEST, SIDNEY B (CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCE-TEO-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-B3b-T

Sample Collection: Lab Name: AXYS ANALYTICAL SERVICES 10-Aug-2004 4033 Project Number: 04-08-06-21 Contract No.: TISSUE Lab Sample ID: L7510-3 Matrix: GC Column ID(s): SPB-OCTYL 2.22 Sample Size: g (wet) PB5C_075 S:5 PB5C_085 S:6 Sample Datafile(s): Concentration Units : ng/kg (wet weight basis)

							TE	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			594	0.441	0.0001	5.94E-02	5 94E-02
3,4,4',5-TetraCB	81			39.3	0.405	0 0001	3.93E-03	3.93E-03
2,3,3',4,4'-PentaCB	105			6370	0.342	0.0001	0.37E-01	0.37E-01
2,3,4,4',5-PentaCB	114			343	0.353	0.0005	1.71E-01	1.71E-01
2,3',4,4',5-PentaCB	118			19400	172	0.0001	1.94E+00	1.94E+00
2',3,4,4',5-PentaCB	123			315	0.354	0.0001	3.15E-02	3.15E-02
3,3',4,4',5-PentaCB	126			32.9	0.434	0.1	3.29E+00	3.29E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	С	2100	0.377	0.0005	1 05E+00	1.05E+00
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			954	0.299	0.00001	9 54E-03	9.54E-03
3,3',4,4',5,5'-HexaCB	169		U		23.7	0.01	1 19E-01	0 00E+00
2,3,3',1,4',5,5'-HeptaCB	189			111	1.08	0.0001	1 11E-02	1 11F-02

TOTAL TEQ 7.32 7.20

(1) C = co-eluting congener U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

4*43PCBTEQ ' + STITEQ

Approved by Mandal And Chemist

02-03-2005 ad-mm-vvyv

AXYS ANALYTICAL SERVICES LTD RO BOX 2219, 2045 MILLS RD WEST, SIDNEY B.(CANADA VOL 358 TEL (250) 655-5800 FAX +250+ 655-5811

AXVS METHOD MLA-010 Rev 05 1668A-S1 209 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-B4b-T	
			Sample Collection:	17-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7510-4	
Matrix:	TISSUE		Sample Size:	7 58	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 13:22:03	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_075 S:6	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_075 S:1	

Concentration Units :

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		В	10.6	0.0745	3.12	1 001
3 - MoCB	2		JB	1.94	0.0896	3.19	0.988
4 - MoCB	3		В	5.57	0.0841	3.19	1.000
2,2' - DICB	4		в	115	0.286	1.50	1.002
2,3 - DiCB	5			4.61	0.202	1.50	1.198
2,3' - DiCB	6		В	98.9	0.192	1.52	1.176
2,4 - DiCB	7			17.6	0.190	1.53	1 159
2,4' - DiCB	8		В	431	0.184	1.52	1.209
2,5 - DiCB	9			18.3	0.188	1.53	1,146
2,6 - DiCB	10			6.48	0.185	1.47	1 014
3,3' - DiCB	11		В	16.8	0.217	1.64	0.969
3,4 - DiCB	12	12 + 13	С	44.9	0.215	1.49	0.983
3,4' - DiCB	13	12 + 13	C12				
3,5 - DICB	14		U		0.206		
4,4' - DiCB	15		В	295	0.222	1.49	1.002
2,2',3 - TriCB	16		В	350	0.0892	1.06	1.166
2.2',4 - TriCB	17		В	543	0.0783	1.05	1.139
2,2',5 - TriCB	18	18 + 30	СВ	850	0.0629	1.06	1.113
2,2',6 - TriCB	19		В	145	0 101	1.05	1.001
2,3,3' - TriCB	20	20 + 28	CB	3220	0.256	0.99	0.848

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AXYS METHOD MLA-010 Rev 05

Form 1A Page 2 of 6

Project Number

LDW-B4b-7 04-08-06-21

Sample ID	L	7510-4			Sample Data F	ilename	PB5C_075 S:6	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2,3,4 - TriCB	21	21 + 33	СB	1250	0.262	0 99	0 857
	2,3,4' - TriCB	22		В	862	0.286	0.98	0 872
	2,3,5 - TriCB	23		J	2.01	0.264	0.89	1 284
	2,3,6 - TriCB	24			13 7	0 0547	1.00	1 159
	2,3',4 - TriCB	25		В	328	0.241	0.99	0.825
	2.3'.5 - TriCB	26	26 + 29	СВ	578	0.264	1.00	1.302
	2,3'.6 - TriCB	27		В	123	0.0528	1 05	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		В	2250	0.256	0.99	0.837
	2.4',6 - TriCB	32		х				
	2',3,4 - TriCB	33	21 + 33	C21				
	2'.3,5 - TriCB	34			14 4	0.265	1 00	1 274
	3,3',4 - TriCB	35			51 3	0.327	0 98	0.985
	3.3',5 - TriCB	36		U		0.268		
	3,4,4' - TriCB	37		В	696	0.255	0.99	1 001
	3,4,5 - TriCB	38			10.5	0.287	1.17	0.969
	3,4',5 - TriCB	39			29.4	0.280	0.95	0 947
	2,2',3,3' - TeCB	40	40 + 41 + 71	СВ	2210	0.0875	0.79	1.335
	2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
	2,2',3,4' - TeCB	42		в	1390	0.0910	0.79	1.311
	2,2',3,5 - TeCB	43		В	173	0 0962	0.81	1.245
	2,2',3,5' - TeCB	44	44 + 47 + 65	CE				
	2,2',3,6 - TeCB	45	45 + 51	СВ	/03	0.0816	0.80	1.145
	2,2',3,6' - TeCB	46			187	0.0981	0.79	1 159
	2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
	2.2',4,5 - TeCB	48		В	864	0.0852	0.79	1.273
	2,2',4,5' - TeCB	49	49 + 69	СВ	3700	0.0757	0.80	1,258
	2,2',4,6 - TeCB	50	50 + 53	СВ	567	0.0787	0 79	1.109
	2,2',4,6' - TeCB	51	45 + 51	C45				
	2,2',5,5' TcCB	52		E				
	2,2',5,6' - TeCB	53	50 + 53	C50				
	2,2',6,6' - TeCB	54			10.7	0 0768	0.79	1.002
	2,3,3',4 - TeCB	55			89.0	0.489	0.74	0.890
	2,3,3',4' - TeCB	56		В	2470	0 511	0.73	0.904
	2,3,3',5 - TeCB	57			44.4	0 518	0.74	0.844
	2,3,3',5' - TeCB	58			28.2	0.508	0.73	0.851
	2.3.3'.6 - TeCB	59	59 + 62 + 75	СВ	559	0 0664	0.80	1.302
	2,3,4,4' - TeCB	60		В	1260	0 500	0.74	0 911
	2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	CE				
	2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
	2.3.4'.5 . ToCB	63			278	0 492	0.73	0.864

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___QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD =0 80X 2219 2045 MILLS RD WEST, SIDNEY B.C. (ANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5801

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AXYS	METHOD	MLA-010	Rev	05

L7510-4

Form 1A Page 3 of 6

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LDW-B4b-T

Project Number Sample Data Filename 04-08-06-21 PB5C_075 S-6

COMPOUND	IUPAC NO.	CO-ELUTIONS	I AR FLAG ¹	CONC	DETECTION	ION ABUND RATIO	RRT
2,3,4',6 - TeCB	64		В	1960	0.0633	0.79	1.347
2.3.5,6 - TeCB	65	44 + 47 + 65	C44				
2.3',4.4' - TeCB	66		E				
2,3'.4.5 - TeCB	67			235	0.469	0.73	0.857
2,3'.4,5' - TeCB	68			58.4	0.467	0 74	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			92.8	0.473	0 72	0.823
2,3',5',6 - TeCB	73		U		0.0659		
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		В	427	0.449	0.73	1.000
3,3 ',4 ,5 - TeCB	78		U		0.538		
3,3',4,5' - TeCB	79			110	0.434	0.68	0 970
3,3',5,5' - TeCB	80		U		0.467		
3,4, 4' ,5 - TeCB	81			29.4	0.417	0 72	1 001
2,2',3,3',4 - PeCB	82			1070	0.543	1 57	0.934
2,2',3,3',5 - PeCB	83	83 + 99	CE				
2,2',3,3',6 - PeCB	84		В	2100	0.517	1.57	1.164
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СB	2160	0.416	1 57	0.920
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CE				
2,2',3.4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	CB	1400	0.447	1.58	1.155
2,2',3,4,6' - PeCB	89			78.6	0.478	1.58	1 183
2,2',3,4'.5 - PeCB	90	90 + 101 + 113	CE				
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		В	2500	0.479	1.57	0.853
2.2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CE				
2.2',3,5,6' - PeCB	94			38 0	0.163	1.60	1 103
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6 ' - PeCB	96			49.1	0.0732	1.60	1.015
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2.2'.4.4'.5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93		0.425		
2.2',4,5',6 - PeCB	103			147	0.405	1 58	1.094
2.2',4,6.6' - PeCB	104		J	1.72	0.0810	1 74	1.001
2,3,3',4,4' PcCB	105		E		0.444		
2,3,3'.4,5 - PeCB	106		U		0.441		

Approved by _ QA/QC Chemist

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AXYS METHOD MLA-010 Rev 05 CLIENT ID: Form 1A Page 4 of 6 Project Number Lab Sample ID L7510-4 Sample Data File

04-08-06-21

LDW-B4b-T

 Project Number
 04-08-06-21

 Sample Data Filename
 PB5C_075 S:6

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND. RATIO	RRT
2,3,3',4'.5 - PeCB	107	107 + 124	С	520	0 462	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			980	0 436	1.51	0 998
2,3,3'.4',6 - PeCB	110	110 + 115	CE				
2,3,3',5,5' - PeCB	111			8.22	0 361	1.44	0.946
2,3,3',5,6 - PeCB	112		U		0.358		
2,3,3'.5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114			256	0.420	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			55 7	0.365	1 59	0.959
2,3',4.5',6 - PeCB	121			3 41	0.350	1.75	1.201
2',3,3',4,5 - PeCB	122			167	0.510	1 49	1.009
2',3,4,4',5 - PeCB	123			199	0.421	1 52	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			19.8	0,504	1.60	1.000
3,3',4,5,5' - PeCB	127			35.3	0.509	1.50	1 042
2,2',3,3',4,4' - HxCB	128	128 + 166	СB	2380	0.427	1.25	0 958
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',3,3',4,5' - HxCB	130			1020	0.519	1.25	0 912
2,2',3,3',4,6 - HxCB	131			173	0.433	1.26	1.159
2,2',3,3',4,6' - HxCB	132		В	3810	0.453	1.26	1 174
2,2',3.3'.5.5' - HxCB	133		-	309	0.434	1.27	1 191
2,2',3.3',5,6 - HxCB	134	134 + 143	С	776	0.446	1.26	1 139
2,2',3,3',5.6' - HxCB	135	135 + 151 + 154	СВ	5610	0 135	1 28	1 104
2,2'.3,3',6,6' - HxCB	136		В	1570	0.102	1.28	1.024
2,2',3,4,4',5 - H×CB	137			771	0 181	1 25	0.018
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4,4',6 - HxCB	139	139 + 140	С	305	0 411	1.25	1.153
2.2',3,4.4',6' - HxCB	140	139 + 140	C139				
2,2',3.4,5,5' - HxCB	141		В	3170	0 450	1 25	0.903
2.2',3,4.5,6 - HxCB	142		U		0 459		
2.2',3.4.5.6' - HxCB	143	134 + 143	C134	700	0.440		
2,2',3.4,5',6 - HxCB	144			763	0 140	1 28	1 121
2.2'.3.4,6,6' - HxCB	145		ņ	3.39	0 102	1 28	1 034
2,2',3,4',5,5' - HxCB	146	447 . 440	B	2920	0.400	1.25	0.884
2,2'.3,4',5,6 - HxCB	147	147 + 149	CE	04 F	0.400	4 07	4 00 4
2,2',3,4',5,6' H×CB 2,2',3,4',5',6 - H×CB	118 149	147 + 149	C147	31 5	0 139	1 27	1 084
2,2,3,4,3,0 - HXUB	142	147 - 149	U 147				

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Approved by

QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD = 0 802 2219 2045 MILLS RD. WEST, SIDNEY B (CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5801

	AXYS METHOD MLA-010 Rev 05 1668A-S1 200 Page 1 of 6	PC	Form 1A CB CONGENER ANALYSIS RE	EPORT			CLIENT ID: LDW -B 4b-T	
					Sample Collec	tion:	17-Aug-2004	
j	Lab Name: AXYS ANALYTICAL 3	ERVICES			Project Numbe	er:	04-08-06-21	
	Contract No.:	4033			Lab Sample ID	:	L7510-4 W	
	Matrix:	TISSUE			Sample Size:		7 58	g (wet)
	Sample Receipt Date:	16-Dec-2004			Initial Calibrati	on Date:	04-Feb-2005	
i.	Extraction Date:	27-Jan-2005			Instrument ID:		HR GC/MS	
	Analysis Date:	17-Feb-2005	Time: 15.47:57		GC Column ID:		SPB-OCTYL	
	Extract Volume (µL):	500			Sample Data F	ilename:	PB5C_085 S:8	
	Injection Volume (µL):	10			Blank Data File	name:	PB5C_074 S.7	
	Dilution Factor:	25			Cal. Ver. Data F	Filename:	PB5C_085 S:1	
	Concentration Units :	ng/kg (wet weight basis)					
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2 - MoCB							
	3 - MoCB							
	4 - MoCB							
	2,2' - DiCB							
	2,3 - DiCB							
	2,3' - DiCB							
	2,4 - DiCB							
	2,4' - DiCB							
	2,5 - DiCB 2,6 - DiCB							
	2,6 - DICB 3,3' - DICB							
	3,3 - DICB 3,4 - DICB		12 + 13					
			12 + 13					
	3,4' - DiCB 3,5 - DiCB		12 7 10					
	4,4' - DiCB							
	2,2',3 - TriCB							
	2,2'.4 - TriCB	17	10.00					

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2,2',5 - TriCB

2,2'.6 - TriCB

2,3,3' - TriCB

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AXYS ANALYTICAL SERVICES LTD PO BOY 2219 2045 MILLS RD WEST, SIONEY, B.C., CANADA VBL 358 FEL 250 655-5800 FAX (250) 655-5811

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Form 1A

Page 2 of 6

Lab Sample ID	L7510-4
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CLIENT ID:

LDW-B4b-T

ID		⊾7510-4 W			Project Number Sample Data Fi		04-08-06-21 PB5C_085 S:8	
	COMPOUND	IUPAC NO	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2.3.4 - TriCB	21	21 + 33					
	2.3.4' - TriCB	22						
	2,3,5 - TriCB	23						
	2.3.6 - TriCB	24						
	2.3',4 - TriCB	25						
	2.3'.5 - TriCB	26	26 + 29					
	2.3'.6 - TriCB	27						
	2.4.4 - TriCB	28	20 + 28					
	2.4.5 - TriCB	29	26 + 29					
	2,4,6 - TriCB	30	18 + 30					
	2,4',5 - TriCB	31						
	2.4',6 - TriCB	32		DB	681	5.83	1.00	1.198
	2',3,4 - TriCB	33	21 + 33					
	2',3,5 - TriCB	34						
	3,3',4 - TriCB	35						
	3,3',5 - TriCB	36						
	3.4.4' - TriCB	37						
	3,4,5 - TriCB	38						
	3,4',5 - TriCB	39						
	2,2'.3,3' - TeCB	40	40 + 41 + 71					
	2,2`,3,4 - TeCB	41	40 + 41 + 71					
:	2,2',3,4' - TeCB	42						
	2,2',3,5 - TeCB	43						
:	2,2',3,5' - TeCB	44	44 + 47 + 65	CDB	4490	0.598	0.79	1.286
	2,2',3,6 - TeCB	45	45 + 51					
:	2,2',3,6' - TeCB	46						
:	2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
	2,2',4,5 - TeCB	48						
:	2,2',4.5' - TeCB	49	49 + 69					
	2,2',4,6 - TeCB	50	50 + 53					
:	2,2',4,6' - TeCB	51	45 + 51					
	2.2'.5.5' - TeCB	52		DD	6100	0 658	0.79	1 235
:	2,2',5,6' - TeCB	53	50 + 53					
:	2,2',6,6' - TeCB	54						
	2,3,3',4 - TeCB	55						
:	2.3,3'.4' - TeCB	56						
	2,3,3',5 - TeCB	57						
:	2.3,3',5' - TeCB	58						
	2.3.3',6 - TeCB	59	59 + 62 + 75					
	2.3.4,4' - TeCB	60						
	2.3,4,5 - TeCB	61	61 + 70 + 74 + 76	CDB	9030	34.3	0 78	0.875
	2,3,4.6 - TeCB	62	59 + 62 + 75					
	2,3,4',5 - TeCB	63						

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MAXYS ANALYTICAL SERVICES LTD PO 80X 2219, 2045 MILLS RD WEST SIDNEY B.C. CANADA VBL 358 FEL 250) 655-5800 FAX (250) 655-5800 F

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AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1 CLIENT ID: LDW-B4b-T

Form 1A

HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

			Sample Collection:		17-Aug-2004	
Lab Name: AXYS ANALYTICAL S	SERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-4	
Matrix:	TISSUE		Sample Size:		7.58	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Da	te:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 13:22:03	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename	:	PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filena	me:	PB5C_075 S:1	
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_075 S:6	
Concentration Units :	ng/kg (wot woight bo	oio)			PB5C_085 S:8	
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION		
Total Monochloro Biphenyls			18.1	0.0896		
Total Dichloro Biphenyls			1050	0.286		
Total Trichloro Biphenyls			12000	0.327		
Total Tetrachloro Biphenyls			43500	0.538		
Total Pentachloro Biphenyls			77900	0.543		
Total Hexachloro Biphenyls			83000	25.8		
Total Heptachloro Biphenyls			35100	0.562		
Total Octachloro Biphenyls			6690	0.582		
Total Nonachloro Biphenyls			493	0.0979		
Decachloro Biphenyl			81.1	0.0051		
TOTAL PCBs			260000			

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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MAXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD WEST, SIDNEY, B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 1668A-S1 209 Page 1 of 6	ò	Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-B5a-T	
			Sample Collection:	22-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7510-5	
Matrix:	TISSUE		Sample Size:	2.25	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 14:26:18	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_075 S:7	
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_075 S:1	

Concentration Units :

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		В	45.0	0.213	3.03	1.000
3 - MoCB	2		JB	2.51	0.282	2.99	0.988
4 - MoCB	3		В	15.1	0.290	3.21	1.001
2,2' - DiCB	4		в	275	0.769	1.50	1.001
2,3 - DiCB	5			12.8	0.649	1.56	1.198
2,3' - DiCB	6		В	233	0.616	1.53	1.176
2,4 - DiCB	7			44.8	0.609	1 53	1,158
2,4' - DiCB	8		В	1040	0.589	1.52	1.208
2,5 - DiCB	9			46.6	0.604	1.53	1 146
2,6 - DiCB	10			20.5	0.592	1 50	1.014
3,3' - DiCB	11		В	35.2	0 697	1 58	0 968
3,4 - DiCB	12	12 + 13	С	97.8	0,690	1.49	0.983
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		0.662		
4,4' - DiCB	15		В	798	0.798	1.50	1 001
2,2',3 - TriCB	16		В	1380	0.341	1 06	1.166
2.2'.4 - TriCB	17		В	2780	0.300	1.05	1.139
2,2',5 - TriCB	18	18 + 30	СВ	3520	0.241	1.05	1.113
2,2',6 - TriCB	19		В	386	0.323	1.04	1.001
2,3,3' - TriCB	20	20 + 28	СB	14800	0.406	1.00	0.848

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Approved by JANNY ANN QA/QC Chemist

27-02-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD WEST SIDNEY B.C., CANADA VBI 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS	METHOD	MLA-010	Rev	05

Form 1A Page 2 of 6

Project Number.

LDW-B5a-T 04-08-06-21

Sample ID	L7510-5			Sample Data Filename			PB5C_075 S 7	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2,3,4 - TriCB	21	21 + 33	СВ	3580	0.416	0.99	0,857
	2,3,4' - TriCB	22		В	2940	0.454	0.99	0.872
	2,3,5 - TriCB	23		ť	474	0.418	0.89	1 284
	2,3,6 - TriCB	24			39.2	0.210	1.01	1.159
	2,3',4 - TriCB	25		В	910	0.381	0.98	0.825
	2,3'.5 - TriCB	26	26 + 29	СB	2410	0 419	0.99	1.303
	2,3',6 - TriCB	27		В	381	0.202	1.04	1.152
	2.4.4' - TriCB	28	20 + 28	C20				
	2,4.5 - TriCB	29	26 + 29	C26				
	2,4,6 - TriCB	30	18 + 30	C18				
	2.4',5 - TriCB	31		В	12400	0.406	0.99	0 836
	2,4',6 - TriCB	32		В	2400	0.387	0.98	1,198
	2',3,4 - TriCB	33	21 + 33	C21				
	2',3,5 - TriCB	34			72.9	0.419	0.99	1.275
	3,3',4 - TriCB	35			112	0.518	1.00	0.985
	3.3',5 - TriCB	36		U		0.424		
	3,4,4' - TriCB	37		В	2370	0.448	0.98	1.001
	3,4,5 - TriCB	38			28.1	0.455	0.95	0.969
	3.4',5 - TriCB	39			142	0.444	0.92	0.947
	2.2',3,3' - TeCB	40	40 + 41 + 71	СВ	11900	0.369	0 79	1 337
	2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
	2,2',3,4' - TeCB	42		В	5470	0.384	0 78	1.312
	2,2',3,5 - TeCB	43		В	779	0.406	0 79	1 246
	2,2',3,5' - TeCB	44	44 + 47 + 65	CE				
	2,2',3,6 - TeCB	45	45 + 51	СΒ	2750	0.345	0.79	1 147
	2,2',3,6' - TeCB	46			592	0.414	0 79	1.161
	2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
	2,2',4,5 - TeCB	48		В	3870	0.360	0.79	1 274
	2,2',4,5' - TeCB	49	49 + 69	СВ	19100	0.320	0 79	1 259
	2,2',4,6 - TeCB	50	50 + 53	СВ	2460	0.332	0.79	1 110
	2,2',4,6' - TeCB	51	45 + 51	C45				
	2,2',5,5' TcCB	52		E				
	2.2'.5.6' - TeCB	53	50 + 53	C50				
	2,2',6,6' - TeCB	54			27 9	0.265	0 75	1.001
	2,3,3',4 - TeCB	55			195	0.485	0 73	0.889
	2,3,3',4' - TeCB	56		В	9420	0.505	0 73	0.905
	2,3,3',5 - TeCB	57			113	0.512	0.73	0 844
	2,3,3',5' - TeCB	58			101	0.503	0.74	0.851
	2,3,3',6 - TeCB	59	59 + 62 + 75	СВ	2070	0.280	0.79	1.303
	2,3,4,4' - TeCB	60		В	3510	0.495	0.73	0.911
	2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	CE				
	2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
	2,3.4'.5 • TeCR	63			1020	0 487	0 73	0.864

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Approved by.

QA/QC Chemist

27-02-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD R.0 BOX 2219, 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA V81, 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 Form 1A Page 3 of 6

L7510-5

Lab Sample ID

CLIENT ID:

LDW-B5a-T

Project Number Sample Data Filename[.] 04-08-06-21 PB5C_075 S[.]7

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC FOUND	DFTECTION	ION ABUND RATIO	RRT
2,3,4',6 - TeCB	64		в	10600	0.267	0 79	1 348
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4.4' - TeCB	66		E				
2,3',4,5 - TeCB	67			547	0.464	0.72	0.857
2,3'.4,5' - TeCB	68			171	0 462	0.72	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			345	0.468	0.73	0.822
2,3'.5',6 - TeCB	73		U		0.278		
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		В	1440	0.499	0.73	1.000
3,3',4,5 - TeCB	78		U		0.532		
3,3',4,5' - TeCB	79			280	0.429	0.70	0.970
3,3',5,5' - TeCB	80		U		0.463		
3,4,4',5 - TeCB	81			67.6	0.439	0.75	1.000
2,2',3,3',4 - PeCB	82			2550	0.431	1.57	0.933
2.2',3,3',5 - PeCB	83	83 + 99	CE				
2,2',3,3',6 - PeCB	84		В	4400	0.410	1.57	1.163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СB	6250	0.330	1.57	0.920
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CE				
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	СВ	4700	0.354	1 56	1.155
2,2',3,4,6' - PeCB	89			427	0.379	1.58	1.183
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		В	7000	0.380	1.57	0.853
2,2',3.5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CE				
2,2',3,5,6' - PcCB	04			157	0.368	1.57	1.102
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2'.3,6,6' - PeCB	96			163	0.326	1.60	1.015
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2.2'.4.5.5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103			419	0.321	1.58	1 094
2,2',4,6,6' - PeCB	104		J	3.60	0.339	1.43	1 001
2,3,3',4.4' - PeCB	105		B	8210	0.331	1 52	1,000
2,3,3',4,5 - PeCB	106		U		0.338		

Approved by ____

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QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD R.0 BOX 2219, 2045 MILLS RD WEST, SIDNEY B.C., CANADA V8L 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A

Page 4 of 6 Lab Sample ID

L7510-5

LDW-B5a-T

Project Number Sample Data Filename 04-08-06-21 PB5C_075 S 7

	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.	3,3'.4'.5 - PeCB	107	107 + 124	С	875	0.354	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			2210	0.334	1.51	0.997
2,	3,3',4',6 - PeCB	110	110 + 115	CE				
2,	3,3'.5,5' - PeCB	111			22.7	0.287	1.69	0.945
2	,3,3',5,6 - PeCB	112		U		0.284		
2,	3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2	,3,4,4',5 - PeCB	114			526	0 330	1.52	1.000
2	.3.4.4',6 - PeCB	115	110 + 115	C110				
2	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	C8b				
2,	3',4,5,5' - PeCB	120			142	0.289	1.55	0.959
2,	3',4,5',6 - PeCB	121		U		0.278		
2',	,3,3',4,5 - PeCB	122			299	0.390	1.55	1.010
2',	,3,4,4',5 - PeCB	123			433	0.342	1.50	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	3',4,4',5 - PeCB	126			52.5	0.399	1 56	1 000
3.	3',4,5,5' - PeCB	127			56.6	0.390	1.51	1.042
2,2',3	3,3',4,4' - HxCB	128	128 + 166	СB	3750	0.284	1.25	0.958
2,2',	,3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',.	3,3',4,5' - HxCB	130			1960	0.346	1.24	0.913
2,2',	,3,3',4,6 - HxCB	131			235	0.288	1.22	1.159
2,2',3	3,3',4.6' - HxCB	132		В	9240	0.302	1.25	1.174
2,2',3	3,3',5,5' - HxCB	133			622	0.289	1.26	1.191
2,2',	,3,3',5,6 - HxCB	134	134 + 143	С	1370	0.297	1.25	1.139
2,2',3	3,3',5,6' - HxCB	135	135 + 151 + 154	СВ	14600	0.481	1.27	1.103
2,2',3	3,3',6,6' - HxCB	136		В	3630	0.363	1.27	1.023
?,?' ,	3,4,4',5 - HxCB	137			1240	0.322	1 25	0 918
2,2'.3	3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',	3,4,4',6 - HxCB	139	139 + 140	С	536	0.274	1.22	1.152
2,2',3	3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',	3,4,5,5' - HxCB	141		В	5860	0.300	1.26	0 903
2,2'	,3,4,5,6 - HxCB	142		U		0.306		
2,2',	3,4.5,6' - HxCB	143	134 + 143	C134				
2,2',	3.4.5',6 - HxCB	144			1850	0.501	1.28	1 121
	3,4,6,6' - HxCB	145		KJ	8.44	0.365	1.05	1.033
	3.4',5,5' - HxCB	146		В	6210	0.266	1.25	0.884
	3,4',5,6 - HxCB	147	147 + 149	CE				
2 2' 3	3 4' 5 6' - HxCB	148	447 + 440	04.47	59.2	0 495	1 28	1 083

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2,2',3,4',5',6 - HxCB

Approved by ____

149

__QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD R.0 BOX 2219, 2045 MILLS RD, WEST, SIDNEY, B.C. CANADA VBL 358 TEI (250) 655-5800 FAX (250) 655-5811

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AXYS METHOD MLA-010 Rev 05

L7510-5

Form 1A

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Page 5 of 6 Lab Sample ID LDW-B5a-T

Project Number	04-08-06-21
Sample Data Filename	PB5C_075 S.7

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.2',3.4',6,6' - HxCB	150			44 9	0 356	1 28	1 012
2,2'.3,5.5',6 - HxCB	151	135 + 151 - 154	C135				
2,2'.3,5.6,6' - HxCB	152			21.6	0 349	1 27	1 006
2,2',4,4',5,5' - HxCB	153	153 + 168	CE				
2,2',4,4'.5,6' - HxCB	154	135 + 151 + 154	C135				
2,2',4,4',6.6' - HxCB	155		J	1.08	0.339	1 39	1 001
2.3,3'.4.4'.5 - HxCB	156	156 + 157	СB	2530	0.267	1.25	1 000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3.3'.4.4',6 - H×CB	158		В	3580	0.227	1.25	0.937
2,3,3',4.5,5' - HxCB	159		U		0.249		
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4.5',6 - HxCB	161		U		0 221		
2,3,3',4',5,5' - HxCB	162			75.5	0 247	1 27	0 989
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB	164		В	1740	0.230	1 25	0.921
2,3,3',5.5',6 - HxCB	165			13.6	0.243	1 22	0.878
2,3,4,4',5,6 - H×CB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167		В	1040	0.227	1 27	1.000
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		56.9		
2,2',3,3',4,4',5 - HpCB	170		В	8460	0 649	1.05	0.936
2.2',3,3',4.4',6 - HpCB	171	171 + 173	С	3190	0 599	1.04	1 163
2,2',3,3',4,5,5' - HpCB	172			1590	0 616	1.05	0.897
2,2',3,3',4,5,6 - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6' - HpUB	1/4		В	8660	0.554	1 05	1.133
2,2',3,3',4,5',6 - HpCB	175			482	0.517	1 06	1.103
2,2',3,3',4,6,6' - HpCB	176			1410	0.376	1 06	1 034
2,2',3,3',4',5,6 - HpCB	177		В	6800	0.576	1.05	1 145
2,2',3,3',5,5',6 - HpCB	178			2630	0 526	1 06	1 085
2,2',3,3',5,6,6' - HpCB	179		В	4660	0 364	1 05	1 010
2,2'.3,4,4',5,5' - HpCB	180	180 + 193	СЕ				
2,2',3,4,4',5,6 - HpCB	181			46.7	0.543	0.99	1.156
2.2',3,4,4',5,6' - HpCB	182			79.8	0.532	1.18	1.116
2,2',3,4,4',5',6 - HpCB	183	183 + 185	CB	9380	0.519	1 05	1.127
2,2',3.4,4',6,6' - HpCB	184		J	4.85	0.344	1.17	1.025
2,2'.3.4,5,5'.6 - HpCB	185	183 + 185	C183				
2,2'.3.4,5,6.6' - HpCB	186		U		0.382		
2,2',3,4',5.5',6 - HpCB	187		В	17300	0.484	1 05	1.110
2,2',3,4',5.6,6 ' - HpCB	188			11 2	0.299	1 05	1.001
2,3,3'.4.4'.5,5' - HpCB	189			228	1.77	0.95	1 000
2.3,3',4,4',5,6 - HpCB	190		В	2120	0.516	1 05	0 947
2,3,3',4,4',5',6 - HpCB	191			435	0 487	1.03	0 918
	192		11		0 514		

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CANADA VEL 355-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		∟DW-B5a-T	
Page 6 of 6				Project Numbe	r	04-08-06-21	
•	L7510-5			Sample Data F		PB5C 075 S 7	
						-	
COMPOUND	IUPAC NO.	CO-ELUTIONS	I AR FLAG ¹	CONC		ION ABUND RATIO	RRT
2,3,3'.4'.5.5'.6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194		В	2670	0.902	0.89	0.991
2,2',3,3',4,4',5,6 - OcCB	195		В	1420	1 05	0.89	0 946
2,2',3,3',4,4',5,6' - OcCB	196		В	2220	0.0254	0.90	0.916
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	С	525	0.0174	0.89	1.046
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	CB	4110	0.0260	0 89	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		В	556	0.0173	0.90	1.023
2,2',3,3',5,5',6,6' - OcCB	202		В	818	0.0191	0.89	1.000
2,2',3,4,4',5,5',6 - OcCB	203		В	2840	0.0245	0.90	0.920
2.2',3,4,4',5,6,6' - OcCB	204		JB	0.839	0.0177	0.94	1 039
2.3,3'.4.4',5,5',6 - UcCB	205		в	150	0702	0.89	1.001
2,2',3,3',4.4',5,5',6 - NoCB	206		В	523	0.209	0.78	1.001
2,2',3,3',4.4',5,6,6' - NoCB	207			77.9	0.182	0 78	1 0 2 0
2,2',3,3',4,5,5',6,6' - NoCB	208		В	124	0.189	0.78	1 001
2,2',3,3',4,4',5,5',6,6' - DeCB	209		В	63.8	0.0160	0.67	1 001

(1) C = co-eluting congener. U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested, J = concentration less than LMCL. B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by ____

QA/QC Chemist

27-02-2005 da-mm-yyyy

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23 AXYS ANALYTICAL SERVICES LTD R.O. BOX 2219, 2045 MILLS RO. WEST SIDNEY, B (... CANADA VOL 358 TEI (250) 655-5800 FAX (250) 655-5811

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PCB	Form 1A CONGENER ANALYSIS RE	PORT			CLIENT ID: LDW-B5a-T	
			Sample Collecti	on:	22-Aug-2004	
ERVICES			Project Number		04-08-06-21	
4033			Lab Sample ID:		L7510-5 W	
TISSUE			Sample Size:		2.25	g (wet)
16-Dec-2004			Initial Calibratio	n Date:	04-Feb-2005	
27-Jan-2005			Instrument ID:		HR GC/MS	
17-Feb-2005	Time: 16:52:11		GC Column ID:		SPB-OCTYL	
500			Sample Data Fil	ename:	PB5C_085 S:9	
10			Blank Data Filer	iame:	PB5C_074 S:7	
25			Cal. Ver. Data Fi	lename:	PB5C_085 S:1	
ng/kg (wet weight basis)						
IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	12 + 13 12 + 13 18 + 30					
	ERVICES 4033 TISSUE 16-Dec-2004 27-Jan-2005 17-Feb-2005 500 1 0 25 10 10 25 10 10 25 10 10 25 10 10 25 10 10 25 10 10 25 10 10 10 25 10 10 10 25 10 10 10 10 10 10 10 10 10 10	PCB CONGENER ANALYSIS RE 4033 TISSUE 16-Dec-2004 27-Jan-2005 17-Feb-2005 Time: 16:52:11 500 1 0 25 ng/kg (wet weight basis) IUPAC CO-ELUTIONS 1 1 2 3 4 5 6 7 8 9 10 1 2 3 4 5 6 7 8 9 10 12 12 + 13 13 12 + 13 14 15 16 17 18 18 + 30	PCB CONGENER ANALYSIS REPORT ava3 103 16-Dec-2004 27-Jan-2005 17-Feb-2005 10 20 10 25 ngkg (wet weight basis) INPAC CO-ELUTIONS LAB FLAG ¹ 1 2 3 4 5 6 7 8 9 10 1 2 1 2 1 2 3 1 2 3 1 2 3 1 2 3 1 1 12 13 14 15 16 17 18 18	PCB CONGENER ANALYSIS REPORT Sample Collect ERVICES Project Number 4033 Lab Sample Dize 103 Sample Size 10 Sample Data File 10 Blank Data File 10 Blank Data File 11 Image Size 12 CO-ELUTIONS LAB 12 A 3 FLAG CONC. 1 Soon Constant File 10 Blank Data File Soon 11 CO-ELUTIONS LAB CONC. 12 Sample Size Contect of the size 12 12 Sample Size Sample Size 12 12 + 13 Sample Size Sample Size 13 12 + 13 Sample Size Sample Size 14 Sample Size Sample Size Sample Size 13 12 + 13 Sample Size	Image: CONGENER ANALYSIS REPORT Sample Collection: Sample Collection: Project Number: REVICES Respective: 4033 Lab Sample Dz: TISSUE Sample Size: 18-Dec-2004 Initial Calibration Date: 17.Feb-2005 Time: 16:52:11 GC Column ID: 10 Sample Data Filename: 20 GC Column ID: 10 Sample Data Filename: 10 CO-ELUTIONS LAB 12 FLAC FOUND 1 Sample Data Filename: 10 CO-ELUTIONS LAB 12 FLAC FLAC 13 12 + 13 14 14 12 + 13 12 + 13 15 12 + 13 12 + 13 16 13 12 + 13 16 13 12 + 13 17 18 + 30 18 + 30	Form 1A PCB CONGENER ANALYSIS REPORT Sample Collection: 2/Aug-2004 4033 Cab Sample Collection: 4/Aug-2014 4034 Lab Sample ID: 1/210-2014 1785UE Sample Size: 2/210-2014 1785UE Initial Calibration Date: 0/4760-2014 174Feb-2005 Time: 16:52:11 GC Column ID: 1/2 10 Image Size: Sample Data Filename: PBSC_0875.81 10 Image Size: Image Size: 1/2 11 Image Size: Image Size: 1/2 12 Image Size: Image Size: 1/2 12 Image Size: Image Size: Image Size: 12 Image Size: Image Size: Image Size: 13 Image Size: Image Size: Image Size: 13 Image Size: Image Size: Image Size:

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Approved by Man Approved by Avac Chemist

01-03-2005 dd-mm-yyyy

CANADA VEL 358 FEL 250 655 5800 FA7 *2501 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A	5			CLIENT ID:		LDW-B5a-T	
Page 2 of 6 Lab Sample ID	L7510-5 W			Project Numbe Sample Data F		04-08-06-21 PB5C_085 S:9	
COMPOUN	D IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriC	B 21	21 + 33					
2,3.4' - TriC	B 22						
2.3,5 - TriC	B 23						
2,3,6 - TriC	B 24						
2.3'.4 - TriĆ	B 25						
2,3',5 - TriC		26 + 29					
2,3',6 - TriC	B 27						
2,4,4' - TriC	B 28	20 + 28					
2,4,5 - TriC		26 + 29					
2,4,6 - TriC		18 + 30					
2.4',5 - TriC							
2,4',6 - TriC							
2'.3.4 - TriC		21 + 33					
2',3,5 - TriC							
3,3',4 - TriC							
3,3',5 - TriC							
3,4,4' - TriC							
3,4,5 - TriC							
3,4',5 - TriC		40 + 41 + 71					
2,2',3,3' - TeC		40 + 41 + 71					
2,2',3,4 - TeC		40 + 41 + 71					
2,2',3,4' - TeC							
2,2',3,5 - TeC		44 + 47 + 65	CDB	22800	2.22	0.80	1.287
2,2',3,5' - TeC 2,2',3,6 - TeC		45 + 51	CDB	22000	£ £ 6	0.00	1.207
2,2',3,6' - TeC		40 . 01					
2,2',4,4' - TeC		44 + 47 + 65	C44				
2,2',4,5 - TeC			011				
2,2',4,5' - TeC		49 + 69					
2,2',4,6 - TeC		50 + 53					
2,2',4,6' - TeC		45 + 51					
2,2',5,5' - TeC			DD	30400	2.44	0.79	1.235
2,2',5,6' - TeC		50 + 53					
2,2',6.6' - TeC							
2,3,3',4 - TeC							
2,3,3',4' - TeC							
2,3,3',5 - TeC							
2,3.3',5' - TeC							
2.3.3',6 - TeC		59 + 62 + 75					
2,3,4,4' - TeC							
2,3,4,5 - TeC	B 61	61 + 70 + 74 + 76	CDB	38500	376	0.77	0.876
2.3.4,6 - TeC	B 62	59 + 62 + 75					
2,3,4',5 - TeC	B 63						

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AXYS ANALYTICAL SERVICES LTD R.0. 80% 2219 2045 MILLS RD WEST, SIDNEY, B.C., CANADA V8L 358 FEI (250) 655-5800 FAX (250) 655-5811

Page 3 01 b L*010-5 V Project Number 04-08-06.21 PBSC_005.5 COMPDIMN UPAC CO-FLUTIONS LAB FLAG ¹ COMC DETECTION NO ABLIND PFT 2.3.4.6 - TeGS 84	AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		LDW-B5a-T	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Page 3 of 6				Project Number		04-08-06-21	
NO. FLAG ¹ FOUND LIMIT RATIO 2.3.4.6.7 rGCB 64 44 + 47 + 65 C44 26500 407 0.77 0.885 2.3.4.5.7 rGCB 66 70 144 - 7 + 65 C44 26500 407 0.77 0.885 2.3.4.5.7 rGCB 68 71 40 + 60 70 70 0.875 70 </td <td>Lab Sample ID</td> <td>∟7510-5 W</td> <td></td> <td></td> <td>Sample Data Fil</td> <td>ename</td> <td>PB5C_085 S:9</td> <td></td>	Lab Sample ID	∟7510-5 W			Sample Data Fil	ename	PB5C_085 S:9	
NO. FLAG ¹ FOUND LIMIT RATIO 2.3.4.6.7 rGCB 64 44 + 47 + 65 C44 26500 407 0.77 0.885 2.3.4.5.7 rGCB 66 70 144 - 7 + 65 C44 26500 407 0.77 0.885 2.3.4.5.7 rGCB 68 71 40 + 60 70 70 0.875 70 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	COMPOUND		CO-ELUTIONS					RRT
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2.3.4'.6 - TeCB	64						
1 2.3:4.4: TACB 66 0 0.77 0.885 2.3:4.4: TACB 67 0 49 + 60 0 0.885 2.3:4.5: TACB 00 61 + 70 + 74 + 70 C61 0 0.885 2.3:4.6: TACB 71 40 + 41 + 71 0.885 0.885 0.885 0.885 2.3:4.6: TACB 71 40 + 41 + 71 0.885 <t< td=""><td></td><td></td><td>44 + 47 + 65</td><td>C44</td><td></td><td></td><td></td><td></td></t<>			44 + 47 + 65	C44				
1 2.3: 4.5 · TeCB 67 2.3: 4.5 · TeCB 60 40 + 60 2.3: 4.5 · TeCB 70 61 + 70 + 74 + 76 CE1 2.3: 4.5 · TeCB 71 40 + 41 + 71 2.3: 5.5 · TeCB 72 2.3: 4.5 · TeCB 72 73 2.3: 5.5 · TeCB 73 2.3: 4.5 · TeCB 74 61 + 70 + 74 + 76 C61 2.4: 4.5 · TeCB 74 61 + 70 + 74 + 76 C61 2.4: 4.5 · TeCB 74 61 + 70 + 74 + 76 C61 3.3: 4.5 · TeCB 76 61 + / 0 + / 4 + / 6 C61 3.3: 4.5 · TeCB 76 61 + / 0 + / 4 + / 6 C61 3.3: 4.5 · TeCB 78 73 73 3.3: 4.5 · TeCB 78 73 73 3.3: 4.5 · TeCB 78 73 73 3.3: 4.5 · TeCB 74 61 + / 0 + / 4 + / 6 CB 73 3.3: 4.5 · TeCB 78 74 74 74 74 2.2: 3.3: 5 · TeCB 78 75 75 75 75 2.2: 3.3: 5 · TeCB 78 85 + 110 + 117 72 <					26500	407	0 77	0.885
$ \begin{array}{ c c c c c } 2.3'.4.5' - TeCB & 68 \\ 2.3'.4.5, - TeCB & 70 & 61 + 70 + 74 + 76 & C61 \\ 2.3'.4.5, - TeCB & 71 & 40 + 41 + 71 & 2.3'.5.5 & - TeCB & 71 & 61 + 70 + 74 + 76 & C61 \\ 2.3'.5.5 & - TeCB & 71 & 74 + 76 & C61 & 72 & 72 & 72 & 72 & 72 & 72 & 72 & 7$.,		0.000
2.3'.4.6 · TeCB 60 40 • 60 2.3.'.4.5 · TeCB 70 61 + 70 + 74 + 76 C31 2.3.'.4.5 · TeCB 72 40 + 41 + 71 2.5'.5. · TeCB 72 2.3.'.5. · TeCB 73								
2.3'.4'.5 - TeCB 70 61 + 70 + 74 + 76 C61 2.3'.4'.5 - TeCB 71 40 + 41 + 71 5 2.3'.5'.5' - TeCB 73 7 7 2.3'.5'.5' - TeCB 73 7 7 2.3'.5'.5' - TeCB 74 61 + 70 + 74 + 76 C61 2.3'.4'.5 - TeCB 74 61 + 70 + 74 + 76 C61 2.4.4'.5 - TeCB 76 59 + 62 + 75 7 3.3'.4.5' - TeCB 78 7 7 3.3'.4.5' - TeCB 78 7 7 2.2'.3.3'.5 - TeCB 81 7 7 7 2.2'.3.3'.5 - TeCB 81 85 + 116 + 117 7 7 7 2.2'.3.4'.5 - PeCB 81 88 + 91 140 1.61 0.869 2.2'.3.4'.5 - PeCB 90 90 +			49 + 69					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		70	61 + 70 + 74 + 76	C61				
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$ \begin{array}{ c c c c c } 2,3,4,5 & - \mbox{ TeCB } 75 & 59 + 62 + 75 \\ 2,3,4,5 & - \mbox{ TeCB } 76 & 61 + 70 + 74 + 76 & C61 \\ 3,3,3,4,5 & - \mbox{ TeCB } 78 & \\ 3,3,3,4,5 & - \mbox{ TeCB } 78 & \\ 3,3,3,4,5 & - \mbox{ TeCB } 70 & \\ 3,3,3,4,5 & - \mbox{ TeCB } 80 & \\ 2,2,3,3,3,4,5 & - \mbox{ TeCB } 81 & \\ 2,2,3,3,3,4,5 & - \mbox{ TeCB } 82 & \\ 2,2,3,3,3,4,5 & - \mbox{ TeCB } 82 & \\ 2,2,3,3,3,6 & - \mbox{ PeCB } 84 & \\ 2,2,3,3,4,5 & - \mbox{ PeCB } 86 & 86 + 87 + 97 + 108 + 117 + 125 & C \mbox{ Co } B & 18200 & 142 & 1.59 & 0.901 \\ 2,2,3,4,6 & - \mbox{ PeCB } 86 & 86 + 87 + 97 + 108 + 119 + 125 & C \mbox{ Co } B & 18200 & 142 & 1.59 & 0.901 \\ 2,2,3,4,6 & - \mbox{ PeCB } 86 & 88 + 891 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 86 & 88 + 91 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 89 & 0 & 90 + 101 + 113 & C \mbox{ D } B & 35000 & 144 & 1.61 & 0.869 \\ 2,2,3,4,6 & - \mbox{ PeCB } 89 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 89 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 89 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 89 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 80 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 80 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 80 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 80 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 80 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 80 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 80 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 80 & \\ 3,3 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 91 & 83 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,3,4,6 & - \mbox{ PeCB } 91 & 83 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,4,4,6 & - \mbox{ PeCB } 10 & 93 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,4,4,6 & - \mbox{ PeCB } 10 & 93 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,4,4,6 & - \mbox{ PeCB } 10 & 93 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,4,4,6 & - \mbox{ PeCB } 10 & 93 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,4,4,6 & - \mbox{ PeCB } 10 & 93 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,4,4,6 & - \mbox{ PeCB } 10 & 93 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,4,5,5 & - \mbox{ PeCB } 10 & 93 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,4,5,5 & - \mbox{ PeCB } 10 & 93 + 95 + 98 + 100 + 102 & C \ 23 & \\ 2,2,4,5,5 & - \mbox{ PeCB } 10 & 93 + 95 + $			61 + 70 + 74 + 76	C61				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				C61				
3.3',4.5 - TeCB 78 3.3',4.5 - TeCB 79 3.3',4.5 - TeCB 80 3.3',4.5 - TeCB 81 2.2',3.3',4 - PeCB 82 2.2',3.3',4 - PeCB 83 2.2',3.3',4 - PeCB 84 2.2',3.4',5 - PeCB 85 3.2,2',3.4,5 - PeCB 86 8.6 + 87 + 97 + 108 + 119 + 125 C D B 2.2',3.4,5 - PeCB 86 8.6 + 87 + 97 + 108 + 119 + 125 C D B 2.2',3.4,6 - PeCB 88 8.8 + 91 22',3.4,6 - PeCB 2.2',3.4,6 - PeCB 80 8.8 + 91 22',3.4,6 - PeCB 2.2',3.4,6 - PeCB 90 9.0 + 101 + 113 C D B 2.2',3.4,6 - PeCB 91 3.3 + 95 + 98 + 100 + 102 C D B 2.2',3.5,6 - PeCB 92 2.2',3.5,6 - PeCB 93 9.3 + 95 + 98 + 100 + 102 C D B 2.2',3.4,6 - PeCB 95 9.2',3.4,6 - PeCB 96 9.2',3.4,6 - PeCB 91 9.2',3.4,6 - PeCB 92 2.2',3.4,6 - PeCB 93 + 95 + 98 + 100 + 102 <td></td> <td>77</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		77						
3,3'4,5' - TeCB 79 3,3'5,5' - TeCB 80 3,4,4'5 - TeCB 81 2,2'3,3',4' - PeCB 82 2,2'3,3',5 - PeCB 83 2,2'3,3',5 - PeCB 84 2,2'3,3',5 - PeCB 84 2,2'3,3,4' - PeCB 86 2,2'3,4,5' - PeCB 86 2,2'3,4,5' - PeCB 86 3,4',5' - PeCB 87 3,4',5' - PeCB 87 3,5' - PeCB 88 2,2'3,4,5' - PeCB 88 2,2'3,4,5' - PeCB 88 2,2'3,4,5' - PeCB 88 2,2'3,4,5' - PeCB 90 9,0 + 101 + 113 CD B 2,2'3,4,5' - PeCB 91 2,2'3,4,5' - PeCB 92 2,2'3,4,5' - PeCB 93 9,0 + 101 + 113 CD B 2,2'3,5,6' - PeCB 93 9,2'3,3,5' - PeCB 93 9,3 + 95 + 98 + 100 + 102 C93 2,2'3,4,6' - PeCB 96 2,2'3,4,5' - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C86 2,2'3,4,5' - PeCB 98 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$								
3.4,4',5 - TeCB 81 2.2',3.3',4 - PeCB 82 2.2',3.3',5 - PeCB 83 2.2',3.3',5 - PeCB 84 2.2',3.4,4' - PeCB 85 2.2',3.4,4' - PeCB 86 2.2',3.4,5' - PeCB 86 86 + 87 + 97 + 108 + 119 + 125 CD B 2.2',3.4,6' - PeCB 86 86 + 86 + 87 + 97 + 108 + 119 + 125 C80 2.2',3.4,6' - PeCB 80 88 + 91 2.2',3.4,6' - PeCB 2.2',3.4,6' - PeCB 80 2.2',3.4,6' - PeCB 80 2.2',3.4,6' - PeCB 90 90 + 101 + 113 CD B 2.2',3.4,6' - PeCB 91 2.2',3.4,6' - PeCB 92 2.2',3.4,6' - PeCB 91 2.2',3.5,6' - PeCB 92 2.2',3.5,6' - PeCB 93 9.3 + 95 + 98 + 100 + 102 CD B 2.2',3.4,6' - PeCB 96 2.2',3.4,6' - PeCB 97 2.2',3.5,6' - PeCB 97 2.2',3.5,6' - PeCB 98 2.2',3.4,6' - PeCB 97 2.2',3.4,6' - PeCB 98 <								
2,2',3,3',5 - PeCB 83 83 + 99 C D B 24200 169 1.52 0.886 2,2',3,3',5 - PeCB 85 85 + 116 + 117 7 </td <td></td> <td>81</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		81						
12.2',3,3',6 - PeCB 84 12.2',3,4,4' - PeCB 85 85 + 116 + 117 12.2',3,4,5 - PeCB 86 86 + 87 + 97 + 108 + 119 + 125 C D B 18200 142 1.59 0.901 12.2',3,4,5 - PeCB 87 86 + 87 + 97 + 108 + 119 + 125 C D B 18200 142 1.59 0.901 12.2',3,4,5 - PeCB 88 88 + 91 22' 22' 3.4,6 - PeCB 89 88 + 91 12.2',3,4,6 - PeCB 90 90 + 101 + 113 C D B 35000 144 1.61 0.869 12.2',3,4,6 - PeCB 91 88 + 91 22' 1.59 1.21 1.21 12.2',3,5,6 - PeCB 92 93 93 + 95 + 98 + 100 + 102 C D B 24500 143 1.59 1.121 12.2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C 93 22' 1.45 1.59 1.21 12.2',3,5,6 - PeCB 96 93 + 95 + 98 + 100 + 102 C 93 22', 4,4',5 - PeCB 1.45 1.59 1.121 12.2',3,5,6 - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C 86 22', 3,4',6 - PeCB 98	2,2',3,3',4 - PeCB	82						
12.2',3,3',6 - PeCB 84 12.2',3,4,4' - PeCB 85 85 + 116 + 117 12.2',3,4,5 - PeCB 86 86 + 87 + 97 + 108 + 119 + 125 C D B 18200 142 1.59 0.901 12.2',3,4,5 - PeCB 87 86 + 87 + 97 + 108 + 119 + 125 C D B 18200 142 1.59 0.901 12.2',3,4,5 - PeCB 88 88 + 91 22' 22' 3.4,6 - PeCB 89 88 + 91 12.2',3,4,6 - PeCB 90 90 + 101 + 113 C D B 35000 144 1.61 0.869 12.2',3,4,6 - PeCB 91 88 + 91 22' 1.59 1.21 1.21 12.2',3,5,6 - PeCB 92 93 93 + 95 + 98 + 100 + 102 C D B 24500 143 1.59 1.121 12.2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C 93 22' 1.45 1.59 1.21 12.2',3,5,6 - PeCB 96 93 + 95 + 98 + 100 + 102 C 93 22', 4,4',5 - PeCB 1.45 1.59 1.121 12.2',3,5,6 - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C 86 22', 3,4',6 - PeCB 98	2.2'.3.3'.5 - PeCB	83	83 + 99	СDВ	24200	169	1.52	0.886
12.2',3,4,4' - PeCB 85 85 + 116 + 117 12.2',3,4,5 - PeCB 86 86 + 87 + 97 + 108 + 119 + 125 C D B 18200 142 1.59 0.901 2.2',3,4,5 - PeCB 87 86 + 87 + 97 + 108 + 119 + 125 C B 18200 142 1.59 0.901 2.2',3,4,6 - PeCB 88 88 + 91 22',3,4',5 - PeCB 90 90 + 101 + 113 C D B 35000 144 1.61 0.869 2.2',3,4',6 - PeCB 91 88 + 91 22',3,4',6 - PeCB 91 88 + 91 22',3,5',6 - PeCB 92 1.59 1.121 2.2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C D B 24500 148 1.59 1.121 2.2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C 93 22',3,5,6 - PeCB 148 1.59 1.121 2.2',3,5,6 - PeCB 96 93 + 95 + 98 + 100 + 102 C 93 22',3,4,5 - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C 86 22',3,4,5 - PeCB 98 93 + 95 + 98 + 100 + 102 C 93 22',4,4,4,6 - PeCB 99 6 83 99 C 83 22',4,4,4,6 - PeCB 100 93 + 95								
2,2',3,4,5 - PeCB 86 86 + 87 + 97 + 108 + 119 + 125 C D B 18200 142 1.59 0.901 2,2',3,4,6 - PeCB 87 86 + 87 + 97 + 108 + 119 + 125 C B 18200 142 1.59 0.901 2,2',3,4,6 - PeCB 88 88 + 91 66 + 87 + 97 + 108 + 119 + 125 C B 35000 144 1.61 0.869 2,2',3,4',6 - PeCB 90 90 + 101 + 113 C D B 35000 144 1.61 0.869 2,2',3,5,5 - PeCB 90 90 + 101 + 113 C D B 24500 148 1.59 1.121 2,2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C D B 24500 148 1.59 1.121 2,2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C 93 24500 148 1.59 1.121 2,2',3,5,6 - PeCB 95 93 + 95 + 98 + 100 + 102 C 93 2.2',3,4,5 - PeCB 96 2.2',3,4,5 - PeCB 148 1.59 1.121 2,2',4,4',5 - PeCB 98 93 + 95 + 98 + 100 + 102 C 93 2.2',4,4',6 - PeCB 100 93 + 95 + 98 + 100 + 102 C 93 2.2',4,4',6 - P			85 + 116 + 117					
2.2',3,4,5' - PeCB 87 86 + 87 + 97 + 108 + 119 + 125 C86 2.2',3,4,6' - PeCB 88 88 + 91 2.2',3,4,6' - PeCB 89 2.2',3,4,5' - PeCB 90 90 + 101 + 113 C D B 35000 144 1.61 0.869 2.2',3,4',5 - PeCB 91 88 + 91 161 0.869 161 0.869 2.2',3,4',6 - PeCB 91 88 + 91 161 0.869 144 1.61 0.869 2.2',3,4',6 - PeCB 92 148 1.61 0.869 2.2',3,5.6 - PeCB 92 148 1.59 1.121 2.2',3,5.6 - PeCB 93 93 + 95 + 98 + 100 + 102 C93 1.121 2.2',3,4',4 - PeCB 95 93 + 95 + 98 + 100 + 102 C93 1.121 2.2',3,4',4 - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C86 1.22',3',4,6 - PeCB 1.99 1.121 2.2',4,4',6 - PeCB 98 93 + 95 + 98 + 100 + 102 C93 1.121 1.121 1.121 2.2',4,4',6 - PeCB 101 93 + 95 + 98 + 100 + 102 C93 1.121 1.121 1.121 1				СDВ	18200	142	1.59	0,901
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			86 + 87 + 97 + 108 + 119 + 125					
2,2',3,4',5 - PeCB 90 90 + 101 + 113 C D B 35000 144 1.61 0.869 2,2',3,4',6 - PeCB 91 88 + 91 1 1.61 0.869 2,2',3,5,5 - PeCB 92 1 1.59 1.121 2,2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C D B 24500 148 1.59 1.121 2,2',3,5,6 - PeCB 95 93 + 95 + 98 + 100 + 102 C 93 1.121 1.59 1.121 2,2',3,5,6 - PeCB 96 96 1.121 1.59 1.121 2,2',3,5,6 - PeCB 95 93 + 95 + 98 + 100 + 102 C 93 1.121 2,2',3,4,6 - PeCB 96 1.121 1.121 1.121 2,2',3,4,6 - PeCB 98 93 + 95 + 98 + 100 + 102 C 93 1.121 2,2',4,4',6 - PeCB 99 83 + 99 C 83 1.121 1.121 2,2',4,4',6 - PeCB 100 93 + 95 + 98 + 100 + 102 C 93 1.121 1.121 2,2',4,5,5' - PeCB 101 90 + 101 + 113 C 90 1.121 1.121 1.121 2,2',4,5,5' - PeCB	2,2',3.4,6 - PeCB	88	88 + 91					
2.2',3,4',6 - PeCB 91 88 + 91 2.2',3,5,5 - PeCB 92 2.2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C D B 24500 148 1.59 1.121 2.2',3,5,6 - PeCB 94 95 93 + 95 + 98 + 100 + 102 C93 148 1.59 1.121 2.2',3,5,6 - PeCB 95 93 + 95 + 98 + 100 + 102 C93 148 1.59 1.121 2.2',3,5,6 - PeCB 96 96 148 1.59 1.121 2.2',3,6,6 - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C86 148 1.59 1.121 2.2',3,4,6 - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C86 148 1.59 1.59 2.2',4,4',5 - PeCB 98 93 + 95 + 98 + 100 + 102 C93 148 1.59 1.59 2.2',4,4',6 - PeCB 100 93 + 95 + 98 + 100 + 102 C93 148 1.59 1.59 2.2',4,5,5' - PeCB 101 90 + 101 + 113 C90 122 148 1.59 1.59 2.2',4,5,5' - PeCB 102 93 + 95 + 98 + 100 + 102 C93 123 <	2,2',3,4,6' - PeCB	89						
2,2',3,5,5' - PeCB 92 2,2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C D B 24500 148 1.59 1.121 2,2',3,5,6 - PeCB 95 93 + 95 + 98 + 100 + 102 C 93 148 1.59 1.121 2,2',3,5,6 - PeCB 95 93 + 95 + 98 + 100 + 102 C 93 148 1.59 1.121 2,2',3,5,6 - PeCB 95 93 + 95 + 98 + 100 + 102 C 93 148 1.59 1.121 2,2',3,5,6 - PeCB 96 148 1.59 1.121 110 <td>2,2',3,4',5 - PeCB</td> <td>90</td> <td>90 + 101 + 113</td> <td>CDB</td> <td>35000</td> <td>144</td> <td>1.61</td> <td>0.869</td>	2,2',3,4',5 - PeCB	90	90 + 101 + 113	CDB	35000	144	1.61	0.869
2.2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C D B 24500 148 1.59 1.121 2.2',3,5',6 - PeCB 95 93 + 95 + 98 + 100 + 102 C93 C93 148 1.59 1.121 2.2',3,5',6 - PeCB 96 96 2.2',3,4,5 - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C86 148 1.59 1.21 2.2',3,4,5 - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C86 C93 148 1.59 148 1.59 112 2.2',3,4,6 - PeCB 98 93 + 95 + 98 + 100 + 102 C93 148 1.59 150 150 2.2',4,4',6 - PeCB 99 83 + 99 C83 150 148 150 150 2.2',4,4',6 - PeCB 100 93 + 95 + 98 + 100 + 102 C93 150 150 150 150 2.2',4,5,5' - PeCB 101 90 + 101 + 113 C90 122',4,5',6 - PeCB 103 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 <td< td=""><td>2,2',3,4',6 - PeCB</td><td>91</td><td>88 + 91</td><td></td><td></td><td></td><td></td><td></td></td<>	2,2',3,4',6 - PeCB	91	88 + 91					
2.2',3,5,6 - PeCB 93 93 + 95 + 98 + 100 + 102 C D B 24500 148 1.59 1.121 2.2',3,5,6 - PeCB 94 93 93 + 95 + 98 + 100 + 102 C93 148 1.59 1.121 2.2',3,5,6 - PeCB 95 93 + 95 + 98 + 100 + 102 C93 148 1.59 1.121 2.2',3,6,6 - PeCB 96 96 148 1.59 1.121 2.2',3,4,5 - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C86 148 159 148 2.2',3,4,6 - PeCB 98 93 + 95 + 98 + 100 + 102 C93 148 159 148 159 2.2',4,4',6 - PeCB 99 83 + 99 C83 159 159 159 159 148 159 159 2.2',4,4',6 - PeCB 100 93 + 95 + 98 + 100 + 102 C93 159	2,2',3.5,5' - PeCB	92						
2,2',3,5,6' $PeCB$ 042,2',3,5',6 - PeCB95 $93 + 95 + 98 + 100 + 102$ C932,2',3,6,6' - PeCB962,2',3',4,5 - PeCB97 $86 + 87 + 97 + 108 + 119 + 125$ C862,2',3',4,6 - PeCB98 $93 + 95 + 98 + 100 + 102$ C932,2',4,4',5 - PeCB99 $83 + 99$ C832,2',4,4',6 - PeCB100 $93 + 95 + 98 + 100 + 102$ C932,2',4,4',6 - PeCB101 $90 + 101 + 113$ C902,2',4,5,5' - PeCB101 $90 + 101 + 102$ C932,2',4,5',6 - PeCB102 $93 + 95 + 98 + 100 + 102$ C932,2',4,5',6 - PeCB103 $90 + 101 + 113$ C90		93	93 + 95 + 98 + 100 + 102	CDB	24500	148	1.59	1.121
2.2',3.6.6' - PeCB962,2',3',4,5 - PeCB97 $86 + 87 + 97 + 108 + 119 + 125$ C862,2',3',4,6 - PeCB98 $93 + 95 + 98 + 100 + 102$ C932.2',4.4',5 - PeCB99 $83 + 99$ C832.2',4.4',6 - PeCB100 $93 + 95 + 98 + 100 + 102$ C932,2',4.5,5' - PeCB101 $90 + 101 + 113$ C902,2',4,5,6' - PeCB102 $93 + 95 + 98 + 100 + 102$ C932,2',4,5,6' - PeCB102 $93 + 95 + 98 + 100 + 102$ C932,2',4,5,6' - PeCB103 $90 + 101 + 113$ C90								
2,2',3',4,5 - PeCB97 $86 + 87 + 97 + 108 + 119 + 125$ C862,2',3',4,6 - PeCB98 $93 + 95 + 98 + 100 + 102$ C932,2',4,4',5 - PeCB99 $83 + 99$ C832,2',4,4',6 - PeCB100 $93 + 95 + 98 + 100 + 102$ C932,2',4,4',6 - PeCB101 $90 + 101 + 113$ C902,2',4,5,5' - PeCB102 $93 + 95 + 98 + 100 + 102$ C932,2',4,5,6' - PeCB102 $93 + 95 + 98 + 100 + 102$ C932,2',4,5,6' - PeCB103 $93 + 95 + 98 + 100 + 102$ C93	2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
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',4,4',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 102 93 + 95 + 98 + 100 + 102 C93 2,2',4,5,6' - PeCB 103 90 101 + 113 C90	2,2',3,6,6' - PeCB	96						
2.2',4.4',5 - PeCB9983 + 99C832.2',4.4',6 - PeCB10093 + 95 + 98 + 100 + 102C932,2',4.5,5' - PeCB10190 + 101 + 113C902.2',4,5,6' - PeCB10293 + 95 + 98 + 100 + 102C932,2',4.5',6 - PeCB103103C93	2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2.2',4.4',6 - PeCB10093 + 95 + 98 + 100 + 102C932,2',4.5,5' - PeCB10190 + 101 + 113C902.2',4.5,6' - PeCB10293 + 95 + 98 + 100 + 102C932,2',4.5',6 - PeCB103103C93	2.2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2.2',4.4',6 - PeCB10093 + 95 + 98 + 100 + 102C932,2',4.5,5' - PeCB10190 + 101 + 113C902.2',4.5,6' - PeCB10293 + 95 + 98 + 100 + 102C932,2',4.5',6 - PeCB103103C93	2.2',4.4',5 - PeCB	99	83 + 99	C83				
2,2',4,5,5' - PeCB10190 + 101 + 113C902.2',4,5,6' - PeCB10293 + 95 + 98 + 100 + 102C932,2',4,5',6 - PeCB103			93 + 95 + 98 + 100 + 102					
2.2',4.5,6' - PeCB10293 + 95 + 98 + 100 + 102C932,2',4.5',6 - PeCB103			90 + 101 + 113					
2,2',4.5',6 - PeCB 103								
2.2',4.6,6' - PeCB 104								
	2.2',4,6,6' - PeCB	104						

14743AD6_1 kis_S5

2,3,3',4,4' PcCB

2.3,3'.4.5 - PeCB

Approved by _

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_QA/QC Chemist

01-03-2005 da-mm-yyyy

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CONTRACTOR SERVICES LTD PO BOY 2219 2045 MILLS RD WEST SIDNEY B.C. CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5801

 AXYS METHOD MLA-010 Rev 05
 CLIENT ID:
 LDW-B5a-T

 Form 1A
 Page 4 of 6
 Project Number
 04-08-06-21

 Lab Sample ID
 L7510-5 W
 Sample Data Filename:
 PB5C_085 S:9

CO-ELUTIONS

IUPAC

COMPOUND

FOUND LIMIT NO. FLAG¹ RATIO 107 107 + 124 2,3.3',4'.5 - PeCB 86 + 87 + 97 + 108 + 119 + 125 2,3,3',4,5' - PeCB 108 C86 109 2,3,3',4,6 - PeCB 2.3.3'.4'.6 - PeCB 110 110 + 115 CDB 31300 122 1.58 0.925 2.3.3',5.5' - PeCB 111 2.3,3',5,6 - PeCB 112 2.3.3'.5'.6 - PeCB 113 90 + 101 + 113 C90 2.3.4.4'.5 - PeCB 114 2.3.4.4',6 - PeCB 115 110 + 115 C110 2,3,4,5,6 - PeCB 116 85 + 116 + 117 2,3,4',5,6 - PeCB 117 85 + 116 + 117 DB 28000 268 1 56 1.000 2.3'.4.4',5 - PeCB 118 86 + 87 + 97 + 108 + 119 + 125 2,3',4,4',6 - PeCB 119 C86 2.3',4,5,5' - PeCB 120 2.3',4.5',6 - PeCB 121 2',3,3',4,5 PoCB 122 2',3,4,4',5 - PeCB 123 107 + 124 2',3,4,5,5' - PeCB 124 86 + 87 + 97 + 108 + 119 + 125 2',3,4,5.6' - PeCB 125 C86 3,3',4,4',5 - PeCB 126 3,3',4,5,5' - PeCB 127 2,2',3,3'.4.4' - HxCB 128 128 + 166 129 + 138 + 160 + 163 CDB 38700 256 0.929 2,2',3,3',4,5 - HxCB 129 1.26 2,2',3,3',4,5' - HxCB 130 131 2.2'.3.3'.4.6 - HxCB 132 2,2',3,3',4,6' - HxCB 2,2',3,3'.5,5' - HxCB 133 2,2',3,3',5,6 - HxCB 134 134 + 143 2,2',3,3',5,6' - HxCB 135 135 + 151 + 154 2,2',3,3',6,6' - HxCB 136 2,2',3,4,4',5 - HxCB 137 2,2',3,4,4',5' - HxCB 129 + 138 + 160 + 163 C129 138 2,2',3,4,4',6 - HxCB 139 139 + 140 2,2',3,4,4',6' - HxCB 140 139 + 140 2,2',3,4,5,5' - HxCB 141 2,2',3,4,5,6 - HxCB 142 134 + 143 2,2',3,4,5.6' - HxCB 143 2,2',3,4,5',6 H×CB 111 2.2',3,4,6.6' - HxCB 145 2,2'.3,4'.5,5' - HxCB 146 147 + 149 CDB 32600 255 1.133 2,2',3.4',5,6 - HxCB 1.17 1.26 2.2'.3.4'.5.6' - HxCB 148 2.2',3,4',5',6 - HxCB 149 147 + 149 C147

CONC.

LAB

DETECTION

ION ABUND.

RRT

14743AD6_1 xis, S5 Approved by _____QA/QC Chemist 01-03-2005 dd-min-yyyy

🕷 AXYS ANALYTICAL SERVICES LTD | PO | BOX 2219 | 2045 MILLS RD | WEST SIDNEY B.C. (ANADA V81 358 TEL (250) 655-5800 FAV (250) 655-5811

AXYS METHOD MLA-010 Form 1A Page 5 of 6	Rev 05				CLIENT ID: Project Number		LDW-B5a-T 04-08-06-21	
Lab Sample ID	L	7510-5 W			Sample Data Fi	lename:	PB5C_085 S:9	
CON	IPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',6,6	' - HxCB	150						
2,2',3,5.5'.6		151	135 + 151 + 154					
2,2',3,5,6,6		152						
2,2'.4,4',5,5		153	153 + 168	CDB	47000	235	1.27	0.899
2,2'.4,4'.5.6	' - HxCB	154	135 + 151 + 154					
2,2',4,4',6,6	' - HxCB	155						
2,3,3'.4,4',5	5 - HxCB	156	156 + 157					
2.3,3',4,4',5	' - HxCB	157	156 + 157					
2,3,3',4,4',6	- HxCB	158						
2,3,3',4,5,5	- HxCB	159						
2,3,3',4,5,6	- HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6	- HxCB	161						
2,3,3',4',5,5	' - HxCB	162						
2,3,3',4',5,6	- HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6	- HxCB	164						
2,3,3',5,5',6	i - HxCB	165						
2,3,4,4',5,6	- HxCB	166	128 + 166					
2,3',4,4',5,5	' - HxCB	167						
2,3',4,4',5',6	- HxCB	168	153 + 168	C153				
3,3',4,4',5,5	' - HxCB	169						
2,2',3,3',4,4',5	- HpCB	170						
2,2',3,3',4,4',6	- HpCB	171	171 + 173					
2,2',3,3',4,5,5'	- HpCB	172						
2,2',3,3',4,5,6	- HpCB	173	171 + 173					
2,2',3,3',4,5,6'	- HpCB	174						
2,2',3,3',4,5',6	- HpCB	175						
2,2',3,3',4,6,6'	- HpCB	176						
2,2',3,3',4',5,6	- HpCB	177						
2,2',3,3',5,5',6	- HpCB	178						
2,2',3,3',5,6,6'	- HpCB	179						
2,2',3,4,4'.5,5'	- HpCB	180	180 + 193	CDB	21700	4.82	1.05	0.910
2,2',3,4,4',5,0		181						
2,2',3,4,4',5,6'	•	182						
2,2',3,4,4',5',6		183	183 + 185					
2,2',3,4,4',6,6'		184						
2,2',3,4,5,5',6		185	183 + 185					
2,2',3,4,5,6,6'		186						
2,2',3,4',5,5',6		187						
2.2'.3.4'.5.6,6'		188						
2.3.3',4,4',5,5'		189						
2,3,3',4,4',5.6		190						
2,3,3',4,4',5',6		191 102						
2,3,3',4,5,5',6	мрсв	192						

11 01-03-2005 QA/QC Chemist dd-mm-yyyy 14743AD6_1 xis, S5 Approved by _ 0140

AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD WEST SIDNEY, B (. CANADA VBI 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Form 1A) Rev 05				CLIENT ID:		LDW-B5a-T	
Page 6 of 6					Project Numbe	Ŧ	04-08-06-21	
Lab Sample ID	L	7510-5 W			Sample Data F	ilename	PB5C_085 S:9	
					CONC.	DETECTION		
0	MPOUND	NO.	CO-ELUTIONS	LAB FLAG ¹	FOUND	DETECTION	ION ABUND. RATIO	RRT
2,3,3'.4',5,5'.	.6 - HpCB	193	180 + 193	C180				
2.2',3.3',4,4',5.	5' - OcCB	194						
2,2',3.3',4.4',5,	6 - OcCB	195						
2,2',3,3'.4,4'.5,6	6' - OcCB	196						
2,2',3,3',4,4',6,6	6' - OcCB	197	197 + 200					
2,2'.3,3'.4,5.5',	6 - OcCB	198	198 + 199					
2,2',3,3',4,5,5'.6	6' - OcCB	199	198 + 199					
2,2',3,3',4,5,6,6	6' - OcCB	200	197 + 200					
2,2',3.3',4,5',6,6	6' - OcCB	201						
2,2',3,3',5,5',6,6	6' - OcCB	202						
2,2',3,4,4'.5,5',	6 - OcCB	203						
2.2',3,4.4'.5,6,6	6' - OcCB	204						
2,3,3',4,4',5,5',	6 - OcCB	205						
2,2',3,3',4,4',5,5',	6 - NoCB	206						
2,2',3,3',4,4',5,6,6	6' - NoCB	207						
2,2',3,3',4.5.5',6,6	6' - NoCB	208						

(1) C = co-eluting congener; U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

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2,2',3,3',4,4',5,5',6,6' - DeCB

Approved by _____

QA/QC Chemist

01-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD PO BOY 2219 2045 MILLS RD WEST SIDNEY B.C. CANADA V8L 358 TEL (250) 655-5800 FAX (250) 655-581

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL_209 Page 1 of 1 CLIENT ID: LDW-B5a-T

Form 1A

HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

			Sample Collection:		22-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-5	
Matrix:	TISSUE		Sample Size:		2.25	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Da	ate:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 14:26:18	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filenam	e:	PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filena	ame:	PB5C_075 S:1	
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_075 S:7 PB5C_085 S:9	
Concentration Units :	ng/kg (wet weight ba	ເອຍອີ			FB3C_065 5.9	
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			62.6	0.290		
Total Monochloro Biphenyls Total Dichloro Biphenyls			62.6 2610	0.290 0.798		
Total Dichloro Biphenyls			2610	0.798		
Total Dichloro Biphenyls Total Trichloro Biphenyls			2610 50600	0.798 0.518		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls			2610 50600 195000	0.798 0.518 0.532		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls			2610 50600 195000 200000	0.798 0.518 0.532 0.431		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls			2610 50600 195000 200000 178000	0.798 0.518 0.532 0.431 56.9		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls			2610 50600 195000 200000 178000 89100	0.798 0.518 0.532 0.431 56.9 1.77		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls			2610 50600 195000 200000 178000 89100 15300	0.798 0.518 0.532 0.431 56.9 1.77 1.05		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls			2610 50600 195000 200000 178000 89100 15300 725	0.798 0.518 0.532 0.431 56.9 1.77 1.05 0.209		

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation

14743PCBTOTAL 1 xIs S10

MAMA havac chemist Approved by:

02-03-2005 dd-mm-yyyy

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2 AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219 2045 MILLS RD, WEST, SIDNEY B (. CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TEO-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-B5a-T

Sample Collection: Lab Name: AXYS ANALYTICAL SERVICES 22-Aug-2004 4033 Project Number: 04-08-06-21 Contract No.: Lab Sample ID: TISSUE L7510-5 Matrix: GC Column ID(s): SPB-OCTYL Sample Size: 2.25 g (wet) PB5C_075 S:7 Concentration Units : ng/kg (wet weight basis) Sample Datafile(s): PB5C_085 S:9

							TE	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			1440	0.499	0.0001	1.44E-01	1.44E-01
3,4,4',5-TetraCB	81			67.6	0.439	0.0001	6.76E-03	6.76E-03
2,3,3',4,4'-PentaCB	105			8210	0.331	0.0001	8.21E-01	8.21E-01
2,3,4,4',5-PentaCB	114			526	0.330	0.0005	2.63E-01	2.63E-01
2,3',4,4',5-PentaCB	118			28000	268	0.0001	2.80E+00	2.80E+00
2',3,4,4',5-PentaCB	123			433	0.342	0 0001	4.33E-02	4.33E-02
3,3',4,4',5-PentaCB	126			52.5	0.399	0.1	5.25E+00	5.25E+00
2,3,3',4,4',5 - HexaCB	156	156 + 157	С	2530	0 267	0.0005	1 26E+00	1.26E+00
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			1040	0.227	0.00001	1.04E-02	1.04E-02
3,3',4,4',5.5'-HexaCB	169		U		56.9	0.01	2.85E-01	0.00E+00
2,3,3',4,4',5,5'-l leptaCB	180			228	1.77	0.0001	2.28E-02	2.28E-02

TOTAL TEQ 10.9 10.6

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

These pages are part of a larger report that may contain information necessary for full data evaluation

14743PCBTEG_1 NS SUITEQ.

Approved by MUINSHAND QA/QC Chemist

02-03-2005 dd-mm-yyyy

AXYS ANALYTICAL SERVICES LTD = 0 80% 2219, 2045 MILLS RD. WEST SIDNEY, B (CANADA VOL 358 TEL (250) 655-5800 FA% (250) 655-5811

AXYS METHOD MLA-010 Rev 05 1668A-S1_209 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-B8a-T	
			Sample Collection:	27-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	04 08 06 21	
Contract No.:	4033		Lab Sample ID:	L7510-6	
Matrix:	TISSUE		Sample Size:	3.28	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 15:30:31	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_075 S:8	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_075 S:1	

Concentration Units :

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		JB	2.67	0.0736	2.83	1.001
3 - MoCB	2		JB	0.895	0.0975	2.67	0.988
4 - MoCB	3		JB	1.75	0.101	2.93	1.001
2,2' - DiCB	4		В	28.3	0.248	1.50	1.001
2,3 - DiCB	5		J	1.16	0.224	1.52	1 197
2,3' - DiCB	6		В	40 8	0.212	1.47	1 175
2,4 - DiCB	7		J	3 74	0.210	1.53	1 158
2,4' - DiCB	8		В	111	0.203	1.53	1 206
2,5 - DiCB	9		J	5.29	0.208	1.54	1.145
2,6 - DiCB	10		J	1.76	0.204	1.44	1.013
3,3' - DiCB	11		В	9.66	0.240	1.59	0 969
3,4 - DiCB	12	12 + 13	С	17.8	0.238	1.55	0.983
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		0.228		
4,4' - DiCB	15		В	114	0.290	1.50	1.001
2.2'.3 - TriCB	16		В	161	0.228	1.06	1.166
2.2'.4 - TriCB	17		В	289	0.200	1 05	1 140
2,2'.5 - TriCB	18	18 + 30	СВ	538	0 161	1.06	1 114
2.2',6 - TriCB	19		В	48.6	0 189	1.03	1 002
2.3.3' - TriCB	20	20 + 28	СВ	1690	0.390	0 99	0.848

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Approved by Mandal QA/QC Chemist

27-02-2005 dd-mm-vyyv

AXYS METHOD MLA-010 Rev 05

Form 1A

Page 2 of 6 Lap S

LDW-B8a-T

				Project Numbe	r	04-08-06-21	
L	.7510-6			Sample Data F	ilename:	PB5C_075 S:8	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3.4 - TriCB	21	21 + 33	СВ	412	0.399	0.99	0.857
			В	330	0.435	0.99	0.871
	23		J	0 621	0 401	0.99	1.283
	24		J	5.67	0.140	1.06	1.159
				525	0.365		0.825
2.3',5 - TriCB	26	26 + 29	СВ	1300	0 401	0 99	1 302
2,3',6 - TriCB	27		В	69 1	0 135	1.05	1 152
2.4.4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31		В	1300	0.389	0.99	0.836
2,4',6 - TriCB	32		В	272	0.371	0.98	1.198
2',3,4 - TriCB	33	21 + 33	C21				
2'.3,5 - TriCB	34			9.87	0.402	1.00	1.275
3,3',4 - TriCB	35			20.6	0.496	1.04	0.985
3,3',5 - TriCB	36		U		0.407		
3,4,4' - TriCB	37		В	366	0 472	1.00	1.001
3,4,5 - TriCB	38		KJ	5.30	0.436	1.57	0 969
3,4',5 - TriCB	39			14.8	0 426	1.07	0.947
2,2',3,3' - TeCB	40	40 + 41 + 71	СВ	1250	0.206	0 79	1 338
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		В	952	0.214	0.78	1 313
2.2',3,5 - TeCB	43		В	112	0.227	0.84	1.248
2,2',3,5' - TeCB	44	44 + 47 + 65	СВ	5590	0.184	0 79	1.287
2,2',3,6 - TeCB	45	45 + 51	СВ	359	0.192	0.79	1.148
2,2',3,6' - TeCB	46			88.3	0.231	0.77	1.162
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48		В	399	0.201	0.78	1.275
2,2',4,5' - TeCB	49	49 + 69	СB	6130	0.178	0.79	1.261
2,2',4,6 - TeCB	50	50 + 53		492	0.185	0.79	1.112
2,2'.4.6' - TeCB	51	45 + 51					
2,2',5,5' - TeCB	52						
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54			7.24	0.141	0.79	1.002
2,3.3',4 - TeCB	55			38.2	0.406	0.70	0.890
2,3,3',4' - TeCB	56		В	1280	0.424	0.74	0.904
2,3,3',5 - TeCB	57			135	0 430	0.72	0.844
2,3,3',5' - TeCB	58						0.851
2.3.3'.6 - TeCB	59	59 + 62 + 75					1.304
2,3,4,4' - TeCB							0.911
2,3,4,5 - TeCB	61			8570	0 387	0.74	0.875
2.3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3,4',5 ToCB	63			246	0.408	0 74	0 864
	2.3.4 - TriCB 2.3.4 - TriCB 2.3.5 - TriCB 2.3.5 - TriCB 2.3.5 - TriCB 2.3.5 - TriCB 2.3.5 - TriCB 2.4.4 - TriCB 2.4.5 - TriCB 2.4.5 - TriCB 2.4.6 - TriCB 2.4.6 - TriCB 2.4.6 - TriCB 2.4.6 - TriCB 3.3.5 - TriCB 3.4.4 - TriCB 3.4.5 - TriCB 3.4.5 - TriCB 3.4.5 - TriCB 2.2.3.3 - TeCB 2.2.3.4 - TeCB 2.2.3.5 - TeCB 2.2.3.6 - TeCB 2.2.3.3 - TeCB 2.2.3.5 - TeCB 2.2.4.6 - TeCB 2.2.4.6 - TeCB 2.2.5.5 - TeCB 2.2.5.5 - TeCB 2.2.5.6 - TeCB 2.3.3.4 - TeCB 2.3.3.5 - TeCB	2.3.4 - TriCB 21 2.3.4 - TriCB 22 2.3.5 - TriCB 23 2.3.6 - TriCB 24 2.3.7.5 - TriCB 26 2.3.7.5 - TriCB 26 2.3.7.6 - TriCB 27 2.4.4' - TriCB 28 2.4.4' - TriCB 29 2.4.6 - TriCB 30 2.4.7.5 - TriCB 31 2.4.6 - TriCB 32 2'.3.5 - TriCB 34 3.3',4 - TriCB 35 3.3',5 - TriCB 36 3.4',5 - TriCB 38 3.4',5 - TriCB 39 2.2'.3.3' - TeCB 40 2.2'.3.4 - TeCB 41 2.2'.3.5 - TeCB 43 3.4',5 - TriCB 38 3.4',5 - TeCB 41 2.2'.3.5 - TeCB 44 2.2'.3.6 - TeCB 44 2.2'.3.6 - TeCB 45 2.2'.4.5 - TeCB 46 2.2'.4.5 - TeCB 50 2.2'.4.6 - TeCB 51 2.2'.5.6' - TeCB 51 2.2'.5.6' - TeCB 51	COMPOUND IUPAC NO. CO-ELUTIONS 2.3,4 - TriCB 21 21 + 33 2.3,4 - TriCB 23 2.3,5 - TriCB 24 2.3,5 - TriCB 26 2.3,5 - TriCB 26 2.3,5 - TriCB 26 2.3,5 - TriCB 26 2.3,6 - TriCB 27 2.4,4 - TriCB 28 2.4,5 - TriCB 29 2.4,6 - TriCB 30 2.4,6 - TriCB 31 2.4,6 - TriCB 32 2.3,5 - TriCB 34 3.3,4 - TriCB 35 3.3,5 - TriCB 36 3.4,4 - TriCB 37 3.4,5 - TriCB 38 3.3,4 - TriCB 36 3.3,4 - TriCB 36 3.3,4 - TriCB 37 3.4,5 - TriCB 38 3.4,4 - TriCB 37 3.4,5 - TriCB 38 3.4,4 - TriCB 37 2.2',3,5 - TeCB 40 4.2,2',3,5 - TeCB 41 4.2,2',3,5 - TeCB 44 2.2',4,6 - TeCB 50	LT510-B COMPOUND IUPAC NO. CO-ELUTIONS LAB FLAG ¹ 2.3.4 - TriCB 21 21 33 CB 2.3.4 - TriCB 22 B 3 2.3.5 - TriCB 23 J J 2.3.6 - TriCB 24 J J 2.3.5 - TriCB 26 26 + 29 B 2.3.5 - TriCB 26 20 + 28 C20 2.4.4 - TriCB 28 20 + 28 C20 2.4.4 - TriCB 30 18 + 30 C18 2.4.4 - TriCB 31 B 24.5 - TriCB 31 2.4.5 - TriCB 30 18 + 30 C18 2.4.4 - TriCB 33 21 + 33 C21 2.3.5 - TriCB 36 U 3.3.5 - TriCB 36 2.3.4 - TriCB 37 B 3.3.5 - TriCB 36 U 3.4.5 - TriCB 37 B 3.4.5 - TriCB 37 B 2.2.3.4 - TriCB 37 A B 2.2.3.5 - TriCB <td< td=""><td>L751-6 Sample Data F COMPOUND IUPAC CO-ELUTIONS LAB F1 AG¹ CONC. 2.3.4 - TriCB 21 21 + 33 C B 412 2.3.4 - TriCB 22 B 330 2.3.5 - TriCB 23 J 0 621 2.3.4 - TriCB 23 J 0 621 3.567 330 2.3.5 - TriCB 26 26 + 29 C B 100 2.3.5 - TriCB 26 26 + 29 C B 100 2.3.5 - TriCB 26 20 + 28 C20 2.4.5 - TriCB 30 18 + 30 C18 2.2.4.5 - TriCB 30 18 + 30 C18 2.2.3.5 - TriCB 30 18 + 30 C18 2.2.3.5 - TriCB 33 2.1 + 33 C21 2.3.5 - TriCB 34 9.87 3.3.4 - TriCB 366 U 3.3.5 - TriCB 36 U 3.3.4 - TriCB 36 2.2.3.5 - TriCB 36 U 3.3.4 - TriCB 36 2.2.3.5 - TriCB 36 U 3.3.5 - TriCB 36 U 3.3.4 - TriCB 36 U</td><td>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</td><td>LTS10-4 Sample Date Filence: PBSC_075 8.3 COMPOUND IUPAC CO-ELUTIONS LAB CONC DETECTION NABUND. 2.3.4 - TrICB 21 21+33 C B 412 0.399 0.999 2.3.4 - TrICB 22 B 330 0.435 0.999 2.3.5 - TrICB 23 D 0.021 0.401 0.090 2.3.5 - TrICB 24 J 5.67 0.400 1.061 2.3.5 - TrICB 25 C B 1300 0.401 0.999 2.3.5 - TrICB 26 26 + 29 C B 1300 0.401 1.061 2.4.5 - TrICB 30 18 + 300 18 + 30 2.026 1.061 1.061 2.4.5 - TrICB 31 B 1300 0.339 0.991 1.061 2.4.5 - TrICB 32 21 + 33 E 2.026 1.071 1.081 2.4.5 - TrICB 32 2.1 + 33 E 1.020 1.041 1.041 1.041<</td></td<>	L751-6 Sample Data F COMPOUND IUPAC CO-ELUTIONS LAB F1 AG ¹ CONC. 2.3.4 - TriCB 21 21 + 33 C B 412 2.3.4 - TriCB 22 B 330 2.3.5 - TriCB 23 J 0 621 2.3.4 - TriCB 23 J 0 621 3.567 330 2.3.5 - TriCB 26 26 + 29 C B 100 2.3.5 - TriCB 26 26 + 29 C B 100 2.3.5 - TriCB 26 20 + 28 C20 2.4.5 - TriCB 30 18 + 30 C18 2.2.4.5 - TriCB 30 18 + 30 C18 2.2.3.5 - TriCB 30 18 + 30 C18 2.2.3.5 - TriCB 33 2.1 + 33 C21 2.3.5 - TriCB 34 9.87 3.3.4 - TriCB 366 U 3.3.5 - TriCB 36 U 3.3.4 - TriCB 36 2.2.3.5 - TriCB 36 U 3.3.4 - TriCB 36 2.2.3.5 - TriCB 36 U 3.3.5 - TriCB 36 U 3.3.4 - TriCB 36 U	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	LTS10-4 Sample Date Filence: PBSC_075 8.3 COMPOUND IUPAC CO-ELUTIONS LAB CONC DETECTION NABUND. 2.3.4 - TrICB 21 21+33 C B 412 0.399 0.999 2.3.4 - TrICB 22 B 330 0.435 0.999 2.3.5 - TrICB 23 D 0.021 0.401 0.090 2.3.5 - TrICB 24 J 5.67 0.400 1.061 2.3.5 - TrICB 25 C B 1300 0.401 0.999 2.3.5 - TrICB 26 26 + 29 C B 1300 0.401 1.061 2.4.5 - TrICB 30 18 + 300 18 + 30 2.026 1.061 1.061 2.4.5 - TrICB 31 B 1300 0.339 0.991 1.061 2.4.5 - TrICB 32 21 + 33 E 2.026 1.071 1.081 2.4.5 - TrICB 32 2.1 + 33 E 1.020 1.041 1.041 1.041<

27-02-2005 QA/QC Chemist Approved by dd-mm-yyyy

14743AD2_1.xis. S6

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD. WEST SIDNEY B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 Form 1A Page 3 of 6

L7510-6

Lab Sample ID

14743AD2_1 xis S6

LDW-B8a-T

Project Number Sample Data Filename[.] 04-08-06-21 PB5C_075 S:8

COMPOUND	IUPAC NO.	CO-FLUTIONS	I AR FLAG ¹	CONC FOUND	DETECTION	ION ARUND RATIO	RRT
2,3.4'.6 - TeCB	64		В	1340	0 149	0 79	1 350
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		В	5340	0.395	0.74	0.884
2,3',4,5 - TeCB	67			190	0.389	0.72	0.857
2,3',4,5' - TeCB	68			168	0.388	0.70	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			289	0.392	0.72	0.823
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		В	345	0.440	0.74	1.000
3,3',4,5 - TeCB	78		U		0 446		
3,3',4,5' - TeCB	79			202	0.360	0.69	0.970
3,3',5,5' - TeCB	80		U		0.388		
3,4,4',5 - TeCB	81		K	26.1	0.369	0.78	1 000
2,2',3,3',4 - PeCB	82			928	0.452	1.56	0 934
2,2',3.3'.5 - PeCB	83	83 + 99	CE				
2,2',3,3',6 - PeCB	84		В	3170	0.431	1.57	1.162
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СB	3140	0.347	1.58	0.920
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CE				
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	СВ	3070	0.372	1.57	1 154
2,2',3.4,6' - PeCB	89		U		0.398		
2,2'.3.4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',3.4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		В	8230	0.399	1.57	0.853
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CE				
2,2',3,5.6' PcCB	01			66.1	0.386	1.50	1.102
2.2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			54.4	0.212	1.61	1.015
2.2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2.2',4.4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2.2',4.5',6 - PeCB	103			464	0.337	1 58	1 093
2.2',4.6,6' - PeCB	104		J	4.31	0.211	1.72	1 001
2.3.3',4.4' PcCB	105		B	5060	0.305	1.51	1.001
2,3,3',4,5 - PeCB	106		U		0.397		

Approved by ______QA/QC Chemist dd-mm-yyyy

AXYS ANALYTICAL SERVICES LTD P.O BOX 2219, 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA V&L 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 Form 1A Page 4 of 6 Lab Sample ID

14743AD2_1 xis 56

L ~510-6

CLIENT ID:

Project Number Sample Data Filename 04-08-06-21 PB5C_075 S:8

LDW-B8a-T

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND. RATIO	881
2,3,3',4',5 - PeCB	107	107 + 124	С	664	0 415	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			1840	0.391	1 51	0.998
2,3,3',4',6 - PeCB	110	110 + 115	CE				
2,3,3',5,5' - PeCB	111			40 1	0.301	1 55	0 946
2.3.3'.5,6 - PeCB	112		U		0.298		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4.4',5 - PeCB	114			298	0 410	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			254	0.304	1.57	0,959
2.3',4.5',6 - PeCB	121			16.9	0.292	1.62	1.200
2'.3.3'.4.5 - PeCB	122			182	0.458	1.52	1.010
2',3,4,4',5 - PeCB	123			302	0.404	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			43.2	0.471	1.66	1.000
3,3',4,5,5' - PeCB	127			66.5	0.457	1.50	1 042
2,2',3,3',4,4' - HxCB	128	128 + 166	СВ	7120	0.429	1.25	0.958
2,2'.3,3'.4.5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',3,3',4,5' - HxCB	130			3980	0.522	1.25	0.913
2,2',3,3',4,6 - HxCB	131			434	0.436	1.27	1 159
2,2',3,3',4,6' - HxCB	132		E				
2,2',3,3'.5,5' - HxCB	133			1600	0.437	1.26	1 191
2,2'.3,3',5,6 - HxCB	134	134 + 143	С	3380	0.449	1.28	1 140
2,2',3.3',5,6' - HxCB	135	135 + 151 + 154	CE				
2,2',3,3',6,6' - HxCB	136		В	13300	0 231	1.28	1.024
2,2',3,4.4'.5 - HACB	137	100 + 100 + 100 + 100	C100	1430	0 487	1.25	0.018
2,2',3.4,4'.5' - HxCB	138	129 + 138 + 160 + 163	C129	753	0.444	4.00	4 4 5 9
2,2'.3.4,4',6 - HxCB	139	139 + 140	C	757	0 414	1.26	1.153
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141		E		0.400		
2,2',3,4,5,6 - HxCB	142		U		0 462		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134		2.040		4 4 9 4
2,2'.3,4.5'.6 - HxCB	144			6110	0.319	1.28	1.121
2,2',3.4.6.6' - HxCB	145		5	6.25	0.232	1.17	1.033
2.2',3.4',5,5' - HxCB	146	447 + 440	B	20600	0 402	1.25	0.884
2.2',3.4'.5.6 - HxCB	147	147 + 149	CE	170	0.315	1.00	1 084
2,2',3,4',5,0' - HxCB	140 149	147 + 149	C147	170	0.315	1.26	1 084
2.2'.3.4',5'.6 - HxCB	149	14/ 7 148	014/				

Approved by ______QA/QC Chemist 27-02-2005 dd-mm-yyyy

*** AXYS ANALYTICAL SERVICES LTD = 0 80% 2219 2045 MILLS RD WEST SIDNEY B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 1668A-S1 209 Page 1 of 6	PCE	Form 1A 3 CONGENER ANALYSIS RI	PORT			CLIENT ID: LDW-B8a-T	
				Sample Collect	ion:	27-Aug-2004	
Lab Name: AXYS ANALYTICAL S	SERVICES			Project Numbe	r*	04-08-06-21	
Contract No.:	4033			Lab Sample ID:		L7510-6 W	
Matrix:	TISSUE			Sample Size:		3.28	g (wet)
Sample Receipt Date:	16-Dec-2004			Initial Calibratio	on Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005			Instrument ID:		HR GC/MS	
Analysis Date:	17-Feb-2005	Time: 17:56:23		GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	500			Sample Data Fi	ename:	PB5C_085 S:10	
Injection Volume (µL):	1.0			Blank Data File	name:	PB5C_074 S:7	
Dilution Factor:	25			Cal. Ver. Data F	ilename:	PB5C_085 S:1	
Concentration Units :	ng/kg (wet weight basis)						
COMPOUND	NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1						
3 - MoCB	2						
4 - MoCB	3						
2,2' - DiCB	4						
2,3 - DiCB	5						
2,3' - DiCB	6						
2,4 - DiCB	7						
2,4' - DiCB	8						
2,5 - DiCB	9						
2,6 - DiCB	10						
3.3' - DiCB	11						
3.4 - DiCB	12	12 + 13					
3.4' - DiCB	13	12 + 13					
3,5 - DiCB	14						
4,4' - DiCB	15						
2,2',3 - TriCB	16						
2,2',4 - TriCB	17						
2,2',5 - TriCB	18	18 + 30					
2.2',6 - TriCB	19						

14743AD6_1 xis. S6

Approved by: MMMAMMA QA/QC Chemist

01-03-2005 dd-mm-yyyy

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MO AXYS ANALYTICAL SERVICES LTD PO, BOX 2219, 2045 MILLS RD WEST SIDNEY B.L. CANADA VOI: 358 FEL: 250: 655-5800 FAX: 1250: 655-5801

AXYS METHOD MLA-010 Rev 0	;	CLIENT ID:	LDW-B8a-T
Form 1A Page 4 of 6		Project Number.	04-08-06-21
Lab Sample ID	L7510-6 W	Sample Data Filename	PB5C_085 S 10

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC FOUND	DETECTION LIMIT	RATIO	RRT
2.3,3',4',5 - PeCB	107	107 + 124					
2.3.3'.4.5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2.3.3'.4,6 - PeCB	109						
2,3.3',4',6 - PeCB	110	110 + 115	CDB	29200	62.4	1.59	0.925
2,3,3',5,5' - PeCB	111						
2,3,3',5,6 - PeCB	112						
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4'.5 - PeCB	114						
2,3.4,4',6 - PeCB	115	110 + 115	C110				
2,3,4,5,6 - PeCB	116	85 + 116 + 117					
2,3,4',5,6 - PeCB	117	85 + 116 + 117					
2,3',4,4',5 - PeCB	118		DB	25400	202	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						
2,3',4.5',6 - PeCB	121 122						
2',3,3',4,5 - PeCB 2',3,4,4',5 - PeCB	122						
2',3,4,5,5' - PeCB	123	107 + 124					
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3,3',4,4',5 - PeCB	126	00 - 07 - 37 - 100 - 110 - 120	000				
3,3',4,5,5' - PeCB	120						
2,2',3,3',4,4' - HxCB	128	128 + 166					
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	CDB	120000	378	1 27	0 929
2,2',3,3',4,5' - HxCB	130				0,0	1 2.7	0.020
2,2',3,3',4,6 - HxCB	131						
2,2',3,3',4,6' - HxCB	132		DB	24300	443	1.26	1 174
2,2',3,3',5,5' - HxCB	133						
2,2',3,3',5,6 - HxCB	134	134 + 143					
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	CDB	51600	3.14	1.28	1.104
2,2'.3,3',6,6' - HxCB	136						
2,2',3,4,4',5 - HxCB	137						
2,2',3,4,4'.5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',3,4.4',6 - HxCB	139	139 + 140					
2,2',3,4,4',6' - HxCB	140	139 + 140					
2,2',3,4,5,5' - HxCB	141		DB	30500	418	1.26	0.903
2,2'.3,4,5,6 - HxCB	142						
2,2',3,4.5.6' - HxCB	143	134 + 143					
2,2',3,4.5',6 - HxCB	144						
2,2',3,4,6,6' - HxCB	145						
2.2',3,4',5.5' - HxCB 2.2',3.4',5,6 - HxCB	146 147	147 + 149	CDB	108000	277	4.07	4 400
2.2',3.4',5,6' HXCB 2.2',3,4',5,6' HXCB	147	147 + 149	CDB	106000	377	1.27	1.133
2.2',3.4',5',6 - HxCB	149	147 + 149	C147				

01-03-2005 Approved by _ QA/QC Chemist dd-mm-yyyy

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MI AXYS ANALYTICAL SERVICES LTD P.O BOX 2219 2045 MILLS RD WEST SIDNEY B (CANADA V81 358 TE. 250-555 5800 FA7 250-655-581

AXYS METHOD MLA-010 Rev 05				CLIENT ID:		∟DW-B8a-T	
Form 1A							
Page 5 of 6	7546.0.11			Project Numbe		04-08-06-21	
Lab Sample ID L	,7510-6 W			Sample Data F	liename	PB5C_085 S:10	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',6,6' - HxCB	150						
2.2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135				
2,2',3,5,6,6' - HxCB	152						
2,2',4.4',5,5' - HxCB	153	153 + 168	CDB	155000	348	1 26	0.899
2.2'.4.4',5,6' - HxCB	154	135 + 151 + 154	C135				
2.2'.4,4'.6.6' - HxCB	155						
2,3.3',4.4',5 - HxCB	156	156 + 157					
2,3.3',4,4',5' - HxCB	157	156 + 157					
2,3,3'.4,4',6 - HxCB	158						
2,3.3',4.5,5' - HxCB	159						
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5'.6 - HxCB	161						
2,3,3',4',5,5' - HxCB	162						
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB	164						
2,3,3',5.5',6 - HxCB	165						
2,3,4,4',5,6 - HxCB	166	128 + 166					
2,3',4,4',5,5' - HxCB	167						
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169						
2,2',3,3',4,4',5 - HpCB	170		DB	42700	5.25	1.06	0.936
2,2',3,3',4,4',6 - HpCB	171	171 + 173					
2,2',3,3',4,5,5' - HpCB	172						
2,2',3,3',4,5,6 - HpCB	173	171 + 173					
2,2',3,3',4,5,6' - HpCB	174		DВ	44500	4.47	1.06	1 133
2,2',3,3',4,5',6 - HpCB	175						
2,2',3,3',4,6,6' - HpCB	176						
2,2',3,3',4',5,6 - HpCB	177		DB	28900	4.76	1.07	1.145
2,2',3,3',5,5',6 - HpCB	178						
2,2',3,3',5,6.6' - HpCB	179		DВ	20600	3.13	1.06	1.010
2,2',3,4,4',5,5' - HpCB	180	180 + 193	CDB	118000	4.00	1.05	0.910
2,2',3,4,4',5,6 - HpCB	181						
2,2',3,4,4',5,6' - HpCB	182						
2,2',3,4,4',5',6 - HpCB	183	183 + 185	CDB	38400	4.43	1.06	1.127
2,2',3,4,4',6,6' - HpCB	184						
2,2',3,4,5,5'.6 - HpCB	185	183 + 185	C183				
2,2',3,4,5,6.6' - HpCB	186						
2,2',3,4',5,5',6 - HpCB	187		DB	69700	3.99	1.06	1.110
2,2',3,4',5.6,6' - HpCB	188						
2,3,3',4,4',5,5' - HpCB	189						
2,3,3',4,4',5,6 - HpCB	190						
2,3,3',4,4',5',6 - HpCB	191						
	100						

2,3,3'.4,4',5',6 - HpCB 2.3.3',4.5.5',6 - HpCB 102

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000 AXYS ANALYTICAL SERVICES LTD P6 807 2219 2045 MILLS RD, WEST SIDNEY 8 ... CANADA V81 358 TEL 2501 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID: LDW-B8a-T

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

			Sample Collection:		27-Aug-2004	
Lab Name: AXYS ANALYTICAL S	ERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-6	
Matrix:	TISSUE		Sample Size:		3.28	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Da	te:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 15:30:31	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename	:	PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filena	me:	PB5C_075 S:1	
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_075 S:8	
Concentration Units :	ng/kg (wet weight ba	sis)			PB5C_085 S:10	
PCB HOMOLOGUE GROUP		LAB	CONC.	DETECTION		
		FLAG ¹	FOUND	LIMIT		
Total Monochloro Biphenyls			5.32	0.101		
Total Dichloro Biphenyls			334	0.290		
Total Trichloro Biphenyls			7350	0.496		
Total Tetrachloro Biphenyls			47100	0.446		
Total Pentachloro Biphenyls			202000	0.471		
Total Hexachloro Biphenyls			574000	198		
Total Heptachloro Biphenyls			421000	4.72		
Total Octachloro Biphenyls			88900	2.63		
Total Nonachloro Biphenyls			4480	0.234		
Decachloro Biphenyl			75.0	0.0126		
TOTAL PCBs			1350000			

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743PCBTOTAL 1 XIS S11

MAIN MANDAVQC Chemist Approved by:

02-03-2005 da-mm-yyyy

CANADA VALINAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD. WEST, SIDNEY B (CANADA VALI3SA TEL (250) 655-5800 FAX (250) 655-581

AXYS METHOD MLA-010 Rev 05 PCB-TEG-DL 14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-B8a-T

Lab Name: AXYS ANALYTICAL SERVICES				Sample Collection:	27-Aug-2004	
Contract No.:	4033			Project Number:	04-08-06-21	
Matrix:	TISSUE			Lab Sample ID:	L7510-6	
Sample Size:	3 28	g (wet)		GC Column ID(s):	SPB-OCTYL	
Concentration Units :	ng/kg (wet v	veight basis)		Sample Datafile(s):	PB5C_075 S:8 PB5C_085 S:10	

						TEQ		EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			345	0.440	0.0001	3.45E-02	3.45E-02
3,4,4',5-TetraCB	81		U		0.369	0.0001	1.85E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			5960	0.395	0 0001	5.96E 01	5.96E 01
2,3,4,4',5-PentaCB	114			298	0.410	0.0005	1.49E-01	1.49E-01
2,3',4,4',5-PentaCB	118			25400	202	0.0001	2.54E+00	2.54E+00
2',3,4,4',5-PentaCB	123			302	0 404	0.0001	3.02E-02	3.02E-02
3,3',4,4',5-PentaCB	126			43.2	0.471	0.1	4.32E+00	4.32E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	С	6100	0.420	0.0005	3.05E+00	3.05E+00
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			2550	0,343	0.00001	2.55E-02	2.55E-02
3,3',4,4',5,5' - HexaCB	169		U		198	0.01	9 88E-01	0 00E+00
2,3,3',4,4',5,5'-HeptaCB	189			1170	4.72	0.0001	1 17E-01	1 17E-01

TOTAL TEQ 11.9 10.9

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

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743PQBTEQ_108_510(TFQ)

Approved by MANNA Circl QA/QC Chemist

02-03-2005 dd-mm-yyyy

10 AXYS ANALYTICAL SERVICES LTD RO BOX 2219, 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA VBI 358 TEL 2507 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 16688-S1 209 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-B9b-T	
			Sample Collection:	11-Aug-2004	
Lab Name: AXYS ANALYTICAL S	SERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7510-7 i	
Matrix:	TISSUE		Sample Size:	10.3	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	17-Feb-2005	Time: 2:52:32	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_084 S:7	
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_074 S:7	

Concentration Units :

Dilution Factor:

ng/kg (wet weight basis)

N/A

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		JB	1 30	0.0279	3.08	1.001
3 - MoCB	2		JB	0.259	0.0335	3.12	0.988
4 - MoCB	3		KJB	0.756	0.0409	3.71	1.001
2,2' - DiCB	4		в	9.71	0 146	1.54	1.001
2,3 - DiCB	5		J	0.301	0 129	1.59	1 197
2,3' - DiCB	6		В	13.2	0 119	1 52	1 175
2,4 - DiCB	7		J	1.36	0 115	1.71	1.158
2,4 ' - DiCB	8		В	29.2	0.110	1.52	1.206
2,5 - DiCB	9		j	1.55	0.118	1 47	1.145
2,6 - DiCB	10		J	0 778	0.117	1 60	1.013
3,3' - DICB	11		R	4 45	0 132	1 55	0.969
3,4 - DiCB	12	12 + 13	С	4 54	0 127	1 56	0.983
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		0.128		
4,4' - DiCB	15		В	26.5	0 169	1.49	1 001
2,2',3 - TriCB	16		В	36.0	0 0466	1.06	1.165
2.2'.4 - TriCB	17		В	91.5	0.0443	1.05	1,139
2.2',5 - TriCB	18	18 + 30	СВ	153	0 0367	1.05	1.113
2,2',6 - TriCB	19		В	15 4	0.0416	1.07	1 001
2.3.3' - TriCB	20	20 + 28	СВ	460	0.290	1.00	0.848

Cal. Ver. Data Filename:

PB5C_084 S:1

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AXYS ANALYTICAL SERVICES LTD RO 807 2719 2045 MILLS RD, WEST, SIDNEY, B.C., CANADA V81 358 TEL 2501 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05	
Form 1A	
Page 2 of 6	
Lab Sample ID	L7

LDW-B9b-T 04-08-06-21

Sample ID	€7510-7 ·			;	Sample Data F	ample Data Filename: PB5C_084 S 7		
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2,3.4 - TriCB	21	21 + 33	СВ	114	0.282	1 02	0.857
	2.3.4' - TriCB	22		В	92 1	0.325	1.02	0.872
	2.3,5 - TriCB	23		KJ	0.297	0.284	0.87	1.282
	2.3.6 - TriCB	24			2.26	0 0307	1.10	1,158
	2.3'.4 - TriCB	25		В	104	0.262	1.03	0.825
	2.3',5 - TriCB	26	26 + 29	СB	288	0.299	1.00	1 301
	2.3'.6 - TriCB	27		В	29 3	0 0309	1.03	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		В	345	0.298	1.01	0.837
	2,4',6 - TriCB	32		В	82.6	0.277	1.01	1.197
	2',3,4 - TriCB	33	21 + 33	C21				
	2',3,5 - TriCB	34			3.49	0.302	0.92	1.273
	3,3',4 - TriCB	35		J	1.95	0.338	0.99	0.985
	3,3',5 - TriCB	36		U		0.314		
	3,4,4' - TriCB	37		В	74.6	0.379	1.03	1.001
	3,4,5 - TriCB	38		KJ	0.816	0.301	1 25	0.968
	3.4',5 - TriCB	39			4.26	0.297	0.93	0.947
	2,2',3,3' - TeCB	40	40 + 41 + 71	СB	354	0.0310	0.79	1 337
	2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
	2,2'.3,4' - TeCB	42		В	207	0.0293	0.80	1 312
	2,2',3,5 - TeCB	43		В	53.8	0.0330	0.80	1 247
	2,2',3,5' - TeCB	44	44 + 47 + 65	СВ	1100	0.0283	0.79	1.287
	2,2',3,6 - TeCB	45	45 + 51	СВ	109	0.0301	0.79	1 147
	2.2',3,6' - TeCB	46			22.5	0.0350	0.80	1 161
	2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
	2,2',4,5 - TeCB	48		В	137	0.0299	0.79	1.274
	2,2',4,5' - TeCB	49	49 + 69	СВ	1180	0.0267	0,79	1.259
	2.2'.4.6 - TeCB	50	50 + 53	СВ	131	0.0294	0 78	1 1 1 1
	2,2'.4,6' - TeCB	51	45 + 51	C45				
	2,2',5,5' TeCB	52		в	2450	0.0298	0.79	1 235
	2,2',5,6' - TeCB	53	50 + 53	C50				
	2.2',6,6' - TeCB	54		J	1 47	0 0208	0.83	1 001
	2.3.3',4 - TeCB	55			30.9	0.401	0.74	0 890
	2,3,3',4' - TeCB	56		В	271	0.410	0.77	0.904
	2,3,3',5 - TeCB	57			23.4	0.393	0.77	0.843
	2,3,3',5' - TeCB	58			10 6	0.387	0.79	0.851
	2,3,3',6 - TeCB	59	59 + 62 + 75	СВ	139	0.0239	0.79	1.302
	2,3,4,4' - TeCB	60		В	131	0.393	0.78	0.911
	2.3.4,5 - TeCB	61	61 + 70 + 74 + 76	СВ	1480	0.362	0.76	0.875
	2.3.4.6 - TeCB	62	59 + 62 + 75	C59				
	22415 TACD	60			119	0.269	0.70	0.864

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2 3.4' 5 . TeCB

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Approved by

QA/QC Chemist

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AXYS METHOD MLA-010 Rev 05
Form 1A
Page 3 of 6

Lab Sample ID

Project Number.

Sample Data Filename:

04-08-06-21 PB5C_084 S:7

LDW-B9b-T

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAR FLAG ¹	CONC FOUND	DETECTION	ION ARUND. RATIO	RRT
2,3,4',6 - TeCB	64		в	325	0.0221	0 79	1 349
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4.4' - TeCB	66		В	934	0.381	0.77	0.884
2,3'.4,5 - TeCB	67			53 1	0.338	0.77	0.857
2,3',4,5' - TeCB	68			27 1	0.372	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			57.0	0 389	0.76	0.823
2,3',5',6 - TeCB	73		U		0.0237		
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		В	49.5	0.469	0,76	1.000
3,3',4,5 - TeCB	78		U		0.425		
3,3',4,5' - TeCB	79			38.3	0.338	0.70	0.970
3,3',5,5' - TeCB	80		U		0.385		
3,4,4',5 - TeCB	81		К	5 78	0.400	0.73	1.001
2,2',3,3',4 - PeCB	82			235	0.358	1.58	0.934
2,2',3,3',5 - PeCB	83	83 + 99	СВ	2730	0.335	1.58	0.886
2,2',3,3',6 - PeCB	84		В	625	0.359	1.59	1.163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СB	564	0.281	1.59	0.920
2.2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	СВ	1990	0.278	1.58	0.901
2,2',3,4.5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C8b				
2,2',3,4,6 - PeCB	88	88 + 91	СB	533	0.308	1.58	1 155
2,2',3,4,6' - PeCB	89			19.9	0.337	1.56	1 183
2.2',3,4'.5 - PeCB	90	90 + 101 + 113	СB	4190	0.281	1 59	0.869
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		В	969	0.329	1 58	0.853
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	СВ	3020	0.295	1 58	1.121
2,2',3,5,6' - PcCB	04			11.6	0.318	1.67	1.103
2,2'.3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			11 6	0.0261	1 60	1.015
2,2'.3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2'.4,5.5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2.2',4,5'.6 - PeCB	103			62.1	0.282	1 60	1 094
2.2',4,6.6' - PeCB	104		KJ	0.437	0 0244	1.86	1 001
2,3,3',4,4' - PeCB	105		B	853	0 451	1,53	1.001
2.3.3'.4.5 - PeCB	106		U		0.386		

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QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD P.0 BOX 2219 2045 MILLS RD. WEST, SIDNEY, B.L., CANADA V8L 358 FEI (250) 655-5800 FAX (250) 655-5801

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AXYS METHOD MLA-010 Rev 05 Form 1A Page 4 of 6 L7510-7 i

Lab Sample ID

CLIENT ID:

LDW-B9b-T

Project Number Sample Data Filename: 04-08-06-21 PB5C_084 S 7

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONG FOUND		ION ARUND RATIO	RRT
2,3.3',4',5 - PeCB	107	107 + 124	С	127	0 415	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			239	0.388	1.54	0.997
2,3,3',4',6 - PeCB	110	110 + 115	СB	3740	0.238	1.58	0.925
2,3,3',5,5' - PeCB	111		K	3.25	0.242	1 21	0 945
2.3,3',5,6 - PeCB	112		U		0.237		
2.3.3'.5',6 - PeCB	113	90 + 101 + 113	C90				
2.3,4,4',5 - PeCB	114			49.2	0.432	1.65	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		В	2920	0.379	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			20.3	0.245	1,44	0 959
2,3',4,5',6 - PeCB	121		U		0.241		
2',3,3',4,5 - PeCB	122			34.0	0.442	1.62	1.010
2',3,4,4',5 - PeCB	123			52.2	0.439	1.58	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			4 43	0.530	1.37	1 000
3,3',4,5,5' - PeCB	127			9.29	0.428	1 59	1.042
2,2',3,3',4,4' - HxCB	128	128 + 166	СВ	577	0.113	1.25	0.958
2.2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СB	5010	0,108	1 27	0.928
2,2',3,3',4,5' - HxCB	130			303	0 143	1.25	0.913
2,2',3,3'.4,6 - HxCB	131			41 4	0.122	1.29	1.159
2,2',3,3',4,6' - HxCB	132		В	1330	0.130	1.26	1.174
2,2',3,3',5,5' - HxCB	133		_	96.5	0.124	1.27	1.191
2,2',3,3',5,6 - HxCB	134	134 + 143	С	235	0 123	1.27	1.140
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	СВ	1640	0.0738	1.27	1.104
2,2',3,3',6.6' - HxCB	136		В	430	0 0563	1.27	1.024
2,2',3,4,4',5 HxCB	137		0.100	227	0.134	1.26	0.918
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129	100	<u></u>	4.07	4 450
2,2',3,4,4',6 - HxCB	139	139 + 140	C	103	0.114	1 27	1.153
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				0.000
2.2',3,4,5,5' - HxCB	141		В	778	0.131	1.26	0.903
2,2',3,4,5,6 - HxCB	142		U		0 130		
2,2',3.4,5,6' - HxCB	143	134 + 143	C134		0.0705	4.00	4 404
2.2',3,4,5',6 - HxCB	144			180	0.0765 0.0571	1.26 1.23	1 121 1.034
2.2'.3,4,6,6' - HxCB	145			2.42		1.23	0.884
2,2',3.4',5,5' - HxCB	146		B	818	0 115		0.004 1 133
2,2',3,4',5,6 - HxCB	147	147 + 149	СВ	3930 12.9	0.111 0.0783	1.27 1.22	1.084
2,2',3,4',5,6' H×CB	148	147 + 149	C147	1,∠.₩	0.0783	1	1.004
2,2'.3.4'.5'.6 - HxCB	149	14/ 7 140	0147				

01-03-2005 QA/QC Chemist 14743AD5_1 ×Is S3 Approved by dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD RO BOX 2219 2045 MILLS RD WEST, SIDNEY B U. (ANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05

Form 1A

Page 5 of 6 Lab Sample (D L7510-7) LDW-B96-T

Project Number Sample Data Filename

04-08-06-21 PB5C_084 S:7

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3,4',6,6' - HxCB	150			8.93	0 0535	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 55	0 0533	1 28	1 007
2.2',4,4',5,5' - HxCB	153	153 + 168	СВ	4910	0 0988	1.27	0.899
2,2'.4,4',5,6' - HxCB	154	135 + 151 + 154	C135				
2.2',4,4',6.6' - HxCB	155		J	0.413	0.0446	1 23	1 001
2,3,3',4,4',5 - HxCB	156	156 + 157	СВ	394	0.117	1 27	1 000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,4',6 - HxCB	158		В	440	0.0916	1.26	0.937
2,3,3',4,5,5' - HxCB	159		U		0.0984		
2,3,3'.4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB	161		U		0 0923		
2,3.3',4',5,5' - HxCB	162			10.5	0.0988	1.22	0.989
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB	164		В	267	0.0926	1.26	0.921
2,3,3',5,5',6 - HxCB	165			3.24	0 103	1.27	0 878
2,3,4.4',5,6 - HxCB	166	128 + 166	C128				
2,3 ' ,4,4',5,5 ' - HxCB	167		В	146	0.0886	1.26	1.000
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		5.32		
2,2',3,3',4,4',5 - HpCB	170		В	647	0 171	1.07	0.936
2,2',3,3'.4,4',6 - HpCB	171	171 + 173	С	223	0.162	1 03	1.163
2,2',3,3',4,5,5' - HpCB	172			123	0 168	1.02	0.897
2,2',3,3',4,5,6 - HpCB	173	171 + 173	C171				
2,2',3,3',4,5,6' - HpCB	174		ß	652	0.150	1.05	1 133
2,2',3,3',4,5',6 - HpCB	175			31.4	0 143	1.03	1 102
2,2',3.3',4,6.6' - HpCB	176			102	0 105	1 05	1 034
2,2',3,3',4',5,6 - HpCB	177		В	509	0 159	1.05	1.145
2,2',3,3',5,5',6 - HpCB	178			202	0.145	1.04	1.085
2,2',3,3',5,6,6' - HpCB	179		В	348	0.102	1.06	1 010
2,2',3,4,4',5,5' - HpCB	180	180 + 193	СВ	1600	0.129	1.05	0.910
2,2',3.4.4'.5,6 - HpCB	181			7 99	0 151	<u> 96</u> 0	1.156
2,2',3,4,4',5,6' - HpCB	182			11.6	0.144	0.94	1.115
2,2',3,4,4',5',6 - HpCB	183	183 + 185	СВ	570	0.141	1 06	1.127
2,2',3,4,4',6,6' - HpCB	184		J	0.755	0 0967	0.97	1 025
2,2'.3,4,5.5',6 - HpCB	185	183 + 185	C183				
2,2',3,4,5.6.6' - HpCB	186		U		0 106		
2,2',3,4',5,5'.6 - HpCB	187		В	1240	0.132	1.06	1.110
2,2',3,4',5,6,6' - HpCB	188		J	1.93	0.0878	1.08	1 001
2,3.3'.4.4',5,5' - HpCB	189			22.6	0 385	1.01	1 000
2,3,3'.4,4'.5.6 - HpCB	190		В	145	0.130	1 04	0.947
2.3,3',4,4',5',6 - HpCB	191			26 1	0.125	1.05	0.917
2,3,3',4,5,5',6 - HpCB	192		U		0 131		

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MO AXYS ANALYTICAL SERVICES LTD PO BOY 2219 2045 MILLS RD. WEST, SIDNEY & C. CANADA V&L 358 TEL 2501 655-5800 FAX (2501 655-581)

AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:			LDW-B9b-T		
Page 6 of 6 Lab Sample (D	L7510-7 I				Project Numbe Sample Data F		04-08-06-21 PB5C_084 S.7		
	COMPOLIND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT	
2,3,3',4',	5.5',6 - HpCB	193	180 + 193	C180					
2,2',3,3'.4,4	1',5,5' - OcCB	194		В	199	0.223	0.90	0 991	
2,2',3,3',4,	4',5,6 - OcCB	195		В	91 4	0.240	0.90	0.946	
2,2',3,3',4,4	1',5,6' - OcCB	196		В	115	0 0108	0 93	0 916	

С

СВ

C198

C197

В

В

В

KJB

в

В

В

В

40.9

276

42.3

80.9

168

0 1 2 2

11.0

50.2

7 95

16.4

9 08

0.0076

0.0107

0 0077

0.0081

0.0098

0.0079

0.201

0.0569

0.0440

0.0441

0.0100

0.90

0.90

0.91

0.91

0.90

1.04

0.94

0.78

0.83

0.76

0.68

197 + 200

198 + 199

198 + 199

197 + 200

(1) C = co-eluting congener, U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration, E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

197

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2,2',3,3',4,4',6,6' - OcCB

2,2',3,3',4,5,5',6 - OcCB

2,2',3,3',4,5,5'.6' - OcCB

2,2',3,3',4,5,6,6' - OcCB

2,2',3,3',4,5',6.6' - OcCB

2,2',3,3',5,5',6,6' - OcCB

2,2',3,4,4',5,5',6 - OcCB

2,2',3,4,4',5,6,6' - OcCB

2,3,3',4,4',5,5',6 - OCCB

2,2',3,3',4,4',5,5',6 - NoCB

2,2',3,3',4,4',5,6,6' - NoCB

2,2',3,3',4,5,5',6,6' - NoCB

2,2',3,3',4,4',5,5',6,6' - DeCB

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Approved by

QA/QC Chemist

01-03-2005 dd-mm-yyyy

1.046

1 1 1 5

1.023

1.000

0.920

1.039

1.001

1.000

1.020

1.001

1.000

0) AXYS ANALYTICAL SERVICES LTD PO 80X 2219, 2045 MILLS RD. WEST, SIDNEY B.C., CANADA V81 358 TEI (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID. LDW-B9b-T

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

			Sample Collection:		11-Aug-2004		
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:		04-08-06-21		
Contract No.:	4033		Lab Sample ID:		L7510-7 i		
Matrix:	TISSUE		Sample Size:		10.3	g (wet)	
Sample Receipt Date:	16-Dec-2004		Initial Calibration Da	ate:	04-Feb-2005		
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS		
Analysis Date:	17-Feb-2005	Time: 2:52:32	GC Column ID:		SPB-OCTYL		
Extract Volume (µL):	20		Blank Data Filenam	Blank Data Filename:			
Injection Volume (µL):	1.0		Cal. Ver. Data Filena	Cal. Ver. Data Filename:			
Dilution Factor:	N/A		Sample Datafile(s):	PB5C_084 S:7			
Concentration Units :	ng/kg (wet weight b	aoio)					
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT			
Total Monochloro Biphenyls			1.56	0.0409			
Total Dichloro Biphenyls			91.6	0.169			
Total Trichloro Biphenyls			1900	0.379			
Total Tetrachloro Biphenyls			9360	0.469			
Total Pentachloro Biphenyls			23000	0.530			
Total Hexachloro Biphenyls			21900	5.32			
Total Heptachloro Biphenyls			6460	0.385			
Total Octachloro Biphenyls			1020	0.240			
Total Nonachloro Biphenyls			74.6	0.0569			
Decachloro Biphenyl			9.08	0.0100			
TOTAL PCBs			63800				

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743PCBTOTAL 1 KIS S12

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02-03-2005 dd-mm-yyyy

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AXYS METHOD MLA-010 Rev 05 PCE-TEO-DL 4 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-B9b-T

Lab Name: AXYS ANALYTICAL SERVICES Sample Collection: 11-Aug-2004 4033 Project Number: 04-08-06-21 Contract No.: TISSUE Lab Sample ID: L7510-7 i Matrix: Sample Size: 10.3 g (wet) GC Column ID(s): SPB-OCTYL Concentration Units : ing kg (wet weight basis) Sample Datafile(s): PB5C_084 S:7

								EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4.4'-TetraCB	77			49.5	0 469	0 0001	4 95E-03	4.95E-03
3,4,4',5-TetraCB	81		U		0.400	0.0001	2.00E-05	0.00E+00
2,3,3`,4,4'-PentaCB	105			853	0 451	0.000 1	8.53E-02	8.53E-02
2,3,4,4',5-PentaCB	114			49.2	0.432	0.0005	2.46E-02	2.46E-02
2,3',4,4',5-PentaCB	118			2920	0.379	0.0001	2.92E-01	2.92E-01
2'.3,4,4',5-PentaCB	123			52.2	0.439	0.0001	5.22E-03	5.22E-03
3,3',4,4',5-PentaCB	126			4.43	0.530	0 1	4.43E-01	4.43E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	394	0.117	0.0005	1 97E-01	1.97E-01
2,3.3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			146	0.0886	0.00001	1.46E-03	1.46E-03
3,3',4,4',5,5'-HexaCB	169		U		5.32	0.01	2.66E-02	0.00E+00
2,3,3',4,4',5,5' HoptaCB	189			22.6	0.385	0.0001	2.26E 03	2.26E-03

TOTAL TEQ 1.08 1.06

(1) C = co-eluting congener U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743PCBTEQ_1000 - 11 TEQ

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MAXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD. WEST, SIDNEY B.L. (AMADA V81, 358 TEL (250) 655-5800 FA7 (250), 655-581

AXYS METHOD MLA-010 Rev 05 1668A-S1 2017 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-B10a-T	
			Sample Collection:	25-Aug-2004	
Lab Namo: AXYS ANALYTICAL	SERVICES	Project Number:		04 08 06 21	
Contract No.:	4033		Lab Sample ID:	L7510-8	
Matrix:	TISSUE		Sample Size:	7 92	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 17:38:58	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_075 S:10	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_075 S.1	

Concentration Units :

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		JB	0.382	0 0435	2.83	1.000
3 - MoCB	2		JB	0.526	0.0610	2.89	0.988
4 - MoCB	3		JB	0.442	0 0674	3.25	1.000
2,2' - DiCB	4		В	8.72	0.192	1 55	1 001
2,3 - DiCB	5		ſ	0.201	0 169	1.53	1.196
2,3' - DiCB	6		В	7.28	0.160	1.56	1 175
2,4 - DiCB	7		J	0 753	0.158	1.65	1.158
2,4' - DiCB	8		В	16.5	0.153	1.56	1.206
2,5 - DiCB	9		J	1 09	0.157	1.54	1.145
2,6 - DICB	10		J	0.632	0.154	1.51	1.013
3,3' - DICB	11		B	13.1	0 181	1.49	0.969
3,4 - DiCB	12	12 + 13	СJ	4.05	0.180	1.53	0.983
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		0 172		
4,4' - DiCB	15		В	22.7	0.214	1.55	1 001
2,2',3 - TriCB	16		В	28.8	0.0806	1 08	1 166
2,2',4 - TriCB	17		В	71.0	0 0708	1.04	1 139
2,2',5 - TriCB	18	18 + 30	СВ	130	0.0569	1.05	1 113
2,2',6 - TriCB	19		В	16 7	0 0672	1.04	1 001
2.3.3' - TriCB	20	20 + 28	СВ	358	0 150	0.99	0.849

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Approved by. Kill All All OA/QC Chemist

27-02-2005 dd-mm-yyyy

MAXYS ANALYTICAL SERVICES LTD 4.0 BOX 2219, 2045 MILLS RD WEST SIDNEY B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250- 655-5811

AXYS METHOD MLA-010 Rev 05

U7510-8

Form 1A

Page 2 of 6 Lab Sample ID

LDW-B10a-T

Project Number Sample Data Filename 04-08-06-21 PB5C_075 S:10

COMPOUN	ID IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3,4 - TriC	B 21	21 + 33	СВ	58.9	0 154	0.98	0 857
2,3,4' - TriC	B 22		В	71 5	0 168	0.99	0 872
2.3.5 - TriC	B 23		J	0.243	0 155	0.98	1 284
2.3.6 - TriC	B 24		J	1.73	0 0495	1 04	1 159
2.3'.4 - TriC	B 25		В	65.8	0 141	0.98	0.825
2,3',5 - TriC		26 + 29	СВ	172	0 155	0.99	1.302
2.3',6 - TriC	B 27		В	30.1	0 0478	1 05	1.151
2.4,4' - TriC	B 28	20 + 28	C20				
2,4,5 - TriC	B 29	26 + 29	C26				
2,4,6 - TriC	B 30	18 + 30	C18				
2,4',5 - TriC	B 31		В	261	0.150	0 98	0.837
2,4',6 - TriC	B 32		B	58.6	0.143	0.98	1,198
2',3,4 - TriC		21 + 33	C21				
2',3,5 - TriC	B 34		J	2.30	0.155	1.03	1.274
3,3',4 - TriC	B 35		KJ	2.42	0.192	1.21	0.985
3,3',5 - TriC	B 36		KJ	0.320	0.157	0.55	0.932
3,4,4' - TriC			В	58.2	0 181	0.97	1.001
3,4,5 - TriC	B 38		KJ	0.775	0.168	1.20	0.969
3,4',5 - TriC	B 39		J	2.50	0.165	1.00	0.947
2,2'.3,3' - TeC	B 40	40 + 41 + 71	СВ	174	0.0971	0.78	1 338
2,2',3,4 - TeC	B 41	40 + 41 + 71	C40				
2,2',3,4' - TeC	B 42		В	98.0	0.101	0.78	1 313
2,2',3,5 - TeC	B 43		В	19.0	0.107	0.77	1 247
2,2',3,5' - TeC	B 44	44 + 47 + 65	СВ	634	0.0865	0.79	1.287
2,2',3,6 - TeC	B 45	45 + 51	СB	74.7	0.0906	0.79	1 147
2,2',3,6' - TeC	B 46			13.2	0 109	0.77	1 161
2,2',4,4' - TeC	B 47	44 + 47 + 65	C44				
2.2',4,5 - TeC	B 48		в	70.2	0.0946	0 78	1 274
2,2',4,5' - TeC	B 49	49 + 69	СВ	556	0 0841	0 79	1 260
2,2′,4,6 - TeC	B 50	50 + 53	CB	111	0 0874	0 78	1 112
2,2',4,6' - TeC	B 51	45 + 51	C45				
2,2',5,5' - TeC	D 52		в	1350	0.0004	0 70	1.235
2,2',5,6' - TeC	B 53	50 + 53	C50				
2,2',6,6' - TeC	B 54		J	1.75	0.0656	0.82	1.002
2,3,3',4 - TeC	B 55			4.30	0.437	0.74	0.889
2,3.3'.4' - TeC	B 56		В	178	0.456	0.72	0.904
2,3,3',5 - TeC	B 57			9.96	0.462	0.72	0.843
2,3,3',5' - TeC	B 58			4.80	0.454	0.78	0.851
2,3,3'.6 - TeC	B 59	59 + 62 ÷ 75	СВ	60.3	0.0737	0.78	1.303
2.3,4,4' - TeC	B 60		В	95 4	0.446	0.73	0.911
2,3,4,5 - TeC	B 61	61 + 70 + 74 + 76	СВ	938	0.417	0.75	0.875
2.3.4,6 - TeC	B 62	59 + 62 + 75	C59				
2,3.4',5 TeC	B 63			30.4	0 110	0.75	0.864

Thi 27-02-2005 QA/QC Chemist dd-mm-yyyy Approved by

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01/ AXYS ANALYTICAL SERVICES LTD PO BOY 2219 2045 MILLS RD WEST SIDNEY B.L. GANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 Form 1A

Page 3 of 6

Lab Sample ID

∟7510-8

CLIENT ID:

LDW-B10a-T

Project Number. Sample Data Filename 04-08-06-21 PB5C_075 S 10

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABLIND RATIO	RRT
2,3,4',6 - TeCB	64		В	217	0.0703	0 78	1 350
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		В	585	0.425	0.74	0 884
2,3',4,5 - TeCB	67			16.8	0.419	0 71	0.856
2,3',4,5' - TeCB	68			13.2	0.417	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			23.9	0.422	0.69	0.823
2,3',5',6 - TeCB	73		U		0.0731		
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 - TeUB	/b	61 + 70 + 74 + 76	C61				
3,3 ' ,4,4 ' - TeCB	77		В	33.3	0.470	0.71	1.000
3,3 ' ,4,5 - TeCB	78		U		0.480		
3,3',4,5' - TeCB	79			13 4	0.387	0.70	0.970
3,3',5,5' - TeCB	80		U		0 418		
3.4.4 ' ,5 - TeCB	81		KJ	2.24	0 406	0.73	1.000
2,2',3,3',4 - PeCB	82			55 1	0.501	1.58	0.933
2,2'.3,3'.5 - PeCB	83	83 + 99	СВ	1220	0.448	1.58	0.885
2,2',3,3',6 - PeCB	84		В	221	0.477	1 59	1 163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СB	290	0.385	1.58	0 920
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	СВ	659	0.377	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	СB	216	0.413	1.58	1.155
2,2',3,4,6' - PeCB	89			5.53	0.442	1.62	1.182
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CB	1380	0.380	1.57	0.869
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2'.3,5,5' - PeCB	92		В	425	0.443	1.59	0.853
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	СB	1420	0.401	1.58	1.121
2,2',3,5.6' - PeCB	94			6 38	0.428	1.57	1 103
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			6.18	0.0864	1.58	1 015
2.2',3'.4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2.2'.3'.4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2.2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2.2',4.5.6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103			20 1	0.374	1 56	1.094
2.2'.4.6.6' - PeCB	104		KJ	0.267	0 0860	2.70	1.001
2 3 3'.4.4' - PeCR	105		R	434	0 432	1 51	1 000
2.3.3',4.5 - PeCB	106		U		0.427		

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AXYS ANALYTICAL SERVICES LTD PO 802 2219, 2045 MILLS RD, WEST, SIDNEY, B.C., CANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010	Rev 05	
Form 1A		
Page 4 of 6		
Lab Sample ID	+ 751(1-8	

CLIENT ID:

LDW-B10a-T

Project Number Sample Data Filename: 04-08-06-21 PB5C_075 S 10

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC FOUND		ION ARUND RATIO	RRT
2.3.3'.4',5 - PeCB	107	107 + 124	С	50.2	0 447	1 52	G 991
2,3,3',4,5' - PeCB	108	86 + 37 + 97 + 108 + 119 + 125	C86				
2,3.3'.4,6 - PeCB	109			131	0 422	1.52	0.997
2,3.3'.4',6 - PeCB	110	110 + 115	СВ	1620	0.334	1.57	0.925
2.3,3',5,5' - PeCB	111		J	1.92	0.334	1.74	0.945
2,3,3',5,6 - PeCB	112		U		0.331		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114			25.5	0.413	1.54	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		В	1340	0.379	1.51	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120			10.4	0.337	1.70	0 959
2,3',4,5',6 - PeCB	121		J	0.699	0.323	1.35	1,201
2',3,3',4,5 - PeCB	122			14.5	0.493	1.58	1 010
2',3,4,4',5 - PeCB	123			24.5	0.417	1.53	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			2.60	0 510	1.58	1.000
3,3',4,5,5' - PeCB	127			4.96	0 492	1.49	1 042
2,2',3,3',4,4' - HxCB	128	128 + 166	CB	294	0 410	1.29	0.958
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СB	2610	0.388	1.25	0.928
2,2',3,3',4,5' - HxCB	130			141	0 498	1.27	0.913
2,2',3,3',4,6 - HxCB	131			9.33	0.416	1.23	1.159
2,2',3,3',4,6' - HxCB	132		В	449	0 435	1.25	1.174
2,2',3,3',5,5' - HxCB	133			48 6	0.417	1.24	1 191
2,2',3,3',5,6 - HxCB	134	134 + 143	С	92.4	0.428	1.25	1 140
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	СB	847	0.186	1 27	1 104
2,2',3,3',6,6' - HxCB	136		В	207	0.140	1 28	1.024
2,2'.3.4,4',5 H×CB	137	400 + 400 + 400 + 400	0400	107	0.464	1.24	0.918
2,2',3,4.4',5' - HxCB	138	129 + 138 + 160 + 163	C129	10.4	0.005	4.00	4.450
2,2',3,4,4',6 - HxCB	139	139 + 140	C	42.4	0.395	1.23	1.153
2,2'.3,4,4',6' - HxCB	140	139 + 140	C139	000	0.400	4.00	0.000
2,2',3,4.5,5' - HxCB	141		В	288	0.432	1.26	0.903
2,2'.3.4.5.6 - HxCB	142		U		0.440		
2.2'.3.4.5,6' - HxCB	143	134 + 143	C134	70.0	0.400	4.00	4 4 0 4
2.2',3,4.5'.6 - HxCB	144		J	73.9 0 620	0.193	1.28	1.121 1.033
2.2'.3.4,6,6' - HxCB	145		J B		0 141	1 36	0 884
2.2',3.4'.5,5' - HxCB	146	147 + 140	СВ	427 1680	0 384 0.374	1 26	1 133
2.2',3.4',5.6 - HxCB	147 118	147 + 149	U D	5.69	0.374	1.26 1.33	1 084
2.2'.3.4'.5,6' H×CB 2,2'.3.4',5',6 - H×CB	149	147 + 149	C147	0.09	0 (9)	1 3 3	1 064
L,L,J,+,J,U-11XUD	140	111 . 110	0				

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QA/QC Chemist

27-02-2005 dd-mm-vyys

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AXYS ANALYTICAL SERVICES LTD PO 803 2219 2045 MILLS RD WEST SIDNEY B (CANADA V8L 358 TEL 2501 655-5800 FAX (2501 655-5801

AXYS METHOD MLA-010 Rev 05	
Form 1A	
Page 5 of 6	
Lab Sample ID	L75

LDW-B10a-T

n 1A								
5 of 6 Sample ID	1	7510-8			Project Numbe Sample Data F		04-08-06-21 PB5C_075 S:10	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2	',3,4',6.6' - HxCB	150			3.48	0 138	1 25	1.013
2,2	2',3,5.5'.6 - HxCB	151	135 + 151 + 154	C135				
2,2	'.3.5.6.6' - HxCB	152		J	1.59	0.135	1.43	1.006
2,2	',4,4',5,5' - HxCB	153	153 + 168	СВ	2470	0.332	1.25	0.899
2,2	',4.4'.5.6' - HxCB	154	135 + 151 + 154	C135				
2.2	',4,4',6,6' - HxCB	155		KJ	0 219	0 120	2.22	1.001
2,3	3,3',4,4',5 - HxCB	156	156 + 157	СВ	195	0.410	1.24	1.000
2,3	,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3	3,3',4.4',6 - HxCB	158		В	225	0 328	1 24	0.938
2,3	3,3',4,5,5' - HxCB	159		U		0.358		
2,3	3,3'.4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3	3,3',4,5',6 - HxCB	161		U		0.319		
2,3	,3',4',5,5' - HxCB	162			6.03	0.356	1.17	0.989
2,3	3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3	,3',4'.5',6 - HxCB	164		В	129	0.331	1.26	0.921
2,3	3,3',5,5',6 - HxCB	165		J	1.59	0.350	1.11	0.878
2,3	3,4,4',5,6 - HxCB	166	128 + 166	C128				
2,3	',4,4'.5,5' - HxCB	167		В	79.0	0.311	1.25	1.000
2,3	',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3	',4,4',5,5' - HxCB	169		U		3.22		
2,2',3	,3',4,4',5 - HpCB	170		В	481	0.216	1 05	0 936
2,2',3	,3',4,4',6 - HpCB	171	171 + 173	С	153	0.199	1.05	1 162
2,2',3	,3',4,5,5' - HpCB	172			82.6	0.205	1.07	0.897
2,2',3	3,3',4,5,6 - HpCB	173	171 + 173	C171				
2,2',3	,3',4,5,6' - HpCB	174		в	393	0.184	1 05	1.133
2,2',3	,3',4,5',6 - HpCB	175			22.0	0.172	1.10	1.102
2,2',3	,3',4,6,6' - HpCB	176			53.7	0.125	1.04	1.034
2,2',3	,3',4',5,6 - HpCB	177		В	359	0.191	1.04	1.145
2,2',3	,3'.5,5',6 - HpCB	178			141	0.175	1.06	1.085
2,2',3	,3',5,6,6' - HpCB	179		В	238	0.121	1.06	1.009
2,2',3	.4,4',5,5' - HpCB	180	180 + 193	СВ	1200	0 166	1.05	0.910
2,2',3	3,4,4',5,6 HpCB	181			4.26	0.181	1.11	1.156
2,2',3	,4,4',5,6' - HpCB	182			4.73	0.177	1.19	1.115
2,2',3	,4,4',5',6 - HpCB	183	183 + 185	СВ	401	0 173	1.05	1 127
2,2',3	,4,4',6,6' - HpCB	184		KJ	0 375	0 114	1.36	1 024
2,2',3	3,4,5,5',6 - HpCB	185	183 + 185	C183				
2,2',3	3,4,5,6,6' - HpCB	186		U		0 127		
2,2',3	,4',5,5',6 - HpCB	187		В	836	0.161	1.05	1.110
2,2',3	,4',5,6,6' - HpCB	188		J	1.23	0.0973	1.07	1.000
2,3,3'	,4,4',5,5' - HpCB	189			14.7	0.229	0.96	1.000
2,3,3	',4,4',5,6 - HpCB	190		В	117	0 172	1 05	0.947
	,4,4',5',6 - HpCB	191			20.7	0.162	1.07	0.917
233	' 4 5 5' 6 - HpCB	192		U		0 171		

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(250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		LDW-B10a-T	
Page 6 of 6				Project Numbe	r	04-08-06-21	
Lap Sample ID	∟7510-9			Sample Data F		PB5C 075 S 10	
				e en rijer e e ere r			
COMPOUND	ιυράς ΝΟ.	CO-FUITIONS	I AR FLAG ¹	CONC FOUND		ION ARLIND RATIO	RRT
2.3.3'.4',5,5',6 - HpCE	193	180 + 193	C180				
2.2',3,3',4,4',5.5' - OcCE	194		В	137	0 101	0.89	0 991
2.2',3,3',4,4',5,6 - OcCE	195		В	73.9	0 117	0.88	0.945
2.2',3,3',4,4',5,6' - OcCB	196		В	91 2	0 0078	0.91	0.916
2,2',3,3',4,4',6,6' - OcCE	197	197 + 200	С	24.4	0 0053	0.89	1.046
2,2',3,3',4,5,5',6 - OcCE	198	198 + 199	СВ	177	0 0080	0.91	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		В	27.8	0.0053	0.89	1.023
2,2',3,3',5,5'.6,6' - OcCB	202		В	49.2	0.0052	0.92	1 000
2,2',3,4,4',5,5',6 - OcCB	203		В	134	0.0075	0.90	0.919
2,2',3,4,4',5,6,6' - OcCB	204		KJB	0.112	0.0054	1 16	1.039
2,3,3',4,4',5.5',6 - OcCB	205		В	7.46	0.0891	0.91	1.000
2,2',3,3',4,4'.5,5',6 - NoCB	206		В	41.7	0.0541	0 76	1.000
2,2',3,3',4,4',5,6,6' - NoCB	207			6.69	0.0440	0.74	1 020
2,2',3,3',4,5,5',6,6' - NoCB	208		В	12.2	0.0433	0.83	1.000
2,2',3,3',4,4',5,5',6,6' - DeCB	209		В	13 3	0.0044	0.68	1.000

(1) C = co-eluting congener, U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL. B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

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QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD = 0 80% 2219 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA V8L 358 TEL (250- 655-5800 FAX - 250+ 655-581)

AXY3 METHOD MLA-010 Rev 05 PCB-TOTAL_209 Page 1 of 1

CLIENT ID: LDW-B10a-T

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

			Sample Collection:		25-Aug-2004	
Lab Name: AXYS ANALYTICAL S	ERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-8	
Matrix:	TISSUE		Sample Size:		7 92	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Dat	e:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 17:38:58	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename	:	PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filenar	ne:	PB5C_075 S:1	
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_075 S:10	
Concentration Units :	ng/kg (wet weight ba	sic)				
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls		r LAG	1.35	0.0674		
			75.0	0.214		
Total Dichloro Biphenyls						
Total Trichloro Biphenyls			1390	0.192		
Total Tetrachloro Biphenyls			5330	0.480		
Total Pentachloro Biphenyls			9590	0.510		
Total Hexachloro Biphenyls			10400	3.22		
Total Heptachloro Biphenyls			4520	0.229		
Total Octachloro Biphenyls			722	0.117		
Total Nonachloro Biphenyls			60.6	0.0541		
Decachloro Biphenyl			13.3	0.0044		
TOTAL PCBs			32100			

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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💥 AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RO WEST SIDNEY B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-581

AXYS METHOD MLA-010 Rev 05 PCB-TEG-Du_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-B10a-T

Lab Name: AXYS ANALYTICAL S	Sample Collection:	25-Aug-2004	
Contract No.:	4033	Project Number:	04-08-06-21
Matrix:	TISSUE	Lab Sample ID:	L7510-8
Sample Size:	7 92 g (wet)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (wet weight basis)	Sample Datafile(s):	PB5C_075 S:10

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			33.3	0.470	0.0001	3.33E-03	3.33E-03
3,4,4',5-TetraCB	81		U		0.406	0 0001	2.03E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			434	0 432	0 0001	4 34E-02	4.34E-02
2,3,4,4',5-PentaCB	114			25.5	0.413	0 0005	1 27E-02	1.27E-02
2,3',4,4',5-PentaCB	118			1340	0.379	0.0001	1 34E-01	1.34E-01
2',3,4,4',5-PentaCB	123			24.5	0 417	0.0001	2 45E-03	2.45E-03
3,3',4,4',5-PentaCB	126			2.60	0 510	0 1	2.60E-01	2.60E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	195	0.410	0 0005	9 76E-02	9.76E-02
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4.4',5,5'-HexaCB	167			79.0	0.311	0.00001	7.90E-04	7 90E-04
3,3',4,4',5,5' - HexaCB	169		U		3.22	0.01	1 61E-02	0.00E+00
2,3,3'.4.4',5,5'-HeptaCB	189			14.7	0.229	0.0001	1.47E-03	1.47E-03

TOTAL TEQ 0.572 0.556

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

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by Man Approved by AAVQC Chemist

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AXYS ANALYTICAL SERVICES LTD | PO B0) 22/9 2045 MILLS RD. WEST, SIDNEY. B.C., CANADA VAL 358 TEL (250) 655-5800 FAX (250 | 655-5800

AXYS METHOD MLA-010 Rev 05 19684-51 205 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-C1-T	
			Sample Collection:	26-Aug-2004	
Lab Name: AXYS ANALYTICAL §	SERVICES		Project Number:	04 08 06 21	
Contract No.:	4033		Lab Sample ID:	L7510-9	
Matrix:	TISSUE		Sample Size:	10.1	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 23:09:24	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_076 S:4	
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_076 S:1	

Concentration Units :

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		JB	1.23	0.0205	3.20	1 001
3 - MoCB	2		JB	0.311	0.0222	3.41	0.988
4 - MoCB	3		JB	0.819	0.0250	3.43	1 000
2,2' - DiCB	4		в	23.0	0 121	1.50	1.001
2,3 - DiCB	5		ſ	0.804	0.0922	1.72	1 199
2,3' - DiCB	6		В	16.9	0.0882	1.52	1 176
2,4 - DICB	7			2.30	0.0878	1.61	1 158
2.4' - DiCB	8		В	44.3	0.0816	1,51	1.208
2,5 - DiCB	9			3.10	0.0877	1.57	1.146
2,6 - DiCB	10		J	1 31	0.0820	1.48	1.013
3,3' - DiCB	11		в	14 5	0.0940	1.49	0,969
3,4 - DiCB	12	12 + 13	С	7.98	0.0945	1.44	0.984
3.4' - DiCB	13	12 + 13	C12				
3.5 - DiCB	14		U		0.0873		
4.4' - DiCB	15		В	53.8	0.106	1.49	1.001
2.2',3 - TriCB	16		В	78.3	0.0252	1.06	1.166
2,2',4 - TriCB	17		В	135	0.0233	1.07	1 139
2.2',5 - TriCB	18	18 + 30	СВ	237	0.0188	1.06	1 113
2.2'.6 - TriCB	19		В	34 6	0.0264	1.07	1 001
2.3.3' - TriCB	20	20 + 28	СВ	630	0.107	1 00	0.849

14743AD3_1 xis S2

Approved by MUNAL QAVQC Chemiss

01-03-2005 dd-mm-yyyy

AXYS METHOD MLA-010 Rev 05 Form 1A

L7510-9

Page 2 of 6

Lab Sample ID

LDW-C1-T

Project Number. 04 Sample Data Filename. PE

04-08-06-21 PB5C_076 S:4

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	СВ	164	0 105	0.99	0.857
2,3.4' - TriCB	22		В	164	0.115	1.00	0.873
2,3,5 - TriCB	23		J	0.371	0 109	0.95	1.284
2,3,6 - TriCB	24			3.29	0.0167	1.02	1.158
2,3',4 - TriCB	25		В	99.7	0.0961	1.00	0.825
2,3',5 - TriCB	26	26 + 29	СВ	220	0 108	1 00	1.302
2.3',6 - TriCB	27		В	49 5	0 0159	1 07	1 152
2.4.4' - TriCB	28	20 + 28	C20				
2.4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31		В	438	0.104	1.00	0.837
2,4',6 - TriCB	32		В	116	0.0996	0.99	1.198
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34			2.82	0.107	0.98	1.2/5
3,3',4 - TriCB	35			8.09	0.125	0.98	0.986
3,3',5 - TriCB	36		J	0.794	0.111	1.02	0.932
3,4,4' - TriCB	37		В	157	0 126	1.00	1.001
3,4,5 - TriCB	38		J	0.839	0.123	1.12	0.969
3,4',5 - TriCB	39			4.15	0.112	0.92	0.947
2,2',3,3' - TeCB	40	40 + 41 + 71	СВ	455	0.0355	0.79	1,337
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		В	245	0.0363	0.79	1.313
2,2',3,5 - TeCB	43		В	34.0	0.0396	0.79	1.247
2,2',3,5' - TeCB	44	44 + 47 + 65	СВ	994	0.0321	0.79	1.287
2,2',3,6 - TeCB	45	45 + 51	СВ	124	0.0338	0.79	1.147
2,2',3,6' - TeCB	46			42.3	0.0397	0.80	1.162
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2'.4,5 - TeCB	48		В	142	0.0344	0.79	1.275
2,2',4,5' - TeCB	49	49 + 69	СВ	796	0.0301	0.79	1.261
2,2',4,6 - TeCB	50	50 + 53	СВ	138	0.0327	0.79	1.111
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' TeCB	52		В	1680	0.0323	0.79	1 235
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54			2.88	0.0283	0.78	1.001
2,3,3',4 - TeCB	55			18.8	0.453	0.76	0.890
2,3,3',4' - TeCB	56		В	383	0.462	0.75	0.905
2,3,3',5 - TeCB	57			13.8	0.435	0.85	0.844
2,3,3',5' - TeCB	58			7 53	0.432	0.73	0.852
2,3,3',6 - TeCB	59	59 + 62 + 75	СВ	126	0.0268	0.79	1.303
2,3,4,4' - TeCB	60		В	197	0.463	0.75	0.911
2.3.4.5 - TeCB	61	61 + 70 + 74 + 76	СВ	1480	0.430	0.75	0.875
2,3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,3.4'.5 - ToCB	63			36 5	0 427	0.75	0 865

14743AD3_1 xis S2

Approved by ____

__QA/QC Chemist

01-03-2005 dd-mm-yyyy

AXYS ANALYTICAL SERVICES LTD P.0 BOX 2219, 2045 MILLS RD WEST, SIDNEY B.C., CANADA VBI 358 TEI (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-01	0 Rev 05	CLIENT ID:
Form 1A		
Page 3 of 6		Project Number
Lap Sample ID	L7510-\$	Sample Data Filename

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04-08-06-21 PB5C_076 S 4

LDW-C1-T

$\begin{array}{c c c c c c c c c c c c c c c c c c c $	COMPOUND	IUPAC NO.	CO-ELUTIONS	I AR FLAG ¹	CONC FOUND		ION ARI IND RATIO	RRT
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2,3.4',6 - TeCB	64		в	346	0 0266	0.79	1.350
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2,3',4,4' - TeCB	66		В	1040	0.437	0.76	0.885
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2,3',4,5 - TeCB	67			37 5	0.396	0 75	0.856
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2,3',4,5' - TeCB	68			16.0	0.413	0 73	0.832
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2,3',4,6 - TeCB	69	49 + 69	C49				
2,3:5:5 + TeCB 72 33.2 0.417 0.75 0.6 2,3:5:5 + TeCB 73 U 0.0280 0.280 0.280 2,4,4:6 + TeCB 75 59 + 62 + 75 C59 0.23,4:4:4:6 0.76 0.147 0.76 0.147 3,3:4,4:5 + TeCB 76 61 + 70 + 74 + 76 C61 0.443 0.74 1.0 3,3:4,5: + TeCB 76 61 + 70 + 74 + 76 C61 0.433 0.74 1.0 3,3:4,5: + TeCB 78 U 0.519 0.430 0.74 1.0 3,3:4,5: + TeCB 79 K 17.9 0.426 0.60 0.9 3,3:4,5: + TeCB 81 3.04 0.462 0.80 1.0 2,2:3,3:4: - PeCB 81 3.04 0.462 0.80 1.0 2,2:3,3:4: - PeCB 81 83 + 99 C B 313 0.098 1.60 0.9 2,2:3,4: - PeCB 85 85 + 116 + 117 C B 313 0.0982 1.69 0.9 2,2:3,4: - PeCB 86 88 + 91 C B 240 0.0995 </td <td>2,3',4',5 - TeCB</td> <td>70</td> <td>61 + 70 + 74 + 76</td> <td>C61</td> <td></td> <td></td> <td></td> <td></td>	2,3',4',5 - TeCB	70	61 + 70 + 74 + 76	C61				
1100.02602,3',5',6 - TeCB74 $61 + 70 + 74 + 76$ C612,3,4,5 - TeCB75 $69 + 62 + 75$ C592',3,4,5 - TeCB76 $61 + 70 + 74 + 76$ C613,3',4,5' - TeCB77B71,50.4830.743,3',4,5' - TeCB78U0.5193,3',4,5' - TeCB80U0.4303,3',4,5' - TeCB813040.4620.801,2,2',3,3',4 - FeCB811760.1341.590.902,2',3,3',5 - FeCB8383 + 99C B13900.1161.580.882,2',3,3',5 - FeCB8383 + 99C B13900.1161.601.112,2',3,4,5 - FeCB8686 + 87 + 97 + 108 + 119 + 125C B1000.9921.590.992,2',3,4,5 - PeCB8686 + 87 + 97 + 108 + 119 + 125C B2001.601.112,2',3,4,5 - PeCB8688 + 91C B2860.1061.601.112,2',3,4,5 - PeCB8090 + 101 + 113C B22601.590.992,2',3,4,5 - PeCB9188 + 91C B18200.1031.591.112,2',3,4,5 - PeCB9393 + 95 + 98 + 100 + 102C B18200.1031.591.112,2',3,4,5 - PeCB9393 + 95 + 98 + 100 + 102C B18200.1031.591.112,2',3,4,5 - PeCB9484 + 91C B1820 <td>2,3',4',6 - TeCB</td> <td>71</td> <td>40 + 41 + 71</td> <td>C40</td> <td></td> <td></td> <td></td> <td></td>	2,3',4',6 - TeCB	71	40 + 41 + 71	C40				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2,3'.5,5 ' - TeCB	72			33.2	0.417	0.75	0,823
2.4.4:6TGCB75 $59 + 62 + 75$ $C59$ 2'3.4.5: TGCB76 $61 + 70 + 74 + 76$ $C61$ 3.3'.4.5: TGCB77B715 0.483 0.74 10 3.3'.4.5: TGCB78U 0.519 0.426 0.60 0.9 3.3'.4.5: TGCB80U 0.430 0.442 0.80 100 3.4'.5: TGCB81 3.04 0.462 0.80 100 2.2',3.3'.4: PeCB82 176 0.134 1.59 0.90 2.2',3.3'.4: PeCB83 $83 + 99$ CB 1390 0.116 1.58 0.92 2.2',3.3'.4: PeCB86 $86 + 87 + 97 + 108 + 119 + 125$ CB 313 0.0988 1.60 0.92 2.2',3.4.5: PeCB86 $86 + 87 + 97 + 108 + 119 + 125$ CB 1050 0.9922 1.59 0.92 2.2',3.4.5: PeCB88 $88 + 91$ CB 286 0.106 1.60 111 2.2',3.4.6: PeCB88 $88 + 91$ CB 2240 0.0992 1.59 0.8 2.2',3.4.6: PeCB90 $90 + 101 + 113$ CB 2240 0.0935 1.59 0.8 2.2',3.4.6: PeCB93 $93 + 95 + 98 + 100 + 102$ CB 1220 0.103 1.59 1.60 2.2',3.4.6: PeCB96 $93 + 95 + 98 + 100 + 102$ CB 223 $223 + 56 + 66$ 1.60 1.60 2.2',3.4.6: PeCB97 $86 + 87 + 97 + 108 + 119 + 125$ C66 $223' + 4.56 + PeCB$ $93 + 95 + 98 + 100 + $	2,3',5',6 - TeCB	73		U		0.0260		
111 <th< td=""><td>2,4,4',5 - TeCB</td><td>74</td><td>61 + 70 + 74 + 76</td><td>C61</td><td></td><td></td><td></td><td></td></th<>	2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB77B7150.4830.741.03,3',4,5' - TeCB76U0.5190.6190.6190.6190.6193,3',4,5' - TeCB80U0.4300.4620.801.03,4,4'5 - TeCB813.040.4620.801.02,2',3,3',4 - PeCB821760.1341.590.992,2',3,3',5 - PeCB8383 + 99C13000.1161.582,2',3,4',5 - PeCB8685 + 116 + 117CB3130.09881.602,2',3,4,5 - PeCB8686 + 87 + 97 + 108 + 119 + 125C461.01.112,2',3,4,5 - PeCB8686 + 87 + 97 + 108 + 119 + 125C461.601.112,2',3,4,5 - PeCB8688 + 91C.B2260.09951.590.992,2',3,4,5 - PeCB9090 + 101 + 113C.B2240.09951.590.82,2',3,4,5 - PeCB9188 + 91C.B18200.09951.591.12,2',3,4,5 - PeCB9393 + 95 + 98 + 100 + 102CB1.0131.591.612,2',3,5,6 - PeCB9393 + 95 + 98 + 100 + 102CB1.021.021.012,2',3,5,6 - PeCB9786 + 87 + 97 + 108 + 119 + 125C861.011.011.591.012,2',3,5,6 - PeCB9893 + 95 + 98 + 100 + 102C931.021.021.021.022,2',3,5,6 - PeCB9693 + 95 + 98 + 100 + 102	2,4,4',6 - TeCB							
13.3'4.5' TeCB 78 U 0.519 3.3'4.5' TeCB 79 K 17.9 0.426 0.60 0.9 3.3'4.5' TeCB 80 U 0.430 0.430 0.462 0.80 10 3.4'4.5' TeCB 81	2',3,4,5 - TeCB		61 + 70 + 74 + 76					
3.3',4.5' - TeCB 79 K 17.9 0.428 0.60 0.9 3.3',5.5' - TeCB 80 U 0.430 0.430 0.430 0.0426 0.80 1.0 3.4,4',5 - TeCB 81 3.04 0.462 0.80 1.0 2.2',3,3',5 - PeCB 83 83 + 99 C B 1390 0.116 1.58 0.88 2.2',3,3',5 - PeCB 83 83 + 99 C B 1390 0.116 1.58 0.89 2.2',3,4,5' - PeCB 86 86 + 87 + 97 + 108 + 119 + 125 C B 313 0.0988 1.60 0.99 2.2',3,4,5' - PeCB 87 86 + 87 + 97 + 108 + 119 + 125 C B 1050 0.0992 1.59 0.9 2.2',3,4,5' - PeCB 87 86 + 87 + 97 + 108 + 119 + 125 C B 226 0.106 1.60 1.1 2.2',3,4,5' - PeCB 90 90 + 101 + 113 C B 2240 0.0995 1.59 0.8 2.2',3,4,6' - PeCB 91 88 + 91 C B 1631 0.113 1.59 0.8 2.2',3,5,6 - PeCB 93 93 + 95 +					71 5		0.74	1 000
3,3',5',5' - TeCB80U0,4303,4',5',5' - TeCB81 3.04 0,4620,801,02,2',3,3',5, - PeCB821760,1341,590,992,2',3,3',5, - PeCB8383 + 99C.B13600,1161,580,82,2',3,4,5' - PeCB8585 + 116 + 117C.B3130,09881,600,992,2',3,4,5' - PeCB8686 + 87 + 97 + 108 + 119 + 125C.B1550,1161,601,112,2',3,4,5' - PeCB8688 + 91C.B2860,00951,601,611,112,2',3,4,6' - PeCB8888 + 91C.B2860,1061,601,111,112,2',3,4,6' - PeCB9090 + 101 + 113C.B2860,1031,500,882,2',3,4,6' - PeCB9188 + 91C.B18200,1031,591,112,2',3,4,6' - PeCB9393 + 95 + 98 + 100 + 102C.B18200,1031,591,112,2',3,5,6' - PeCB9393 + 95 + 98 + 100 + 102C.931,621,001,621,002,2',3,4,6' - PeCB9786 + 87 + 97 + 108 + 119 + 125C.861,621,001,621,002,2',3,5,6' - PeCB9393 + 95 + 98 + 100 + 102C.931,621,001,621,002,2',3,4,6' - PeCB9983 + 99C.832,2',4,4,5' - PeCB1,601,601,001,601,002,2',4,6' - PeCB1093 + 55 + 98								
3.4.4'5Tack3.040.4620.801.002.2'3.3'4-PeCB821760.1341.590.992.2'3.3'5-PeCB8383 + 99CB13900.1161.580.82.2'3.3'5-PeCB84B3610.1221601.12.2'3.4,5-PeCB85 $85 + 116 + 117$ CB3130.09881.600.992.2'3.4,5-PeCB86 $86 + 87 + 97 + 108 + 119 + 125$ CCB10500.09921.590.992.2'3.4,5-PeCB87 $86 + 87 + 97 + 108 + 119 + 125$ C86					17.9		0.60	0.971
$\begin{array}{c c c c c c c c c c c c c c c c c c c $. , ,			U			0.00	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								1.001
12.13.3'.6 PeCB84B3610.1221601.12.2'.3,4.4' - PeCB85 $85 + 116 + 117$ C B3130.09881.600.92.2'.3,4.5' - PeCB86 $86 + 87 + 97 + 108 + 119 + 125$ C B10500.09921.590.92.2'.3,4.5' - PeCB87 $86 + 87 + 97 + 108 + 119 + 125$ C B2860.1061.601.12.2'.3,4.5' - PeCB87 $86 + 87 + 97 + 108 + 119 + 125$ C B2860.1061.601.12.2'.3,4.6' - PeCB88 $88 + 91$ C B2860.1061.601.12.2'.3,4',6' - PeCB9090 + 101 + 113C B22400.09951.590.82.2'.3,5',5' - PeCB91 $88 + 91$ C88								0.933
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			83 + 99					0.885
$\begin{array}{cccccccccccccccccccccccccccccccccccc$								1.163
2.2',3,4,5' - PeCB87 $86 + 87 + 97 + 108 + 119 + 125$ C862.2',3,4,6 - PeCB88 $88 + 91$ CB2860,1061,601,12.2',3,4,6' - PeCB9090 + 101 + 113CB22400,09951,590,82.2',3,4',6 - PeCB91 $88 + 91$ C88 2240 0,09951,590,82.2',3,4',6 - PeCB91 $88 + 91$ C88 2240 0,1031,590,82.2',3,5,5' - PeCB92B6310,1131,590,82.2',3,5,6 - PeCB9393 + 95 + 98 + 100 + 102CB8,0,1101,591,112.2',3,5',6 - PeCB9593 + 95 + 98 + 100 + 102C93 223 ,3',4,6' - PeCB961,080,1101,621,002.2',3,6,6' - PeCB969393 + 95 + 98 + 100 + 102C93 223 ,3',4,6' - PeCB97 $86 + 87 + 97 + 108 + 119 + 125$ C861,621,002.2',3,4,6,6' - PeCB9893 + 95 + 98 + 100 + 102C93 223 ,3',4,6' - PeCB99 $83 + 99$ C83 223 ,3',4,6' - PeCB1,0093 + 95 + 98 + 100 + 102C93 224 ,4,5',5' - PeCB10093 + 95 + 98 + 100 + 102C93 224 ,4,5',6' - PeCB10093 + 95 + 98 + 100 + 102C93 224 ,4,5',6' - PeCB1,601,601,002.2',4,5',6' - PeCB10293 + 95 + 98 + 100 + 102C93 224 ,4,5',6' - PeCB1,601,601,602.2',4,5',6' - PeCB10293 + 95 + 98 + 100 + 102C93 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.920</td>								0.920
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	-/- () /				1050	0 0992	1.59	0.901
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					286	0 106	1.60	1 154
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.			00 + 91	СB				
2,2',3,4',6 - PeCB91 $88 + 91$ C882,2',3,5,5' - PeCB92B6310.1131.590.82,2',3,5,6 - PeCB9393 + 95 + 98 + 100 + 102C B18200.1031.591.12,2',3,5,6' - PeCB0410.80.1101.591.12,2',3,5,6' - PeCB9593 + 95 + 98 + 100 + 102C939.930.04061.621.02,2',3,6,6' - PeCB969186 + 87 + 97 + 108 + 119 + 125C861.621.01.621.02,2',3',4,5 - PeCB9786 + 87 + 97 + 108 + 119 + 125C861.621.01.621.02,2',3',4,6 - PeCB9893 + 95 + 98 + 100 + 102C931.621.01.621.02,2',4,4',5 - PeCB9983 + 99C831.621.01.621.02,2',4,4',6 - PeCB10093 + 95 + 98 + 100 + 102C931.601.031.621.02,2',4,5,5' - PeCB10190 + 101 + 113C901.601.031.601.032,2',4,5,6' - PeCB10293 + 95 + 98 + 100 + 102C931.601.031.002,2',4,5,6' - PeCB10343.70.09561.601.031.002,2',4,6,6' - PeCB103J0.5160.04361.551.002,2',4,6,6' - PeCB104J0.5160.04361.551.002,3,3',4,4' - PeCD105B4780.4171.521.00			$00 \pm 101 \pm 112$	CP				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$,				2240	0.0995	1.59	0.009
2.2',3,5.6 - PeCB 93 93 + 95 + 98 + 100 + 102 C B 1820 0.103 1.59 1.1 2.2',3,5.6 - PeCB 94 10.8 0.110 1.59 1.1 2.2',3,5.6 - PeCB 95 93 + 95 + 98 + 100 + 102 C93 9.93 0.0406 1.62 1.0 2.2',3,5.6' - PeCB 96 9.93 0.0406 1.62 1.0 2.2',3,6,6' - 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',5 - PeCB 100 93 + 95 + 98 + 100 + 102 C93 2.2',4,5,5' - PeCB 100 93 + 95 + 98 + 100 + 102 C93 2.2',4,5,5' - 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 1.60 1.00 2.2',4,5,6' - PeCB 102 93 + 95 + 98 + 100 + 102 C93 43.7 0.0956 1.60 1.00 2.2',4,5,6' - PeCB 103 43.7 0.0956 1.60 1			00 + 91		621	0 112	1 50	0.853
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			$0.2 \pm 0.5 \pm 0.8 \pm 10.0 \pm 10.2$	-				1.121
2,2',3,5',6 - PeCB95 $93 + 95 + 98 + 100 + 102$ C932,2',3,6,6' - PeCB969.930.04061.621.02,2',3',4,5 - PeCB9786 + 87 + 97 + 108 + 119 + 125C861.621.02,2',3',4,6 - PeCB9893 + 95 + 98 + 100 + 102C931.621.02,2',4,4',5 - PeCB9983 + 99C831.621.02,2',4,4',5 - PeCB10093 + 95 + 98 + 100 + 102C931.621.622,2',4,5,5' - PeCB10190 + 101 + 113C901.621.601.622,2',4,5,6' - PeCB10293 + 95 + 98 + 100 + 102C931.601.002,2',4,5',6 - PeCB10293 + 95 + 98 + 100 + 102C931.601.002,2',4,5',6 - PeCB10343.70.09561.601.002,2',4,6,6' - PeCB104J0.5160.04361.551.002,2,3,3',4,4' - PeCD105B4780.4171.521.00			55 * 55 * 56 * 100 * 102	00				1.102
2.2'.3,6,6' - PeCB 96 9.93 0.0406 1.62 1.0 2.2'.3,6,6' - PeCB 97 86 + 87 + 97 + 108 + 119 + 125 C86 1.0 1.0 2.2'.3'.4,6 - PeCB 98 93 + 95 + 98 + 100 + 102 C93 1.0 1.0 2.2'.3'.4,6 - PeCB 99 83 + 99 C83 1.0 1.0 2.2'.4,4'.5 - PeCB 100 93 + 95 + 98 + 100 + 102 C93 1.0 1.0 2.2'.4,4'.6 - PeCB 100 93 + 95 + 98 + 100 + 102 C93 1.0 1.0 2.2'.4,5.5' - PeCB 101 90 + 101 + 113 C90 1.0 1.00 1.00 2.2'.4,5.6' - PeCB 102 93 + 95 + 98 + 100 + 102 C93 1.00 1.00 1.00 2.2'.4,5.6' - PeCB 102 93 + 95 + 98 + 100 + 102 C93 1.00 1.00 1.00 2.2'.4,6.6' - PeCB 103 43.7 0.0956 1.60 1.00 2.2'.4,6,6' - PeCB 104 J 0.516 0.0436 1.55 1.00 2.3,3'.4,4' - PeCB 105 B 478 0.417 1.52 1.00			93 + 95 + 98 + 100 + 102	C93	10.0	0.110	1.50	1.102
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'.4,4',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 102 93 + 95 + 98 + 100 + 102 C93 2,2'.4,5,6' - PeCB 103 43.7 0.0956 1.60 1.09 2,2'.4,6,6' - PeCB 103 J 0.516 0.0436 1.55 1.00 2,2'.4,6,6' - PeCB 104 J 0.516 0.0436 1.55 1.00 2,3,3',4,4' - PeCB 105 B 478 0.417 1.52 1.00				000	9.93	0 0406	1.62	1.015
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 102 93 + 95 + 98 + 100 + 102 C93 2.2',4,5,6' - PeCB 102 93 + 95 + 98 + 100 + 102 C93 2.2',4,5,6' - PeCB 103 - 43.7 0.0956 1.60 1.09 2.2',4,6,6' - PeCB 104 J 0.516 0.0436 1 55 1.00 2.2,3,3',4,4' - PeCB 105 B 478 0.417 1 52 1.00			86 + 87 + 97 + 108 + 119 + 125	C86				
2.2'.4.4'.5 - PeCB 99 83 + 99 C83 2.2'.4.4'.5 - 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 102 93 + 95 + 98 + 100 + 102 C93 2.2'.4.5.6' - PeCB 103 43.7 0.0956 1.60 1.09 2.2'.4.6.6' - PeCB 104 J 0.516 0.0436 1 55 1.00 2.3.3'.4.4' - PeCB 105 B 478 0.417 1 52 1.00								
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 102 93 + 95 + 98 + 100 + 102 C93 2.2',4,5,6' - PeCB 103 43.7 0.0956 1.60 1.09 2.2',4,6,6' - PeCB 104 J 0.516 0.0436 1 55 1.00 2,0,0',4,4' - PeCB 105 B 478 0.417 1 52 1.00								
2.2',4,5,5' - PeCB 101 90 + 101 + 113 C90 2.2',4,5,5' - PeCB 102 93 + 95 + 98 + 100 + 102 C93 2.2',4,5,6' - PeCB 103 43.7 0.0956 1.60 1.09 2.2',4,5,6' - PeCB 104 J 0.516 0.0436 1.55 1.00 2,3,3',4,4' - PeCD 105 B 478 0.417 1.52 1.00								
2,2',4,5,6' - PeCB 102 93 + 95 + 98 + 100 + 102 C93 2,2',4,5',6 - PeCB 103 43.7 0.0956 1.60 1.09 2,2',4,6,6' - PeCB 104 J 0.516 0.0436 1.55 1.00 2,3,3',4,4' - PeCB 105 B 478 0.417 1.52 1.00								
2.2',4,5',6 - PeCB 103 43.7 0.0956 1.60 1.09 2.2',4,6,6' - PeCB 104 J 0.516 0.0436 1.55 1.00 2,3,3',4,4' - PeCB 105 B 478 0.417 1.52 1.00								
2.2',4,6,6' - PeCB104J0.5160.04361.551.002.3,3',4,4' - PeCB105B4780.4171.521.00					43.7	0.0956	1.60	1.094
2.3.3'.4,4' - PeCB 105 B 478 0.417 1 52 1.00		104		J	0.516	0.0436	1 55	1.001
		105		В	478	0.417	1 52	1,000
2,0,0,3,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,	2.3,3'.4,5 - PeCB	106		U		0.415		

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Approved by _

QA/QC Chemist

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CAREA ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD WEST SIDNEY B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5813

AXYS METHOD MLA-010 Rev 05
Form 1A
Page 4 of 6

L7510-9

LDW-C1-T

Page 4 of 6

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Lab Sample ID

Project Number Sample Data Filename 04-08-06-21 PB5C_076 S.4

COMPOUND	NO.	CO-FLUTIONS	I AR FLAG ¹	CONC FOUND	DETECTION	ION ARI IND RATIO	RRT
2.3,3'.4',5 - PeCB	107	107 + 124	С	64.3	0 420	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			116	0.381	1.51	0 997
2,3,3',4',6 - PeCB	110	110 + 115	СВ	1980	0.0862	1.59	0.925
2,3,3',5,5' - PeCB	111			3.55	0.0876	1 68	0.945
2,3,3',5,6 - PeCB	112		U		0.0879		
2.3.3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114			29.8	0.400	1.48	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		В	1290	0.379	1.51	1.000
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120			15.2	0.0891	1.67	0.959
2.3'.4.5',6 - PeCB	121		J	1.88	0.0820	1.66	1.201
2',3,3',4,5 - PeCB	122			23.9	0.461	1 49	1.010
2',3,4,4',5 - PeCB	123			32.6	0.409	1.52	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			3.51	0.504	1.56	1.000
3,3',4,5,5' - PeCB	127			2.42	0.457	1.40	1.042
2,2',3,3',4,4' - HxCB	128	128 + 166	СВ	295	0.610	1.26	0.958
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СB	2350	0.586	1.26	0.929
2,2',3,3',4,5' - HxCB	130			189	0.741	1.27	0.913
2,2',3.3',4,6 - HxCB	131			22.6	0.639	1.31	1.159
2,2',3,3',4,6' - HxCB	132		В	652	0.667	1.27	1.174
2,2',3,3',5,5' - HxCB	133			90.1	0.651	1.25	1.191
2,2',3,3',5,6 - HxCB	134	134 + 143	С	141	0.664	1.26	1.139
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	СВ	1200	0.0916	1.28	1 104
2,2',3,3',6,6' - HxCB	136		В	311	0.0699	1.28	1 024
2,2',3,4,4',5 HxCB	137		.	100	0.683	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	С	48.7	0.593	1.27	1.153
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141		В	257	0.669	1.26	0.903
2,2',3,4,5,6 - HxCB	142		U		0.674		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5',6 - HxCB	144			112	0.0959	1.28	1.121
2,2',3,4,6,6' - HxCB	145		J	0.732	0.0710	1.20	1.033
2.2',3,4',5,5' - HxCB	146		В	627	0 596	1 26	0.884
2,2',3,4',5,6 - HxCB	147	147 + 149	СВ	2260	0.567	1.27	1 133
2,2',3,4',5,6' HxCB	148	147 ± 140	C147	11 7	0 0953	1 32	1 084
2.2',3.4',5',6 - HxCB	149	147 + 149	C147				

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Approved by

QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA VBI 3588 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05

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Form 1A

Page 5 of 3 Lab Sample ID LDW-C1-T

Project Number 04-08-06-21 Sample Data Filename: PB5C_076 S 4

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.2',3.4'.6.6' - HxCB	150			7.01	0 0676	1 29	1.012
2.2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135			1 40	
2.2',3.5.6.6' - HxCB	152		J	1.68	0.0656	1.39	1.006
2.2',4.4',5,5' - HxCB	153	153 + 168	СВ	2590	0.508	1,26	0.899
2,2',4,4',5,6' - HxCB	154	135 + 151 + 154	C135				
2.2',4,4',6,6' - HxCB	155		J	0.573	0.0609	1 37	1.001
2.3.3',4,4',5 - H×CB	156	156 + 157	СВ	163	0.673	1 27	1.000
2,3,3',4,4'.5' - HxCB	157	156 + 157	C156				
2,3,3'.4,4',6 - HxCB	158		В	207	0.487	1.27	0.938
2,3,3'.4,5,5' - HxCB	159		U		0.548		
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB	161		U		0.491		
2,3,3',4',5,5' - HxCB	162			7.25	0.548	1 14	0 989
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB	164		В	214	0.513	1 26	0.921
2,3,3',5,5',6 - HxCB	165			2.46	0.521	1.19	0.878
2,3,4,4',5,6 - HxCB	166	128 + 166	C128				
2,3',4,4',5,5' - HxCB	167		В	85.8	0.508	1 28	1.000
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		1 21		
2,2',3,3',4,4',5 - HpCB	170		В	232	0.120	1.05	0.936
2,2',3,3',4,4',6 - HpCB	171	171 + 173	С	184	0 111	1 06	1 163
2,2',3,3',4.5,5' - HpCB	172			43 1	0 116	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		в	296	0.0987	107	1133
2,2',3,3',4,5',6 - HpCB	175			37.8	0 0957	1 05	1 102
2,2',3,3',4,6,6' - HpCB	176			89.6	0.0704	1.05	1 034
2,2',3,3',4',5,6 - HpCB	177		В	557	0.110	1.07	1.145
2,2',3,3',5,5',6 - HpCB	178			283	0.0992	1.06	1.085
2,2',3,3',5,6,6' - HpCB	179		В	328	0.0685	1.06	1.009
2,2',3,4,4',5,5' - HpCB	180	180 + 193	СВ	1040	0.0923	1.06	0.910
2,2',3,4,4',5,6 HpCB	181			3.45	0.101	1.12	1.156
2,2',3,4,4',5,6' - HpCB	182			8.16	0.0988	1.02	1.116
2,2'.3.4,4',5',6 - HpCB	183	183 + 185	СВ	476	0.0971	1.07	1.127
2,2',3,4,4',6,6' - HpCB	184		J	0.638	0.0650	1.14	1.025
2,2',3,4,5,5',6 - HpCB	185	183 + 185	C183				
2,2',3,4,5,6.6' - HpCB	186		U		0.0715		
2,2',3,4',5,5',6 - HpCB	187		В	1150	0 0904	1.07	1.110
2,2',3,4',5,6,6' - HpCB	188			1.98	0.0578	1.00	1.000
2,3,3',4,4',5.5' - HpCB	189			7.52	0.149	0.93	1.000
2,3,3',4,4',5,6 - HpCB	190		В	82.5	0.0889	1.06	0.947
2,3,3',4.4',5',6 - HpCB	191			25 8	0.0865	1.08	0.918
2,3,3',4,5,5',6 - HpCB	192		4		0 0907		

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QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD P0 809 2219 2045 MILLS RD WEST SIDNEY B1 CANADA V81 358 TEI (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 CLIENT ID: LDW-C1-T Form 1A Page 6 of 6 Project Number. 04-08-06-21 Lab Sample (D L7510-9 Sample Data Filename: PB5C 076 S:4 COMPOUND IUPAC CO-ELUTIONS CONC. DETECTION ION ABUND. LAB NO. FOUND LIMIT RATIO FLAG¹

2,3,3'.4'.5.5'.6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194	100 100	B	43 8	0 0906	0.90	0.991
2.2',3,3'.4,4',5.6 - OcCB	195		В	21 9	0.0960	0.88	0.945
2,2',3,3',4.4',5,6' - OcCB	196		В	94.9	0 0049	0.93	0.916
2.2',3,3',4,4'.6,6' - OcCB	197	197 + 200	С	17 5	0.0034	0.99	1.045
2,2',3.3'.4,5,5',6 - OcCB	198	198 + 199	СВ	221	0 0049	0.92	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		В	52.6	0.0035	0.94	1.023
2,2',3,3',5,5',6,6' - OcCB	202		В	131	0.0039	0 92	1.001
2,2',3,4,4',5,5',6 - OcCB	203		В	68.5	0 0045	0.89	0.920
2,2',3,4,4',5,6,6' - OcCB	204		JB	0.054	0 0034	0.99	1.040
2,3,3',4,4',5,5',6 - OLCB	205		D	0.00	0.0744	0.95	1.000
2,2',3,3',4,4',5,5',6 - NoCB	206		В	10.3	0.0300	0.83	1.000
2,2',3,3',4,4',5,6,6' - NoCB	207		J	1.15	0 0237	0.72	1 020
2,2',3,3',4,5,5',6,6' - NoCB	208		В	2.88	0.0248	0.78	1 000
2,2',3,3',4,4',5,5',6,6' - DeCB	209		В	2.23	0.0037	0 63	1 000

(1) C = co-eluting congener, U = not detected. K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by

QA/QC Chemist

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01/10 AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD WEST SIDNEY, B.C. CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID: LDW-C1-T

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

			Sample Collection:		26-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	04-08-06-21		
Contract No.:	4033		Lab Sample ID:		L7510-9	
Matrix:	TISSUE		Sample Size:		10.1	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Da	ite:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	12-Feb-2005	Time: 23:09:24	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename	2:	PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filena	me:	PB5C_076 S:1	
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_076 S:4	
Concentration Units :	ng/kg (wot weight ba	acic)				
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			2.36	0.0250		
Total Dichloro Biphenyls			168	0.121		
Total Trichloro Biphenyls			2540	0.126		
Total Tetrachloro Biphenyls			8460	0.519		
Total Pentachloro Diphenyls			12400	0.504		
Total Hexachloro Biphenyls			12000	1.21		
Total Heptachloro Biphenyls			4850	0.149		
Total Octachloro Biphenyls			654	0.0960		
Total Nonachloro Biphenyls			14.3	0.0300		
Decachloro Biphenyl			2.23	0.0037		
TOTAL PCBs			41000			

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743PCBTOTAL State

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20 AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD WEST SIDNEY BU CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TEQ-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-C1-T

Lab Name: AXYS ANALYTICAL SERVICES Sample Collection: 26-Aug-2004 Project Number: 04-08-06-21 4033 Contract No.: L7510-9 Lab Sample ID: TISSUE Matrix: GC Column ID(s): SPB-OCTYL Sample Size: 10 1 g (wet) Sample Datafile(s): PB5C 076 S:4 Concentration Units : ng/kg (wet weight basis)

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			71.5	0.483	0 0001	7.15E-03	7.15E-03
3,4,4',5-TetraCB	81			3.04	0.462	0.0001	3.04E-04	3.04E-04
2,3,3',4,4'-PentaCB	105			478	0.417	0 000 I	4 78E-02	4.78E-02
2,3,4,4',5-PentaCB	114			29.8	0.400	0.0005	1.49E-02	1.49E-02
2,3',4,4',5-PentaCB	118			1290	0.379	0.0001	1.29E-01	1 29E-01
2',3,4,4',5-PentaCB	123			32.6	0.409	0.0001	3.26E-03	3.26E-03
3,3',4,4',5-PentaCB	126			3.51	0.504	0 1	3.51E-01	3.51E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	163	0.673	0.0005	8.15E-02	8.15E-02
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			85.8	0.508	0 00001	8 58E-04	8.58E-04
3,3',4,4',5,5'-HexaCB	169		U		1.21	0.01	6.07E-03	0.00E+00
2,3,3',4,4',5,5'-HeptaCB	189			7.52	0.149	0.0001	7.52E-04	7.52E-04

TOTAL TEQ 0.643 0.637

(1) C = co-eluting congener, U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743PCBTEQ_1 x8+ S13 (TEQ+

ALAWAM CA/QC Chemist Approved by

02-03-2005 da-mm-vyyy

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AXYS ANALYTICAL SERVICES LTD | PO ROX 2215 2045 MILLS RD. WEST, SIDNEY, B.C. CANADA V&I 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 1666A-S1_209 Page 1 of 6		PCB CONGE	Form 1A NER ANALYSIS REPORT		CLIENT ID: LDW-C2-2-T	
				Sample Collection:	26-Aug-2004	
Lab Name. AXYS ANALYTICAL S	SERVICES			Project Number:	04-08-06-21	
Contract No.:	4033			Lab Sample ID:	L7510-10	
Matrix:	TISSUE			Sample Size:	10.2	g (wet)
Sample Receipt Date:	16-Dec-2004			Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005			Instrument ID:	HR GC/MS	
Analysis Date:	13-Feb-2005		Time: 0:13:36	GC Column ID:	SPB-OCTYL	

Analysis Date.	10-1 60-2000	1111e. 0.10.00		0.0-00112
Extract Volume (µL):	20		Sample Data Filename:	PB5C_076 S:5
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_074 S 7
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_076 S:1

Concentration Units :

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ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		JB	1.00	0.0254	3.24	1.001
3 - MoCB	2		JB	0.293	0.0290	2.83	0.989
4 - MoCB	3		JB	0 715	0.0341	3.10	1,001
2,2' - DiCB	4		В	21.8	0 105	1 50	1.001
2,3 - DiCB	5		L	0.558	0.0870	1 61	1.198
2,3' - DiCB	6		В	16.6	0.0832	1 49	1 176
2,4 - DiCB	7			2.08	0.0829	1 46	1 158
2,4' - DiCB	8		В	42.1	0.0771	1 51	1.207
2,5 - DiCB	9			3.00	0.0828	1 49	1 146
2,6 - DICB	10		J	1.40	0.0774	1.57	1.014
3,3' DiCB	11		в	14.6	0.0887	1 58	0.969
3,4 - DiCB	12	12 + 13	С	9 14	0 0892	1.52	0.984
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		0 0824		
4,4' - DiCB	15		В	53.8	0 106	1 50	1 001
2.2'.3 - TriCB	16		В	90.2	0 0347	1.07	1 165
2.2',4 - TriCB	17		В	169	0.0321	1.06	1 139
2,2',5 - TriCB	18	18 + 30	СВ	290	0.0259	1.07	1 113
2.2',6 - TriCB	19		В	36.1	0.0345	1.05	1.001
2,3,3' - TriCB	20	20 + 28	СB	788	0.116	1.00	0.848

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Approved by MAUNHIAMQA/QC Chemist

01-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219 2045 MILLS RD. WEST SIDNEY B.C., CANADA VOL 358 TEL +250+ 655-5800 FA> +250+ 655-5801

AXYS METHOD MLA-010 Rev 05

L7510-10

Form 1A

LDW-C2-2-T

Project Number.04-08-06-21Sample Data Filename:PB5C_076 S:5

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	СВ	208	0 114	1.00	0.857
2.3.4' - TriCB	22		В	198	0 125	1 00	0 872
2,3,5 - TriCB	23		J	0 430	0 118	0.89	1 283
2,3,6 - TriCB	24			4 03	0.0229	1.07	1 158
2.3',4 - TriCB	25		В	118	0.105	1.00	0.825
2,3',5 - TriCB	26	26 + 29	СB	263	0.117	1.00	1.302
2,3',6 - TriCB	27		В	62.3	0.0218	1.06	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		В	574	0.113	1.00	0.836
2.4'.6 - TriCB	32		В	140	0.108	1.00	1,198
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34			3.85	0.116	0.99	1.274
3,3',4 - TriCB	35			9.76	0 136	0.94	0.985
3,3',5 - TriCB	36		KJ	0.742	0 121	0.85	0.931
3,4,4' - TriCB	37		В	168	0.141	1.00	1 001
3,4,5 - TriCB	38		J	1.23	0.134	0.92	0.969
3,4',5 - TriCB	39			5.81	0.121	0.89	0.947
2,2',3,3' - TeCB	40	40 + 41 + 71	СВ	533	0.0343	0,79	1.337
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		В	293	0.0351	0.79	1.313
2,2',3,5 - TeCB	43		В	40.2	0.0383	0.79	1.247
2,2',3,5' - TeCB	44	44 + 47 + 65	СВ	1150	0.0311	0.79	1.286
2,2',3,6 - TeCB	45	45 + 51	СВ	153	0 0327	0 79	1.147
2,2',3.6' - TeCB	46			49.4	0.0384	0.79	1.161
2,2'.4.4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48		В	176	0.0333	0.79	1.274
2,2',4,5' - TeCB	49	49 + 69	СВ	929	0.0291	0.79	1.260
2,2',4,6 - TeCB	50	50 + 53	СВ	169	0.0317	0.79	1.111
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52		В	1800	0.0312	0.70	1.235
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6.6' - TeCB	54			3.15	0.0274	0.77	1.001
2,3,3',4 - TeCB	55			20.5	0.497	0.72	0.889
2,3,3',4' - TeCB	56		В	495	0.507	0.74	0.905
2.3.3',5 - TeCB	57			14.0	0 478	0.73	0.844
2,3.3'.5' - TeCB	58			7.35	0.474	0.71	0.852
2.3,3',6 - TeCB	59	59 + 62 + 75	СВ	151	0.0259	0.79	1.303
2,3,4,4' - TeCB	60		В	256	0 509	0.76	0.911
2.3.4.5 - TeCB	61	61 + 70 + 74 + 76	СВ	1850	0 473	0.75	0.875
2.3,4,6 - TeCB	62	59 + 62 + 75	C59				
2,2,4',5 ToCB	63			45 3	0.468	0.73	0 865

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Approved by _

__QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD. WEST, SIDNEY B.C., CANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05
Form 1A

L7510-10

Page 3 of 6

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Lab Sample ID

LDW-C2-2-T

Project Number Sample Data Filename 04-08-06-21 PB5C_076 S[.]5

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAR FLAG ¹	CONC FOUND	DETECTION	ION ARUND RATIO	RRT
2,3.4',6 - TeCB	64		В	410	0 0257	0.79	1.349
2,3.5,6 - TeCB	65	44 + 47 + 65	C44				
2.3'.4,4' - TeCB	66		В	1300	0 480	0.74	0.885
2.3',4,5 - TeCB	67			46.2	0.435	0.73	0.857
2.3'.4,5' - TeCB	68			178	0 453	0.73	0 832
2.3',4.6 - TeCB	69	49 + 69	C49				
2,3',4'.5 - TeCB	70	61 + 70 + 74 + 76	C61				
2.3',4',6 - TeCB	71	40 + 41 + 71	C40				
2.3'.5,5' - TeCB	72			38.4	0 458	0 73	0.823
2,3',5',6 - TeCB	73		U		0.0251		
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		В	82.6	0.542	0.75	1.001
3,3',4,5 - TeCB	78		U		0.569		
3,3 ' ,4,5 ' - TeCB	79			28.7	0.468	0 72	0.971
3,3',5,5' - TeCB	80		U		0 473		
3.4.4',5 - TeCB	81			4 03	0.495	0.80	1.001
2,2',3.3',4 - PeCB	82			204	0.226	1.58	0.933
2,2',3,3',5 - PeCB	83	83 + 99	СВ	1610	0.195	1.60	0.885
2,2',3,3',6 - PeCB	84		В	394	0.206	1.59	1 162
2,2',3.4.4' - PeCB	85	85 + 116 + 117	СВ	379	0.166	1.59	0.919
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CB	1220	0.167	1.59	0.901
2,2',3,4,5' - PeCB	87 88	86 + 87 + 97 + 108 + 119 + 125 88 + 91	С86 СВ	327	0.178	1.58	1,154
2,2',3,4,6 - PeCB		00 + 91	Сb				
2,2',3,4,6' - PeCB	89	00 + 101 + 112	0 5	18.6	0.194	1.55	1 182
2,2',3,4',5 - PeCB	90	90 + 101 + 113	C E C88				
2.2',3,4',6 - PeCB	91 92	88 + 91	B	725	0.190	1.00	0.853
2,2',3,5,5' - PeCB	92	93 + 95 + 98 + 100 + 102	СВ	1980		1.60	
2,2',3,5,6 - PeCB 2,2',3,5,6' - PeCB	93 04	93 + 95 + 98 + 100 + 102	Сb	11.8	0.173 0 185	1 58 1.58	1.120 1 102
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93	11.0	0 165	1.08	1 102
2,2',3,6,6' - PeCB	96	33 + 35 + 36 + 166 + 162	030	10.9	0 0506	1 61	1 015
2,2',3',4.5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86	10.0	0 0000	101	1010
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			48 7	0.161	1.59	1.093
2,2',4,6,6' - PeCB	104		J	0.603	0.0590	1 57	1.001
2.3,3',4,4' PcCB	105		B	613	0.441	1 52	1 000
2,3,3',4,5 - PeCB	106		U		0.438		

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Approved by

_____QA/QC Chemist

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AXYS METHOD	MLA-010	Rev 0	5
Form 1A			
Page 4 of 6			

Lab Sample (D

L7510-10

CLIENT ID:

LDW-C2-2-T

Project Number: Sample Data Filename: 04-08-06-21 PB5C_076 S[.]5

COMPOUND	IUPAC NO.	CO-FLUTIONS	I AR FLAG ¹	CONC FOUND		ION ABUND RATIO	RRT
2.3,3',4',5 - PeCB	107	107 + 124	С	86 1	0 444	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			149	0 402	1.51	0 997
2.3.3'.4',6 - PeCB	110	110 + 115	CE				
2,3,3'.5,5' - PeCB	111			3 49	0 148	1 58	0.945
2,3,3',5.6 - PeCB	112		U		0 148		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3,4.4'.5 - PeCB	114			37.7	0.412	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		В	1650	0.388	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			17 7	0 150	1.61	0.958
2.3',4,5',6 - PeCB	121			2.02	0.138	1.63	1 200
2',3,3'.4,5 - PeCB	122			29.9	0.487	1.55	1.010
2',3,4,4',5 - PeCB	123			40 3	0.431	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			3.76	0.532	1.46	1.000
3,3',4,5,5' - PeCB	127			3.25	0.483	1.46	1.042
2.2',3,3',4,4' - HxCB	128	128 + 166	СB	367	0 487	1.26	0.958
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СВ	3100	0 468	1.26	0.929
2,2',3,3',4,5' - HxCB	130			243	0.591	1.26	0.913
2,2',3,3',4,6 - HxCB	131			29.0	0.509	1.27	1.159
2,2',3,3',4,6' - HxCB	132		В	826	0 532	1.27	1.174
2,2',3,3',5,5' - HxCB	133			114	0.519	1 25	1.191
2,2',3,3',5,6 - HxCB	134	134 + 143	С	177	0.529	1.26	1 139
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	СВ	1480	0.0888	1 28	1 104
2,2',3,3',6,6' - HxCB	136		В	372	0.0678	1 27	1.024
2,2',3,4,4',5 HxCB	137			138	0.545	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	С	63.0	0.473	1.27	1 153
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141		В	335	0.534	1.26	0.903
2,2',3,4,5,6 - HxCB	142		U		0 537		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5',6 - HxCB	144			145	0 0930	1.27	1.121
2,2'.3,4,6,6' - HxCB	145		J	0 786	0.0688	1.34	1 033
2,2',3,4'.5,5' - HxCB	146		В	813	0 475	1.26	0 884
2.2',3.4',5.6 - HxCB	147	147 + 149	СВ	2910	0.452	1 27	1 133
2,2'.3,4'.5,6' HxCB	118	147 + 149	C147	13.8	0.0924	1 22	1 084
2.2',3,4',5',6 - HxCB	149	147 + 149	U147				

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Approved by

___QA/QC Chemist

01-03-2005 dd-mm-vyyy

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AXYS ANALYTICAL SERVICES LTD PO BOX 2210 2045 MILLS RD WEST, SIDNEY, B.C., CANADA VBL 358 FEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 16684-51,200 Page 1 of 6	PCB	Form 1A CONGENER ANALYSIS RE	PORT			CLIENT ID: LDW-C2-2-T	
				Sample Collecti	on:	26-Aug-2004	
Lab Name, AXYS ANALYTICAL S	ERVICES			Project Number	:	04 08 06 21	
Contract No.:	4033			Lab Sample ID:		L7510-10 W	
Matrix:	TISSUE			Sample Size:		10.2	g (wet)
Sample Receipt Date:	16-Dec-2004			Initial Calibratio	n Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005			Instrument ID:		HR GC/MS	
Analysis Date:	17-Feb-2005	Time: 3:56:52		GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	200			Sample Data File	ename:	PB5C_084 S:8	
Injection Volume (µL):	10			Blank Data Filen	ame:	PB5C_074 S:7	
Dilution Factor:	10			Cal. Ver. Data Fi	lename:	PB5C_084 S:1	
Concentration Units :	nq/kq (wet weight basis)						
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB 3 - MoCB 4 - MoCB 2,2' - DiCB 2,3 - DiCB 2,3' - DiCB 2,4 - DiCB 2,4 - DiCB 2,5 - DiCB 3,4' - DiCB 3,4' - DiCB 3,4' - DiCB 3,4' - DiCB 3,4' - DiCB 3,5 - DiCB 2,2',3 - TriCB 2,2',4 - TriCB 2,2',6 - TriCB	2 3 4 5 6 7 8 9 10 11	12 + 13 12 + 13 18 + 30					
2.3.3' - TriCB	20	20 + 28					

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Approved by Marin Alanda Chemist

01-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD R.0 BOY 2219 2045 MILLS RD WEST, SIDNEY, B.C. CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05

Form 1A

Page 2 of 6 Lab Sample ID L7510-10 W

COMPOUND	IUPAC NO.	CO-ELUTIONS
2,3.4 - TriCB	21	21 + 33
2.3,4' - TriCB	22	
2,3,5 - TriCB	23	
2,3.6 - TriCB	24	
2.3',4 - TriCB	25	
2.3'.5 - TriCB	26	26 + 29
2.3',6 - TriCB	27	
2,4,4' - TriCB	28	20 + 28
2,4,5 - TriCB	29	26 + 29
2,4,6 - TriCB	30	18 + 30
2,4',5 - TriCB	31	
2,4',6 - TriCB	32	
2',3,4 - TriCB	33	21 + 33
2',3,5 - TriCB	34	
3,3',4 - TriCB	35	
3,3',5 - TriCB	36	
3.4.4' - TriCB	37	
3,4,5 - TriCB	38	
3.4',5 - TriCB	39	10 . 11 . 71
2,2',3,3' - TeCB	40	40 + 41 + 71
2,2',3,4 - TeCB	41	40 + 41 + 71
2,2',3,4' - TeCB	42	
2.2',3,5 - TeCB	43 44	44 + 47 + 65
2,2',3,5' - TeCB 2,2',3,6 - TeCB	44 45	44 + 47 + 05 45 + 51
2,2',3,6' - TeCB	40 46	40 + 01
2,2',4,4' - TeCB	47	44 + 47 + 65
2,2',4,5 - TeCB	48	11.00
2,2',4,5' - TeCB	49	49 + 69
2,2',4,6 - TeCB	50	50 + 53
2,2',4,6' - TeCB	51	45 + 51
2,2',5,5' - TeCB	52	
2,2',5,6' - TeCB	53	50 + 53
2,2',6,6' - TeCB	54	
2,3,3',4 - TeCB	55	
2,3,3',4' - TeCB	56	
2.3.3'.5 - TeCB	57	
2.3.3'.5' - TeCB	58	
2,3,3',6 - TeCB	59	59 + 62 + 75
2.3.4.4' - TeCB	60	
2.3,4,5 - TeCB	61	61 + 70 + 74 + 76
2,3,4,6 - TeCB	62	59 + 62 + 75
2,3,4',5 - TeCB	63	

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LDW-C2-2-T

Project Number: 04-08-06-21 Sample Data Filename: PB5C_084 S:8

LAB	CONC.	DETECTION	ION ABUND.	RRT
FLAG ¹	FOUND	LIMIT	RATIO	

14743AD5_1 xls S4 Approved by ______QA/QC Chemist 01-03-2005 dd-mm-yyyy

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(250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1 CLIENT ID. LDW-C2-2-T

Form 1A

HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

			Sample Collection:		26-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-10	
Matrix:	TISSUE		Sample Size:		10.2	g (wet)
Sample Receipt Date:	16-Dec-2004		Initial Calibration D	ate:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 0:13:36	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filenam	e:	PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filena	ame:	PB5C_076 S:1	
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_076 S:5	
Concentration Units .	ng/kg (wet weight ba	asis)			PB5C_084 S:8	
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			2.01	0.0341		
				0.0041		
Total Dichloro Biphenyls			165	0.106		
Total Dichloro Biphenyls Total Trichloro Biphenyls			165 3130			
				0.106		
Total Trichloro Biphenyls			3130	0.106 0.141		
Total Trichloro Biphenyls Total Tetrachloro Biphenyls			3130 10100	0.106 0.141 0.569		
Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls			3130 10100 15000	0.106 0.141 0.569 0.532		
Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls			3130 10100 15000 15600	0.106 0.141 0.569 0.532 1.70		
Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls			3130 10100 15000 15600 6540	0.106 0.141 0.569 0.532 1.70 0 168		
Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls			3130 10100 15000 15600 6540 909	0.106 0.141 0.569 0.532 1.70 0 168 0.183		
Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls Total Nonachloro Biphenyls			3130 10100 15000 15600 6540 909 23.1	0.106 0.141 0.569 0.532 1.70 0.168 0.183 0.0308		

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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AXYS ANALYTICAL SERVICES LTD PO 807 2219, 2045 MILLS RD WEST SIDNEY 8 (CANADA V81 358 TEL (250) 655-5800 FA7 (250) 655-5801

AXYS METHOD MLA-010 Rev 05 19684-5 (2) (Page 1 of 6		Form 1A PCB CONGENER ANALYSIS R	EPORT	CLIENT ID: LDW-C4-T	
			Sample Collection	27-Aug-2004	
Lab Name: AXYS ANALYTICAL S	SERVICES		Project Number	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7510-11	
Matrix:	TISSUE		Sample Size:	10.1	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration D	Date: 04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 1:17:48	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filena	ame: PB5C_076 S:6	
Injection Volume (μL):	1 0		Blank Data Filenan	ne: PB5C_074 S:7	
Dilution Factor:	N/A		Cal. Ver. Data Filen	name: PB5C_076 S:1	

Concentration Units :

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ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		JB	0.971	0 0233	3.11	1 000
3 - MoCB	2		JB	0.316	0.0271	2.91	0.988
4 - MoCB	3		JB	0 711	0.0328	2.99	1.001
2,2' - DiCB	4		в	∠1 9	0.132	1.49	1,002
2,3 - DiCB	5		КJ	0 645	0.111	2.20	1,199
2,3' - DiCB	6		В	19 1	0.106	1.49	1.176
2,4 - DiCB	7			2.01	0.106	1.58	1.158
2,4' - DICB	8		в	45.2	0.0981	1.52	1.208
2,5 - DICB	9			2.97	0 105	1.62	1.146
2,6 - DICB	10		J	1 45	0.0986	1.44	1.014
3,3' - DICB	11		В	14 3	0 113	1.52	0.969
3,4 - DiCB	12	12 + 13	С	9.68	0 114	1.48	0 985
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		U		0.105		
4,4' - DiCB	15		В	59.7	0.136	1.51	1.002
2.2',3 - TriCB	16		В	94.4	0.0393	1.08	1.166
2.2",4 - TriCB	17		В	172	0.0364	1.06	1.139
2,2'.5 - TriCB	18	18 + 30	СВ	294	0.0294	1.06	1.113
2.2',6 - TriCB	19		В	38.0	0.0378	1.06	1.002
2.3.3' - TriCB	20	20 + 28	СB	833	0.182	1.00	0.848

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AXYS METHOD MLA-010 Rev 05

2 3 4' 5 - TeCB

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Form 1A Page 2 of 6

Lab Sa

LDW-C4-T

n 1A								
e 2 of 6					Project Numbe	r:	04-08-06-21	
Sample (D	Sample ID L7				Sample Data F	ilename	PB5C_076 S:6	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2,3,4 - TriCB	21	21 + 33	СВ	205	0 178	1.00	0 857
	2.3.4' - TriCB	22		В	203	0 196	0.99	0.872
	2,3,5 - TriCB	23		J	0.466	0 185	1.17	1.284
	2,3,6 - TriCB	24			3.76	0.0260	1.10	1 158
	2,3',4 - TriCB	25		В	141	0.164	0.99	0 825
	2.3',5 - TriCB	26	26 + 29	СВ	304	0.184	1 00	1.302
	2.3'.6 - TriCB	27		В	65.4	0.0248	1 06	1,152
	2,4.4' - TriCB	28	20 + 28	C20				
	2,4,5 - TriCB	29	26 + 29	C26				
	2,4.6 - TriCB	30	18 + 30	C18				
	2,4',5 - TriCB	31		В	575	0.177	1 00	0.836
	2,4',6 - TriCB	32		В	141	0.170	0.99	1,198
	2',3,4 - TriCB	33	21 + 33	C21				
	2',3,5 - TriCB	34			4.17	0.182	1.02	1.275
	3,3',4 - TriCB	35			9 93	0.212	1.01	0.985
	3,3',5 - TriCB	36		J	0 646	0 189	1.15	0.931
	3,4,4' - TriCB	37		В	199	0.225	0.99	1.001
	3,4,5 - TriCB	38		J	1 34	0.210	1.00	0.968
	3,4',5 - TriCB	39			5.74	0 190	0.91	0.947
	2,2',3,3' - TeCB	40	40 + 41 + 71	СВ	504	0 0399	0.79	1.338
	2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
	2,2',3,4' - TeCB	42		В	289	0.0409	0.79	1.313
	2,2',3,5 - TeCB	43		В	37.8	0.0446	0.79	1 247
	2,2',3,5' - TeCB	44	44 + 47 + 65	СB	1150	0.0362	0 79	1 287
	2,2',3,6 - IeCB	45	45 + 51	СВ	148	0.0381	079	1 147
	2,2',3,6' - TeCB	46			49.4	0.0448	0.79	1 162
	2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
	2,2',4,5 - TeCB	48		В	160	0.0388	0.79	1 275
	2.2',4.5' - TeCB	49	49 + 69	СB	893	0.0339	0.79	1.261
	2,2',4,6 - TeCB	50	50 + 53	СВ	171	0.0369	0.79	1.111
	2,2',4,6' - TeCB	51	45 + 51	C45				
	2,2',5,5' - ToCB	52		В	1900	0.0363	0.79	1.236
	2,2',5,6' - TeCB	53	50 + 53	C50				
	2,2',6,6' - TeCB	54			3.03	0 0325	0.78	1.001
	2,3,3',4 - TeCB	55			23.6	0.517	0 77	0.890
	2,3,3',4' - TeCB	56		В	529	0 528	0.76	0.905
	2,3,3',5 - TeCB	57			16.8	0 497	0 77	0.844
	2,3,3',5' - TeCB	58			9.62	0 493	0.75	0.851
	2,3,3',6 - TeCB	59	59 + 62 + 75	СВ	137	0.0302	079	1 303
	2,3,4,4' - TeCB	60		В	258	0.529	0 76	0 911
	2.3.4.5 - TeCB	61	61 + 70 + 74 + 76	СВ	1890	0 492	0.76	0.875
	2,3,4,6 - TeCB	62	59 + 62 + 75	C59	46.2	0.487	0.75	0.864
	224'5 TACD	62			48.3	11/187	11.75	D 86A

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0) AXYS ANALYTICAL SERVICES LTD 00 80% 2219 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05

Form 1A

Page 3 of 6 Lab Sample ID

L7510-11

Project Number. Sample Data Filename. 04-08-06-21 PB5C 076 S:6

LDW-C4-T

COMPOUND	NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND RATIO	RRT
2,3,4'.6 - TeCB	64		в	378 -	0.0299	0.79	1.350
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		В	1370	0.500	0.76	0.884
2,3',4,5 - TeCB	67			46.3	0 452	0.75	0.857
2,3',4,5' - TeCB	68			20 7	0 471	0 75	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			39.6	0.477	0.74	0.822
2,3'.5',6 - TeCB	73		U		0.0293		
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	Ũb1				
3,3',4,4' - TeCB	77		В	91.9	0.554	0.75	1.000
3,3'.4,5 - TeCB	78		U		0.592		
3,3',4,5' - TeCB	79			25.5	0.487	0.69	0 970
3,3',5,5' - TeCB	80		U		0.492		
3,4,4',5 - TeCB	81			4.55	0.517	0.74	1.000
2,2',3,3',4 - PeCB	82			199	0.503	1.59	0.933
2,2',3,3',5 - PeCB	83	83 + 99	СВ	1590	0 432	1.59	0 885
2,2',3,3',6 - PeCB	84		В	416	0.458	1.60	1.163
2.2',3.4.4' - PeCB	85	85 + 116 + 117	СВ	368	0.370	1.58	0.920
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	СВ	1220	0.371	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	СВ	310	0.396	1.59	1.154
2,2',3,4,6' - PeCB	89			16.8	0.431	1.57	1.183
2,2',3,4',5 - PeCB	90	90 + 101 + 113	СВ	2490	0.372	1.59	0.870
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		В	711	0.422	1.59	0.853
2.2',3.5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	СВ	1960	0.384	1.59	1 121
2,2',3,5,6' PoCB	94			11.6	0.411	1.60	1.103
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			10.3	0.0441	1.62	1.015
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4'.5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103			37.3	0.358	1.60	1.094
2,2',4,6,6' - PeCB	104		J	0.625	0.0525	1.36	1.001
2.3.3'.4.4' - PoCB	105		P	573	0.432	1 52	1 000

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2,3,3',4,5 - PeCB

Approved by:

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QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD PO. BOX 2219, 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

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AXYS METHOD MLA-010 Rev 05
Form 1A
Page 4 of 6

Lab Sample (D

L7510-11

CLIENT ID:

LDW-C4-T

Project Number Sample Data Filename 04-08-06-21 PB5C_076 S:6

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3,3',4',5 - PeCB	107	107 + 124	С	77 7	0.452	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			152	0.409	1.52	0.997
2.3.3',4',6 - PeCB	110	110 + 115	CE				
2,3,3'.5,5' - PeCB	111			3.36	0.328	1 46	0,945
2,3,3'.5,6 - PeCB	112		U		0.329		
2.3.3'.5'.6 - PeCB	113	90 + 101 + 113	C90				
2.3,4,4',5 - PeCB	114			36 3	0 426	1 54	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		В	1620	0.397	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			15.3	0.333	1.59	0.959
2,3',4,5',6 - PeCB	121		J	1 20	0.307	1.63	1 201
2',3,3',4,5 - PeCB	122			28.6	0.495	1.54	1.010
2',3.4,4',5 - PeCB	123			35,7	0.440	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			3.31	0.546	1.59	1.000
3.3',4.5,5' - PeCB	127			3.88	0.491	1.64	1 042
2.2',3.3',4.4' - HxCB	128	128 + 166	СВ	339	0 438	1.27	0.958
2,2',3,3',4.5 - HxCB	129	129 + 138 + 160 + 163	СВ	2590	0.421	1.26	0 928
2,2',3,3',4,5' - HxCB	130			214	0.532	1.26	0.913
2,2',3,3',4,6 - HxCB	131		_	26.1	0.459	1.25	1 160
2,2',3,3',4,6' - HxCB	132		В	705	0.480	1.27	1 174
2,2',3,3',5,5' - HxCB	133			87.4	0.468	1.26	1.191
2,2',3,3'.5,6 - HxCB	134	134 + 143	С	156	0 477	1.27	1.139
2.2'.3,3'.5.6' - HxCB	135	135 + 151 + 154	СB	1220	0 0878	1.28	1.104
2,2'.3,3',6,6' - HxCB	136		В	309	0.0670	1.28	1 024
2 2' 3 4 4' 5 - HxCB	137		0.1.00	123	0 491	1 26	0 918
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129	50.0	0.400	4.07	4 450
2,2',3,4,4',6 - HxCB	139	139 + 140	С	52.2	0.426	1.27	1.153
2,2',3,4.4',6' - HxCB	140	139 + 140	C139			4.00	0.000
2,2'.3,4.5.5' - HxCB	141		B	290	0 481	1.26	0.903
2,2',3.4,5,6 - HxCB	142		U		0 484		
2,2',3.4.5,6' - HxCB	143	134 + 143	C134		0.0010	4.07	4.404
2,2',3,4,5',6 - HxCB	144			114	0.0919	1.27	1 121 1 033
2,2',3,4,6,6' - HxCB	145		J	0.759	0 0680 0.428	1.27 1.26	0.884
2,2'.3,4',5,5' - HxCB	146	147 - 140	B	656			
2,2',3,4',5,6 - HxCB	147	147 + 149	СВ	2340 10 4	0 407 0 0914	1.27 1.28	1.133 1.084
2 2' 3.4' 5.6' - HxGB	148 149	147 + 149	C147	1(14	0.0814	1 20	1 004
2,2',3,4',5',6 - HxCB	40	140	0 (4)				

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AXYS ANALYTICAL SERVICES LTD R.0 BOX 22-19 2045 WHILS RD WEST SIDNEY B.C. CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS	ME	THOD	MLA-010	Rev	05
Form	1A				
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LDW-C4-T

1A								
5 OT 15					Project Numbe		04-08-06-21	
impie iD	∟7510-	11			Sample Data F	liename.	PB5C_076 S:6	
COMPOU		PAC 10.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2'.3,4',6,6' - Hx	(CB 1	50			5 78	0 0648	1.31	1.012
2,2',3,5,5',6 - Hx		51	135 + 151 + 154	C135				
2,2',3,5,6,6' - Hx		52			2.09	0.0629	1.25	1 006
2,2',4,4',5,5' - Hx		53	153 + 168	СВ	2800	0.365	1 26	0.899
2.2'.4.4'.5.6' - Hx	CB 1	54	135 + 151 + 154	C135				
2,2',4,4',6,6' - Hx	CB 1	55		J	0 475	0.0602	1 39	1 001
2,3,3',4,4',5 - Hx		56	156 + 157	СВ	201	0.474	1 26	1 000
2,3,3',4,4',5' - Hx	CB 1	57	156 + 157	C156				
2,3,3'.4,4'.6 - Hx	CB 1	58		В	238	0.350	1.27	0 937
2,3.3'.4.5.5' - Hx	CB 1	59		U		0.394		
2,3,3',4.5,6 - Hx	CB 1	60	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - Hx	CB 1	61		U		0.353		
2,3,3',4',5,5' - Hx		62			7.78	0.394	1.27	0.989
2,3,3',4',5,6 - Hx	CB 1	63	129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - Hx	CB 1	64		В	233	0.368	1.26	0.921
2,3,3',5,5',6 - Hx	CB 1	65			2.31	0.374	1.11	0.878
2,3,4,4',5,6 - Hx	CB 1	66	128 + 166	C128				
2,3',4,4',5,5' - Hx	CB 1	67		В	94.8	0.357	1.25	1.000
2,3',4,4',5',6 - Hx	CB 1	68	153 + 168	C153				
3,3',4,4',5,5' - Hx	CB 1	69		U		1 46		
2,2',3.3',4,4',5 - Hp	CB 1	70		В	281	0.114	1 06	0.936
2,2',3,3',4,4',6 - Hp		71	171 + 173	С	188	0.106	1.06	1.162
2,2',3,3',4,5,5' - Hp	CB 1	72			53.8	0.111	1.05	0 897
2,2',3,3',4,5,6 - Hp	CB 1	73	171 + 173	C171				
2,2',3,3',4,5,6' - Hp	CB 1	74		в	333	0.0940	1.06	1 133
2.2',3.3',4.5',6 - Hp	CB 1	75			38.0	0.0912	1.06	1 102
2,2',3,3',4.6,6' - Hp	CB 1	76			86.7	0.0671	1.08	1 034
2,2',3,3'.4',5.6 - Hp	CB 1	77		В	547	0.105	1.06	1.145
2,2',3.3',5.5',6 - Hp	CB 1	78			276	0.0945	1.07	1.085
2,2',3,3',5,6,6' - Hp	CB 1	79		В	318	0.0653	1 06	1.009
2,2',3,4,4',5,5' - Hp	CB 1	80	180 + 193	СВ	1130	0.0880	1.06	0.910
2,2',3.4.4',5,6 Hp	CB 1	81			1.16	0.0050	1.01	1.156
2,2',3,4,4',5,6' - Hp	CB 1	82			7.47	0.0941	1.04	1.116
2,2'.3,4,4'.5',6 - Hp	CB 1	83	183 + 185	СВ	484	0.0925	1.06	1 127
2.2',3.4.4'.6.6' - Hp	CB 1	84		KJ	0.639	0 0619	1.27	1.025
2.2',3,4,5,5',6 - Hp	CB 1	85	183 + 185	C183				
2,2'.3,4,5,6,6' - Hp	CB 1	86		U		0 0681		
2.2',3,4',5,5',6 - Hp	CB 1	87		В	1110	0.0861	1.06	1.110
2,2',3,4',5,6,6' - Hp	CB 1	88			2.00	0.0553	1.09	1.001
2,3.3'.4,4',5,5' - Hp		89			8.93	0.229	0.95	1.000
2.3,3',4,4',5,6 - Hp		90		В	91 9	0.0847	1.06	0 947
2,3,3',4,4',5',6 - Hp		91			27.3	0.0824	1 07	0.918
2,3,3'.4,5,5',6 - Hp	CB 1	92		U		0 0864		

01-03-2005 14743AD3_1 kis. S 1 Approved by ______QA/QC Chemist da-mm-yyyy

*** AXYS ANALYTICAL SERVICES LTD PO 807 2219, 2045 MILLS RD WEST, SIDNEY, B.C., CANADA V8L 3S8 FEL (250) 655-5800 FAX (250) 655-581 (

AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		LDW-C4-T	
Page 6 of 6	. 7510-11			Project Numbe Sample Data F		04-08-06-21 PB5C_076 S [.] 6	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3.3',4'.5.5'.6 - HpCB	193	180 + 193	C180				
2,2',3,3'.4,4',5,5' - OcCB	194		В	58.0	0 106	0.89	0.991
2,2',3,3',4,4',5,6 - OcCB	195		В	28.8	0 112	0.90	0.946
2,2',3,3',4,4',5,6' - OcCB	196		В	109	0.0060	0.90	0.916
2.2',3,3',4.4',6,6' - OcCB	197	197 + 200	С	21.0	0.0042	0.89	1.045
2,2',3,3',4.5,5',6 - OcCB	198	198 + 199	СВ	246	0.0060	0.92	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		В	54.2	0.0043	0.91	1 023
2,2',3,3'.5,5',6,6' - OcCB	202		В	116	0.0046	0.92	1 000
2,2',3,4,4',5,5',6 - OcCB	203		В	81.8	0.0055	0 90	0.920
2,2',3,4,4',5,6,6' - OcCB	204		KJB	0.049	0.0042	1.91	1 039
2,3,3`,4,4`,5.5`,6 - OcCB	205		В	4.90	0 0099	0.91	1.001
2,2',3,3',4,4',5,5',6 - NoCB	206		В	13 1	0.0374	0.75	1.000

J

в

В

1 57

4 45

4.80

(1) C = co-eluting congener. U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

These pages are part or a larger report that may contain information necessary for full data evaluation.

207

208

209

14743AD3_1 xls, S4

2,2',3,3',4,4',5,6.6' - NoCB

2,2',3,3',4,5,5',6,6' - NoCB

2,2',3,3',4,4',5,5',6,6' - DeCB

Approved by

QA/QC Chemist

0.0305

0.0323

0 0038

0.85

0.70

0.71

1 0 2 0

1.001

1.001

01-03-2005 da-mm-yyyy

1/2 AXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD WEST SIDNEY B.C. CANADA V81 358 TEL (250) 655-5800 FAX (250- 655-581)

	AXYS METHOD MLA-010 Rev 05 1668A-S1 205 Page 1 of 6	PCE	Form 1A CONGENER ANALYSIS RE	PORT			CLIENT ID: LDW-C4-T	
					Sample Collecti	on:	27-Aug-2004	
	Lab Name: AXYS ANALYTICAL S	ERVICES			Project Number	:	04 08 06 21	
ſ	Contract No.:	4033			Lab Sample ID:		L7510-11 W	
	Matrix:	TISSUE			Sample Size:		10.1	g (wet)
	Sample Receipt Date:	17-Dec-2004			Initial Calibratio	n Date:	04-Feb-2005	
•	Extraction Date:	27-Jan-2005			Instrument ID:		HR GC/MS	
	Analysis Date:	17-Feb-2005	Time: 5:01:09		GC Column ID:		SPB-OCTYL	
	Extract Volume (µL):	200			Sample Data Fil	ename:	PB5C_084 S:9	
	Injection Volume (μL):	10			Blank Data Filer	iame:	PB5C_074 S:7	
	Dilution Factor:	10			Cal. Ver. Data Fi	lename:	PB5C_084 S:1	
	Concentration Units :	ng/kg (wet weight basis)						
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2 - MoCB 3 - MoCB 4 - MoCB 2,2' - DiCB 2,3 - DiCB 2,3' - DiCB 2,4 - DiCB 2,4 - DiCB 2,5 - DiCB 2,5 - DiCB 3,3' - DiCB 3,4' - DiCB 3,4' - DiCB 3,4' - DiCB 3,4' - DiCB 3,5 - DiCB 2,2',3 - TriCB 2,2',5 - TriCB 2,2',5 - TriCB 2,3,3' - TriCB	2 3 4 5 6	12 + 13 12 + 13 18 + 30 20 + 28					

14743AD5_1 xls_S5

HUNSHWM QA/QC Chemist Approved by

01-03-2005 dd-mm-yyyy

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(250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 Form 1A Page 2 of 6 Lab Sample ID ⊾7516-11 ₩

COMPOUND		CO-ELUTIONS
	NO.	
2.3,4 - TriCB	21	21 + 33
2,3,4' - TriCB	22	
2,3,5 - TriCB	23	
2.3,6 - TriCB	24	
2.3'.4 - TriCB	25	
2.3'.5 - TriCB	26	26 + 29
2,3',6 - TriCB	27	
2.4,4' - TriCB	28	20 + 28
2,4,5 - TriCB	29	26 + 29
2,4,6 - TriCB	30	18 + 30
2,4',5 - TriCB	31	
2,4',6 - TriCB	32	
2',3,4 - TriCB	33	21 + 33
2',3,5 - TriCB	34	
3,3',4 - TriCB	35	
3,3',5 - TriCB	36	
3,4,4' - TriCB	37	
3.4,5 - TriCB	38	
3,4 ' ,5 - TriCB	39	
2,2',3,3' - TeCB	40	40 + 41 + 71
2,2',3,4 - TeCB	41	40 + 41 + 71
2,2',3,4' - TeCB	42	
2.2',3,5 - TeCB	43	
2,2',3,5' - TeCB	44	44 + 47 + 65
2,2',3,6 - TeCB	45	45 + 51
2,2',3,6' - TeCB	46	
2.2',4.4' - TeCB	47	44 + 47 + 65
2,2'.4,5 - TeCB	48	
2.2',4,5' - TeCB	49	49 + 69
2.2',4,6 - TeCB	50	50 + 53
2.2'.4,6' - TeCB	51	45 + 51
2,2',5,5' - TcCB	52	
2,2',5,6' - TeCB	53	50 + 53
2,2',6,6' - TeCB	54	
2.3.3',4 - TeCB	55	
2,3,3',4' - TeCB	56	
2,3,3',5 - TeCB	57	
2.3.3',5' - TeCB	58	
2,3,3',6 - TeCB	59	59 + 62 + 75
2,3,4.4' - TeCB	60	
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76
2,3,4,6 - TeCB	62	59 + 62 + 75
2.3.4',5 - ToCB	63	

CLIENT ID:

LDW-C4-T

Project Number 04-08-06-21 Sample Data Filename: PB5C_084 S:9

LAB	CONC.	DETECTION	ION ABUND.	RRT
FI AG ¹	FOUND	LIMIT	RATIO	

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Approved by

___QA/QC Chemist

01-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD PO 807 2219 2045 MILLS RD WEST SIDNEY B L. CANADA VBI 358 TEI (250) 655-5800 FAX (250) 655-5811

11

AXYS METHOD MLA-010 Rev 05 Form 1A Page 3 of 6

2,3,3'.4,5 - PeCB

106

Lab Sample ID

L7510-11 W

CLIENT	ID.
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LDW-C4-T

Project Number Sample Data Filename. 04-08-06-21 PB5C_084 S:9

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3.4'.6 - TeCB	64						
2.3,5,6 - TeCB	65	44 + 47 + 65					
2,3',4,4' - TeCB	66						
2.3'.4.5 - TeCB	67						
2.3'.4.5' - TeCB	68						
2.3',4,6 - TeCB	69	49 + 69					
2,3',4',5 - TeCB	70	61 + 70 + 74 + 76					
2,3',4',6 - TeCB	71	40 + 41 + 71					
2,3',5,5' - TeCB	72						
2,3',5',6 - TeCB	73						
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76					
2,4,4',6 - TeCB	75	59 + 62 + 75					
2',3,4,5 - TeCB	76	61 + /0 + /4 + /6					
3.3',4,4' - TeCB	77						
3,3',4,5 - TeCB	78						
3,3',4,5' - TeCB	79						
3.3',5,5' - TeCB	80						
3,4.4',5 - TeCB	81						
2,2',3,3',4 - PeCB	82						
2,2',3,3',5 - PeCB	83	83 + 99					
2,2',3,3',6 - PeCB	84						
2,2',3,4,4' - PeCB	85	85 + 116 + 117					
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125					
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125					
2,2',3,4,6 - PeCB	88	88 + 91					
2,2',3,4,6' - PeCB	89						
2,2',3,4',5 - PeCB	90	90 + 101 + 113					
2,2',3.4',6 - PeCB	91	88 + 91					
2,2',3.5,5' - PeCB	92						
2.2'.3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102					
2,2',3.5,6' PeCB	04						
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102					
2.2',3,6,6' - PeCB	96						
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125					
2,2',3'.4.6 - PeCB	98	93 + 95 + 98 + 100 + 102					
2.2',4.4',5 - PeCB	99	83 + 99					
2,2',4.4',6 - PeCB	100	93 + 95 + 98 + 100 + 102					
2.2'.4.5.5' - PeCB	101	90 + 101 + 113					
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102					
2,2',4,5',6 - PeCB	103						
2.2',4,6.6' - PeCB	104						
2,3.3',4.4' - PoCB	105						
	100						

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*** AXYS ANALYTICAL SERVICES LTD PO 80X 2219, 2045 MILLS RD, WEST SIDNEY B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-581

AXYS METHOD MLA-010 Rev 05		CLIENT ID:	LDW-C4-T
Form 1A			
Page 4 of 6		Project Number.	04-08-06-21
Lab Sample ID	L7510-11 W	Sample Data Filename	PB5C_084 S:9

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COMPOLIND	ΗΡΔΟ ΝΟ.	CO-FLUTIONS	I AB FLAG ¹	CONC. FOUND	DFTECTION	ION ABUND RATIO	RRT
2,3,3',4',5 - PeCB	107	107 + 124					
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125					
2.3.3',4,6 - PeCB	109						
2,3,3',4',6 - PeCB	110	110 + 115	CDB	2390	7.17	1.60	0.925
2.3.3'.5.5' - PeCB	111						
2,3,3',5,6 - PeCB	112						
2.3.3',5',6 - PeCB	113	90 + 101 + 113					
2,3.4.4',5 - PeCB	114						
2.3,4.4',6 - PeCB	115	110 + 115	C110				
2,3.4.5,6 - PeCB	116	85 + 116 + 117					
2,3,4',5,6 - PeCB	117	85 + 116 + 117					
2,3',4,4',5 - PeCB	118						
2,3',4.4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125					
2,3',4,5,5' - PeCB	120						
2,3'.4,5',6 - PeCB	121						
2',3,3',4,5 - PeCB	122						
2',3,4,4',5 - PeCB	123						
2',3,4,5,5' - PeCB	124	107 + 124					
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125					
3,3',4,4',5 - PeCB	126						
3,3',4.5,5' - PeCB	127	100 - 100					
2,2',3,3',4,4' - HxCB	128	128 + 166					
2,2',3.3',4,5 - HxCB	129 130	129 + 138 + 160 + 163					
2,2',3,3',4,5' - HxCB 2,2',3,3',4,6 - HxCB	131						
2,2',3,3',4,6' - HxCB	132						
2,2',3,3',5,5' - HxCB	133						
2,2',3,3',5,6 - HxCB	134	134 + 143					
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154					
2,2',3,3',6,6' - HxCB	136						
2,2',3,4,4',5 - H×CB	137						
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163					
2,2',3,4,4',6 - HxCB	139	139 + 140					
2.2'.3,4,4',6' - HxCB	140	139 + 140					
2,2'.3,4,5,5' - HxCB	141						
2,2'.3.4,5,6 - HxCB	142						
2,2',3.4,5.6' - HxCB	143	134 + 143					
2,2',3.4,5',6 - HxCB	144						
2.2'.3,4.6,6' - HxCB	145						
2,2',3.4',5,5' - HxCB	146						
2.2',3,4',5,6 - HxCB	147	147 + 149					
2.2',3.4'.5.6' - HyCB	148	447 - 440					
2.2'.3.4'.5'.6 - HxCB	149	147 + 149					

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AXYS ANALYTICAL SERVICES LTD PO. BOX 2219, 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05	
Form 1A	
Page 5 or 6	
Lab Sample ID	∟7510-11 W

COMPOUND	IUPAC NO.	CO-ELUTIONS
2,2',3,4',6,6' - HxCB	150	
2,2',3,5.5'.6 - HxCB	151	135 + 151 + 154
2,2',3,5,6,6' - HxCB	152	
2,2',4,4',5,5' - HxCB	153	153 + 168
2,2',4,4',5,6' - HxCB	154	135 + 151 + 154
2.2'.4,4'.6.6' - HxCB	155	
2,3,3',4,4',5 - HxCB	156	156 + 157
2,3,3',4,4',5' - HxCB	157	156 + 157
2,3,3',4,4',6 - HxCB	158	
2,3,3',4,5,5' - HxCB	159	
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163
2,3,3',4,5',6 - HxCB	161	
2,3,3',4',5,5' - HxCB	162	
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163
2,3,3',4',5',6 - HxCB	164	
2,3,3',5,5',6 - HxCB	165	
2,3,4,4',5,6 - HxCB	166	128 + 166
2,3',4,4',5,5' - HxCB	167	
2,3',4,4',5',6 - HxCB	168	153 + 168
3,3',4,4',5,5' - HxCB	169	
2,2',3,3',4,4',5 - HpCB	170	
2,2',3,3',4,4',6 - HpCB	171	171 + 173
2,2',3,3',4,5,5' - HpCB	172	
2,2',3,3',4,5,6 - HpCB	173	171 + 173
2,2',3,3',4,5,6' - HpCB	174	
2,2',3,3',4,5',6 - HpCB	175	
2,2',3,3',4.6,6' - HpCB	176	
2,2',3,3',4',5,6 - HpCB	177	
2,2',3,3',5,5',6 - HpCB	178	
2,2',3.3',5,6,6' - HpCB	179	400 + 400
2,2',3,4,4',5,5' - HpCB	180 181	180 + 193
2,2',3,4,4',5,0 - НрСВ 2,2',3,4,4',5,6' - НрСВ	182	
2,2',3,4,4',5',6 - HpCB	183	183 + 185
2,2',3,4.4'.6,6' - HpCB	184	100 - 100
2,2',3,4,5,5',6 - HpCB	185	183 + 185
2,2',3,4,5,6,6' - HpCB	186	100 - 100
2,2',3,4',5,5',6 - HpCB	187	
2.2',3.4',5.6.6' - HpCB	188	
2.3,3',4,4'.5,5' - HpCB	189	
2,3,3',4,4',5,6 - HpCB	190	
2,3,3',4,4',5',6 - HpCB	191	
2.3.3'.4.5.5',6 HpCB	102	
· •		

CLIENT ID:

LDW-C4-T

Project Number: 04-08-06-21 Sample Data Filename PB5C_084 S:9

LAB	CONC.	DETECTION	ION ABUND.	RRT
FLAG	FOUND	LIMIT	RATIO	

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Approved by _

____QA/QC Chemist

01-03-2005 dd-mm-vyyy

AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		LDW-C4-T	
Page 6 of 6 Lab Sample ID	ر7510-11 VV			Project Number Sample Data Fi		04-08-06-21 PB5C_084 S:9	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3,3'.4',5.5',6 - HpCB	193	180 + 193					
2,2',3,3',4,4',5,5' - OcCB	194						
2.2',3,3'.4,4',5,6 - OcCB	195						
2,2',3,3',4,4',5,6' - OcCB	196						
2.2'.3,3',4.4'.6,6' - OcCB	197	197 + 200					
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199					
2,2',3,3',4,5,5',6' - OcCB	199	198 + 199					
2,2',3,3',4,5.6,6' - OcCB	200	197 + 200					
2,2',3,3',4.5',6,6' - OcCB	201						
2,2',3,3',5,5',6,6' - OcCB	202						
2,2',3,4,4',5,5',6 - OcCB	203						
2,2',3,4.4',5,6,6' - OcCB	204						
2,3,3',4,4',5,5',6 - OCCB	205						

(1) C = co-eluting congener: U = not detected. K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data, D = dilution data; Z = compound not requested, J = concentration less than LMCL. B = analyte found in sample and the associated blank; X = results reported separately

I hese pages are part of a larger report that may contain information necessary for full data evaluation.

206

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208

209

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2,2',3,3',4,4',5,5',6 - NoCB

2,2',3,3',4,4',5,6,6' - NoCB

2,2',3,3',4,5,5',6,6' - NoCB

2,2',3,3',4,4',5,5',6,6' - DeCB

Approved by _

QA/QC Chemist

01-03-2005 dd-mm-vyyy

See in

(. (ANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-581

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID: LDW-C4-T

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

			Sample Collection:		27-Aug-2004	
Lab Name: AXYS ANALYTICAL S	ERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-11	
Matrix:	TISSUE		Sample Size:		10.1	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration Dat	e:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 1:17:48	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename:		PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filenar	ne:	PB5C_076 S:1	
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_076 S:6 PB5C_084 S:9	
Concentration Units :	ng/kg (wet weight ba	sis)			PB30_004 3.9	
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			2.00	0.0328		
Total Dichloro Biphenyls			176	0.136		
Total Trichloro Biphenyls			3290	0.225		
Total Tetrachloro Biphenyls			10200	0.592		
Total Pentachloro Biphenyls			14300	0.546		
Total Hexachloro Biphenyls			12800	1.46		
Total Heptachloro Biphenyls			4990	0.229		
Total Octachloro Biphenyls			719	0.112		
Total Nonachloro Biphenyls			19.1	0.0374		
Decachloro Biphenyl			4.80	0.0038		
TOTAL PCBs			46500			

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

4743PCBTOTAL + KIS S16

1 MMM MAL QA/QC Chemist Approved by:

02**-**03-2005 ad-mm-yyyy

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€ AXYS ANALYTICAL SERVICES LTD R.0 80x 2219 2045 MILLS RD. WEST, SIDNEY, B.C. CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 PCB-TEG-DL III Page 1 of 1

CLIENT ID: LDW-C4-T

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

Concentration Units :	ng/kg (wet we	eight basis)	Sample Datafile(s):	PB5C_076 S:6
Sample Size:	10 1	g (wet)	GC Column ID(s):	SPB-OCTYL
Matrix:	TISSUE		Lab Sample ID:	L7510-11
Contract No.:	4033		Project Number:	04-08-06-21
Lab Name: AXYS ANALYTICAL SE	Sample Collection:	27-Aug-2004		

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			91,9	0.554	0.0001	9 19E-03	9.19E-03
3,4,4',5-TetraCB	81			4.55	0.517	0.0001	4 55E-04	4.55E-04
2,3,3',4,4'-PentaCB	105			573	0 432	0.0001	5 73E-02	5.73E-02
2,3,4,4',5-PentaCB	114			36.3	0 426	0.0005	1.81E-02	1.81E-02
2,3',4,4',5-PentaCB	118			1620	0.397	0.0001	1.62E-01	1.62E-01
2',3,4,4',5-PentaCB	123			35.7	0.440	0.0001	3.57E-03	3.57É-03
3,3',4,4',5-PentaCB	126			3.31	0.546	0 1	3.31E-01	3.31E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	201	0.474	0.0005	1.00E-01	1.00E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			94.8	0 357	0.00001	9.48E-04	9.48E-04
3,3',4,4',5,5 '- HexaCB	169		U		1 46	0.01	7.32E-03	0 00E+00
2,3,3',4,4',5,5'-l l e ptaCB	180			8.03	0.229	0.0001	8.93⊑-04	8.93E-04

TOTAL TEQ 0.691 0.684

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

(4743PCETEQ_1 kis_S15 (TEQ)

Mille Multi QAVQC Chemist Approved by._

02-03-2005 dd-mm-yyyy

AXYS ANALYTICAL SERVICES LTD = 0 80% 2219 2045 MILLS RD. WEST, SIDNEY B.C., CANADA VOL 358 TEL: (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 1668A-S1 209 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-C6-T	
			Sample Collection:	26-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	⊾7510-12	
Matrix:	TISSUE		Sample Size:	10.3	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 2:22:00	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_076 S:7	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_074 S:7	

Dilution Factor: Concentration Units :

ng/kg (wet weight basis)

N/A

IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
1		В	2.47	0.0276	3.22	1.001
2		JB	0.847	0.0331	3.47	0.988
3		JB	1.23	0.0413	3.37	1.001
4		в	32.5	0.116	1.49	1.001
5		J	0.907	0.0982	1.77	1,198
6		В	27.3	0.0939	1.51	1.176
7			2.63	0.0936	1.42	1.158
8		В	50 9	0.0870	1.51	1 207
9			4.35	0.0934	1.52	1.146
10		J	1.75	0.0874	1.63	1.013
11		R	18 7	0.100	1 51	0.969
12	12 + 13	С	12.3	0.101	1.53	0.984
13	12 + 13	C12				
14		J	0.115	0.0930	1.44	0.926
15		В	59.3	0.122	1.49	1.001
16		В	102	0.0499	1.06	1.166
17		В	206	0.0461	1.07	1.139
18	18 + 30	СВ	370	0.0372	1.06	1.113
19		В	48 0	0.0458	1.08	1.001
20	20 + 28	СB	865	0.257	1.00	0.849
	NO.	NO. 1 2 3 4 5 6 7 8 9 10 11 12 12+13 13 12+13 14 15 16 17 18 18+30 19	NO. FLAG ¹ 1 B 2 JB 3 JB 4 B 5 J 6 B 7 B 9 J 10 J 11 R 12 12+13 13 12+13 14 J 15 B 16 B 17 B 18 18+30 19 B	NO. FLAG ¹ FOUND 1 B 2.47 2 JB 0.847 3 JB 1.23 4 B 32.5 5 J 0.907 6 B 27.3 7 2.63 2.63 8 B 509 9 4.35 10 10 J 1.75 11 R 18.7 12 12+13 C 12.3 13 12+13 C12 12.3 14 J 0.115 15 15 B 59.3 16 16 B 102 17 17 B 206 18 18 18+30 C B 370 19 B 48.0 14.0	NO. FLAG ¹ FOUND LIMIT 1 B 2.47 0.0276 2 JB 0.847 0.0331 3 JB 1.23 0.0413 4 B 32.5 0.116 5 J 0.907 0.0982 6 B 27.3 0.0939 7 2.63 0.0936 8 2.63 0.0936 9 4.35 0.0934 10 J 1.75 0.0874 11 R 18.7 0.101 12 12 + 13 C1 12.3 0.101 13 12 + 13 C12 12.4 0.115 0.0930 15 B 59.3 0.122 14 J 0.115 0.0930 15 B 102 0.0499 17 B 206 0.0461 18 18 + 30 C B 370 0.0372 19 10.458 10.458	NO. FLAG ¹ FOUND LIMIT RATIO 1 B 2.47 0.0276 3.22 2 JB 0.847 0.0331 3.47 3 JB 1.23 0.0413 3.37 4 B 32.5 0.116 1.49 5 J 0.907 0.0982 1.77 6 B 27.3 0.0939 1.51 7 2.63 0.0936 1.42 8 2.63 0.0934 1.52 10 J 1.75 0.0874 1.63 11 R 187 0.101 1.53 12 12 + 13 C12 1.44 15 J 0.115 0.0930 1.44 15 B 59.3 0.122 1.49 16 B 59.3 0.122 1.49 16 B 102 0.0499 1.06 17 B 206 0.046

Cal. Ver. Data Filename:

PB5C_076 S:1

14743AD3_1 xis. S5

Approved by. Market Market QAVQC Chemist

01-03-2005 dd-mm-yyyy

AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219 2045 MILLS RD, WEST, SIDNEY, B.L. (ANADA V8L 3S8 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05

Form 1A

Page 2 of 6 Lab Sample LDŴ-C6-T

					Project Numbe	en.	04-08-06-21	
t 6 pie ID	L	7510-12			Sample Data F		PB5C_076 S:7	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2.3.4 - TriCB	21	21 + 33	СВ	217	0.252	0.99	0.857
	2,3,4' - TriCB	22		В	203	0.277	1.01	0.872
	2,3.5 - TriCB	23		J	0.488	0.261	1.09	1 283
	2.3,6 - TriCB	24			4.40	0.0330	1.03	1.158
	2.3',4 - TriCB	25		В	161	0.231	1.00	0.825
	2,3',5 - TriCB	26	26 + 29	СB	358	0.259	1.00	1 302
	2.3',6 - TriCB	27		В	83.7	0.0314	1.05	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		В	652	0.250	1 00	0.837
	2.4',6 - TriCB	32		В	167	0.240	1.00	1,197
	2',3,4 - TriCB	33	21 + 33	C21				
	2',3,5 - TriCB	34			5.20	0.257	1.00	1.274
	3,3',4 - TriCB	35			117	0.300	1.00	0 985
	3,3',5 - TriCB	36		KJ	0.939	0.268	0.82	0.932
	3,4,4' - TriCB	37		В	173	0.328	1.00	1 001
	3,4,5 - TriCB	38		KJ	1 30	0.297	1.33	0,969
	3,4',5 - TriCB	39			6.99	0.269	0.94	0.947
	2,2',3,3' - TeCB	40	40 + 41 + 71	СB	569	0.0618	0 79	1.338
	2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
	2,2'.3,4' - TeCB	42		В	317	0 0632	0.79	1.313
	2,2',3,5 - TeCB	43		В	47.8	0 0690	0.79	1.247
	2,2',3,5' - TeCB	44	44 + 47 + 65	СВ	1370	0.0560	0.79	1,287
	2,2',3,6 - TeCB	45	45 + 51	СВ	181	0.0590	0.79	1.147
	2,2',3,6' - TeCB	46			60.0	0.0693	0.80	1.161
	2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
	2,2',4,5 - TeCB	48		В	189	0.0600	0.79	1 275
	2,2',4,5' - TeCB	49	49 + 69	СВ	1110	0.0525	0 79	1.260
	2,2',4,6 - TeCB	50	50 + 53	СВ	220	0.0571	0 79	1.111
	2,2',4,6' - TeCB	51	45 + 51	C45				
	2.2',5.5' • TeCB	52		в	2360	0.0562	0 70	1.236
	2,2',5,6' - TeCB	53	50 + 53	C50				
	2.2'.6.6' - TeCB	54			4.74	0.0474	0.77	1.002
	2,3.3',4 - TeCB	55			18.2	0.452	0.76	0.890
	2,3,3',4' - TeCB	56		В	520	0.461	0.76	0.905
	2,3,3',5 - TeCB	57			16 4	0 434	0.75	0.844
	2,3,3',5' - TeCB	58			10.9	0 430	0.74	0.852

01-03-2005 14743AD3_1 xls. S5 Approved by:_ QA/QC Chemist da-mm-yyyy

СВ

В

СВ

C59

163

224

2080

49.2

0.0467

0.462

0 429

0.425

59 + 62 + 75

61 + 70 + 74 + 76

59 + 62 + 75

2.3.3'.6 - TeCB

2,3,4,4' - TeCB

2.3.4.5 - TeCB

2,3,4,6 - TeCB

2.3.4',5 TeCB

59

60

61

62

63

0.79

0.75

0.76

0 77

1.303

0 911

0.875

0.865

AXYS METHOD MLA-010 Rev 05 Form 1A

L7510-12

Page 3 of 6

Lab Sample ID

CLIENT ID:

∟DW-C6-T

Project Number Sample Data Filename 04-08-06-21 PB5C_076 S:7

COMPOLIND	NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4',6 - TeCB	64		В	435	0 0463	0.79	1.349
2,3.5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		В	1430	0 436	0.76	0.885
2,3'.4,5 - TeCB	67			51 2	0 395	0.76	0.857
2.3',4,5' - TeCB	68			22.4	0.411	0.75	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			44.6	0.416	0.74	0.823
2,3',5',6 - TeCB	73		U		0.0453		
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	Cb1				
3.3',4,4' - TeCB	77		В	87.4	0.512	0.75	1 000
3,3 ',4,5 - TeCB	78		U		0.517		
3,3'.4,5' - TeCB	79			28.5	0.425	0.71	0 971
3,3',5,5' - TeCB	80		U	4.40	0.429	0.74	4.004
3,4,4',5 - TeCB	81		К	4.18	0.451	0.74	1 001
2,2',3,3',4 - PeCB	82			207	0.244	1.57	0.933
2,2',3,3',5 - PeCB	83	83 + 99	СВ	1670	0.210	1 59	0.885
2,2',3,3',6 - PeCB	84		В	410	0.222	1.59	1.162
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СВ	401	0.179	1.59	0.919
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CB	1310	0.180	1.58	0.901
2.2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125 88 + 91	C80 C B	320	0 192	1.59	1,154
2,2',3,4,6 - PeCB	88	88 + 91	СB			1.59	1.134
2,2',3,4,6' - PeCB	89	00 + 404 + 442	C D	20 6 2650	0.209		0.869
2.2',3,4',5 - PeCB	90	90 + 101 + 113	CB	2000	0.181	1 59	0.009
2,2',3,4',6 - PeCB	91	88 + 91	C88 B	752	0.205	1.59	0.853
2,2',3,5,5' - PeCB	92	00 + 05 + 00 + 400 + 400	СВ	2050	0.186	1.59	1.120
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CB	2050 12 7	0.199	1.39	1.120
2,2',3,5,6' PoCB	94 95	93 + 95 + 98 + 100 + 102	C93	127	0.199	1.49	1 102
2,2',3,5',6 - PeCB 2,2',3,6,6' - PeCB	95 96	93 + 93 + 96 + 100 + 102	095	13 4	0 0601	1.59	1,015
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86	10 4	0.0001	1.00	1.010
2,2',3',4,5 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99 99	83 + 99	C83				
	100	93 + 95 + 98 + 100 + 102	C93				
2,2'.4.4',6 - PeCB 2,2'.4.5.5' - PeCB	100	90 + 101 + 113	C90				
2,2'.4,5,6' - PeCB 2,2'.4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4.5'.6 - PeCB	102	00 00 00 100 102	000	36 8	0 174	1 60	1 094
2,2',4,6,6' - PeCB	104		J	0 795	0 0701	1 67	1 001
2.3.3'.4.4' PoCB	105		B	643	0 338	1.53	1 000
2,3,3',4,5 - PeCB	106		U		0.326		

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Approved by ____

QA/QC Chemist

01-03-2005 dd-mm-yyyy

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MAXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD. WEST, SIDNEY, B.C., (ANADA VBI 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 Form 1A

L7510-12

Page 4 of 6

Lab Sample ID

LDW-C6-T

Project Number. Sample Data Filename 04-08-06-21 PB5C 076 S:7

COMPOUND	NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3.3',4'.5 - PeCB	107	107 + 124	С	85.3	0 330	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			157	0.299	1.53	0.997
2,3,3',4',6 - PeCB	110	110 + 115	СВ	2520	0 157	1 59	0.925
2.3.3',5.5' - PeCB	111			3 46	0 159	1 39	0.945
2.3.3',5,6 - PeCB	112		U		0 160		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4.4',5 - PeCB	114			40.2	0.307	1 50	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		В	1780	0.282	1.52	1.000
2.3',4,4',6 - PeCB	119	86 + 8/ + 9/ + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120			16.0	0.162	1.55	0.959
2,3',4,5',6 - PeCB	121		KJ	1 43	0.149	1 85	1.200
2',3,3',4,5 - PeCB	122			33.0	0.362	1 51	1.010
2',3,4.4',5 - PeCB	123			44.0	0.318	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			4 15	0.419	1.47	1.000
3,3',4,5,5' - PeCB	127			4.75	0.359	1.51	1.042
2,2',3,3',4,4' - HxCB	128	128 + 166	СB	355	0 438	1.27	0.958
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СB	2910	0 421	1.27	0.929
2,2'.3,3',4,5' - HxCB	130			240	0.532	1.26	0.913
2.2',3,3',4,6 - HxCB	131			27.0	0 458	1.25	1.159
2,2'.3.3',4,6' - HxCB	132		в	750	0 479	1.26	1.174
2,2',3,3',5,5' - HxCB	133			101	0 467	1.26	1.191
2,2'.3,3'.5,6 - HxCB	134	134 + 143	С	173	0.476	1.27	1.139
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	СB	1400	0 105	1 27	1 104
2,2',3,3',6,6' - HxCB	136		В	324	0.0802	1.27	1.023
2,2',3,4,4',5 HxCB	137			147	0.491	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	С	57 1	0.426	1 29	1.153
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2',3,4,5,5' - HxCB	141		в	373	0 480	1.26	0.903
2,2',3,4,5.6 - HxCB	142		U		0.484		
2,2',3,4,5,6' - HxCB	143	134 + 143	C134				
2,2',3,4,5'.6 - HxCB	144			130	0 1 10	1.27	1.121
2,2',3,4,6,6' - HxCB	145		J	0.967	0 0814	1.13	1.033
2,2'.3,4'.5.5' - HxCB	146		В	743	0 428	1 26	0.884
2,2',3,4',5,6 - HxCB	147	147 + 149	СB	2480	0 407	1.28	1.133
2,2',2,4'.5,6' H×CB	118			13.0	0 109	1.31	1 084
2.2',3,4'.5'.6 - HxCB	149	147 + 149	C147				

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Approved by._____

QA/QC Chemist

01-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 NILLS RD WEST SIDNEY B.C. CANADA V8L 858 TEL (250) 655-5800 FAX (250) 655-5

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID. LDW-C6-T

Form 1A

HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

			Sample Collection:		26-Aug-2004	
Lab Name: AXYS ANALYTICAL S	SERVICES		Project Number:	04-08-06-21		
Contract No.:	4033		Lab Sample ID:		L7510-12	
Matrix:	TISSUE		Sample Size:		10.3	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration Da	ite:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 2:22:00	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename		PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filename:			
Dilution Factor:	N/A		Sample Datafile(s):	PB5C_076 S:7		
Concentration Units :	ng/kg (wet weight ba	sis)				
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			4.54	0.0413		
Total Dichloro Biphenyls			211	0.122		
Total Trichloro Biphenyls			3640	0.328		
Total Tetrachloro Biphenyls			11600	0.517		
lotal Pentachloro Biphenyis			15200	0.419		
Total Hexachloro Biphenyls			14300	2.08		
Total Heptachloro Biphenyls			6160	0.259		
Total Octachloro Biphenyls			956	0.102		
Total Nonachloro Biphenyls			27.4	0.0532		
Decachloro Biphenyl			3.17	0.0039		
TOTAL PCBs			52100			

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743PCBTOTAL ' XIS S17

Main Alarhavac Chemist Approved by:

02-03-2005 dd-mm-yyyy

AXYS ANALYTICAL SERVICES LTD PO BOX 2210 2045 MILLS RD. WEST SIDNEY B.C., CANADA VBI 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 16584-51 209 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-C7-T1	
			Sample Collection:	26-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7510-13	
Matrix:	TISSUE		Sample Size:	10 1	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 3:26:11	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_076 S:8	
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N ₂ A		Cal. Ver. Data Filename:	PB5C_076 S:1	

Concentration Units ·

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		В	2.76	0.0282	3.31	1.001
3 - MoCB	2		JB	0.665	0.0327	3.06	0.988
4 - MoCB	3		JB	1.24	0.0393	3.23	1.001
2,2' - DiCB	4		В	80.4	0.116	1.49	1 001
2,3 - DiCB	5		J	1.66	0.0956	1 68	1.197
2,3' - DiCB	6		В	155	0.0915	1.51	1 176
2,4 - DiCB	7			7 49	0.0911	1 56	1 158
2.4' - DiCB	8		В	117	0.0847	1.50	1 207
2,5 - DiCB	9			10.1	0.0910	1.47	1.146
2,6 - DiCB	10			4.75	0.0851	1.55	1.013
3,3" - DICB	11		В	33.8	0.0075	1.10	0.969
3,4 - DiCB	12	12 + 13	С	51.9	0.0981	1.46	0.984
3,4' - DiCB	13	12 + 13	C12				
3.5 - DiCB	14		J	0.393	0 0906	1.47	0 926
4,4' - DiCB	15		В	109	0 1 1 6	1 48	1 001
2,2',3 - TriCB	16		В	176	0 0348	1 08	1 165
2.2',4 - TriCB	17		В	699	0.0322	1 07	1.139
2,2',5 - TriCR	18	18 + 30	СВ	1740	0.0260	1.06	1 1 1 3
2,2',6 - TriCB	19		В	312	0.0331	1 06	1.001
2.3,3' - TriCB	20	20 + 28	СВ	1950	0.526	0.99	0 848

14743AD3 NIS S6

Approved by Mill Mill Africa QA/QC Chemist

01-03-2005 dd-mm-yyyv

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD. WEST, SIDNEY B (CANADA V81 358 YEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A

L7510-13

Page 2 of 6

Lab Sample ID

LDW-C7-T1

Project Number. 04-08-06-21 Sample Data Filename: PB5C_076 S:8

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	СВ	327	0.516	0 99	0.857
2,3,4' - TriCB	22		В	312	0.567	1.00	0 871
2,3,5 - TriCB	23		J	0.889	0.535	1.06	1.282
2,3,6 - TriCB	24			11 6	0 0230	1.15	1.158
2.3'.4 - TriCB	25		E				
2.3',5 - TriCB	26	26 + 29	CE				
2,3',6 - TriCB	27		В	1490	0 0219	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		В	1910	0.511	1 00	0.836
2,4',6 - TriCB	32		В	680	0.491	0.99	1.196
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34			32.8	0.527	0.98	1.273
3,3',4 - TriCB	35			16.5	0.615	0.94	0.985
3,3',5 - TriCB	36			12.3	0.548	0.97	0.931
3,4,4' - TriCB	37		В	254	0.656	1.00	1.001
3,4,5 - TriCB	38			24.5	0.608	0.98	0.968
3,4',5 - TriCB	39			18.9	0 551	0.98	0.946
2,2',3,3' - TeCB	40	40 + 41 + 71	CE				
2,2'.3,4 - TeCB	41	40 + 41 + 71	C40				
2.2',3,4' - TeCB	42		В	1630	0.0595	0.79	1.313
2.2',3,5 - TeCB	43		В	102	0.0649	0.77	1.248
2,2',3,5' - TeCB	44	44 + 47 + 65	CE				
2,2,3,6 - TeCB	45	45 + 51	СВ	1140	0.0555	0.79	1 149
2,2',3,6' - TeCB	46			349	0.0652	0 78	1 162
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2.2',4,5 - TeCB	48		В	330	0.0565	0.78	1.275
2,2',4,5' - TeCB	49	49 + 69	CE				
2,2',4,6 - TeCB	50	50 + 53	СВ	2610	0.0537	0.79	1.112
2.2'.4.6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52		E				
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6.6' - TeCB	54			49.8	0.0472	0.80	1 002
2,3,3',4 - TeCB	55			77.2	0.381	0 75	0.890
2,3,3',4' - TeCB	56		В	877	0.389	0.75	0.904
2,3,3',5 - TeCB	57			233	0 366	0.74	0.844
2,3,3',5' - TeCB	58			97.8	0.363	0.74	0.851
2,3,3',6 - TeCB	59	59 + 62 + 75	СВ	1850	0 0439	0.79	1.303
2,3,4,4' - TeCB	60		В	305	0.390	0.76	0.911
2,3.4.5 - TeCB	61	61 + 70 + 74 + 76	CE				
2.3,4.6 - TeCB	62	59 + 62 + 75	C59				0
2 3.4' 5 - TeCB	63			170	0 359	0 75	0 864

14743AD3_1 xis. S6 Approved by ______QA/QC Chemist dd-mm-yyyy

AXYS METHOD MLA-010 Rev 05 Form 1A Page 3 or 6

27510-13

Lab Sample ID

14743AD3_1 xis_S6

CLIENT ID:

LDW-C7-T1

Project Number Sample Data Filename. 04-08-06-21 PB5C_076 S:8

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3.4',6 - TeCB	64		в	1360	0 0435	0.79	1 350
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		E				
2,3',4,5 - TeCB	67			375	0.333	0.73	0.857
2.3',4,5' - TeCB	68			442	0.347	0 74	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			853	0.351	0.74	0 822
2,3',5',6 - TeCB	73		U		0 0426		
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		В	194	0 435	0.76	1.000
3,3',4,5 - TeCB	78		U		0.436		
3,3',4,5' - TeCB	79			187	0.359	0.81	0.970
3,3',5,5' - TeCB	80		U		0.362		
3,4,4',5 - TeCB	81		К	11.1	0.360	0.74	1.001
2,2',3.3'.4 - PeCB	82			1000	0.529	1.59	0.934
2.2',3,3',5 - PeCB	83	83 + 99	CE				
2,2',3,3',6 - PeCB	84		E				
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СВ	2110	0 389	1.59	0.919
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CE				
2,2',3.4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3,4,6 - PeCB	88	88 + 91	CE				
2,2',3,4,6' - PeCB	89			70.9	0 453	1 56	1 182
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		Е				
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CE				
2.2'.3.5,6' - PeCB	94			94.2	0 432	1 58	1.101
2.2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			108	0.0500	1.59	1.015
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4.4'.5 - PeCB	99	83 + 99	C83				
2,2',4.4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2'.4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103			407	0 376	1.58	1 093
2.2',4,6,6' - PeCB	104			8.83	0.0579	1.65	1.001
2 3 3' 4 4' + PeGB	105		E				
2,3.3',4,5 - PeCB	106		U		0.246		

1. QA/QC Chemist Approved by

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AXYS METHOD MLA-010 Rev 05		
Form 1A		
Page 5 of 6		
Lab Sample ID	l.	7 [

CLIENT	ID-
ULIENI	ID:

LDW-C7-T1

rm 1A										
ge 5 of 6					Project Numbe	16	04-08-06-21			
o Sample (D		L ⁷ 510-13	Sample Data Filena				ilename PB5C_076 S:8			
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT		
2,2	'.3,4'.6,6' - HxCB	150			40.3	0.0709	1.27	1.013		
2,2	2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135						
2,2	2',3.5.6,6' - HxCB	152			18 4	0.0687	1.25	1.007		
2.2	'.4,4',5.5' - HxCB	153	153 + 168	CE						
2,2	'.4.4'.5.6' - HxCB	154	135 + 151 + 154	C135						
2,2	'.4.4'.6.6' - HxCB	155		J	1.71	0 0721	1.38	1 001		
2,3	3,3'.4,4',5 - HxCB	156	156 + 157	СВ	1160	0 395	1.26	1 000		
2,3	,3',4.4',5' - HxCB	157	156 + 157	C156						
2,3	3.3'.4.4',6 - HxCB	158		B	1360	0 305	1 27	0.937		
2.3	3,3',4,5,5' - HxCB	159		U		0.343				
2,3	3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129						
2,3	3,3',4,5',6 - HxCB	161		U		0.308				
2,3	,3',4',5,5' - HxCB	162			49.5	0.343	1 24	0.989		
2,3	3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129						
2,3	,3',4',5',6 - HxCB	164		В	1230	0.321	1.27	0.921		
2,3	3,3',5,5',6 - HxCB	165			18.6	0.326	1 36	0.878		
2,3	3,4,4',5,6 - HxCB	166	128 + 166	C128						
2,3	',4,4',5,5' - HxCB	167		В	561	0.308	1.26	1.000		
2,3	',4,4',5',6 - HxCB	168	153 + 168	C153						
3,3'	'.4,4',5,5' - HxCB	169		U		5.22				
2,2',3	,3',4.4',5 - HpCB	170		В	1030	0.196	1.06	0.936		
2,2',3	,3'.4.4'.6 - HpCB	171	171 + 173	С	675	0.183	1.06	1.163		
2,2',3	,3',4,5,5' - HpCB	172			175	0.191	1 06	0.897		
2,2',3	3,3',4,5,6 - HpCB	173	171 + 173	C171						
2,2',3	,3',4,5,6' - HpCB	174		в	1210	0 162	1.06	1 133		
2,2',3	,3',4,5',6 - HpCB	175			116	0 157	1.07	1 103		
2,2',3	,3',4,6,6' - HpCB	176			279	D 116	1.06	1 034		
2,2',3	,3',4',5,6 - HpCB	177		В	1740	0 181	1.06	1 145		
2,2',3	,3',5,5',6 - HpCB	178			774	0 163	1.06	1.085		
2,2',3	,3',5,6,6' - HpCB	179		В	952	0.113	1.06	1.010		
2,2',3	,4,4',5,5' - HpCB	180	180 + 193	СB	3650	0.152	1 06	0.910		
	3.4,4',5,6 HpCB	181			28.6	0.165	1.07	1 156		
2,2',3	,4,4',5,6' - HpCB	182			28.2	0.162	1.04	1 116		
2,2',3	,4,4',5',6 - HpCB	183	183 + 185	СВ	1530	0.160	1 06	1.127		
2,2'.3	,4,4',6,6' - HpCB	184			2.51	0.107	1.11	1.025		
2,2',3	3,4,5,5',6 - HpCB	185	183 + 185	C183						
2,2',3	3,4.5.6.6' - HpCB	186		U		0.117				
	.4',5,5',6 - HpCB	187		В	3260	0 148	1.06	1.110		
	4',5,6,6' - HpCB	188			7 05	0.0990	1 05	1.000		
	,4,4',5,5' - HpCB	189			32.5	0.338	0.97	1 000		
	',4,4',5.6 - HpCB	190		В	309	0 146	1.06	0.947		
	.4.4'.5'.6 - HpCB	191			92.6	0 142	1 07	0.918		
2,3,3	',4.5.5' 6 - HpCB	192		11		0 149				

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Approved by.

QA/QC Chemist

01-03-2005 dd-mm-yyyy

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AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		LDW-C7-T1	
Page 6 of 6				Project Numbe	r:	04-08-06-21	
0	7510-13			Sample Data F		PB5C_076 S [.] 8	
COMPOUND	HIPAC NO.	CO-FULTIONS	I AR FLAG ¹	CONC FOUND		ION ARUND RATIO	RRT
2,3,3',4',5.5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	194		В	172	0.208	0.88	0.991
2,2',3,3',4,4',5,6 - OcCB	195		В	95.6	0.221	0.89	0.945
2,2',3,3',4,4',5,6' - OcCB	196		В	311	0.0296	0.92	0 916
2.2'.3,3'.4,4',6,6' - OcCB	197	197 + 200	С	54 9	0.0206	0.94	1 045
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	СB	670	0.0294	0.92	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		В	131	0.0210	0.93	1.023
2,2',3,3',5,5',6,6' - OcCB	202		В	269	0.0222	0.92	1.000
2.2',3,4,4',5.5',6 - OcCB	203		В	246	0.0270	0.92	0.920
2,2',3,4,4',5,6,6' - OcCB	204		KJB	0.090	0 0206	1 07	1.039
2,3,3',4,4',5,5',6 - OCCB	205		В	14.8	0 178	0.84	1.000
2,2'.3,3',4,4',5.5',6 - NoCB	206		В	44.8	0.0305	0.80	1.001
2,2',3,3',4,4',5,6,6' - NoCB	207			5.49	0 0240	0.78	1 020
2,2',3,3',4,5,5',6,6' - NoCB	208		В	10.8	0 0249	0 80	1 001
2,2',3,3',4,4',5,5',6,6' - DeCB	209		В	4.22	0 0045	0 75	1 000

(1) C = co-eluting congener, U = not detected, K = peak detected, but did not meet quantification criteria. result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data, Z = compound not requested; J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation

14743AD3_1 xis S6

Approved by.

QA/QC Chemist

01-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD PO 809 2219 2045 MILLS RD. WEST, SIDNEY. B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-01 1668a-S1 2014 Page 1 of 6	0 Rev 05		PCB CONGE	Form 1A ENER ANALYS	IS REPORT			CLIENT ID: LDW-C7-T1	
						Sample Collec	tion:	26-Aug-2004	
Lab Name: AXYS ANAI	YTICAL SF	RVICES				Project Numbe	şt.	04-08-06-21	
Contract No.:		4033				Lab Sample ID	:	L7510-13 W	
Matrix:		TISSUE				Sample Size:		10 1	g (wet)
Sample Receipt Date:		17-Dec-2004				Initial Calibrati	on Date:	04-Feb-2005	
Extraction Date:	:	27-Jan-2005				Instrument ID:		HR GC/MS	
Analysis Date:		18-Feb-2005		Time: 1:32:01		GC Column ID	:	SPB-OCTYL	
Extract Volume (µL):	ł	500				Sample Data F	ilename:	PB5C_086 S:6	
Injection Volume (µL):		1 0				Blank Data File	ename:	PB5C_074 S:7	
Dilution Factor:	2	25				Cal. Ver. Data I	-ilename:	PB5C_086 S:1	
Concentration Units :	r	ng/kg (wet weight	basis)						
co	MPOUND	IUPAC NO.	CO-EL	UTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 2 3 3 3 3 4 4 2.2 2.2 2.2 2.2 2.2	2 - MoCB 3 - MoCB 4 - MoCB 2,2 - DICB 2,3 - DICB 2,3 - DICB 2,4 - DICB 2,4 - DICB 2,4 - DICB 2,5 - DICB 3,4 - DICB 3,4 - DICB 3,4 - DICB 3,5 - DICB 3,3 - TRICB 4,4 - TRICB 4,4 - TRICB 5,5 - TRICB	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	12	+ 13 + 13 + 30					
	,6 - TriCB 3' - TriCB	19 20	20	+ 28					

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Approved by MUMAAAAC Chemist

02-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD. WEST, SIDNEY, B.C. (ANADA V8L 3S8 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD N	ILA-010 Rev 05				CLIENT ID:		LDW-C7-T1	
Form 1A								
Page 2 of 6 Lab Sample ID	L	7510-13 W			Project Number Sample Data F		04-08-06-21 PB5C_086 S:6	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2,3,4 - TriCB	21	21 + 33					
	2,3.4' - TriCB	22						
	2.3,5 - TriCB	23						
	2,3,6 - TriCB	24						
	2.3',4 - TriCB	25		DB	2670	8.85	1 02	0.825
	2.3'.5 - TriCB	26	26 + 29	СDВ	7130	10 7	1 02	1 303
	2,3',6 - TriCB	27						
	2.4.4' - TriCB	28	20 + 28					
	2.4.5 - TriCB	29	26 + 29	C26				
	2,4,6 - TriCB	30	18 + 30					
	2.4',5 - TriCB	31						
	2,4',6 - TriCB	32						
	2',3,4 - TriCB	33	21 + 33					
	2',3,5 - TriCB	34						
	3,3',4 - TriCB	35						
	3,3',5 - TriCB	36						
	3,4,4' - TriCB	37						
	3,4,5 - TriCB	38						
	3.4',5 - TriCB	39	10 . 11 . 71	0.0.0	0500		0.00	4 000
	2,2'.3,3' - TeCB	40	40 + 41 + 71	CDB	3530	1 13	0.80	1.339
	2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
	2,2',3,4' - TeCB	42						
	2,2',3,5 - TeCB	43		0.0.0	11000	1.00	0.70	4 007
	2,2',3,5' - TeCB	44	44 + 47 + 65	СDВ	11300	1.00	0.79	1.287
	2,2',3,6 - TeCB	45	45 + 51					
	2,2',3,6' - TeCB	46	44 + 47 + 65	C14				
	2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
	2,2',4,5 - TeCB	48	49 + 69	СDВ	16000	0.928	0.79	1.260
	2,2',4,5' - TeCB 2,2',4,6 - TeCB	49 50	49 + 09 50 + 53	CDB	10000	0.920	0.79	1.200
	2,2',4,6' - TeCB	51	45 + 51					
	2,2',5,5' ToCB	52	40 / 01	DB	29600	1 10	0.79	1 236
	2,2',5,6' - TeCB	53	50 + 53		2 500.00	1.10	0.75	1 e
	2,2',6,6' - TeCB	54	00 - 00					
	2,3,3',4 - TeCB	55						
	2,3,3',4' - TeCB	56						
	2,3,3',5 - TeCB	57						
	2,3,3',5' - TeCB	58						
	2,3,3',6 - TeCB	59	59 + 62 + 75					
	2,3,4,4' - TeCB	60	55 SE 10					
	2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	CDB	5610	46.7	0.79	0.875
	2,3,4,6 - TeCB	62	59 + 62 + 75					
	2 3,4' 5 - TeCB	63						

14743AD7_1 xis S2 Approved by ______QA/QC Chemist 02-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD RO 80X 2219, 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD Form 1A	MLA-010 Rev 05				CLIENT ID:		LDW-C7-T1	
Page 3 of 6					Project Number		04-08-06-21	
Lab Sample 1D	L	7510-13 W			Sample Data Fil	ename:	PB5C_086 S:6	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	I AR FLAG ¹		DETECTION LIMIT	ION ABUND RATIO	RRT
	2,3,4'.6 - TeCB	64						
	2.3.5.6 - TeCB	65	44 + 47 + 65	C44				
	2,3',4,4' - TeCB	66		DB	4300	47.6	0.75	0.885
	2,3',4,5 - TeCB	67		00	4000	47.0	0.75	0.000
	2,3',4,5' - TeCB	68						
	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	70	40 + 41 + 71	C40				
	2,3',5,5' - TeCB	72	40 + 41 + 71	040				
	2,3',5',6 - TeCB	73						
		73	61 + 70 + 74 + 76	C61				
	2.4,4',5 - TeCB	75	59 + 62 + 75	001				
	2.4,4',6 - TeCB 2'.3,4,5 - TeCB	75 76	59 + 62 + 75 61 + 70 + 74 + 76	C61				
	3,3',4,4' - TeCB	70	01170174170	001				
		78						
	3,3',4,5 - TeCB	70						
	3,3'.4,5' - TeCB 3,3',5,5' - TeCB	80						
	3,4,4',5 - TeCB	81						
	2,2',3,3',4 - PeCB	82						
			83 + 99	СDВ	13600	74.6	1.60	0.885
	2,2',3,3',5 - PeCB	83 84	02 + 99	DB	4690	74.0		1.163
	2,2',3.3',6 - PeCB		05 + 440 + 447	UБ	4090	75.5	1.61	1,105
	2,2',3.4,4' - PeCB	85	85 + 116 + 117		0000	60.0	1.00	0.001
	2,2',3,4,5 - PeCB 2,2',3,4,5' - PeCB	86 87	86 + 87 + 97 + 108 + 119 + 125 86 + 87 + 97 + 108 + 119 + 125	C D B C86	9280	60.2	1 60	0.901
		88	88 + 91	CDB	4200	65.7	1.59	1.154
	2,2',3,4,6 - PeCB		00 + 91	000	4200	05.7	1.58	1.104
	2.2',3.4.6' - PeCB	89	00 + 404 + 440	000	17000	00.0	1 50	0.000
	2,2',3,4',5 - PeCB	90	90 + 101 + 113	CDB	17800	62.0	1.59	0.869
	2,2',3,4',6 - PeCB	91	88 + 91	C88	0000	74.0	4.00	0.050
	2,2',3,5,5' - PeCB	92		DB	6620	74.0	1.60	0.853
	2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CDB	21500	64.0	1.58	1.121
	2,2',3,5,6' PoCB	04	00 + 05 + 08 + 100 + 100	002				
	2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
	2.2',3.6.6' - PeCB	96 97	86 + 87 + 97 + 108 + 119 + 125	C86				
	2.2'.3'.4.5 - PeCB							
	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						
	2.2',4,6,6' - PeCB	104		D D	0750	400	4 FF	1 001
	2.3.3'.4.4' - PoCB	105		DB	2750	132	1 55	1 001
	2.3.3'.4.5 - PeCB	106						

14743AD7_1 xis. S2 Approved by _______QA/QC Chemist 02-03-2005 dd-mm-yyyy

AXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A Page 4 of 6 Lab Sample ID LT510-13 W

Sample Data Filename:

Project Number:

LDW-C7-T1

04-08-06-21

PB5C_086 S.6

COMPOLIND	μιράς ΝΟ.	CO-FUUTIONS	I AR FLAG ¹	CONC FOUND		ION ARUND RATIO	RRT
2.3.3',4',5 - PeCB	107	107 + 124					
2,3,3',4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2.3.3'.4.6 - PeCB	109						
2,3.3',4'.6 - PeCB	110	110 + 115	CDB	21000	51 3	1 59	0.925
2.3.3'.5.5' - PeCB	111						
2,3,3',5,6 - PeCB	112						
2,3.3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114						
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3,4,5,6 - PeCB	116	85 + 116 + 117					
2,3,4',5,6 - PeCB	117	85 + 116 + 117					
2,3',4.4',5 - PeCB	118		D B	11400	115	1.53	1.001
2,3',4,4',6 - PeCB	119	86 + 87 + 97 + 108 + 119 + 125	C86				
2,3',4,5,5' - PeCB	120						
2,3',4,5',6 - PeCB	121						
2',3,3',4,5 - PeCB	122						
2'.3,4,4',5 - PeCB	123						
2',3,4,5,5' - PeCB	124	107 + 124					
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125	C86				
3.3',4.4',5 - PeCB	126						
3.3'.4.5.5' - PeCB	127						
2,2'.3.3'.4,4' - HxCB	128	128 + 166					
2,2'.3.3'.4,5 - HxCB	129	129 + 138 + 160 + 163	CDB	13300	119	1.27	0.929
2,2',3,3'.4,5' - HxCB	130						
2,2',3,3',4,6 - HxCB	131						
2,2',3,3',4,6' - HxCB	132						
2,2',3,3',5,5' - HxCB	133						
2,2'.3.3',5,6 - HxCB	134	134 + 143					
2,2',3.3',5,6' - HxCB	135	135 + 151 + 154					
2.2',3.3',6,6' - HxCB	136						
2,2',3,4,4',5 - HxCB	137						
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2'.3,4,4',6 - HxCB	139	139 + 140					
2,2',3,4,4',6' - HxCB	140	139 + 140					
2.2'.3,4,5,5' - HxCB	141						
2,2',3,4,5,6 - HxCB	142						
2,2°,3,4,5,6' - HxCB	143	134 + 143					
2,2',3,4,5'.6 - HxCB	144						
2.2',3,4,6,6' - HxCB	145						
2,2',3,4',5,5' - HxCB	146			101			
2,2',3,4'.5,6 - HxCB	147	147 + 149	CDB	13400	120	1 27	1 133
2,2',3,4',5,6' - HxCB	148	147 + 140	C147				
2.2',3,4',5'.6 - HxCB	149	147 + 149	0147				

Approved by ______OA/OC Chemist 02-03-2005 dd-mm-yyyy

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0 AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

Form 3A Sample D D230-13-37 Project Number: Sample Dia Eliminari Park di Number: D240-00-100 D4-08-06-21 Park di Number: Park di Num	AXYS METHOD M	LA-010 Rev 05				CLIENT ID:		LDW-C7-T1	
Lub Sample D L751-13 V Sample Date Filteration PBC_008 S. COMPOUND NPAC CC-ELUTONS LAB FOUND ETECTION NO. RATIO RATIO <th>Form 1A</th> <th></th> <th></th> <th></th> <th></th> <th>Our is of blooms</th> <th></th> <th>04.00.00.04</th> <th></th>	Form 1A					Our is of blooms		04.00.00.04	
COMPOUND IUPAC NO. COLUTIONS LAB FLAG ¹ CONC. DETECTION LIMIT ION ABUND. RRT 2.273.45.69 ¹ -HACB 150 122-33.56 ¹ -HACB 151 135+151+154 222-34.56 ¹ -HACB 152 123-16.5 ¹ -HACB 152 123-16.5 ¹ -HACB 153 135+151+154 222-44.55 ¹ -HACB 156 133+151+154 22-24.41.56 ¹ -HACB 156 156+157 2.3.37.4.57 ¹ -HACB 156 156+157 23.37.4.55+HACB 158 129+138+160+163 C129 22.37.4.55+HACB 158 22.37.4.55+HACB 159 2.3.37.4.56+HACB 161 129+138+160+163 C129 2.33.7.4.56+HACB 151 2.3.37.4.56+HACB 161 129+138+160+163 C129 2.33.7.4.56+HACB 161 2.2.3.37.4.56+HACB			1 7540 10 14						
NO. FIAG ¹ FOUND LIMIT RATIO 2.213.41.65 + HxCB 150 2.213.55.81 + HxCB 151 1.35 + 151 + 154 2.213.55.81 + HxCB 153 1.35 + 151 + 154 2.213.41.55 + HxCB 153 1.35 + 151 + 154 C D B 12200 103 1.29 0.899 2.21.44.55 + HxCB 155 1.55 + 157 2.337.44.57 + HxCB 155 2.337.44.57 + HxCB 156 157 2.65 + 157 2.337.45.57 + 147CB 156 157 2.337.45.57 + 147CB 158 129 + 138 + 160 + 163 C 129 2.237.45.57 + 147CB 162 2.337.45.57 + 147CB 162 2.337.45.57 + 147CB 162 2.337.45.57 + 147CB 163 129 + 138 + 160 + 163 C 129 2.437.45.57 + 147CB 163 129 + 138 + 160 + 163 C 129 2.237.44.55 + 147CB 164 2.337.44.55 + 147CB 164 2.337.44.55 + 147CB 166 123 + 160 + 163 C 129 2.237.44.55 + 147CB 167 2.237.44.55 + 147CB 167 2.237.44.55 + 147CB 171 171 + 173 2.27.37.44.55 + 147CB 171 171 + 173 2.27.37.44.55 + 147CB 177	Lab Sample ID		L7510-13 W			Sample Data F	liename.	PB5C_086 5:6	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		COMPOUND		CO-ELUTIONS					RRT
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2.2	' 3 4' 6 6' - HyCB	150						
2,2',3,5,6,8' + HxGB 162 0.899 2,2',4,4',5,9' + HxGB 163 153 + 168 C D B 12300 103 1.29 0.899 2,2',4,4',5,6' + HxGB 165 155 155 155 155 155 156 157 2.3,3',4,4'5' + HxGB 167 156 + 157 2.3,3',4,4'5' + HxGB 160 129 + 138 + 160 + 163 C 129 148 140 + 163 C 129 140 + 163 156 + 157 155 156 157 155 156 157 155 156 157 155 156 157 156 157 156 157 156 156 157 156 156 157 156 156 157 156 157 157 157 157 157 157 157 157 157 157 157 157 157 157 157 157<				135 + 151 + 154					
2.2°.4.4°.55° + HxCB 163 103 + 168 C D B 1200 103 1.29 0.899 2.2°.4.4°.56° + HxCB 164 135 + 151 + 154 1									
2,2',4,4',5,6' + HxC8 154 2,2',4,4',5,6' + HxC8 156 2,3,3',4,4'5 + HxC8 157 2,3,3',4,4'5 + HxC8 157 2,3,3',4,4'5 + HxC8 159 2,3,3',4,5' + HxC8 160 129 + 138 + 160 + 163 C129 2,3,3',4,5' + HxC8 161 23.3',4,5' + HxC8 162 2,3,3',4,5' + HxC8 163 129 + 138 + 160 + 163 C129 2,3,3',4,5' + HxC8 163 129 + 138 + 160 + 163 C129 2,3,3',4,5' + HxC8 164 128 + 166 + 153 C129 2,3,3',4,5' + HxC8 166 128 + 166 + 153 161 2,2,3,4',4,5' + HxC8 166 128 + 166 + 153 163 2,2,3,4',4,5' + HxC8 169 163 163 2,2',3,3',4,5' + HxC8 170 171 + 173 171 + 173 2,2',3,3',4,5' + HxC8 170 171 + 173 171 + 173 2,2',3,3',4,5' + HxC8 170 171 + 173 171 + 173 2,2',3,3',4,5' + HxC8 170 171 + 173 171 + 173 2,2',3,3',4,5' + HxC8 170 171 + 173 171 + 173 2,2',3,3',4,5' + HxC8				153 + 168	CDB	12300	103	1.29	0.899
$ \begin{array}{ c c c } 2.2,3,4,4,5 & + 1,4CB & 156 \\ 2.3,3,4,4,5 & + 1,4CB & 157 \\ 2.3,3,4,4,5 & + 1,4CB & 158 \\ 2.3,3,4,4,5 & + 1,4CB & 158 \\ 2.3,3,4,5,5 & + 1,4CB & 159 \\ 2.3,3,4,5,5 & + 1,4CB & 160 \\ 2.3,3,4,5,5 & + 1,4CB & 161 \\ 2.3,3,4,5,5 & + 1,4CB & 161 \\ 2.3,3,4,5,5 & + 1,4CB & 161 \\ 2.3,3,4,5,5 & + 1,4CB & 163 \\ 2.3,3,4,5,5 & + 1,4CB & 164 \\ 2.3,3,4,5,5 & + 1,4CB & 166 \\ 2.3,3,4,5,5 & + 1,4CB & 166 \\ 2.3,4,4,5,5 & + 1,4CB & 167 \\ 2.2,3,4,4,5,5 & + 1,4CB & 167 \\ 2.2,3,4,4,5,5 & + 1,4CB & 167 \\ 2.2,3,4,4,5,5 & + 1,4CB & 171 \\ 2.2,3,4,4,5,5 & + 1,4CB & 172 \\ 2.2,3,3,4,5,5 & + 1,4CB & 173 \\ 2.2,3,3,4,5,5 & + 1,4CB & 174 \\ 2.2,3,3,4,5,5 & + 1,4CB & 176 \\ 2.2,3,3,4,5,5 & + 1,4CB & 181 \\ 2.2,3,4,4,5,5 & + 1,4CB & 181 \\ 2.2,3,4,4,5,5 & + 1,4CB & 181 \\ 2.2,3,4,4,5,5 & + 1,4CB & 186 \\ 2.2,3,4,4,5,5 & + 1,4CB & 186 \\ 2.2,3,4,4,5,5 & + 1,4CB & 187 \\ 2.3,3,4,4,5,5 & + 1,$									
$\begin{array}{cccccccc} 2.3.3.4.4.5. + 1xCB & 166 & 196 + 187 \\ 2.3.3.4.4.5. + 1xCB & 167 \\ 2.3.3.4.4.5. + 1xCB & 169 \\ 2.3.3.4.5.5 + 1xCB & 160 \\ 2.3.3.4.5.5 + 1xCB & 161 \\ 2.3.3.4.5.5 + 1xCB & 161 \\ 2.3.3.4.5.5 + 1xCB & 161 \\ 2.3.3.4.5.5 + 1xCB & 164 \\ 2.3.3.4.5.5 + 1xCB & 164 \\ 2.3.3.4.5.5 + 1xCB & 166 \\ 2.3.3.4.5.5 + 1xCB & 167 \\ 2.3.3.4.5.5 + 1xCB & 167 \\ 2.2.3.3.4.5.5 + 1xCB & 170 \\ 2.2.3.3.4.5.5 + 1xCB & 171 \\ 2.2.3.3.4.5.5 + 1xCB & 171 \\ 2.2.3.3.4.5.5 + 1xCB & 173 \\ 2.2.3.3.4.5.5 + 1xCB & 174 \\ 2.2.3.3.4.5.5 + 1xCB & 174 \\ 2.2.3.3.4.5.5 + 1xCB & 176 \\ 2.2.3.3.4.5.5 + 1xCB & 178 \\ 2.2.3.3.4.5.5 + 1xCB & 178 \\ 2.2.3.3.4.5.5 + 1xCB & 178 \\ 2.2.3.4.4.5.5 + 1xCB & 178 \\ 2.2.3.4.4.5.5 + 1xCB & 181 \\ 2.2.3.4.4.5.5 + 1xCB & 181 \\ 2.2.3.4.4.5.5 + 1xCB & 182 \\ 2.2.3.4.4.5.5 + 1xCB & 184 \\ 2.2.3.4.4.5.5 + 1xCB & 184 \\ 2.2.3.4.4.5.5 + 1xCB & 186 \\ 2.2.3.4.4.5.5 + 1xCB & 186 \\ 2.2.3.4.4.5.5 + 1xCB & 186 \\ 2.2.3.4.4.5.5 + 1xCB & 187 \\ 2.2.3.4.4.5.5 + 1xCB & 186 \\ 2.2.3.4.4.5.5 + 1xCB & 186 \\ 2.2.3.4.4.5.5 + 1xCB & 187 \\ 2.3.3.4.4.5.5 + 1$									
2.3.3'.4.4'.5' + HxCB1672.3.3'.4.4'.5' + HxCB1682.3.3'.4.5'.5' + HxCB1602.3.3'.4.5'.5' + HxCB1612.3.3'.4.5'.5' + HxCB1622.3.3'.4.5'.5' + HxCB1632.3.3'.4.5'.5' + HxCB1642.3.3'.4.5'.5' + HxCB1642.3.3'.4.5'.5' + HxCB1652.3.3'.4.5'.5' + HxCB1662.3.3'.4.5'.5' + HxCB1662.3.3'.4.5'.5' + HxCB1662.3.3'.4.5'.5' + HxCB1672.3.3'.4.5'.5' + HxCB1682.3.3'.4.5'.5' + HxCB1702.2.3.3'.4.5'.5' + HxCB1712.2.3.3'.4.5'.5' + HxCB1722.2.3.3'.4.5'.5' + HxCB1732.2.3.3'.4.5'.5' + HxCB1742.2.3.3'.4.5'.5' + HxCB1742.2.3.3'.4.5'.5' + HxCB1742.2.3.3'.4.5'.5' + HxCB1752.2.3.3'.4.5'.5' + HxCB1762.2.3.3'.4.5'.5' + HxCB1772.2.3.3'.5.5'.5' + HxCB1762.2.3.3'.5.5'.5' + HxCB1772.2.3.3'.5.5'.5' + HxCB1762.2.3.3'.5.5'.5' + HxCB1762.2.3.3.4.5.5' + HxCB1812.2.3.4.5.5'' + HxCB1812.2.3.4.5.5'' + HxCB186				156 + 157					
2,3,3',4,4',6, +hxCB1582,3,3',4,5,5', +hxCB160 $129 + 138 + 160 + 163$ C1292,3,3',4,5,5', +hxCB161 $23,3',4,5',5',5',5',5',5',5',5',5',5',5',5',5',$									
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$									
2.3.3'.4.5.6 + HxCB 160 129 + 138 + 160 + 163 C129 2.3.3'.4.5.6 + HxCB 161 C129 2.3.3'.4.5.6 + HxCB 163 129 + 138 + 160 + 163 C129 2.3.3'.4.5.6 + HxCB 163 129 + 138 + 160 + 163 C129 2.3.3'.4.5.6 + HxCB 166 129 + 138 + 160 + 163 C129 2.3.3'.4.5.6 + HxCB 166 129 + 108 C13 3.3'.4.5.5' + HxCB 166 129 + 108 C153 3.3'.4.4.5.5' + HxCB 169 169 169 2.2'.3.3'.4.5.5' + HxCB 170 22'.3.3'.4.5.5' + 1405 170 2.2'.3.3'.4.5.5' + 1405B 173 171 + 173 171 + 173 2.2'.3.3'.4.5.6' + 1405B 176 172 171 + 173 2.2'.3.3'.4.5.6' + 1405B 176 172 171 + 173 2.2'.3.3'.4.5.6' + 1405B 176 173 171 + 173 2.2'.3.3'.4.5.6' + 1405B 176 173 171 + 173 2.2'.3.3'.4.5.6' + 1405B 176 173 174 + 173 2.2'.3.3'.4.5.6' + 1405B 176 173 174 + 173 2.2'.3.3'.4.5.6' + 1405B 180 + 183 <									
2,3,3',4,5',5' + HxCB161 $2,3,3',4,5,5' + HxCB$ 162 $2,3,3',4,5,5' + HxCB$ 163129 + 138 + 160 + 163C129 $2,3,3',4,5,5' + HxCB$ 165 $2,3,4',5,5' + HxCB$ 166128 + 166 $2,3',4,4',5,5' + HxCB$ 168153 + 168C153 $3,4,4',5,5' + HxCB$ 17022,2',3,3',4,4',5' + HpCB171 $2,2',3,3',4,4',5' + HpCB$ 171171 + 173 $2,2',3,3',4,4',5' + HpCB$ 17222,2',3,3',4,5' + HpCB $2,2',3,3',4,5' + HpCB$ 17422,2',3,3',4,5' + HpCB $2,2',3,3',4,5' + HpCB$ 176 $2,2',3,4',4,5' + HpCB$ 180 $2,2',3,4',4,5' + HpCB$ 181 $2,2',3,4',4,5' + HpCB$ 183 $2,2',3,4,4',5' + HpCB$ 183 $2,2',3,4,4',5' + HpCB$ 184 $2,2',3,4,4',5' + HpCB$ 186 $2,2',3,4',5' + HpCB$ 187 $2,2',3,4',5' + HpCB$ 186 $2,2',3,4',5' + HpCB$ 187 $2,2',3,4',5' + HpCB$ 186 $2,2',3,4',4',5' + HpCB$ 186 $2,2',3,4',4',5' + HpCB$ 186 $2,2',3,4',5' + HpCB$ 187 $2,2',3,4',4',5' + Hp$				129 + 138 + 160 + 163	C129				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
2,3,3',4',5,6 + HxCB163 $129 + 138 + 160 + 163$ C1292,3,3',4',5,6 + HxCB1642,3,4,4',5,6 + HxCB1652,3,4,4',5,6 + HxCB1662,3',4,4',5,6 + HxCB1672,2',3,4',5,5 + HxCB1682,2',3,3',4,4',5 + HxCB1702,2',3,3',4,4',5 + HpCB1712,2',3,3',4,4',5 + HpCB1712,2',3,3',4,5,5' + HxCB1722,2',3,3',4,5,6' + HpCB1732,2',3,3',4,5,6' + HpCB1742,2',3,3',4,5,6' + HpCB1742,2',3,3',4,5,6' + HpCB1762,2',3,3',4,5,6' + HpCB1772,2',3,3',4,5,6' + HpCB1762,2',3,3',4,5,6' + HpCB1772,2',3,3',4,5,6' + HpCB1782,2',3,3',4,5,6' + HpCB1782,2',3,3',4,5,6' + HpCB1812,2',3,3',4,5,6' + HpCB1842,2',3,3',4,5,6' + HpCB1842,2',3,3',4,5,6' + HpCB1842,2',3,3,4,5,6' + HpCB1842,2',3,3',4,5,6' + HpCB1842,2',3,4,4',5,6' + HpCB1842,2',3,4,4',5,6' + HpCB1862,2',3,4,5,6' + HpCB1862,2',3,4',5,5' + HpCB1862,2',3,4',5,5' + HpCB1862,2',3,4',5,5' + HpCB1872,2',3,4',5,5' + HpCB1842,2',3,4',5,5' + HpCB1862,2',3,4',5,5' + HpCB1862,2',3,4',5,5' + HpCB1872,2',3,4',4',5,5' + HpCB1892,3',4,4',5,5' + HpCB1892,3',4,4',5,5' + HpCB1892,3',4',4',									
$2,3,3',4',5'_6 + HxCB$ 164 $2,3,3',4',5'_6 + HxCB$ 166 $2,3',4,4',5,5' + HxCB$ 167 $2,3',4,4',5,5' + HxCB$ 168153 + 168 $2,3',4,4',5,5' + HxCB$ 169 $2,2',3,3',4,4',5 + HxCB$ 170 $2,2',3,3',4,4',5 + HyCB$ 171 $2,2',3,3',4,4',5 + HyCB$ 172 $2,2',3,3',4,5,5' + HyCB$ 173 $2,2',3,3',4,5,6' + HpCB$ 174 $2,2',3,3',4,5,6' + HpCB$ 174 $2,2',3,3',4,5,6' + HpCB$ 176 $2,2',3,3',4,5,6' + HpCB$ 180 $2,2',3,3',4,5,6' + HpCB$ 180 $2,2',3,4,4',5,6' + HpCB$ 181 $2,2',3,4,4',5,6' + HpCB$ 183 $2,2',3,4,4',5,6' + HpCB$ 186 $2,2',3,4,4',5,6' + HpCB$ 186 $2,2',3,4,4',5,6' + HpCB$ 186 $2,2',3,4,4',5,6' + HpCB$ 187 $2,2',3,4,4',5,6' + HpCB$ 186 $2,2',3,4',5,6' + HpCB$ 186 <t< th=""><td></td><th></th><td></td><td>129 + 138 + 160 + 163</td><td>C129</td><td></td><td></td><td></td><td></td></t<>				129 + 138 + 160 + 163	C129				
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$			164						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			165						
$\begin{array}{ c c c c } 1 & 168 & 153 + 168 & C153 \\ \hline & & & & & & & & & & & & & & & & & &$			166	128 + 166					
3,3',4,4',5,5' - HxCB 169 2,2',3,3',4,4',5 - HpCB 170 2,2',3,3',4,5,6' - HpCB 171 171 + 173 2,2',3,3',4,5,6' - HpCB 172 171 2,2',3,3',4,5,6' - HpCB 173 171 + 173 2,2',3,3',4,5,6' - HpCB 174 171 2,2',3,3',4,5,6' - HpCB 174 171 2,2',3,3',4,5,6' - HpCB 174 171 2,2',3,3',4,5,6' - HpCB 176 176 2,2',3,3',5,6,6' - HpCB 177 171 2,2',3,3',5,6,6' - HpCB 178 178 2,2',3,3',5,6,6' - HpCB 179 170 2,2',3,4,4',5,6' - HpCB 180 180 + 193 2,2',3,4,4',5,6' - HpCB 180 180 + 193 2,2',3,4,4',5,6' - HpCB 183 183 + 185 2,2',3,4,4',5,6' - HpCB 184 12,2',3,4,4',5,6' - HpCB 2,2',3,4,5,6,6' - HpCB 184 12,2',3,4,5,6,6' - HpCB 2,2',3,4,5,6,6' - HpCB 187 183 + 185 2,2',3,4,5,6,6' - HpCB 186 183 + 185 2,2',3,4,5,6,6' - HpCB 188 183 + 185 2,3,3',4,4',5,6' - HpCB 188	2,3'	',4,4',5,5' - HxCB	167						
2.2',3,3',4,4',5 - HpCB 170 2.2',3,3',4,5,6 - HpCB 171 2.2',3,3',4,5,6 - HpCB 172 2.2',3,3',4,5,6 - HpCB 173 2.2',3,3',4,5,6 - HpCB 173 2.2',3,3',4,5,6 - HpCB 174 2.2',3,3',4,5,6 - HpCB 175 2.2',3,3',4,5,6 - HpCB 176 2.2',3,3',4,5,6 - HpCB 176 2.2',3,3',4,5,6 - HpCB 177 2.2',3,3',4,5,6 - HpCB 178 2.2',3,3',5,6 - HpCB 178 2.2',3,3',5,6 - HpCB 179 2.2',3,3',5,6 - HpCB 179 2.2',3,4,4',5,6 - HpCB 180 2.2',3,4,4',5,6 - HpCB 180 2.2',3,4,4',5,6 - HpCB 180 2.2',3,4,4',5,6 - HpCB 182 2.2',3,4,4',5,6 - HpCB 184 2.2',3,4,5,5',6 - HpCB 184 2.2',3,4,5,5',6 - HpCB 186 2.2',3,4',5,6',6 - HpCB 186 2.2',3,4',5,6',6 - HpCB 186 2.2',3,4',5,6',6 - HpCB 186 2.2',3,4',4',5,6',6 + HpCB 186 2.3,3',4,4',5,6',6 + HpCB 180 2.3,3',4,4',5,6',6 + HpCB	2,3'	',4,4',5',6 - HxCB	168	153 + 168	C153				
2.2', 3, 3', 4, 5, 6' + HpCB 171 171 + 173 2.2', 3, 3', 4, 5, 6' + HpCB 172 2.2', 3, 3', 4, 5, 6' + HpCB 173 171 + 173 2.2', 3, 3', 4, 5, 6' + HpCB 173 171 + 173 2.2', 3, 3', 4, 5, 6' + HpCB 174 22', 3, 3', 4, 5, 6' + HpCB 2.2', 3, 3', 4, 5, 6' + HpCB 175 22', 3, 3', 4, 5, 6' + HpCB 2.2', 3, 3', 4, 5, 6' + HpCB 176 22', 3, 3', 4, 5, 6' + HpCB 2.2', 3, 3', 4, 5, 6' + HpCB 177 22', 3, 3', 5, 6' + HpCB 2.2', 3, 3', 5, 5, 6' + HpCB 178 22', 3, 3', 5, 5' + HpCB 2.2', 3, 3', 4, 5, 5' + HpCB 178 22', 3, 4, 4', 5, 6' + HpCB 2.2', 3, 4, 4', 5, 6' + HpCB 180 180 + 193 2.2', 3, 4, 4', 5, 6' + HpCB 182 22', 3, 4, 4', 5, 6' + HpCB 2.2', 3, 4, 4', 5, 6' + HpCB 182 22', 3, 4, 4', 5, 6' + HpCB 2.2', 3, 4, 4', 5, 6' + HpCB 184 22', 3, 4, 4', 5, 6' + HpCB 2.2', 3, 4, 4', 5, 6' + HpCB 186 22', 3, 4', 4', 5, 6' + HpCB 2.3, 3', 4, 4', 5, 5' + HpCB 188 23, 3', 4, 4', 5', 6' + HpCB 2.3, 3', 4, 4', 5', 6' + HpCB 180 23, 3', 4, 4', 5', 6' + HpCB 2.3, 3'	3,3'	',4,4',5,5' - HxCB	169						
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2,2',3	,3',4,4',5 - HpCB	170						
2,2',3,3',4,5,6 + HpCB 173 $171 + 173$ $2,2',3,3',4,5,6' + HpCB$ 174 $2,2',3,3',4,5,6' + HpCB$ 175 $2,2',3,3',4,5,6' + HpCB$ 176 $2,2',3,3',4,5,6' + HpCB$ 177 $2,2',3,3',5,5,6 + HpCB$ 177 $2,2',3,3',5,6,6' + HpCB$ 179 $2,2',3,4',5,5' + HpCB$ 180 $2,2',3,4,4',5,6' + HpCB$ 180 $2,2',3,4,4',5,6' + HpCB$ 181 $2,2',3,4,4',5,6' + HpCB$ 182 $2,2',3,4,4',5,6' + HpCB$ 183 $2,2',3,4,4',5,6' + HpCB$ 184 $2,2',3,4,4',5,6' + HpCB$ 184 $2,2',3,4,5,5',6 + HpCB$ 186 $2,2',3,4,5,5',6 + HpCB$ 186 $2,2',3,4,5,5',6 + HpCB$ 186 $2,2',3,4,5,5',6 + HpCB$ 186 $2,2',3,4,5,5',6 + HpCB$ 187 $2,2',3,4,5,5',6 + HpCB$ 187 $2,3',4,4',5,5' + HpCB$ 188 $2,3,3',4,4',5,5' + HpCB$ 189 $2,3,3',4,4',5,6 + HpCB$ 190 $2,3,3',4,4',5,6 + HpCB$ 191	2,2',3	,3',4,4',6 - HpCB	171	171 + 173					
2,2',3,3',4,5,6' + HpCB 174 2,2',3,3',4,5,6 + HpCB 175 2,2',3,3',4,5,6 + HpCB 176 2,2',3,3',4,5,6 + HpCB 177 2,2',3,3',4,5,6 + HpCB 178 2,2',3,3',5,5,6 + HpCB 179 2,2',3,4,4',5,6 + HpCB 180 2,2',3,4,4',5,6 + HpCB 180 2,2',3,4,4',5,6 + HpCB 181 2,2',3,4,4',5,6 + HpCB 181 2,2',3,4,4',5,6 + HpCB 182 2,2',3,4,4',5,6 + HpCB 183 2,2',3,4,4',5,6 + HpCB 184 2,2',3,4,4',5,6 + HpCB 184 2,2',3,4,4',5,6 + HpCB 186 2,2',3,4,4',5,6 + HpCB 186 2,2',3,4,5,5',6 + HpCB 186 2,2',3,4,4',5,6 + HpCB 187 2,2',3,4,4',5,6 + HpCB 187 2,3',4,4',5,6 + HpCB 188 2,3',3,4,5,5' + HpCB 189 2,3',4,4',5,6 + HpCB 190 2,3',4,4',5,6 + HpCB 191	2,2',3	,3',4,5,5' - HpCB	172						
2,2',3,3',4,5',6 - HpCB 175 2,2',3,3',4,5',6 - HpCB 176 2,2',3,3',4,5,6 - HpCB 177 2,2',3,3',5,6,6' - HpCB 178 2,2',3,3',5,6,6' - HpCB 180 180 + 193 2,2',3,4,4',5,6' - HpCB 181 2,2',3,4,4',5,6' - HpCB 182 2,2',3,4,4',5,6' - HpCB 183 183 + 185 2,2',3,4,4',5,6' - HpCB 184 2,2',3,4,4',5,6' - HpCB 185 183 + 185 2,2',3,4,4',5,6,6' - HpCB 186 2,2',3,4,5,5',6 - HpCB 186 2,2',3,4',5,5',6 - HpCB 186 2,2',3,4',5,5',6 - HpCB 187 2,2',3,4',5,5',6 - HpCB 188 2,3,3',4,4',5,6 - HpCB 189 2,3,3',4,4',5,6 - HpCB 190 2,3,3',4,4',5,6 - HpCB 191	2,2',3	3,3',4,5,6 - HpCB	173	171 + 173					
2,2',3,3',4,6,6' - HpCB 176 2,2',3,3',4,5,6 - HpCB 177 2,2',3,3',5,6,6' - HpCB 179 2,2',3,4,4',5,6' - HpCB 180 180 + 193 2,2',3,4,4',5,6' - HpCB 181 2,2',3,4,4',5,6' - HpCB 182 2,2',3,4,4',5,6' - HpCB 183 183 + 185 2,2',3,4,4',5,6' - HpCB 184 2,2',3,4,5,5',6 - HpCB 184 2,2',3,4,5,5',6 - HpCB 185 183 + 185 2,2',3,4,5,5',6 - HpCB 186 2,2',3,4,5,5',6 - HpCB 186 2,2',3,4',5,5',6 - HpCB 187 2,2',3,4',5,5',6 - HpCB 188 2,3,3',4,4',5,5' - HpCB 189 2,3,3',4,4',5,6 - HpCB 189 2,3,3',4,4',5,6 - HpCB 190 2,3,3',4,4',5,6 - HpCB 191	2,2',3	,3',4,5,6' - HpCB	174						
2,2',3,3',4',5,6 + HpCB177 $2,2',3,3',5,6,6' + HpCB$ 178 $2,2',3,3',5,6,6' + HpCB$ 179 $2,2',3,4,4',5,6' + HpCB$ 180 $2,2',3,4,4',5,6' + HpCB$ 181 $2,2',3,4,4',5,6' + HpCB$ 182 $2,2',3,4,4',5,6' + HpCB$ 183 $2,2',3,4,4',5,6' + HpCB$ 184 $2,2',3,4,4',5,6' + HpCB$ 185 $2,2',3,4,4',5,6' + HpCB$ 185 $2,2',3,4,5,5',6 + HpCB$ 185 $2,2',3,4,5,5',6 + HpCB$ 186 $2,2',3,4',5,5',6 + HpCB$ 187 $2,2',3,4',5,5',6 + HpCB$ 188 $2,3,3',4,4',5,5' - HpCB$ 189 $2,3,3',4,4',5,6 + HpCB$ 190 $2,3,3',4,4',5,6 - HpCB$ 191	2,2',3	,3',4,5',6 - HpCB	175						
2,2',3,3',5,5',6 - HpCB 178 2,2',3,3',5,6' - HpCB 179 2,2',3,4,4',5,5' - HpCB 180 180 + 193 2,2',3,4,4',5,6' - HpCB 181 2,2',3,4,4',5,6' - HpCB 182 2,2',3,4,4',5,6 - HpCB 183 183 + 185 2,2',3,4,4',6,6' - HpCB 184 2,2',3,4,5,5',6 - HpCB 185 183 + 185 2,2',3,4,5,5',6 - HpCB 186 2,2',3,4',5,5',6 - HpCB 187 2,2',3,4',5,5' - HpCB 188 2,3,3',4,4',5,5' - HpCB 189 2,3,3',4,4',5,6 - HpCB 190 2,3,3',4,4',5,6 - HpCB 191	2,2',3	,3',4.6.6' - HpCB	176						
2.2',3,3',5,6,6' - HpCB 179 2.2',3,4,4',5,5' - HpCB 180 180 + 193 2.2',3,4,4',5,6' - HpCB 181 2.2',3,4,4',5,6' - HpCB 182 2.2',3,4,4',5,6' - HpCB 182 2.2',3,4,4',5,6' - HpCB 183 2.2',3,4,4',5,6' - HpCB 183 2.2',3,4,4',5,6' - HpCB 184 2.2',3,4,4',5,6' - HpCB 185 2.2',3,4,5,5',6 - HpCB 185 2.2',3,4,5,5',6 - HpCB 186 2.2',3,4',5,5',6 - HpCB 187 2.2',3,4',5,5',6 - HpCB 188 2.3,3',4,4',5,5' - HpCB 189 2.3,3',4,4',5,6 - HpCB 190 2.3,3',4,4',5,6 - HpCB 191	2,2',3	,3',4',5,6 - HpCB	177						
2.2', 3.4, 4', 5, 5' - HpCB 180 180 + 193 2.2', 3, 4, 4', 5, 6' HpCB 181 2.2', 3, 4, 4', 5, 6' - HpCB 182 2.2', 3, 4, 4', 5, 6' - HpCB 183 2.2', 3, 4, 4', 5, 6' - HpCB 183 2.2', 3, 4, 4', 6, 6' - HpCB 184 2.2', 3, 4, 4', 6, 6' - HpCB 184 2.2', 3, 4, 5, 5', 6 - HpCB 185 2.2', 3, 4, 5, 5', 6 - HpCB 186 2.2', 3, 4', 5, 5', 6 - HpCB 187 2.2', 3, 4', 5, 5', 6 - HpCB 188 2.3, 3', 4, 4', 5, 6' - HpCB 189 2.3, 3', 4, 4', 5, 6 - HpCB 190 2.3, 3', 4, 4', 5, 6 - HpCB 191	2,2',3	,3',5,5',6 - HpCB	178						
2.2',3,4,4',5,6 HpCB 181 2.2',3,4,4',5,6' - HpCB 182 2.2',3,4,4',5,6 - HpCB 183 183 + 185 2.2',3,4,4',6,6' - HpCB 184 2.2',3,4,5,5',6 - HpCB 185 183 + 185 2.2',3,4,5,5',6 - HpCB 185 183 + 185 2.2',3,4,5,6,6' - HpCB 186 2,2',3,4',5,5',6 - HpCB 2.2',3,4',5,5',6 - HpCB 187 2,2',3,4',5,6,6' - HpCB 2.3,3',4,4',5,5' - HpCB 189 2,3,3',4,4',5,6 - HpCB 2.3,3',4,4',5,6 - HpCB 190 2,3,3',4,4',5,6 - HpCB 2.3,3',4,4',5,6 - HpCB 191	2,2',3	,3',5,6,6' - HpCB	179						
2.2', 3.4, 4', 5.6' - HpCB 182 2.2', 3.4, 4', 5.6' - HpCB 183 183 + 185 2.2', 3.4, 4', 6.6' - HpCB 184 2.2', 3.4, 5.5', 6 - HpCB 185 183 + 185 2.2', 3.4, 5.5', 6 - HpCB 186 2.2', 3.4, 5.5', 6 - HpCB 186 2.2', 3.4', 5.5', 6 - HpCB 187 2.2', 3.4', 5.5', 6 - HpCB 188 2.3, 3', 4, 4', 5.5' - HpCB 189 2.3, 3', 4, 4', 5.6' - HpCB 190 2.3, 3', 4, 4', 5.6' - HpCB 191	2,2',3	.4,4',5,5' - HpCB	180	180 + 193					
2.2',3.4.4'.5',6 - HpCB 183 183 + 185 2.2',3.4.4'.6,6' - HpCB 184 2.2',3.4.5.5'.6 - HpCB 185 183 + 185 2.2',3.4.5.6,6' - HpCB 186 2.2',3.4',5.5'.6 - HpCB 187 2.2',3.4',5.5'.6 - HpCB 188 2.3,3',4.4',5.5' - HpCB 189 2.3,3',4.4',5.6 - HpCB 190 2.3,3',4.4',5.6 - HpCB 191	2,2',3	8,4,4',5,6 HpCB	181						
2.2',3,4.4',6,6' - HpCB 184 2.2',3,4.5.5',6 - HpCB 185 183 + 185 2.2',3,4.5.6,6' - HpCB 186 2,2',3,4',5.5',6 - HpCB 187 2,2',3,4',5.5',6 - HpCB 188 2,3,3',4,4',5.5' - HpCB 189 2,3,3',4,4',5.6 - HpCB 190 2,3,3',4,4',5.6 - HpCB 191	2,2',3	.4,4',5,6' - HpCB	182						
2,2',3,4.5.5'.6 - HpCB 185 183 + 185 2,2',3,4.5.6.6' - HpCB 186 2,2',3,4',5.5'.6 - HpCB 187 2,2',3,4',5.5'.6 - HpCB 188 2,3,3',4,4',5.5' - HpCB 189 2,3,3',4,4',5.6 - HpCB 190 2,3,3',4,4',5.6 - HpCB 191	2,2',3	,4,4',5',6 - HpCB	183	183 + 185					
2.2',3.4.5.6.6' - HpCB 186 2,2',3,4',5.5'.6 - HpCB 187 2,2',3,4',5.6.6' - HpCB 188 2,3.3',4,4',5.5' - HpCB 189 2,3.3',4,4',5.6 - HpCB 190 2,3.3',4,4',5.6 - HpCB 191	2,2',3	,4,4',6,6' - HpCB	184						
2,2'.3,4'.5.5'.6 - HpCB 187 2,2'.3,4'.5.6.6' - HpCB 188 2,3.3'.4,4'.5.5' - HpCB 189 2,3.3'.4,4'.5.6 - HpCB 190 2,3.3'.4,4'.5'.6 - HpCB 191	2,2',3	3,4,5,5 '.6 - HpCB	185	183 + 185					
2,2',3,4',5.6,6' - HpCB 188 2,3,3',4,4',5.5' - HpCB 189 2,3,3',4,4',5.6 - HpCB 190 2,3,3',4,4',5',6 - HpCB 191	2,2',3	3,4,5,6,6' - HpCB	186						
2,3.3'.4.4'.5.5' - HpCB 189 2,3.3'.4.4'.5.6 - HpCB 190 2,3.3'.4.4'.5'.6 - HpCB 191	2,2',3	,4',5.5',6 - HpCB	187						
2.3.3',4,4',5.6 - HpCB 190 2.3.3',4,4',5',6 - HpCB 191	2,2',3	,4'.5.6,6' - HpCB							
2.3.3'.4.4'.5'.6 - HpCB 191	2,3,3'	.4,4'.5,5' - HpCB							
2,3,3',4,5,5',6 • HpCB 192									
	2,3,3	',4.5,5',6 - HpCB	192						

14743AD7_1 xls. S2

Approved by.__

QA/QC Chemist

02-03-2005 dd-mm-yyyy

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(250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		LDW-C7-T1	
Page 6 of 6				Project Numbe	er	04-08-06-21	
Lab Sample ID	L7510-13 W			Sample Data F	ilename	PB5C_086 S:6	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3.3',4',5.5',6 - HpCB	193	180 + 193					
2.2',3,3',4,4',5,5' - OcCB	194						
2,2'.3.3'.4,4'.5,6 - OcCB	195						
2,2',3,3',4,4',5,6' - OcCB	196						
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200					
2,2'.3,3',4,5,5',6 - OcCB	198	198 + 199					
2,2',3,3',4,5,5',6' - OcCB	199	198 + 199					
2,2',3,3',4,5,6,6' - OcCB	200	197 + 200					
2,2',3,3',4,5',6,6' - OcCB	201						
2,2',3,3',5,5',6.6' - OcCB	202						
2,2',3,4,4',5,5',6 - OcCB	203						
2,2',3,4,4',5,6,6' - OcCB	204						
2,3,3`,4,4`,5,5`,6 - OcCB	205						

(1) C = co-eluting congener, U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

206

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209

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2,2',3,3',4,4',5,5',6 - NoCB

2,2',3,3',4,4',5,6,6' - NoCB

2,2',3,3',4,5,5',6,6' - NoCB

2,2',3,3',4,4',5,5',6,6' - DeCB

Approved by.____

QA/QC Chemist

02-03-2005 dd-mm-yyyy

AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD. WEST, SIDNEY B.(., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID: LDW-C7-T1

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

			Sample Collection:		26-Aug-2004	
Lab Name: AXYS ANALYTICAL S	ERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-13	
Matrix:	TISSUE		Sample Size:		10.1	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration Da	te:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 3:26:11	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename	:	PB5C 074 S:7	
Injection Volume (µL):	1 0		Cal. Ver. Data Filena	me:	PB5C_076 S:1	
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_076 S:8	
Concentration Units :	ng/kg (wet weight ba	sis)			PB5C_086 S:6	
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			4.66	0.0393		
Total Dichloro Biphenyls			572	0.116		
Total Trichloro Biphenyls			19800	0.656		
Total Tetrachloro Biphenyls			83500	0.436		
Total Pentachloro Biphenyls			110000	0.529		
Total Hexachloro Biphenyls			68000	5.22		
Total Heptachloro Biphenyls			15900	0.338		
Total Octachloro Biphenyls			1960	0.221		
Total Nonachloro Biphenyls			61.1	0.0305		
Decachloro Biphenyl			4.22	0.0045		
TOTAL PCBs			309000			

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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02-03-2005 da-mm-yyyy

 AXYS METHOD MLA-010 Rev 05 PCB-TEO-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-C7-T1

.

Lab Name: AXYS ANALYTICAL SERVICES Sample Collection: 26-Aug-2004 Contract No.: 4033 Project Number: 04-08-06-21 TISSUE Lab Sample ID: L7510-13 Matrix: SPB-OCTYL GC Column ID(s): 10 1 Sample Size: g (wet) PB5C_076 S:8 PB5C_086 S:6 ng/kg (wet weight basis) Sample Datafile(s): Concentration Units :

							TE	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			194	0.435	0.0001	1 94E-02	1.94E-02
3,4,4',5-TetraCB	81		U		0.360	0.0001	1.80E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			2750	132	0.0001	2 75 E- 01	2.75E-01
2,3,4,4',5-PentaCB	114			149	0.256	0.0005	7.44E-02	7 44E-02
2,3',4,4',5-PentaCB	118			11400	115	0.0001	1.14E+00	1.14E+00
2',3,4,4',5-PentaCB	123			211	0.257	0.0001	2.11E-02	2.11E-02
3,3',4,4',5-PentaCB	126			15.0	0.310	0.1	1.50E+00	1.50E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	С	1160	0.395	0.0005	5 78E-01	5.78E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			561	0.308	0.00001	5.61E-03	5.61E-03
3,3',4,4',5,5'-HexaCB	169		U		5.22	0.01	2.61E-02	0.00E+00
2,3,3',4,4',5,5'-HeptaCB	189			32.5	0 338	0 0001	3 25E-03	3 25E-03

TOTAL TEQ 3.64 3.61

(1) C = co-eluting congener, U = not detected

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

these pages are part or a targer report that may contain information necessary for full data evaluation

14743PCBTEQ_1 xis_S17 (TEQ)

Man AMA Chemist Approved by

02**-**03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD = 0 803 2219 2045 MILLS RD, WEST, SIDNEY, B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 16684-S1_209 Page 1 of 6		PCB CONGE	Form 1A ENER ANALYSIS REPORT		CLIENT ID: LDW-C8-T	
				Sample Collection:	26-Aug-2004	
Lab Namo: AXYS ANALYTICAL	SERVICES			Project Number	04-08-06-21	
Contract No.:	4033			Lab Sample ID:	L7510-14	
Matrix:	TISSUE			Sample Size:	10.1	g (wet)
Sample Receipt Date:	17-Dec-2004			Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005			Instrument ID:	HR GC/MS	
Analysis Date:	13-Feb-2005		Time: 4:30:28	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20			Sample Data Filename:	PB5C_076 S:9	
Injection Volume (µL):	1 0			Blank Data Filename:	PB5C_074 S:7	

ng/kg (wet weight basis)

N/A

Dilution Factor:

Concentration Units :

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		В	74.8	0.0656	3.28	1.000
3 - MoCB	2		В	13.3	0.0691	3.27	0.988
4 - MoCB	3		В	29.0	0.0751	3.27	1.001
2,2' - DiCB	4		в	1300	0.488	1.50	1.002
2,3 - DICB	5			12.6	0.335	1.47	1.198
2,3' - DiCB	6		В	2470	0.320	1.51	1.176
2,4 - DiCB	7			76.8	0.319	1.50	1.160
2,4' - DiCB	8		В	1790	0.296	1.51	1.209
2,5 - DiCB	9			125	0.318	1.51	1.148
2,6 - DiCB	10			38.0	0.298	1.52	1.014
3,3' - DICB	11		R	183	0 341	1 48	0 969
3,4 - DiCB	12	12 + 13	С	532	0.343	1.47	0.984
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14			2.05	0 317	1.51	0.926
4,4' - DiCB	15		В	653	0.360	1 49	1 001
2,2',3 - TriCB	16		В	685	0.0636	1.06	1 165
2.2',4 - TriCB	17		E				
2.2'.5 - TriCB	18	18 + 30	CE				
2.2',6 - TriCB	19		В	1980	0.0734	1.06	1.001
2.3.3' - TriCB	20	20 + 28	CE				

Cal. Ver. Data Filename:

PB5C_076 S:1

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Approved by. Man Alan QA/QC Chemist

01-03-2005 dd-mm-yyyy

AXYS METHOD MLA-010 Rev 05
Form 1A
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Page 2 of 6 Lab

LDW-C8-T 04-08-06-21

orm 1A									
age 2 of 6 ab Sample ID	L	7510-14			Project Numbe Sample Data F		04-08-06-21 PB5C_076 S:9		
	COMPOUND	IUPAC	CO-ELUTIONS	LAB	CONC.	DETECTION	ION ABUND.	RRT	
	COMPOUND	NO.	CO-LEO HONG	FLAG ¹	FOUND	LIMIT	RATIO	i arti	
	2,3,4 - TriCB	21	21 + 33	СВ	1110	0 377	0.99	0.857	
	2.3.4' - TriCB	22		В	981	0.415	1.00	0.872	
	2.3.5 - TriCB	23			2.63	0 391	0.99	1 283	
	2,3,6 - TriCB	24			41 5	0 0421	1 10	1 158	
	2,3',4 - TriCB	25		E					
	2.3',5 - TriCB	26	26 + 29	CE					
	2.3',6 - TriCB	27		E					
	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		E					
	2,4',6 - TriCB	32		E					
	2',3,4 - TriCB	33	21 + 33	C21					
	2',3.5 - TriCB	34			166	0.385	0.99	1 273	
	3,3',4 - TriCB	35			49.6	0.449	0.98	0.985	
	3,3',5 - TriCB	36			63.7	0.401	0.99	0.931	
	3,4,4' - TriCB	37		в	640	0.427	0.99	1 001	
	3,4,5 - TriCB	38			61.2	0.444	0.93	0.969	
	3,4',5 - TriCB	39			64.1	0.403	0.96	0.946	
	2.2',3,3' - TeCB	40	40 + 41 + 71	CE					
	2,2',3,4 - TeCB	41	40 + 41 + 71	C40					
	2,2',3,4' - TeCB	42		E					
	2,2'.3,5 - TeCB	43		В	266	0 134	0 84	1.248	
	2,2',3,5' - TeCB	44	44 + 47 + 65	CE					
	2,2',3,6 - TeCB	45	45 + 51	CE					
	2,2',3,6' - TeCB	46			1970	0.135	0 79	1.161	
	2,2',4,4' - TeCB	47	44 + 47 + 65	C44					
	2,2',4,5 - TeCB	48		В	793	0 117	0.82	1.274	
	2,2',4,5' - TeCB	49	49 + 69	CE					
	2.2'.4,6 - TeCB	50	50 + 53	CE					
	2.2'.4.6' - TeCB	51	45 + 51	C45					
	2,2'.5,5' - TeCB	52		F					
	2,2',5,6' - TeCB	53	50 + 53	C50					
	2,2',6,6' - TeCB	54			255	0.105	0.79	1.001	
	2,3,3',4 - TeCB	55			191	0.503	0.75	0.890	
	2.3.3',4' - TeCB	56		В	2140	0.513	0.76	0.905	
	2,3,3',5 - TeCB	57			1040	0.483	0.76	0.844	
	2.3.3'.5' - TeCB	58			353	0.479	0.76	0.852	
	2,3.3',6 - TeCB	59	59 + 62 + 75	CE					
	2,3,4,4" - TeCB	60		В	607	0.514	0.75	0.911	
	2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	CE					
	2,3,4,6 - TeCB	62	59 + 62 + 75	C59					
	2.3.4',5 - TeCB	63			716	0 474	0 76	0 864	

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Approved by

QA/QC Chemist

01-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD PO 80X 2219 2045 MILLS RD WEST SIDNEY B (... CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A Page 3 of 6 _7510-14

Lab Sample ID

CLIENT ID:

Project Number Sample Data Filename 04-08-06-21 PB5C_076 S:9

LDW-C8-T

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAR FLAG ¹			ION ABUND RATIO	RRT
2,3.4',6 - TeCB	64		E				
2,3.5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		E				
2,3',4,5 - TeCB	67			1740	0 440	0.75	0.857
2.3',4,5' - TeCB	68			1680	0 458	0.74	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			3060	0,463	0.74	0.822
2,3',5',6 - TeCB	73			462	0.0882	0.80	1.243
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		В	454	0.551	0.75	1.000
3,3',4,5 - TeCB	78		U		0 576		
3,3',4,5' - TeCB	79			504	0 473	0.71	0.971
3.3',5,5' - TeCB	80		υ		0 478		
3,4,4',5 - TeCB	81		К	26.7	0.462	0.68	1.001
2,2',3,3',4 - PeCB	82			2020	0 782	1 58	0.934
2,2',3,3',5 - PeCB	83	83 + 99	CE				
2,2',3,3',6 - PeCB	84		E				
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СE				
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CE				
2,2',3,4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2*,3,4,6 - PeCB	88	88 + 91	CE				
2,2',3,4,6' - PeCB	89			182	0 670	1.60	1.182
2.2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		Е				
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CE				
2,2',3,5,6' - PeCB	04			338	0.639	1.58	1.101
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			424	0.0675	1 60	1 015
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2.2',4.5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4.5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103			1350	0.557	1.58	1.093
2.2'.4,6,6' - PeCB	104			35 9	0 0804	1.54	1 001
2,3,3',4,4' - PeCB	105		E				
2.3.3',4,5 - PeCB	106		U		0.285		

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AXYS ANALYTICAL SERVICES LTD 20 80X 2219, 2045 MILLS RD. WEST, SIDNEY B (CANADA V8) 358 TEL (250) 655-5800 FAX (250, 655 581)

AXYS METHOD MLA-01	0 Rev 05	CLIENT ID:	LDW-C8-T
Form 1A			
Page 4 or 6		Project Number:	04-08-06-21
Lab Sample D	_ ~f10-14	Sample Data Filename	PB5C_076 S:9

COMPOUND	IUPAC NO.	CO-ELUTIONS	I AR FLAG ¹	CONC FOUND	DETECTION	ION ABUND. RATIO	RRT
2.3.3'.4'.5 - PeCB	107	107 + 124	С	925	0.289	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			2810	0.262	1.54	0.997
2,3.3',4',6 - PeCB	110	110 + 115	CE				
2.3,3',5,5' - PeCB	111			81 3	0.510	1 47	0 945
2,3,3',5,6 - PeCB	112		U		0.512		
2.3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114			359	0.300	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			417	0.519	1.56	0 959
2,3',4,5',6 - PeCB	121			40 2	0 477	1 60	1.200
2',3,3',4,5 - PeCB	122			290	0.317	1.54	1.010
2',3,4,4',5 - PeCB	123			453	0.304	1.54	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			41.0	0.353	1.49	1 000
3,3',4,5,5' - PeCB	127			62.2	0.314	1.51	1.042
2,2'.3.3',4,4' - HxCB	128	128 + 166	СВ	5480	0.462	1.27	0.958
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',3,3',4,5' - HxCB	130			2490	0.560	1.27	0.913
2,2',3,3',4,6 - HxCB	131			343	0 483	1.28	1.159
2,2',3,3',4,6' - HxCB	132		Е	000	0.400	4.07	4 404
2,2',3,3',5,5' - HxCB	133	424 - 440	6	900	0 492	1.27	1 191
2.2',3.3'.5,6 - HxCB	134	134 + 143	С	2490	0 502	1.27	1.139
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	C E B	5050	0.0000	4.07	4 004
2,2',3,3',6.6' - HxCB	136 137		D	5250 2000	0.0866 0.517	1 27 1 26	1.024 0.918
2,2',3,4,4',5 - H×CB 2,2',3,4,4',5' - HxCB	137	129 + 138 + 160 + 163	C129	2000	0.517	1.20	11916
2,2',3,4,4',6 - HxCB	139	139 + 140	C	768	0.449	1.27	1 152
2,2',3,4,4',6' - HxCB	139	139 + 140	C139	700	0.445	1.2.1	1152
2,2',3,4,5,5' - HxCB	140	133 1 140	B	3090	0 506	1.27	0 903
2,2',3,4,5,6 - HxCB	141		U	0000	0.510	1.21	0.000
2,2',3,4,5,6' - HxCB	143	134 + 143	C134		0.010		
2.2'.3.4.5'.6 - HxCB	143	10-1-10	0104	876	0 119	1,27	1,121
2,2',3,4,6,6' - HxCB	144			14.8	0.0878	1.27	1.033
2,2',3,4'.5,5' - HxCB	146		В	6130	0 451	1 27	0.884
2,2',3,4'.5,6 - HxCB	147	147 + 149	CE				0.001
2,2',3,4',5.6' H×CB	1 18			110	0.118	1 26	1 083
2.2',3.4'.5'.6 - HxCB	149	147 + 149	C147				

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Approved by ____

_QA/QC Chemist

01-03-2005 dd-mm-yvyy

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12

AXYS METHOD MLA-010 Rev 05 1668A-31 209 Page 1 of 6	PCI	Form 1A 3 CONGENER ANALYSIS R	EPORT			CLIENT ID: LDW-C8-T	
				Sample Collect	ion:	26-Aug-2004	
Lab Name: AXYS ANALYTICAL S	ERVICES			Project Numbe	r-	04-08-06-21	
Contract No.:	4033			Lab Sample ID:		L7510-14 W	
Matrix:	TISSUE			Sample Size:		10.1	g (wet)
Sample Receipt Date:	17-Dec-2004			Initial Calibratio	on Date:	04-Feb-2005	
Extraction Date:	.)າ-Jan-2005			Instrument ID:		HR GC/MS	
Analysis Date:	18-Feb-2005	Time: 2:36:14		GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	500			Sample Data Fi	lename:	PB5C_086 S:7	
Injection Volume (μL):	10			Blank Data File	name:	PB5C_074 S 7	
Dilution Factor:	25			Cal. Ver. Data F	ilename:	PB5C_086 S [.] 1	
Concentration Units :	ng/kg (wet weight basis)						
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB 3 - MoCB							
4 - MoCB							
2,2' - DICB							
2,3 - DiCB							
2,3' - DiCB							
2,4 - DICB 2,4' - DICB							
2,4 - DICB 2,5 - DICB							
2.6 - DiCB							
3,3' - DICB							
3.4 - DiCB		12 + 13					
3,4' - DiCB	13	12 + 13					
3,5 - DICB	14						
4.4' - DiCB	15						
2.2'.3 - TriCB	16						
2.2'.4 - TriCB	17		DВ	4090	0 469	1 06	1 140
2.2',5 - TriCB	18	18 + 30	CDB	10700	0 383	1.06	1.114
2,2',6 - TriCB	19						
2.3.3' - TriCB	20	20 + 28	CDB	8680	52.0	1.01	0.848

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Approved by Manadom CA/QC Chemist

02-03-2005 ad-mm-yyyy

AXYS METHOD	MLA-010	Rev	05
Form 1A			

Page 2 of 6 Lab Sample

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Allen -

CLIENT ID:

LDW-C8-T

2 of 6 ample ID	l	751()-14 W			Project Numbe Sample Data F		04-08-06-21 PB5C_086 S:7	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
	2,3,4 - TriCB	21	21 + 33					
	2,3,4' - IriCB	22						
	2.3.5 - TriCB	23						
	2,3,6 - TriCB	24						
	2,3'.4 - TriCB	25		DB	14300	42 1	1.01	0.825
	2.3'.5 - TriCB	26	26 + 29	CDB	38300	50.9	1.02	1,303
	2,3',6 - TriCB	27		DB	7670	0.327	1.06	1.152
	2.4,4" - TriCB	28	20 + 28	C20				
	2,4,5 - TriCB	29	26 + 29	C26				
	2,4,6 - TriCB	30	18 + 30	C18				
	2,4 ' ,5 - TriCB	31		DB	10700	51.1	1.02	0 837
	2,4',6 - TriCB	32		DB	3530	47.1	1.01	1.198
	2',3,4 - TriCB	33	21 + 33					
	2',3,5 - TriCB	34						
	3,3',4 - TriCB	35						
	3.3',5 - TriCB	36						
	3,4,4' - TriCB	37						
	3,4,5 - TriCB	38						
	3,4',5 - TriCB	39						
	2,2',3,3' - TeCB	40	40 + 41 + 71	CDB	14700	3.77	0.79	1.338
	2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
	2.2',3.4' - TeCB	42		DB	6420	3.46	0.79	1.313
	2,2',3,5 - TeCB	43						
	2,2',3,5' - TeCB	44	44 + 47 + 65	CDB	38800	3.35	0.79	1.286
	2,2'.3,6 - TeCB	45	45 + 51	СDВ	5410	3.63	0.79	1.148
	2,2',3,6' - TeCB	46						
	2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
	2,2',4,5 - TeCB	48						
	2,2',4.5' - TeCB	49	49 + 69	CDB	60200	3 10	0 79	1 260
	2,2',4,6 - TeCB	50	50 + 53	CDB	13000	3.50	0 79	1 110
	2.2'.4.6' - TeCB	51	45 + 51	C45				
	2,2'.5,5' ToCB	52		DB	110000	3,66	0 79	1.235
	2,2',5,6' - TeCB	53	50 + 53	C50				
	2.2'.6,6' - TeCB	54						
	2.3,3 ',4 - TeCB	55						
	2,3,3',4' - TeCB	56						
	2,3,3',5 - TeCB	57						
	2,3,3',5' - TeCB	58						
	2.3.3'.6 - TeCB	59	59 + 62 + 75	CDB	6630	2.81	0.78	1,303
	2.3.4.4' ~ TeCB	60						
	2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	CDB	17300	65.9	0.76	0.875
	2.3.4.6 - TeCB	62	59 + 62 + 75	C59				
	234'5 - TeCR	63						

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QA/QC Chemist

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AXYS METHOD MLA-010 Rev 0	5	CLIENT ID:	LDW-C8-T
Form 1A			
Page 3 of 6		Project Number	04-08-06-21
Lab Sample ID	L7510-14 W	Sample Data Filename	PB5C_086 S 7

COMPOUND	NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND. RATIO	RRT
2,3.4',6 - TeCB	64		DB	5180	2.64	0.79	1 349
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2,3',4,4' - TeCB	66		DB	13300	67.2	0 75	0.884
2,3'.4,5 - TeCB	67						
2.3'.4,5' - TeCB	68						
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						
2,3',5',6 - TeCB	73						
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						
3,3',4,5 - TeCB	78						
3,3',4,5' - TeCB	79						
3,3',5,5' - TeCB	80						
3.4.4',5 - TeCB	81						
2,2',3,3'.4 - PeCB	82						0.005
2,2',3,3'.5 - PeCB	83	83 + 99	CDB	37200	194	1 58	0 885
2.2',3.3'.6 - PeCB	84		DB	14000	196	1.60	1 162
2,2',3,4,4' - PeCB	85	85 + 116 + 117	CDB	5100	161	1 58	0.919
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CDB	22500	156	1 59	0.900
2,2',3.4,5' - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C86 C D B	13100	171	1.59	1,154
2,2'.3,4,6 - PeCB	88	88 + 91	CDB	13100	171	1.59	1.104
2,2',3,4.6' - PeCB	89	00 + 404 + 442	CDB	46200	161	1.59	0.869
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CDB	46300	101	1.59	0.009
2,2',3.4',6 - PeCB	91	88 + 91	C88	16200	192	1.59	0.853
2.2',3,5,5' - PeCB	92		D B C D B	58500	166	1.59	1,121
2.2'.3.5.6 - PeCB	93 94	93 + 95 + 98 + 100 + 102	CDB	58500	100	1 39	1.121
2,2'.3,5,0' - FeCB 2.2'.3,5'.6 - PeCB	94 95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	90 96	93 + 95 + 96 + 106 + 102	000				
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',4.4 .6 - PeCB	100	90 + 101 + 113	C90				
2.2',4.5,6' - PeCB	101	93 + 95 + 98 + 100 + 102	C93				
2.2',4.5'.6 - PeCB	102	00.00 00.00 00.00					
2.2',4,6.6' - PeCB	104						
2.3.3',4.4' - PeCB	105		DB	6680	318	1 56	1 001
2.3.3',4.5 - PeCB	106						

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MO AXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD WEST, SIDNEY, B.C., CANADA V8L 358 TEL (250) 655-5800 FAX (250) 655-5811

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AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID: LDW-C8-T

Form 1A

HOMOLOGUE TOTAL POLYCHLORINATED BIPHENYLS (PCB) ANALYSIS REPORT

			Sample Collection:		26-Aug-2004	
Lab Name: AXYS ANALYTICAL S	ERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-14	
Matrix:	TISSUE		Sample Size:		10.1	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration Da	ite:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 4:30:28	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename):	PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filena	ime:	PB5C_076 S:1	
Dilution Factor:	N/A		Sample Datafile(s):	PB5C_076 S:9 PB5C_086 S:7		
Concentration Units :	ng/kg (wet weight ba	ຮiຣ)			PD30_080 3.7	
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			117	0.0751		
Total Dichloro Biphenyls			7180	0.488		
Total Trichloro Biphenyls			104000	0.449		
Total Tetrachloro Biphenyls			307000	0.576		
Total Pentachloro Biphenyls			322000	0.782		
Total Hexachloro Biphenyls			158000	11.8		
Total Heptachloro Biphenyls			27400	0.593		
Total Octachloro Biphenyls			3670	0.526		
Total Nonachloro Biphenyls			234	0.0715		
Decachloro Biphenyl			18.3	0.0064		
TOTAL PCBs			930000			

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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CAY'S ANALYTICAL SERVICES LTD 9.0 BOX 2719 2045 MILLS RD, WEST, SIDNEY B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 08 Hose Str 209 Page 1 of 6	5	Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-C9-T	
			Sample Collection:	25-Aug-2004	
Lab Name, AXYS ANALYTICAL	SERVICES		Project Number:	04 08 06 21	
Contract No.:	4033		Lab Sample ID:	L7510-15	
Matrix:	TISSUE		Sample Size:	10 1	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 5:34:40	GC Column ID:	SPB-OCTYL	
Extract Volume (μL):	20		Sample Data Filename:	PB5C_076 S:10	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_076 S:1	

ng/kg (wet weight basis)

Concentration Units :

o COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND		ION ABUND. RATIO	RRT
2 - MoCB	1		JB	1.43	0.0269	3.17	1.001
3 - MoCB	2		JB	0.310	0.0291	3.43	0.989
4 - MoCB	3		JB	0.781	0 0325	3.35	1 001
2,2' - DiCB	4		В	37.5	0.0831	1.49	1 001
2,3 - DiCB	5		J	0.624	0.0602	1 39	1 198
2,3' - DiCB	6		В	26.2	0 0576	1.49	1.175
2,4 - DiCB	7			2.30	0.0573	1 51	1.158
2,4' - DiCB	8		В	53.5	0.0533	1 49	1.208
2,5 - DiCB	9			3.78	0.0573	1 49	1.146
2,6 - DiCB	10		J	1 91	0.0535	1 50	1.013
3,3' DiCB	11		B	17.6	0.0613	1.57	0 969
3,4 - DiCB	12	12 + 13	С	15.0	0.0617	1.50	0.984
3,4' - DiCB	13	12 + 13	C12				
3,5 - DICB	14		U		0.0570		
4,4' - DiCB	15		В	79.5	0.0672	1 50	1.001
2,2',3 - TriCB	16		В	125	0.0891	1.06	1.165
2,2',4 - TriCB	17		В	255	0.0823	1.06	1.139
2,2',5 - TriCB	18	18 + 30	СВ	445	0 0665	1.06	1.113
2.2',6 - TriCB	19		В	64.5	0 0927	1.06	1.001
2,3,3' - TriCB	20	20 + 28	СВ	1110	0.107	1.00	0.848

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CARACTER ANALYTICAL SERVICES LTD R.O. BOX 2219, 2045 MILLS RD. WEST SIDNEY, B.C. (ANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A

L7510-15

Page 2 of 6

Lab Sample ID

LDW-C9-T

Project Number. Sample Data Filename

04-08-06-21 PB5C_076 S:10

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	СВ	250	0 105	1.00	0.857
2,3,4' - TriCB	22		В	257	0.115	0.99	0.872
2,3,5 - TriCB	23		J	0.558	0 109	0.99	1.284
2,3,6 - TriCB	24			4.83	0.0589	1.02	1.159
2.3'.4 - TriCB	25		В	230	0.0965	0.99	0.825
2.3',5 - TriCB	26	26 + 29	СВ	509	0 108	1.00	1.302
2,3',6 - TriCB	27		В	107	0.0560	1.06	1.152
2,4,4' - TriCB	28	20 + 28	C20				
2,4,5 - TriCB	29	26 + 29	C26				
2,4,6 - TriCB	30	18 + 30	C18				
2,4',5 - TriCB	31		В	799	0 104	1.00	0.837
2,4',6 - TriCB	32		В	218	0.100	0.99	1.198
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34			6.30	0.107	0.99	1 275
3,3',4 - TriCB	35			11.6	0.125	1.03	0.985
3,3',5 - TriCB	36		J	1.00	0.112	0.97	0.932
3,4,4' - TriCB	37		В	229	0.126	1.00	1.001
3,4,5 - TriCB	38			2.20	0.124	0.94	0.969
3,4',5 - TriCB	39			8.44	0.112	0.94	0.947
2,2',3,3' - TeCB	40	40 + 41 + 71	СВ	786	0.105	0.79	1.337
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		В	452	0.107	0.79	1.312
2,2',3,5 - TeCB	43		В	57.7	0.117	0.79	1.247
2.2',3,5' - TeCB	44	44 + 47 + 65	СВ	1900	0.0950	0.79	1 287
2,2',3,6 - TeCB	45	45 + 51	СВ	248	0 100	0.79	1 147
2,2',3,6' - TeCB	46			81.4	0.117	0.79	1 162
2,2',4,4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48		В	245	0.102	0.79	1 275
2,2',4,5' - TeCB	49	49 + 69	СВ	1680	0.0890	0.79	1.260
2,2',4,6 - TeCB	50	50 + 53	СВ	306	0.0967	0.80	1.111
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' - TeCB	52		F				
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54			5.46	0.0808	0.77	1.001
2.3,3',4 - TeCB	55			29.7	0.498	0.76	0.890
2,3,3',4' - TeCB	56		В	626	0.508	0 76	0.905
2,3,3',5 - TeCB	57			26.8	0 479	0.73	0.844
2,3,3',5' - TeCB	58			12 1	0 475	0.78	0.852
2,3,3',6 - TeCB	59	59 + 62 + 75	СВ	216	0.0792	0.79	1 303
2,3,4,4' - TeCB	60		В	292	0.510	0.76	0.911
2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	CE				
2.3.4,6 - TeCB	62	59 + 62 + 75	C59				
2 3 4' 5 - TeCB	63			66.3	0.469	0.74	0.865

01-03-2005 14743AD3_1 xls 58 Approved by QA/QC Chemist dd-mm-yyyy 028

AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD, WEST, SIDNEY, B.C., (ANADA V8L 358 FEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A

Page 3 of 6

Lab Sample ID

L7510-15

LDW-C9-T

Project Number Sample Data Filename. 04-08-06-21 PB5C_076 S:10

COMPOUND	NO.	CO-FUUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4'.6 - TeCB	64		В	609	0.0785	0.79	1 350
2.3.5,6 - TeCB	65	44 + 47 + 65	C44				
2.3',4,4' - TeCB	66		В	1730	0 481	0.75	0 885
2.3',4.5 - TeCB	67			63.5	0 436	0 75	0 856
2.3'.4.5' - TeCB	68			36.2	0 454	0 73	0 832
2,3',4,6 - TeCB	69	49 + 69	C49				
2.3',4',5 - TeCB	70	61 + 70 + 74 + 76	C61				
2.3'.4',6 - TeCB	71	40 + 41 + 71	C40				
2,3',5,5' - TeCB	72			69 4	0.459	0.76	0.822
2,3',5',6 - TeCB	73		U		0.0768		
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 - 1eCB	/6	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB	77		в	110	0.549	0.76	1 001
3,3',4,5 - TeCB	78		U		0.571		
3,3',4,5' - TeCB	79			37 4	0.469	0.71	0 970
3,3'.5,5' - TeCB	80		U		0.474		
3,4,4',5 - TeCB	81		К	5.35	0.508	0.77	1 001
2,2',3,3',4 - PeCB	82			309	0.472	1.60	0.933
2,2',3,3',5 - PeCB	83	83 + 99	CE				
2,2',3,3',6 - PeCB	84		В	655	0.430	1.58	1 163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СВ	600	0.347	1.58	0.920
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	СВ	1970	0.349	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	СВ	522	0.372	1 59	1.154
2,2',3,4,6' - PeCB	89			27.0	0.404	1.61	1,182
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		В	1120	0.396	1.58	0.853
2,2',3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CE				
2,2',3,5,6' PoCB	94			19.1	0.386	1 59	1 102
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			19.5	0.0710	1,59	1.015
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2,2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2.2'.4.4'.6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4 ,0 - PeCB	100	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2.2',4.5',6 - PeCB	103	00 00 00 100 100	000	61.3	0.336	1.60	1.093
2,2',4,6,6' - PeCB	104		J	1 02	0.0789	1.64	1.001
2.3,3',4.4' - PoCB	105		R	917	0 439	1.52	1 000
2.3.3'.4.5 - PeCB	106		U		0 440		, 000
2,0,0,410 1 000	100		Ŭ				

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__QA/QC Chemist

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2// AXYS ANALYTICAL SERVICES LTD P.O. 80X 2219, 2045 MILLS RD. WEST, SIDNEY, B.C. CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010) Rev 05	CLIENT ID:	LDW-C9-T
Form 1A			
Page 4 of 6		Project Number.	04-08-06-21
Lab Sample ID	L7510-15	Sample Data Filename	PB5C_076 S:10

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3.3'.4'.5 - PeCB	107	107 + 124	С	125	0.445	1.53	0,990
2,3,3'.4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125	C86				
2.3.3',4,6 - PeCB	109			243	0.404	1.53	0.997
2,3,3',4',6 - PeCB	110	110 + 115	CE				
2.3,3',5,5' - PeCB	111			5.24	0 308	1.64	0.945
2.3.3',5,6 - PeCB	112		U		0.309		
2.3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4.4'.5 - PeCB	114			56.9	0 446	1.53	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			24.8	0.313	1.62	0.958
2,3',4,5',6 - PeCB	121		J	1.98	0.288	1.52	1.201
2',3,3',4,5 - PeCB	122			43.5	0.488	1.53	1.010
2',3,4,4',5 - PeCB	123			59.1	0.434	1.53	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			5.22	0.514	1.53	1.000
3,3',4,5,5' - PeCB	127			6.40	0.484	1 54	1 042
2,2',3,3',4.4' - HxCB	128	128 + 166	СВ	562	0.353	1.27	0.958
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СВ	4460	0.339	1.26	0.929
2,2',3,3',4,5' - HxCB	130			329	0.429	1 20	0.913
2,2',3,3',4,6 - HxCB	131			40.5	0.370	1 29	1 159
2,2',3,3',4,6' - HxCB	132		В	1210	0.386	1.27	1 174
2.2'.3,3',5,5' - HxCB	133			134	0.377	1.26	1.191
2,2',3,3',5.6 - HxCB	134	134 + 143	С	250	0.384	1.29	1.139
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	СВ	2080	0 100	1.27	1.103
2,2',3,3'.6,6' - HxCB	136		В	521	0.0764	1.28	1.024
2.2',3,4.4',5 - HxCB	137		0.400	204	0 396	1 26	0.918
2.2',3,4.4',5' - HxCB	138	129 + 138 + 160 + 163	C129	04.0	0.040	1.00	4 450
2,2',3,4,4',6 - HxCB	139	139 + 140	C	81.8	0.343	1.26	1.153
2.2'.3,4,4'.6' - HxCB	140	139 + 140	C139	F00			0.000
2,2',3,4,5,5' - HxCB	141		В	528	0.387	1.27	0.903
2.2'.3,4.5,6 - HxCB	142	404 - 440	U		0,390		
2.2',3.4.5.6' - HxCB	143	134 + 143	C134	100	0.405	1.00	4 404
2,2',3,4,5',6 - HxCB	144		J	190	0.105	1.26	1 121 1 033
2,2',3,4,6,6' - HxCB	145		J B	1 16 1010	0.0775	1.18	0 884
2,2'.3,4'.5,5' - HxCB	146	147 + 149	СВ	4140	0.345	1.27	
2,2',3,4',5,6 - HxCB 2,2' 3,4' 5.6' - HxCB	147 148	147 + 149	СВ	4140 16 4	0.328	1.27	1.133
2,2',3,4',5',6 - HxCB	148 149	147 + 149	C147	10 4	0 104	1 32	1.084
5 , 0 , V , V , O - 11 A O D	140		U 1 T 1				

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Approved by

_QA/QC Chemist

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0 AXYS ANALYTICAL SERVICES LTD PO, BOX 2219, 2045 MILLS RD. WEST SIDNEY, B.C. CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD	MLA-010	Rev	05
Form 1A			

Page 5 of 6 Lab Sample ID CLIENT ID:

LDW-C9-T

1A								
o of 6					Project Numbe	r	04-08-06-21	
imple ID	ι	_7510-15			Sample Data F	ilename:	PB5C_076 S 10	
COP	WPOUND	IUPAC NO.	CO-ELUTIONS	LAB FI AG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2',3.4',6.6	5' - HxCB	150			8,66	0 0739	1 34	1.012
2,2',3,5,5',		151	135 + 151 + 154	C135				
2,2'.3,5,6,6		152			3.27	0.0717	1.28	1 006
2,2',4,4',5,5	5' - HxCB	153	153 + 168	CE				
2,2'.4,4',5,6		154	135 + 151 + 154	C135				
2.2'.4.4'.6.6		155		J	0.689	0.0759	1.38	1.001
2,3.3',4,4',		156	156 + 157	СВ	313	0.374	1 26	1.000
2,3,3',4,4',5	5' - HxCB	157	156 + 157	C156				
2,3,3',4,4'.		158		В	407	0.282	1 27	0.938
2,3,3',4,5,5		159		U		0.317		
2,3,3',4,5,		160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',		161		U		0.284		
2,3,3',4',5,5		162			11.0	0.317	1.23	0.989
2,3,3',4',5,		163	129 + 138 + 160 + 163	C129				
2,3,3',4',5',		164		в	372	0.297	1.26	0.921
2,3.3',5.5',	6 - HxCB	165			3.50	0.301	1.23	0.878
2,3,4,4',5,		166	128 + 166	C128				
2,3',4,4',5,5	5' - HxCB	167		в	157	0.288	1.27	1 000
2,3'.4,4',5',	6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5	5' - HxCB	169		U		3.15		
2,2',3,3',4,4',	5 - HpCB	170		В	495	0.150	1.06	0.936
2,2',3,3',4,4',	6 - HpCB	171	171 + 173	С	347	0.140	1 05	1.162
2,2',3,3',4,5,5	5' - HpCB	172			96.7	0 146	1 06	0.897
2,2',3,3',4,5,		173	171 + 173	C171				
2,2',3,3',4,5,6	6' - HpCB	174		В	693	0.124	1.06	1.133
2,2',3,3',4,5',	6 - HpCB	175			69 4	0.120	1.05	1.102
2,2',3,3',4,6,6	6' - HpCB	176			151	0.0886	1.06	1.034
2,2',3,3',4',5,	6 - HpCB	177		В	1050	0.139	1.07	1.145
2,2',3,3',5,5',	6 - HpCB	178			491	0.125	1.06	1.085
2,2',3,3',5,6,6		179		В	567	0.0862	1.06	1.009
2,2',3,4,4',5,5		180	180 + 193	СВ	2250	0 116	1 06	0.910
2,2',3,4,4'.5,		181			7.22	0.127	0 98	1,156
2,2',3,4,4',5.6		182			12.0	0 124	1.04	1.116
2,2',3,4,4',5',		183	183 + 185	СB	930	0.122	1.07	1.127
2,2',3,4,4',6,6		184		J	0.897	0 0817	1.05	1.025
0.01.0.4.5.51		105	192 + 195	C102				

C183

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В

В

U

183 + 185

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2,2',3,4,5,5',6 - HpCB

2,2',3,4,5,6,6' - HpCB

2,2',3,4',5,5',6 - HpCB

2.2',3.4'.5.6.6' - HpCB

2,3,3',4,4',5,5' - HpCB

2,3,3',4,4',5,6 - HpCB

2,3.3',4.4',5',6 - HpCB

2.3,3',4,5,5',6 HpCB

Approved by _

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2130

3 02

13 6

173

516

0.0899

0.114

0.0759

0.235

0.112

0 109

0 114

1.06

0 97

0.93

1 06

1 04

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1.110

1.000

1.001

0.947

0.918

101

MAXYS ANALYTICAL SERVICES LTD PO 80X 2219, 2045 MILLS RD WEST SIDNEY B.(. CANADA VAL 358 TEL (250) 655-5800 FAX (250) 655-581

AXYS METHOD N	VLA-010 Rev 05				CLIENT ID:		LDW-C9-T	
Form 1A Page 6 of 6					Project Numbe	· F*	04-08-06-21	
Lab Sample (D	-	7510-15			Sample Data F		PB5C_076 S 10	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	

			1240				
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2'.3,3',4,4'.5,5' - OcCB	:94		В	95 7	0 126	0.89	0.991
2.2',3.3',4.4',5,6 - OcCB	195		В	55 0	0.133	0.88	0,945
2,2',3,3',4,4',5,6' - OcCB	196		В	205	0.0263	0.91	0.916
2,2',3.3',4,4',6.6' - OcCB	197	197 + 200	С	33 7	0.0183	0.92	1 045
2,2',3,3',4,5,5',6 - OcCB	198	198 + 199	СВ	456	0.0261	0.92	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		В	88.1	0.0187	0.92	1.023
2,2',3,3',5,5',6,6' - OcCB	202		В	198	0.0209	0 92	1.001
2,2',3,4,4',5,5',6 - OcCB	203		В	147	0.0240	0.93	0.920
2,2',3,4,4',5,6,6' - OcCB	204		KJB	0.076	0 0183	1.05	1.040
2,3,3',4,4',5,5',6 - OCCB	205		В	8.87	0 102	0.90	1.000
2,2',3,3',4,4',5,5',6 - NoCB	206		В	22.9	0 0356	0.81	1.000
2,2',3,3',4,4',5,6,6' - NoCB	207			2.67	0 0292	0 76	1.020
2,2',3,3',4,5,5',6,6' - NoCB	208		В	5.71	0.0315	0 81	1.000
2,2',3,3',4,4',5,5',6,6' - DeCB	209		В	3.29	0.0028	0.71	1.000

(1) C = co-eluting congener U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL. B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by

QA/QC Chemist

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RRT

() BOX 2219 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA VBL 358 FEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 HARA S1 200 Page 1 of 6	PCB	Form 1A CONGENER ANALYSIS RE	PORT			CLIENT ID: LDW-C9-T	
				Sample Collect	ion:	25-Aug-2004	
Lab Name, AXYS ANALYTICAL S	ERVICES			Project Number		04-08-06-21	
Contract No.:	4033			Lab Sample ID:		∟7510-15 W	
Matrix:	TISSUE			Sample Size:		10 1	g (wet)
Sample Receipt Date:	17-Dec-2004			Initial Calibratio	n Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005			Instrument ID:		HR GC/MS	
Analysis Date:	17-Feb-2005	Time: 6:05.18		GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	200			Sample Data Fil	ename:	PB5C_084 S:10	
Injection Volume (µL):	1 ()			Blank Data Filer	name:	PB5C_074 S 7	
Dilution Factor:	10			Cal. Ver. Data F	ilename:	PB5C_084 S.1	
Concentration Units :	ng/kg (wet weight basis)						
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB 3 - MoCB 4 - MoCB 2,2' - DiCB 2,3 - DiCB 2,3' - DiCB 2,4 - DiCB 2,4 - DiCB 2,5 - DiCB 2,6 - DiCB 3,3' DiCB 3,4' - DiCB 3,4' - DiCB 3,4' - DiCB 3,5 - DiCB	2 3 4 5 6 7 8 9 10 11 12 13	12 + 13 12 + 13					
4,4' - DICB 2,2',3 - TriCB 2,2',4 - TriCB 2,2',5 - TriCB 2,2',6 - TriCB	16 17 18	18 + 30 20 + 28					

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Approved by

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CALSERVICES LTD RO BOX 2219 2045 MILLS RD WEST, SIDNEY, B.C., CANADA VBL 358 FEI (250) 655-5800 FAX (250) 655-5801

AXYS METHOD N	ILA-010 Rev 05				CLIENT ID-		LDW-C9-T	
Form 1A					Project Numbe		04-08-06-21	
Page 2 of 6 Lab Sample ID	L	7510-15 W			Sample Data F		PB5C_084 S·10	
	COMPOUND	IUPAC	CO-ELUTIONS	LAB	CONC.		ION ABUND. RATIO	RRT
		NO.		FLAG ¹	FOUND	LIMIT	RATIO	
	2.3.4 - TriCB	21	21 + 33					
	2.3.4' - TriCB	22						
	2.3.5 - TriCB	23						
	2.3.6 - TriCB	24						
	2.3',4 - TriCB	25						
	2,3',5 - TriCB	26	26 + 29					
	2.3',6 - TriCB	27						
	2,4,4' - TriCB	28	20 + 28					
	2,4,5 - TriCB	29	26 + 29					
	2,4,6 - TriCB	30	18 + 30					
	2,4',5 - TriCB	31						
	2,4',6 - TriCB	32						
	2',3,4 - TriCB	33	21 + 33					
	2',3.5 - TriCB	34						
	3,3',4 - TriCB	35						
	3,3',5 - TriCB	36						
	3,4,4' - TriCB	37						
	3,4,5 - TriCB	38						
	3,4',5 - TriCB	39						
	2,2',3,3' - TeCB	40	40 + 41 + 71					
	2,2',3,4 - TeCB	41	40 + 41 + 71					
	2,2',3,4' - TeCB	42	10 - 11 - 71					
	2,2'.3,5 - TeCB	43						
	2,2',3,5' - TeCB	44	44 + 47 + 65					
	2,2',3,6 - TeCB	44 45	45 + 51					
	2,2',3,6' - TeCB	46	40, 01					
		40 47	44 + 47 + 65					
	2,2',4,4' - TeCB	48	44 (47 (05					
	2,2',4,5 - TeCB		49 + 69					
	2,2',4,5' - TeCB 2,2',4,6 - TeCB	49 50	49 + 09 50 + 53					
	2,2',4,6' - TeCB	50	45 + 51					
			457.51	DB	3800	0.302	0.70	1 236
	2,2',5,5' · TcCB	52 53	50 + 53	UB	3800	0.302	0.70	1 230
	2,2',5,6' - TeCB 2,2',6,6' - TeCB	54	30 - 33					
	2,3.3',4 - TeCB	55						
	2.3.3',4' - TeCB	56 57						
	2,3,3',5 - TeCB	57						
	2.3,3',5' - TeCB	58	FD - 00 - 75					
	2,3,3',6 - TeCB	59 60	59 + 62 + 75					
	2,3,4,4' - TeCB	60 61	61 + 70 - 74 - 76	СDВ	2630	18.9	0 75	0.876
	2,3,4,5 - TeCB	61	61 + 70 + 74 + 76	CDB	2030	10.9	015	0.070
	2,3,4,6 - TeCB	62	59 + 62 + 75					

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CARE ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD. WEST. SIDNEY B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05	i			CLIENT ID:		LDW-C9-T	
Form 1A							
Page 3 of 6				Project Number		04-08-06-21	
Lab Sample ID	1.7510-15 W			Sample Data File	ename:	PB5C_084 S:10	
COMPOUN		CO-ELUTIONS	LAB	CONC.	DETECTION	ION ABUND	RRT
	NO.		FLAG ¹	FOUND	LIMIT	RATIO	
2.3.4'.6 - TeC							
2.3,5,6 - TeC		44 + 47 + 65					
2,3',4,4' - TeC							
2.3'.4,5 - TeC							
2,3',4.5' - TeC	B 68						
2,3'.4,6 - TeC	B 69	49 + 69					
2,3',4',5 - TeC	B 70	61 + 70 + 74 + 76	C61				
2,3',4',6 - TeC	B 71	40 + 41 + 71					
2,3',5,5' - TeC	B 72						
2,3',5',6 - TeCl	B 73						
2,4,4',5 - TeCl	B 74	61 + 70 + 74 + 76	C61				
2,4,4',6 - TeCl	B 75	59 + 62 + 75					
2',3,4,5 - TeCl	3 76	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCI	3 77						
3,3',4,5 - TeCl							
3,3',4,5' - TeCl							
3,3',5,5' - TeCI							
3,4,4',5 - TeC							
2.2'.3.3',4 - PeCE							
2,2',3,3',5 - PeCI		83 + 99	CDB	2800	19.1	1.58	0.885
2,2',3,3',6 - PeCE		00 - 00	000	2000	10.1	1.50	0.000
2,2',3,4,4' - PeCE		85 + 116 + 117					
2,2',3,4,5 - PeCE 2,2',3,4,5' - PeCE		86 + 87 + 97 + 108 + 119 + 125 86 + 87 + 97 + 108 + 119 + 125					
		88 + 91					
2.2'.3.4,6 - PeCE		00 + 91					
2,2',3,4,6' - PeCE							
2,2',3,4',5 - PeCE		90 + 101 + 113	CDB	4460	16 0	1.58	0.869
2,2',3,4',6 - PeCE		88 + 91					
2,2',3,5,5' - PeCE							
2,2',3,5.6 - PeCE		93 + 95 + 98 + 100 + 102	CDB	4070	16.8	1.59	1.121
2,2',3,5,0' - PeCE							
2,2',3,5',6 - PeCE		93 + 95 + 98 + 100 + 102	C93				
2,2',3.6.6' - PeCE							
2,2',3',4,5 - PeCE		86 + 87 + 97 + 108 + 119 + 125					
2,2',3',4,6 - PeCE	98	93 + 95 + 98 + 100 + 102	C93				
2.2',4.4',5 - PeCE	99	83 + 99	C83				
2.2'.4.4'.6 - PeCE	100	93 + 95 + 98 + 100 + 102	C93				
2,2 ' .4.5.5' - PeCE	101	90 + 101 + 113	C90				
	100	00 - 05 - 00 - 100 - 100	0.00				

14743AD5_1 xis, S6 Approved by ______

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2,2',4,5.6' - PeCB

2.2',4,5',6 - PeCB

2,2',4,6,6' - PeCB

2,3,3'.4,4' - PeCB

2,3,3',4,5 - PeCB

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11%

0 AXYS ANALYTICAL SERVICES LTD P.O. 80X 2219 2045 MILLS RD. WEST. SIDNEY, B.C., CANADA V81 358 FEL (250) 655-5800 FAX (250) 655-5801

C93

93 + 95 + 98 + 100 + 102

AXYS METHOD MLA-010	Rev 05	CLIENT ID:	LDW-C9-T
Form 1A			
Page 4 of 6		Project Number	04-08-06-21
Lab Sample ID	L7510-15 W	Sample Data Filename	PB5C_084 S·10

COMPOUND	NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND. RATIO	RRT
2,3,3',4',5 - PeCB	107	107 + 124					
2.3.3'.4,5' - PeCB	108	86 + 87 + 97 + 108 + 119 + 125					
2,3,3',4,6 - PeCB	109						
2,3,3'.4',6 - PeCB	110	110 + 115	CDB	4150	13.5	1.59	0.925
2.3,3',5,5' - PeCB	111						
2,3,3',5,6 - PeCB	112						
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114						
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3,4,5,6 - PeCB	116	85 + 116 + 117					
2,3,4',5,6 - PeCB	117	85 + 116 + 117	D D	2000	22.6	4 50	1.001
2,3',4,4',5 - PeCB	118 119	86 + 87 + 97 + 108 + 119 + 125	DB	2990	22.6	1.53	1.001
2,3',4,4',6 - PeCB 2,3',4,5,5' - PeCB	120	00 + 07 + 97 + 100 + 119 + 125					
2,3',4,5',6 - PeCB	120						
2',3,3',4,5 - PeCB	121						
2',3,4,4',5 - PeCB	123						
2',3,4,5,5' - PeCB	124	107 + 124					
2',3,4,5,6' - PeCB	125	86 + 87 + 97 + 108 + 119 + 125					
3,3',4,4',5 - PeCB	126						
3,3',4,5,5' - PeCB	127						
2.2',3,3',4,4' - HxCB	128	128 + 166					
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163					
2,2',3,3',4,5' - HxCB	130						
2,2',3,3',4,6 - HxCB	131						
2,2',3,3',4,6' - HxCB	132						
2,2',3,3',5,5' - HxCB	133						
2,2',3,3',5,6 - HxCB	134	134 + 143					
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154					
2,2',3,3',6,6' - HxCB	136						
2,2',3,4,4',5 - HxCD	137	129 + 138 + 160 + 163					
2,2',3,4,4'.5' - HxCB	138 139	139 + 140					
2,2',3,4,4',6 - HxCB 2,2',3,4,4',6' - HxCB	139	139 + 140					
2,2',3,4,5,5' - HxCB	141	100 140					
2,2',3,4,5,6 - HxCB	142						
2,2',3,4,5,6' - HxCB	143	134 + 143					
2,2',3,4,5',6 - HxCB	144						
2,2',3,4,6,6' - HxCB	145						
2,2',3,4',5,5' - HxCB	146						
2,2',3,4',5,6 - HxCB	147	147 + 149					
2,2',3,4',5,0' - H⊼CD	148						
2,2'.3,4'.5',6 - HxCB	149	147 + 149					

01-03-2005 _QA/QC Chemist 14743AD5_1 kis. S6 Approved by dd-mm-yyyy

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(250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5811

AXYS METHOD	/ILA-010 Rev 05				CLIENT ID:		LDW-C9-T	
Form 1A								
Page 5 of 6					Project Numbe		04-08-06-21	
Lab Sample ID	L	7510-15 W			Sample Data F	ilename	PB5C_084 S:10	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND. RATIO	RRT
		NO.		FI AG	TOOND	L-11951 3	KANO	
2.2	2'.3.4'.6.6' - HxCB	150						
2,	2'.3.5.5',6 - HxCB	151	135 + 151 + 154					
2,	2',3.5.6.6' - HxCB	152						
2,2	2',4,4',5,5' - HxCB	153	153 + 168	CDB	4870	52.9	1.25	0 899
2,2	2',4,4',5,6' - HxCB	154	135 + 151 + 154					
2,2	2',4.4'.6,6' - HxCB	155						
2,	3,3',4,4',5 - HxCB	156	156 + 157					
2,3	3,3',4,4',5' - HxCB	157	156 + 157					
2,	3,3',4,4',6 - HxCB	158						
2,	3,3',4,5,5' - HxCB	159						
2	.3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163					
2,	3,3',4,5',6 - HxCB	161						
2.3	3,3',4',5,5' - HxCB	162						
2,	3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163					
2.3	3,3',4',5',6 - HxCB	164						
2,	3,3',5,5',6 - HxCB	165						
2	,3,4,4',5,6 - HxCB	166	128 + 166					
2,3	3',4,4',5,5' - HxCB	167						
2,3	3',4,4'.5',6 - HxCB	168	153 + 168	C153				
3,3	3',4,4',5,5' - HxCB	169						
2,2',	3,3',4,4',5 - HpCB	170						
2,2',	3,3',4,4',6 - HpCB	171	171 + 173					
2,2',	3,3',4,5,5' - HpCB	172						
2,2',	3,3',4.5,6 - HpCB	173	171 + 173					
2,2'.:	3,3',4,5,6' - HpCB	174						
2.2',	3.3',4,5',6 - HpCB	175						
2.2',	3.3',4.6.6' - HpCB	176						
2.2',	3.3',4'.5,6 - HpCB	177						
2,2',3	3,3',5,5',6 - HpCB	178						
2,2',3	3,3',5,6,6' - HpCB	179						
2,2',3	3,4,4',5.5' - HpCB	180	180 + 193					
2,2',	3,4,4',5.6 - HpCB	181						
2,2',:	3,4,4',5,6' - HpCB	182						
2,2',3	3,4,4',5',6 - HpCB	183	183 + 185					
2,2'.3	3,4,4',6,6' - HpCB	184						
2.2',	3,4,5,5',6 - HpCB	185	183 + 185					
2,2',	3,4.5.6.6' - HpCB	186						
2,2',	3,4',5,5',6 - HpCB	187						
2,2',3	3,4',5,6.6' - HpCB	188						
2,3,3	',4.4'.5.5' - HpCB	189						
2,3,5	3',4,4',5,6 - HpCB	190						
	',4.4'.5',6 - HpCB	191						
2,3,3	3',4,5.5',6 HpCB	102						

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MAXYS ANALYTICAL SERVICES LTD P.O BOY 2210 2045 MILLS RD, WEST SIDNEY B.C. (ANADA VBI 358 FEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05				CLIENT ID:		LDW-C9-T	
Form 1A							
Page 6 of 6				Project Numpe		04-08-06-21	
Lab Sample ID	L 7510-15 W			Sample Data F	ilename	PB5C_084 S 10	
COMPOUNE	NO.	CO-FLUTIONS	I AR FLAG ¹			ION ABUND RATIO	RRT
2,3,3',4',5,5',6 - HpCE	3 193	180 + 193					
2.2',3.3'.4.4'.5,5' - OcCE	3 194						
2,2'.3,3',4,4',5,6 - OcCE	3 195						
2,2',3,3',4,4',5,6' - OcCE	3 196						
2.2',3,3'.4,4'.6.6' - OcCE	3 197	197 + 200					
2,2',3,3'.4.5,5',6 - OcCE	3 198	198 + 199					
2,2',3,3',4,5,5',6' - OcCE	3 199	198 + 199					
2,2',3,3',4.5.6,6' - OcCE	3 200	197 + 200					
2,2',3,3',4,5',6,6' - OcCE	3 201						
2,2',3,3',5,5',6.6' - OcCE	3 202						
2,2',3,4,4',5,5',6 - OcCB	203						
2,2',3,4,4',5,6,6' - OcCB	204						

(1) C = co-eluting congener, U = not detected, K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested. J = concentration less than LMCL. B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

205

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209

2,3,3',4,4',5,5',6 - OcCB

2,2',3,3',4,4',5,5',6 - NoCB

2,2',3,3',4,4',5,6,6' - NoCB

2,2',3,3',4,5,5',6,6' - NoCB

2,2',3,3',4,4',5,5',6,6' - DeCB

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Approved by

QA/QC Chemist

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CANADA VEL 358 TEL (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID: LDW-C9-T

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

			Sample Collection:		25-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-15	
Matrix:	TISSUE		Sample Size:		10.1	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration Dat	te:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 5:34:40	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename	:	PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filenar	me:	PB5C_076 S:1	
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_076 S:10 PB5C_084 S:10	
Concentration Units :	ng/kg (wet weight ba	oio)			1030_004 3.10	
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			2.52	0.0325		
Total Dichloro Biphenyls			238	0.0831		
Total Trichloro Biphenyls						
			4630	0.126		
Total Tetrachloro Biphenyls			4630 16100	0.126 0.571		
Total Tetrachloro Biphenyls Total Pentachloro Biphenyls						
			16100	0.571		
Total Pentachloro Biphenyls			16100 25200	0.571 0.514		
Total Pentachloro Biphenyls Total Hexachloro Biphenyls			16100 25200 21900	0.571 0.514 3.15		
Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls			16100 25200 21900 9540	0.571 0.514 3.15 0.235		
Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls			16100 25200 21900 9540 1290	0.571 0.514 3.15 0.235 0.133		
Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls Total Nonachloro Biphenyls			16100 25200 21900 9540 1290 31.3	0.571 0.514 3.15 0.235 0.133 0.0356		

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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MO AXYS ANALYTICAL SERVICES LTD PO 80x 2219 2045 MILLS RD WEST, SIDNEY, B.L. (ANADA V8L 358 TEL (250) 655-5800 FAX (250) 655-581)

AXYS METHOD MLA-010 Rev 05 PCB-TEC-DL 14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-C9-T

25-Aug-2004 Lab Name: AXYS ANALYTICAL SERVICES Sample Collection: 4033 Project Number: 04-08-06-21 Contract No.: TISSUE Lab Sample ID: L7510-15 Matrix: SPB-OCTYL GC Column ID(s): Sample Size: 10.1 g (wet) PB5C_076 S:10 PB5C_084 S:10 Sample Datafile(s): ng/kg (wet weight basis) Concentration Units :

							TE	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			110	0.549	0.0001	1.10E-02	1.10E-02
3,4,4',5-TetraCB	81		U		0.508	0.0001	2.54E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			917	0.439	0.0001	9.17E-02	9.17E-02
2,3,4,4',5-PentaCB	114			56.9	0.446	0.0005	2.85E-02	2.85E-02
2,3',4,4',5-PentaCB	118			2990	22.6	0 0001	2.99E-01	2.99E-01
2',3.4,4',5-PentaCB	123			59.1	0.434	0.0001	5.91E-03	5.91E-03
3,3',4,4',5-PentaCB	126			5.22	0.514	01	5.22E-01	5.22E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	313	0.374	0.0005	1.56E-01	1.56E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			157	0.288	0.00001	1.57E-03	1 57E-03
3,3',4,4',5,5'-HexaCB	169		U		3.15	0.01	1.58E-02	0.00E+00
2,3,3',4,4',5,5'-HeptaCB	189			13.6	0 235	0 0001	1 36E-03	1 36E-03

TOTAL TEQ 1 13 1 12

(1) C = co-eluting congener, U = not detected
 (2) Concentrations that do not meel quantification criteria are not included in the TEQ calculations.

These pages are part of a larger report that may contain information necessary for full data evaluation

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02-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD | 0 80% 2219 2045 MILLS RD WEST, SIDNEY B.C., (ANADA VBI 358 TEI 1250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 1668A-S1_209 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-C10-T1	
			Sample Collection:	25-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7510-16 (A)	
Matrix:	TISSUE		Sample Size:	10.2	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 15:24:30	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_077 S:8	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_077 S:1	

Concentration Units :

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		В	4.67	0.0228	3.29	1.000
3 - MoCB	2		JB	0.853	0.0252	3.20	0.988
4 - MoCB	3		В	2.40	0.0283	3.20	1 001
2,2' - DiCB	4		В	50.1	0 115	1.50	1 001
2,3 - DiCB	5		J	1.31	0.0942	1 45	1 199
2,3' - DiCB	6		В	62.6	0.0884	1.51	1 176
2,4 - DiCB	7			3.87	0.0878	1.53	1.158
2,4' - DiCB	8		В	93.5	0.0842	1.50	1.208
2,5 - DiCB	9			5.94	0.0879	1.54	1.146
2,6 - DiCB	10			2.34	0.0854	1.50	1.014
3,3' - DiCB	11		B	12.2	0 0989	1 49	0 968
3,4 - DiCB	12	12 + 13	С	19.5	0.0983	1.51	0.984
3,4' - DiCB	13	12 + 13	C12				
3,5 - DiCB	14		J	0.098	0.0946	1.45	0.926
4,4' - DiCB	15		В	69.8	0.112	1.49	1.001
2,2',3 - TriCB	16		В	83 1	0.0237	1.08	1 166
2,2',4 - TriCB	17		В	209	0.0221	1.06	1 139
2,2',5 - TriCB	18	18 + 30	СВ	418	0.0181	1.06	1 113
2.2',6 - TriCB	19		В	79.3	0.0251	1.05	1 002
2.3,3' - TriCB	20	20 + 28	СВ	839	0.162	1.01	0.848

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AXYS METHOD MLA-010 Rev 05

Form 1A

Page 2 of 6 Lab Sam

Project Number:

LDW-C10-T1 04-08-06-21

ample ID L7510-16 (A) Sample Data Filename PB5C_07	/ 5:8
COMPOUND IUPAC CO-ELUTIONS LAB CONC. DETECTION ION AB NO. FLAG ¹ FOUND LIMIT RAT	
2.3.4 - TriCB 21 21 + 33 C B 189 0 167 1 00	0 0.857
2.3.4' - TriCB 22 B 183 0 180 1.0'	1 0.872
2.3.5 - TriCB 23 KJ 0.417 0.168 0.88	8 1 284
2.3.6 - TriCB 24 4 19 0 0155 1.05	5 1 1 5 9
2.3'.4 - TriCB 25 B 232 0.147 1.0'	1 0.825
2,3'.5 - TriCB 26 26 + 29 C B 568 0 167 1.0"	
2,3',6 - TriCB 27 B 112 0.0154 1.00	6 1 1 5 2
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 667 0 164 1.00	0 0.836
2,4',6 - TriCB 32 B 196 0 153 1.00	D 1.198
2'.3.4 - TriCB 33 21 + 33 C21	
2'.3.5 - TriCB 34 5.89 0.168 1.01	1 1.275
3.3',4 - TriCB 35 7.83 0.203 0.95	5 0.985
3,3',5 - TriCB 36 J 0.722 0.166 0.90	0.931
3.4.4' - TriCB 37 B 150 0.191 0.99	
3.4.5 - TriCB 38 K 2.50 0.181 0.74	
3.4'.5 - TriCB 39 7.30 0.173 0.94	4 0.947
2.2'.3.3' - TeCB 40 40 + 41 + 71 C B 642 0.0350 0.75	9 1 338
2,2',3,4 - TeCB 41 40 + 41 + 71 C40	
2,2',3,4' - TeCB 42 B 350 0.0363 0.80) 1 313
2,2',3,5 - TeCB 43 B 49.1 0.0382 0.80) 1 248
2,2',3,5' - TeCB 44 44 + 47 + 65 C B 1680 0.0316 0.80	1.287
2,2',3,6 - TeCB 45 45 + 51 C B 206 0.0322 0.80	
2,2',3,6' - TeCB 46 54.7 0.0384 0.80) 1 162
2,2',4,4' - TeCB 47 44 + 47 + 65 C44	
2,2',4,5 - TeCB 48 B 187 0.0339 0.80) 1.275
2,2'.4,5' - TeCB 49 49 + 69 C B 1640 0.0297 0.80	
2,2'.4,6 - TeCB 50 50 + 53 C B 303 0 0311 0.80) 1.111
2.2'.4.6' - TeCB 51 45 + 51 C45	
2,2',5,5' - TeCD 52 E	
2.2',5,6' - TeCB 53 50 + 53 C50	
2.2',6,6' - TeCB 54 7 61 0.0273 0.82	
2,3.3',4 - TeCB 55 17 6 0.539 0.77	0.889
2,3,3',4' - TeCB 56 B 473 0.544 0.74	0.905
2.3.3'.5 - TeCB 57 30.5 0.518 0.73	0.844
2.3.3'.5' - TeCB 58 13.4 0.514 0.79	0.852
2.3.3'.6 - TeCB 59 59 + 62 + 75 C B 199 0.0267 0.79	
2,3.4,4' - TeCB 60 B 215 0.530 0.75	
2,3,4,5 - TeCB 61 61 + 70 + 74 + 76 CB 2170 0.497 0.75	0.875
2,3,4,6 - TeCB 62 59 + 62 + 75 C59	
2,3,4'.5 TeCB 63 58.6 0.519 0.75	0 864

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CAXYS ANALYTICAL SERVICES LTD = 0 80X 2219, 2045 MILLS RD, WEST, SIDNEY B.C. (ANADA V8L 358 TEL -250+ 655-5800 FAX -250+ 655-5811

AXYS METHOD MLA-01	CLIENT ID:	
Form 1A		
Page 3 of 6		Project Number
Lap Sample ID	L7510-16 (A)	Sample Data Filename

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04-08-06-21 PB5C_077 S:8

LDW-C10-T1

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3.4',6 - TeCB	64		в	485	0.0258	0.79	1.350
2,3,5,6 - TeCB	65	44 + 47 + 65	C44				
2.3',4,4' - TeCB	66		В	1450	0.500	0.74	0.884
2,3',4.5 - TeCB	67			64.8	0 483	0.75	0.857
2.3',4,5' - TeCB	68			40.5	0 489	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			77.3	0.485	0.74	0.822
2,3',5',6 - TeCB	73		U		0.0254		
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76	C61				
2,4,4',6 - TeCB	75	59 + 62 + 75	C59				
21,3,4,5 - TeCB	/b	61 + 70 + 74 + 76	C61				
3,3',4,4' - TeCB	77		В	78.7	0.524	0.74	1.000
3,3',4,5 - TeCB	78		U		0.558		
3,3',4,5' - TeCB	79			38.7	0.461	0.71	0.970
3,3',5,5' - TeCB	80		U		0.505		
3,4,4',5 - TeCB	81		K	4.44	0.479	0.76	1.001
2,2',3,3',4 - PeCB	82			282	0.211	1.57	0.933
2.2',3.3',5 - PeCB	83	83 + 99	CE				
2,2',3,3',6 - PeCB	84		В	830	0.219	1.59	1.163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СB	582	0.162	1.58	0.920
2,2',3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CE				
2,2`,3,4,5` - PeCB	87	86 + 87 + 97 + 108 + 119 + 125	C80				
2,2',3,4,6 - PeCB	88	88 + 91	СВ	586	0.188	1 59	1 154
2,2',3,4,6' - PeCB	89			24.8	0.206	1.59	1.183
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
2.2'.3.4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		В	2180	0.198	1.58	0.853
2,2'.3,5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CE				
2,2',3,5,6' - PeCB	94			20.0	0 189	1 61	1 102
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2,2',3,6,6' - PeCB	96			20.7	0.0377	1.58	1.015
2,2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2.2',3',4,6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2,2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93	70 -	0.45	1.00	
2,2',4,5',6 - PeCB	103			79.6	0.164	1.59	1.094
2.2',4,6,6' - PeCB	104		J	1 35	0.0384	1 62	1 001
2.3.3'.4.4' • PeCR	105		B	1010	0 421	1 52	1 001

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2,3,3'.4,5 - PeCB

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD WEST, SIDNEY, B.C., CANADA V8L 358 TEL (250) 655-5800 FAX (250) 655-5811

A	XYS METHOD MLA-010 Rev 05		CLIENT ID:
F	orm 1A		
P	age 4 of 6		Project Numb
Lá	ab Sample ID	L7510-16 (A)	Sample Data

nber Sample Data Filename 04-08-06-21 PB5C_077 S:8

LDW-C10-T1

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3,3',4',5 - PeCB	107	107 + 124	С	141	0.418	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			268	0.392	1.52	0.997
2,3,3',4',6 - PeCB	110	110 + 115	CE				
2,3,3',5,5' - PeCB	111			6.43	0.141	1.47	0.945
2,3,3',5,6 - PeCB	112		U		0.142		
2.3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3.4.4',5 - PeCB	114			52.0	0.413	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			34.5	0.141	1.57	0.959
2,3',4,5',6 - PeCB	121			2.12	0.146	1.55	1 201
2',3,3',4,5 - PeCB	122			43.8	0.465	1.53	1.010
2',3,4,4',5 - PeCB	123			52.6	0.445	1.51	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			9.11	0.424	1.51	1.000
3,3',4,5,5' - PeCB	127			7.55	0.462	1 55	1.042
2,2',3,3',4,4' - HxCB	128	128 + 166	СВ	1390	0.341	1.27	0,958
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',3,3',4,5' - HxCB	130			950	0.423	1.27	0.913
2,2',3,3',4,6 - HxCB	131			91.2	0.373	1.34	1.160
2,2',3,3',4,6' - HxCB	132		E		0.070	4.07	4 404
2,2',3,3',5,5' - HxCB	133		0	414	0.373	1.27	1 191
2,2',3,3',5,6 - HxCB	134	134 + 143	С	850	0.376	1.28	1.140
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	CE	0700	0.0450	1.07	1.004
2,2',3,3',6,6' - HxCB	136		В	2730	0.0452	1.27	1.024
2,2',3.4,4',5 - HxCB	137	129 + 138 + 160 + 163	C129	191	0 385	1 34	0.918
2,2',3,4,4',5' - HxCB	138	139 + 140	C129	92.5	0,344	1.42	1.153
2,2',3.4.4',6 - HxCB	139	139 + 140	C139	92.0	0.344	1.42	1.155
2,2',3,4,4',6' - HxCB	140	139 + 140	B	4180	0.377	1.27	0.903
2,2',3.4.5.5' - HxCB	141		U	4100	0.383	1.27	0.903
2,2',3,4,5,6 - HxCB	142 143	134 + 143	C134		0.303		
2,2'.3.4,5,6' - HxCB		134 + 143	0154	1210	0 0601	1.26	1,121
2,2',3,4,5',6 - HxCB 2,2',3,4,6,6' - HxCB	144 145		J	1 50	0.0461	1.19	1.033
2,2',3,4',5,5' - HxCB	145		E	1.00	0.0-101	1,10	
2,2',3,4',5,5 - HXCB 2,2',3,4',5,6 - HxCB	146	147 + 149	CE				
2,2',3.4',5.6' - HXCB	147	147 148	0 L	19.0	0.0619	1.26	1 084
2,2',3,4',5',6 - HxCB	140	147 + 149	C147	,0.0	0.0010	1.20	
2,2,0,4,0,0-11X0D	140						

14743AD4_1 xls. S2

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LR. QA/QC Chemist

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AXYS	METHOD	MLA-010	Rev	05
Form	1A			

2,2',3,4',5,5',6 - HpCB

2.2',3.4',5,6,6' - HpCB

2,3,3',4,4',5,5' - HpCB

2,3,3',4,4',5,6 - HpCB

2,3,3',4,4',5',6 - HpCB

2,3,3',4,5,5',6 HpCB

187

188 189

190

191

102

Page 5 of

Lab Samp

LDW-C10-T1

ц								
of 6 npie ID	L7510-16 (A)				Project Number Sample Data Filename		04-08-06-21 PB5C_077 S:8	
	COMPOUND	IUPAC NO	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2	',3,4'.6,6' - HxCB	150			10 7	0.0437	1.25	1 012
2,2	2',3.5,5',6 - HxCB	151	135 + 151 + 154	C135				
2,2	2'.3,5.6,6' - HxCB	152			3 76	0.0437	1.26	1,007
2,2	',4,4'.5.5' - HxCB	153	153 + 168	CE				
2.2	',4,4',5.6' - HxCB	154	135 + 151 + 154	C135				
2.2	'.4.4'.6.6' - HxCB	155		J	0.629	0.0446	1.27	1.001
2,3	3,3',4,4',5 - HxCB	156	156 + 157	СВ	984	0.364	1.27	1.000
2,3	,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3	3,3',4,4',6 - HxCB	158		В	1870	0.277	1.26	0.938
2,3	3,3',4,5,5' - HxCB	159		U		0.299		
2,3	3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3	8,3',4,5',6 - HxCB	161		U		0.282		
2.3,	,3',4',5,5' - HxCB	162			37 4	0.298	1.28	0.989
2,3	3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3,	,3',4',5',6 - HxCB	164		В	1920	0.295	1.27	0.921
2,3	3,3',5,5',6 - HxCB	165			5.69	0.307	1.30	0.878
2,3	3,4,4',5,6 - HxCB	166	128 + 166	C128				
2,3	',4,4',5,5' - H×CB	167		В	581	0.285	1.27	1.000
2,3	',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3'	'.4,4'.5,5' - HxCB	169		U		25.2		
2,2',3	.3',4,4',5 - HpCB	170		E				
2,2',3	,3',4,4',6 - HpCB	171	171 + 173	С	2990	0.245	1.06	1.162
2,2',3	,3',4,5,5' - HpCB	172			1020	0.252	1.06	0.897
2,2',3	3,3',4,5,6 - HpCB	173	171 + 173	C171				
2,2',3	,3',4,5,6' - HpCB	174		E				
2,2',3	.3',4,5',6 - HpCB	175			563	0.212	1.06	1.102
2,2',3	,3',4,6,6' - HpCB	176			1280	0.162	1.06	1.034
2,2',3	.3',4',5,6 - HpCB	177		E				
2,2',3	,3',5,5',6 - HpCB	178		E				
2,2',3	,3',5,6,6' - HpCB	179		E				
2,2',3	.4.4',5.5' - HpCB	180	180 + 193	CE				
2,2',3	3,4,4',5,0 - HpCB	101			24.0	0.221	1 07	1.156
2.2'.3	.4.4'.5.6' - HpCB	182			34.7	0.218	1.07	1.116
2,2',3	,4,4',5',6 - HpCB	183	183 + 185	CE				
2,2',3	,4,4'.6,6' - HpCB	184		J	1.71	0.147	0.96	1.025
2,2',3	3,4,5,5',6 - HpCB	185	183 + 185	C183				
2,2',3	3,4,5,6,6' - HpCB	186		U		0 162		

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В

U

5.33

160

1730

463

0.155

1.11

0 198

0.191

0.200

1.09

0.96

1.05

1.06

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1.001

1.000

0.947

0.918

(250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		LDW-C10-T1	
Page 6 of 6	∟7510-16 (A)			Project Number Sample Data Filename		04-08-06-21 PB5C_077 S:8	
COMPOUND	IUPAC NO.	CO-FUITIONS	I AR FLAG ¹	CONC FOUND		ION ARUND RATIO	RRT
2.3.3',4',5.5'.6 - HpCB	193	180 + 193	C180				
2.2',3.3'.4,4',5,5' - OcCB	194		В	1670	0.866	0.91	0 991
2,2',3,3',4,4',5.6 - OcCB	195		В	875	0.957	0.90	0.946
2,2',3,3',4,4',5,6' - OcCB	196		В	1910	0.0234	0.93	0.916
2,2',3,3',4,4',6,6' - OcCB	197	197 + 200	С	374	0.0162	0.93	1.045
2,2'.3,3',4,5,5',6 - OcCB	198	198 + 199	CE				
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		В	667	0.0163	0.93	1.023
2,2',3,3',5,5',6,6' - OcCB	202		В	1380	0.0197	0.92	1.000
2,2',3,4,4',5,5',6 - OcCB	203		В	1520	0.0220	0.93	0.920
2,2',3,4,4',5,6,6' - OcCB	204		JB	0.341	0.0167	0.95	1.039
2,3,3`,4,4`,5,5`,6 - UCCB	205		В	107	0.671	0.91	1.001
2,2',3,3',4,4',5,5',6 - NoCB	206		В	249	0 102	0.79	1 001
2,2',3,3',4,4',5,6,6' - NoCB	207			35.6	0.0820	0 79	1.020
2,2',3,3',4,5,5',6,6' - NoCB	208		В	47 9	0.0868	0.79	1.001

(1) C = co-eluting congener: U = not detected: K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL. B = analyte found in sample and the associated blank; X = results reported separately

В

6.30

0.0172

0.68

1 001

These pages are part of a larger report that may contain information necessary for full data evaluation.

209

14743AD4_1 xls. S2

2,2',3,3',4,4',5,5',6.6' - DeCB

Approved by _____

QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD R.0 BOX 2219 2045 MILLS RD WEST, SIDNEY, B.C., (ANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 1668A-S1 200 Page 1 of 6	Form 1A					CLIENT ID: LDW-C10-T1	
				Sample Collect	on:	25-Aug-2004	
Lab Name: AXYS ANALYTICAL SI	ERVICES			Project Number		04-08-06-21	
Contract No.:	4033			Lab Sample ID:		L7510-16 W (A)	
Matrix:	TISSUE			Sample Size:		10.2	g (wet)
Sample Receipt Date:	17-Dec-2004			Initial Calibratio	n Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005			Instrument ID:		HR GC/MS	
Analysis Date:	18-Feb-2005	Time: 3:40:26		GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	500			Sample Data Fil	ename:	PB5C_086 S:8	
Injection Volume (µL):	10			Blank Data Filer	iame:	PB5C_074 S:7	
Dilution Factor:	25			Cal. Ver. Data Fi	lename:	PB5C_086 S:1	
Concentration Units :	ng/kg (wet weight basis)						
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB 3 - MoCB 4 - MoCB 2,2' - DiCB 2,3 - DiCB 2,3' - DiCB 2,4' - DiCB 2,4' - DiCB 2,4' - DiCB 3,3' - DiCB 3,3' - DiCB 3,4' - DiCB 3,5' - DiCB 3,5' - DiCB 2,2',3 - TriCB 2,2',5 - TriCB 2,2',6 - TriCB 2,3' - TriCB 2,2',6 - TriCB	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	12 + 13 12 + 13 18 + 30 20 + 28					

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AXYS METHOD N Form 1A	ILA-010 Rev 05				CLIENT ID:		∟DW-C10-T1	
Page 2 of 6					Project Numbe	F,	04-08-06-21	
Lab Sample ID	L	7510-16 W (A)			Sample Data F		PB5C_086 S:8	
	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
		04	24 + 22					
	2.3.4 - TriCB	21	21 + 33					
	2.3.4' - TriCB	22						
	2,3.5 - TriCB	23						
	2,3.6 - TriCB	24						
	2.3'.4 - TriCB	25						
	2.3'.5 - TriCB	26	26 + 29					
	2,3',6 - TriCB	27						
	2,4.4' - TriCB	28	20 + 28					
	2.4.5 - TriCB	29	26 + 29					
	2,4,6 - TriCB	30	18 + 30					
	2,4',5 - TriCB	31						
	2,4',6 - TriCB	32						
	2',3,4 - TriCB	33	21 + 33					
	2',3,5 - TriCB	34						
	3,3',4 - TriCB	35						
	3,3',5 - TriCB	36						
	3,4,4' - TriCB	37						
	3,4,5 - TriCB	38						
	3,4',5 - TriCB	39						
	2,2',3,3' - TeCB	40	40 + 41 + 71					
	2,2',3,4 - TeCB	41	40 + 41 + 71					
	2,2',3.4' - TeCB	42						
	2,2',3,5 - TeCB	43						
	2,2',3,5' - TeCB	44	44 + 47 + 65					
	2,2',3,6 - TeCB	45	45 + 51					
	2,2',3,6' - TeCB	46						
	2,2',4,4' - TeCB	47	44 + 47 + 65					
	2,2',4,5 - TeCB	48						
	2,2',4,5' - TeCB	49	49 + 69					
	2,2',4,6 - TeCB	50	50 + 53					
	2,2',4.6' - TeCB	51	45 + 51					
	2,2',5 5' - TeCB	52		DB	3730	1 14	0.80	1 235
	2,2',5,6' - TeCB	53	50 + 53	.,				
	2,2',6,6' - TeCB	54	00 . 00					
	2,2,3,3',4 - TeCB	55						
	2,3,3',4' - TeCB	56 57						
	2.3.3'.5 - TeCB	57						
	2,3,3',5' - TeCB	58	E0 . 00 . 75					
	2.3.3'.6 - TeCB	59 60	59 + 62 + 75					
	2,3,4.4' - TeCB	60	$64 \pm 70 \pm 74 \pm 76$					
	2.3.4.5 - TeCB	61	61 + 70 + 74 + 76					
	2,3.4,6 - TeCB	62	59 + 62 + 75					
	2.3.4'.5 - TeCB	63						

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD WEST SUDNEY B.(CANADA VBL 358 TEI (250) 655-5800 FAX (250) 655-5811

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AXYS METHOD MLA-010 Rev 0	5	CLIENT ID:	LDW-C10-T1
Form 1A			
Page 3 of 6		Project Number:	04-08-06-21
Lab Sample ID	L7510-16 W (A)	Sample Data Filename:	PB5C_086 S·8

COMPOHND	NO.	CO-FLUTIONS	LAB FLAG ¹	CONC FOUND	DETECTION	ION ABUND RATIO	RRT
2.3.4',6 - TeCB	64						
2.3,5.6 - TeCB	65	44 + 47 + 65					
2.3'.4.4' - TeCB	66						
2,3',4,5 - TeCB	67						
2.3',4.5' - TeCB	68						
2,3',4,6 - TeCB	69	49 + 69					
2,3',4',5 - TeCB	70	61 + 70 + 74 + 76					
2.3',4',6 - TeCB	71	40 + 41 + 71					
2.3',5,5' - TeCB	72						
2,3',5',6 - TeCB	73						
2,4,4',5 - TeCB	74	61 + 70 + 74 + 76					
2,4,4',6 - TeCB	75	59 + 62 + 75					
2',3,4,5 - TeCB	/6	61 + /0 + /4 + /6					
3,3',4,4' - TeCB	77						
3,3',4,5 - TeCB	78						
3,3',4,5' - TeCB	79						
3,3',5,5' - TeCB	80						
3,4.4',5 - TeCB	81						
2,2',3,3',4 - PeCB	82						
2,2',3,3',5 - PeCB	83	83 + 99	CDB	3000	22.0	1.71	0 886
2.2',3.3',6 - PeCB	84						
2,2',3.4,4' - PeCB	85	85 + 116 + 117					
2,2'.3.4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	CDB	2390	17.7	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					
2,2',3,4,6' - PeCB	89						
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CDB	9470	18.3	1.59	0.869
2,2',3,4',6 - PeCB	91	88 + 91					
2,2',3.5,5' - PeCB	92						
2,2',3.5,6 - PeCB	93	93 + 95 + 98 + 100 + 102	CDB	8140	18 9	1 59	1.121
2,2',3,5,6' - PeCB	Q4		000				
2,2',3,5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2.2',3.6,6' - PeCB	96		000				
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						
2.2'.4.6.6' - PeCB	104						
2.3.3'.4.4' - PoCB 2.3.3'.4.5 - PeCB	105						
2.3.3 .4.3 ° F800	.00						

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AXYS METH	IOD MLA-010 Rev 05				CLIENT ID:		LDW-C10-T1	
Form 1A								
Page 5 of 6					Project Number		04-08-06-21	
Lab Sample I	ID	L 7510-16 W - AI			Sample Data Fi		PB5C_086 S:8	
Lab outripio							-	
	COMPOUND	IUPAC	CO-ELUTIONS	LAB	CONC.	DETECTION	ION ABUND.	RRT
		NO.		FLAG	FOUND	LIMIT	RATIO	
	2,2'.3.4'.6.6' - HxCB	150						
	2,2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135				
	2.2'.3.5,6.6' - HxCB	152						
	2.2',4,4'.5.5' - HxCB	153	153 + 168	CDB	27800	117	1 27	0 899
	2.2',4.4',5.6' - HxCB	154	135 + 151 + 154	C135				
	2,2'.4.4'.6.6' - HxCB	155						
	2,3.3'.4.4'.5 - HxCB	156	156 + 157					
	2.3.3',4,4',5' - HxCB	157	156 + 157					
	2.3,3',4.4',6 - HxCB	158						
	2,3,3',4,5,5' - HxCB	159						
	2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
	2,3,3',4,5',6 - HxCB	161						
	2,3,3',4',5,5' - HxCB	162						
	2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
	2,3,3',4',5',6 - HxCB	164						
	2,3,3',5.5',6 - HxCB	165						
	2,3,4,4',5,6 - HxCB	166	128 + 166					
	2,3',4,4',5,5' - HxCB	167						
	2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
	3,3',4,4',5,5' - HxCB	169						
	2,2',3,3',4,4',5 - HpCB	170		DB	5370	3 63	1 06	0.936
	2,2',3,3',4,4',6 - HpCB	171	171 + 173					
	2,2',3,3',4,5,5' - HpCB	172						
	2,2',3,3',4,5,6 - HpCB	173	171 + 173					
	2,2',3,3',4,5,6' - HpCB	174		DB	7610	3 13	1 07	1.133
	2,2',3,3',4,5',6 - HpCB	175						
	2,2',3,3',4.6,6' - HpCB	176						
	2,2',3.3',4',5,6 - HpCB	177		DB	8330	3.31	1.07	1.145
	2,2',3,3'.5,5',6 - HpCB	178		D	3840	3.05	1 06	1.085
	2,2',3,3',5,6,6' - HpCB	179		DB	5160	2 13	1 07	1 010
	2,2',3,4,4'.5.5' - HpCB	180	180 + 193	CDB	20400	2.76	1.07	0 910
	2,2',3,4,4',5,6 HpCB	181						
	2.2',3.4.4'.5,6' - HpCB	182						
	2,2',3,4,4'.5',6 - HpCB	183	183 + 185	CDB	7810	2.94	1 07	1 127
	2,2',3.4.4'.6,6' - HpCB	184						
	2,2',3,4.5.5',6 - HpCB	185	183 + 185	C183				
	2,2',3,4.5,6.6' - HpCB	186						
	2,2',3,4'.5,5',6 - HpCB	187		DB	16600	2.77	1.06	1 110
	2.2'.3,4',5,6,6' - HpCB	188						
	2,3,3',4,4',5,5' - HpCB	189						
		100						

14743AD7 1 xis S4

2,3,3',4,4',5,6 - HpCB

2.3.3',4,4',5',6 - HpCB

2,3,3',4,5,5',6 - HpCB

190

191

192

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_QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD. WEST SIDNEY B L., CANADA VBL 358 TEI (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05				CLIENT ID:		LDW-C10-T1	
Form 1A							
Page 6 of 6				Project Numbe		04-08-06-21	
Lap Sample (D	∟7510-16 ₩ /Δ,			Sample Data P	ilename	PB5C_086 S [.] 8	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC	DETECTION	ION ABUND RATIO	RRT
2,3,3',4',5.5'.6 - HpCB	193	180 + 193	C180				
2.2',3.3'.4,4',5.5' - OcCB	194						
2,2',3,3',4,4',5,6 - OcCB	195						
2.2',3,3',4,4',5,6' - OcCB	196						
2.2',3,3',4,4',6,6' - OcCB	197	197 + 200					
2,2'.3,3',4,5,5',6 - OcCB	198	198 + 199	CDB	4320	0.305	0.92	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					
2,2'.3,3'.4.5'.6.6' - OcCB	201						
2.2',3,3',5,5'.6.6' - OcCB	202						
2,2',3,4,4',5.5',6 - OcCB	203						
2,2',3,4,4',5.6.6' - OcCB	204						

(1) C = co-eluting congener. U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration, E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL. B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

205

206

207

208

209

2,3,3',4,4',5.5',6 - OcCB

2,2',3,3',4,4',5,5',6 - NoCB

2,2',3,3',4,4'.5,6,6' - NoCB

2,2',3,3',4,5,5',6,6' - NoCB

2,2',3,3',4,4',5,5'.6,6' - DeCB

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QA/QC Chemist

02-03-2005 dd-mm-yyyy

AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD. WEST, SIDNEY B C. CANADA VBI 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID: LDW-C10-T1

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

			Sample Collection:		25-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		L7510-16 (A)	
Matrix:	TISSUE		Sample Size:		10.2	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration D	ate:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 15:24:30	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename:			
Injection Volume (µL):	1.0		Cal. Ver. Data Filename:			
Dilution Factor:	N/A		Sample Datafile(s):		PB5C_077 S:8	
Concentration Units :	ng/kg (wet woight be	eie)			PB5C_086 S:8	
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls						
. etal meneemene eshiring i			7.93	0.0283		
Total Dichloro Biphenyls			7.93 321	0.0283 0.115		
Total Dichloro Biphenyls			321	0.115		
Total Dichloro Biphenyls Total Trichloro Biphenyls			321 3950	0.115 0.203		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls			321 3950 14300	0.115 0.203 0.558		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls			321 3950 14300 38300	0.115 0.203 0.558 0.465		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls			321 3950 14300 38300 115000	0.115 0.203 0.558 0.465 25.2		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls			321 3950 14300 38300 115000 83400	0.115 0.203 0.558 0.465 25.2 1.11		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls			321 3950 14300 38300 115000 83400 12800	0.115 0.203 0.558 0.465 25.2 1.11 0.957		
Total Dichloro Biphenyls Total Trichloro Biphenyls Total Tetrachloro Biphenyls Total Pentachloro Biphenyls Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls Total Nonachloro Biphenyls			321 3950 14300 38300 115000 83400 12800 332	0.115 0.203 0.558 0.465 25.2 1.11 0.957 0.102		

(1) U = Not detected

 (1) 0 - Not detected
 (2) All header information pertains to the initial instrumental analysis of the sample extract. Additional sample datafiles listed refor to secondary analysis of the sample extract.

These pages are part of a larger report that may contain information necessary for full data evaluation.

4743PCBTOTAL 4 45 S13

MANNA AND QAVQC Chemist Approved by:

02-03-2005 dd-mm-yyyy

MO AXYS ANALYTICAL SERVICES LTD PO 80% 2219, 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA V8L 358 TEL 250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TEO-DL_14 Page 1 of 1

CLIENT ID: LDW-C10-T1

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Form 1C PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES			Sample Collection:	25-Aug-2004
Contract No .:	4033		Project Number:	04-08-06-21
Matrix:	TISSUE		Lab Sample ID:	L7510-16 (A)
Sample Size:	10 2	g (wet)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (wet	weight basis)	Sample Datafile(s):	PB5C_077 S:8 PB5C_086 S:8

								Q
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			78 7	0.524	0.0001	7.87E-03	7.87E-03
3,4,4',5-TetraCB	81		U		0.479	0.0001	2.39E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			1010	0 421	0.0001	1.01E-01	1.01E-01
2,3,4,4',5-PentaCB	114			52.0	0.413	0.0005	2.60E-02	2.60E-02
2,3',4,4',5-PentaCB	118			3450	53.7	0.0001	3.45E-01	3.45E-01
2',3,4,4',5-PentaCB	123			52.6	0.445	0.0001	5.26E-03	5.26E-03
3,3',4,4',5-PentaCB	126			9.11	0.424	0.1	9.11E-01	9.11E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	984	0.364	0.0005	4.92E-01	4 92E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			581	0.285	0.00001	5.81E-03	5.81E-03
3,3',4,4',5,5'-HexaCB	169		U		25.2	0.01	1 26E-01	0.00E+00
2,3,3',4,4',5,5' HeptaCB	189			160	1.11	0.0001	1.60E-02	1.60E-02

TOTAL TEQ 2.04 1.91

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

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743PCBTE0_1 vis_ \$12 (TEQ

Approved by Main AMM QA/QC Chemist

02-03-2005 dd-mm-yyyy

MO AXYS ANALYTICAL SERVICES LTD R.O. 608 2219 2045 MILLS RD WEST SIDNEY B.C. (ANADA VOL 358 TEL (250) 655-5800 FA (250) 655-5811

177

AXYS METHOD MLA-010 Rel, 05 1668A-51,209 Page 1 of 6		PCB CONGE	Form 1A NER ANALYSIS REPORT		CLIENT ID: LDW-C10-T1 (DUPLICATE)	
				Sample Collection:	25-Aug-2004	
Lab Name: AXYS ANALYTICAL S	ERVICE9			Project Number:	01 08 06 21	
Contract No.:	4033			Lab Sample ID:	WG14743-103 (DUP L7510-16)	
Matrix:	TISSUE			Sample Size:	10.3	g (wet)
Sample Receipt Date:	17-Dec-2004			Initial Calibration Date:	04-Feb-2005	
Extraction Date:	27-Jan-2005			Instrument ID:	HR GC/MS	
Analysis Date:	13-Feb-2005		Time: 16:28.44	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20			Sample Data Filename:	PB5C_077 S:9	
Injection Volume (µL):	10			Blank Data Filename:	PB5C_074 S:7	
Dilution Factor:	N/A			Cal. Ver. Data Filename:	PB5C_077 S:1	

Concentration Units :

ng/kg (wet weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2 - MoCB	1		В	5.63	0.0379	3.21	1.000
3 - MoCB	2		JB	1.07	0.0408	3.39	0.988
4 - MoCB	3		В	2.76	0.0446	3.28	1.001
2,2' - DiCB	4		В	56.2	0 171	1.48	1.002
2,3 - DiCB	5		J	0.955	0 133	1.57	1.198
2,3' - DiCB	6		В	67.1	0.125	1.50	1.176
2,4 - DiCB	7			4 04	0.124	1.44	1.158
2,4' - DiCB	8		В	102	0.119	1.51	1.208
2,5 - DiCB	9			6.44	0.124	1 52	1.146
2.6 - DiCB	10			2.54	0 121	1 49	1 014
3,3' - DiGB	11		в	12.7	0 140	1 51	0.969
3,4 - DiCB	12	12 + 13	С	20.7	0 139	1 50	0.984
3,4' - DiCB	13	12 + 13	C12				
3,5 - DICB	14		U		0.134		
4.4' - DICB	15		В	70 7	0 151	1.50	1.002
2.2'.3 - TriCB	16		В	82.2	0.0546	1.07	1.166
2,2',4 - TriCB	17		В	208	0.0509	1.06	1.139
2.2'.5 - TriCB	18	18 + 30	СВ	410	0.0419	1.06	1.113
2,2',6 - TriCB	19		В	82 4	0.0624	1.07	1.001
2,3,3' - TriCB	20	20 + 28	CB	825	0.196	1.00	0.848

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Approved by MUURAMAN QAVQC Chemist

02-03-2005 dd-mm-yyyy

AXYS	METHOD	MLA-010	Rev	05
Form	1 A			

Form 1A Page 2 of 6

Lab Sample ID

2,3.4.4' - TeCB

2.3.4.5 - TeCB

2,3,4,6 - TeCB

2 3.4'.5 - TeCB

60

61

62

63

MLA-010 Rev 05				CLIENT ID:		LDW-C10-T1	
						(DUPLICATE)	
				Project Number	r.	04-08-06-21	
V	/G14743-103			Sample Data F	ilename.	PB5C_077 S:9	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,4 - TriCB	21	21 + 33	СВ	185	0.202	1.00	0 857
2.3,4' - TriCB	22		В	182	0.219	1 00	0 872
2.3.5 - TriCB	23		J	0 375	0 204	0 98	1 283
2,3,6 - TriCB	24			3.65	0 0357	1.05	1.159
2.3',4 - TriCB	25		В	231	0.178	1.00	0.825
2,3',5 - TriCB	26	26 + 29	СВ	556	0.202	1.00	1.302
2,3',6 - TriCB	27		В	109	0.0355	1 07	1.152
2,4,4° - TriCB	28	20 + 28	C20				
2.4.5 - TriCB	29	26 + 29	C26				
2,4,6 - TrìCB	30	18 + 30	C18				
2,4',5 - TriCB	31		В	657	0.199	1 00	0 837
2,4',6 - TriCB	32		В	195	0 186	1.00	1.197
2',3,4 - TriCB	33	21 + 33	C21				
2',3,5 - TriCB	34			6.03	0.203	1.00	1 275
3,3',4 - TriCB	35			8.30	0.246	1 07	0.985
3.3',5 - TriCB	36		KJ	0.996	0.202	1.35	0.931
3,4,4' - TriCB	37		В	143	0.221	1.02	1.001
3,4,5 - TriCB	38		к	2.72	0.219	1.29	0.969
3,4',5 - TriCB	39			7.54	0.210	0.99	0.947
2,2',3,3' - TeCB	40	40 + 41 + 71	СВ	624	0.0646	0.79	1.338
2,2',3,4 - TeCB	41	40 + 41 + 71	C40				
2,2',3,4' - TeCB	42		В	337	0.0670	0.79	1.313
2,2',3,5 - TeCB	43		В	45.8	0.0704	0.79	1.248
2,2',3,5' - TeCB	44	44 + 47 + 65	СВ	1610	0.0583	0.80	1.287
2,2',3,6 - TeCB	45	45 + 51	СB	200	0.0594	0.79	1.148
2,2',3,6' - TeCB	46		-	53.1	0.0709	0.81	1 162
2,2'.4.4' - TeCB	47	44 + 47 + 65	C44				
2,2',4,5 - TeCB	48		В	180	0.0626	0.79	1.275
2,2',4,5' - TeCB	49	49 + 69	СВ	1550	0.0549	0.80	1.261
2,2',4,6 - TeCB	50	50 + 53	CB	293	0.0573	0.79	1.111
2,2',4,6' - TeCB	51	45 + 51	C45				
2,2',5,5' TcCB	52		E				
2,2',5,6' - TeCB	53	50 + 53	C50				
2,2',6,6' - TeCB	54			7 64	0.0526	0.77	1 002
2,3.3',4 - TeCB	55		-	18.6	0 470	0 81	0.889
2,3,3',4' - TeCB	56		В	488	0 475	0.76	0.904
2.3.3',5 - TeCB	57			26.5	0 452	0.77	0.844
2,3,3',5' - TeCB	58			14.3	0.449	0.74	0.851
2,3,3',6 - TeCB	59	59 + 62 + 75	CB	190 216	0.0493	0.79	1 303

0 462

0 433

0 452

0 76

0 75

0.76

0 911

0.875

0.864

02-03-2005 QA/QC Chemist 14743AD4_1 xls S3 Approved by _ da-mm-yyyy Ú .

61 + 70 + 74 + 76

59 + 62 + 75

В

СВ

C59

216

2120

58.5

AXYS ANALYTICAL SERVICES LTD RO ROX 2219, 2045 MILLS RD. WEST, SIDNEY B C., CANADA VBL 358 TEI (250) 655-5800 FAV (250) 655-5811

AXYS METHOD MLA-01 Form 1A	0 Rev 05	CLIENT ID:	LDW-C10-T1 (DUPLICATE)
Page 3 of 6		Project Number	04-08-06-21
Lab Sample ID	WG14743-103	Sample Data Filename	PB5C_077 S:9

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND RATIO	RRT
2.3,4'.6 - TeCB	64		В	466	0.0476	0 79	1 350
2.3.5.6 - TeCB	65	44 + 47 + 65	C44				
2.3'.4.4' - TeCB	66		В	1440	0 436	0 76	0 884
2.3',4.5 - TeCB	67			65 0	0 421	0 75	0 857
2.3'.4.5' - TeCB	68			39 4	0 426	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			75 4	0.423	0.75	0.822
2,3',5',6 - TeCB	73		U		0.0468		
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		В	75.0	0.444	0.76	1.000
3,3',4,5 - TeCB	78		U		0.486		
3,3',4,5' - TeCB	79			41 4	0.402	0.85	0.970
3,3',5,5' - TeCB	80		U		0.441		
3,4,4',5 - TeCB	81		к	4.09	0.415	0.76	1.001
2,2',3,3',4 - PeCB	82			268	0.254	1.59	0,933
2,2',3,3',5 - PeCB	83	83 + 99	СВ	2710	0.238	1.58	0.885
2,2',3,3',6 - PeCB	84		В	795	0.263	1.59	1.163
2,2',3,4,4' - PeCB	85	85 + 116 + 117	СВ	542	0.195	1,58	0.919
2,2'.3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125	СВ	2360	0 199	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	СВ	553	0.227	1 59	1.155
2,2',3,4,6' - PeCB	89			23.6	0.248	1.56	1.183
2.2',3.4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',3,4',6 - PeCB	91	88 + 91	C88				
2,2',3,5,5' - PeCB	92		В	2110	0.239	1.58	0.853
2.2'.3.5.6 - PeCB	93	93 + 95 + 98 + 100 + 102	CE				
2.2',3,5,0' - PeCD	94			18.8	0.227	1 62	1 103
2,2'.3.5',6 - PeCB	95	93 + 95 + 98 + 100 + 102	C93				
2.2',3,6,6' - PeCB	96			19.0	0.0630	1 62	1.015
2.2',3',4,5 - PeCB	97	86 + 87 + 97 + 108 + 119 + 125	C86				
2.2'.3'.4.6 - PeCB	98	93 + 95 + 98 + 100 + 102	C93				
2,2',4,4',5 - PeCB	99	83 + 99	C83				
2.2',4,4',6 - PeCB	100	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,2',4,5,6' - PeCB	102	93 + 95 + 98 + 100 + 102	C93				
2,2',4,5',6 - PeCB	103			74.5	0.198	1.58	1 094
2.2'.4.6.6' - PeCB	104		J	1 33	0.0670	1.61	1.001
2,3,3',4,4' - PeCB	105		B	056	0.380	1.52	1 001
2.3.3'.4.5 - PeCB	106		U		0,382		

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MAXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD. WEST. SIDNEY. B.C., CANADA VBL 3S8 FEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev	v 05	CLIENT ID:	LDW-C10-T1
Form 1A			(DUPLICATE)
Page 4 of 6		Project Number.	04-08-06-21
Lap Sample ID	WG14743-103	Sample Data Filename.	PB5C_077 S-9

COMPOUND	IUPAC NO.	CO-ELUTIONS	I AR FLAG ¹	CONC FOUND	DETECTION	ION ABUND. RATIO	RRT
2.3.3',4',5 - PeCB	107	107 + 124	С	138	0.379	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			258	0 356	1 51	0.997
2,3,3'.4'.6 - PeCB	110	110 + 115	CE				
2.3,3',5,5' - PeCB	111			6.13	0.170	1.55	0.945
2,3,3',5.6 - PeCB	112		U		0.171		
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4.4',5 - PeCB	114			52.7	0.378	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	00.0	0.470	4.00	0.050
2,3',4,5,5' - PeCB	120			33.3	0.170	1.60	0.959
2,3',4,5',6 - PeCB	121		J	1 82	0.176	1.32	1.201 1.010
2',3,3',4,5 - PeCB	122 123			40.4 51.1	0 423 0.383	1 52 1.53	1.001
2',3,4,4',5 - PeCB	123	107 + 124	C107	51.1	0.505	1.55	1.001
2',3,4,5,5' - PeCB	124	86 + 87 + 97 + 108 + 119 + 125	C86				
2',3,4,5,6' - PeCB 3,3',4,4',5 - PeCB	125	80 + 87 + 97 + 100 + 119 + 120	000	8.17	0.413	1.44	1 000
3,3',4,4 ,5 - PeCB 3,3',4,5,5' - PeCB	120			7.34	0 420	1.59	1.042
2.2',3,3',4,4' - HxCB	128	128 + 166	СВ	1300	0.344	1.27	0.958
2,2',3,3',4,5 - HxCB	120	129 + 138 + 160 + 163	CE	1000	0.044	1.27	0.000
2,2',3,3',4,5' - HxCB	130	120 100 100 100	01	924	0.427	12/	0.913
2,2',3,3',4.6 - HxCB	131			97.3	0.376	1.32	1 159
2,2',3,3',4,6' - HxCB	132		В	4830	0.381	1.27	1.174
2,2',3,3',5,5' - HxCB	133			414	0.377	1.28	1.191
2,2',3,3',5,6 - HxCB	134	134 + 143	С	866	0.380	1.29	1.139
2,2',3,3',5,6' - HxCB	135	135 + 151 + 154	CE				
2,2',3,3',6,6' - HxCB	136		В	2810	0.0732	1.28	1.023
2,2',3,4,4',5 - HxCD	137			251	0.389	1.29	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	CK	94.2	0.348	1.43	1.153
2,2',3,4,4',6' - HxCB	140	139 + 140	C139				
2,2'.3,4,5,5' - HxCB	141		В	4240	0.381	1 27	0.903
2,2',3,4,5,6 - HxCB	142		U		0.386		
2,2',3,4.5,6' - HxCB	143	134 + 143	C134				
2.2'.3.4.5'.6 - HxCB	144			1230	0.0974	1.28	1 121
2.2',3,4.6,6' - HxCB	145		J	1 4 1	0 0746	1 22	1.033
2.2',3.4',5.5' - HxCB	146		В	4280	0 346	1 27	0.884
2,2',3,4',5,6 - HxCB	147	147 + 149	CE				
2,2',3,4',5,0' - H×CB	148		04.17	19.0	0 100	1 28	1 084
2.2',3,4',5',6 - HxCB	149	147 + 149	C147				

14743AD4_1 kls. 53 Approved by ______QA/QC Chemist 02-03-2005 dd-mm-yyyy

AXYS ANALYTICAL SERVICES LTD PO 80X 2219, 2045 MILLS RD. WEST, SIDNEY B.C. CANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5800

AXYS METHOD MLA-010 Rev 05 Form 1A				CLIENT ID:		LDW-C10-T1 (DUPLICATE)	
Page 5 of 6 Lab Sample ID	WG14743-103			Project Numbe Sample Data F		04-08-06-21 PB5C_077 S:9	
COMPOUND) IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,2'.3.4',6,6' - HxCB	150			10 6	0 0707	1.26	1.012
2,2',3,5,5',6 - HxCB	151	135 + 151 + 154	C135				
2.2'.3.5.6.6' - HxCB				3 77	0 0708	1.25	1 007
2,2'.4.4',5,5' - HxCB		153 + 168	CE				
2,2',4,4',5,6' - H×CB		135 + 151 + 154	C135				
2,2',4,4',6,6' - HxCB			J	0 669	0 0708	1.06	1 001
2,3,3',4,4',5 - HxCB		156 + 157	СВ	954	0.368	1.26	1.000
2,3,3',4,4',5' - HxCB		156 + 157	C156				
2,3,3',4,4',6 - HxCB			В	1850	0.279	1.26	0.938
2.3.3',4,5,5' - HxCB			U		0.302		
2,3,3',4,5,6 - HxCB		129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCB			U		0.284		
2,3,3',4',5,5' - HxCB				35.3	0.301	1.23	0.989
2,3,3',4',5,6 - HxCB		129 + 138 + 160 + 163	C129				
2,3,3',4',5',6 - HxCB			В	1830	0.298	1.28	0.921
2,3,3',5,5',6 - HxCB				6.10	0.310	1.14	0.878
2,3,4.4',5,6 - HxCB		128 + 166	C128				
2,3',4,4',5,5' - HxCB			В	562	0.286	1.28	1.000
2,3',4,4',5',6 - HxCB		153 + 168	C153				
3,3',4,4',5,5' - HxCB			U		24.4		
2,2',3,3',4,4',5 - HpCB	170		E				
2,2',3,3',4,4',6 - HpCB		171 + 173	С	2790	0.352	1.07	1.163
2,2',3,3',4,5,5' - HpCB				972	0.363	1.07	0.897
2,2',3,3',4,5,6 - HpCB		171 + 173	C171				
2,2',3,3',4,5,6' - HpCB			E				
2,2',3,3',4.5',6 - HpCB				511	0.305	1.06	1.103
2,2',3,3',4,6,6' - HpCB				1220	0.233	1.06	1.034
2.2',3,3',4',5,6 - HpCB			E				
2,2',3,3'.5.5',6 - HpCB	178			3550	0.317	1.06	1 085
2,2',3,3',5,6,6' - HpCB	179		Е				
2,2',3,4,4',5,5' - HpCB	180	180 + 193	CE				
2,2',3,4,4',5,6 HpCB	181			23.2	0 318	1 08	1 157
2,2',3.4,4',5,6' - HpCB				31.1	0.314	1 07	1 116
2,2',3,4,4'.5',6 - HpCB	183	183 + 185	CE				
2,2',3,4,4',6.6' - HpCB	184		J	1 77	0.211	0.95	1.025
2,2',3,4,5,5',6 - HpCB		183 + 185	C183				
2.2',3,4,5,6,6' - HpCB			U		0.233		
2,2'.3,4',5,5',6 - HpCB			E				
2,2',3,4',5,6,6' - HpCB				5.06	0.229	1.05	1.001
2,3,3',4,4',5,5' - HpCB				157	1.00	0.96	1.001
2,3,3',4,4',5,6 - HpCB			В	1610	0.285	1.06	0.947
2,3,3',4,4',5',6 - HpCB				424	0.275	1.06	0.918
2,3,3',4,5,5',6 • HpCB	192		()		0 287		

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Approved by _____

QA/QC Chemist

02-03-2005 dd-mm-yyyy

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(250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 Form 1A Page 6 of 6 Lab Sample ID V	VG14743-103		!	CLIENT ID: Project Numbe Sample Data F		LDW-C10-T1 (DUPLICATE) 04-08-06-21 PB5C_077 S:9	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				
2,2',3,3',4,4',5,5' - OcCB	191		В	1740	1 05	0.90	0 991
2.2',3.3',4.4',5,6 - OcCB	195		В	919	1.16	0.90	0.946
2,2',3,3',4,4',5,6' - OcCB	196		В	1870	0.0494	0.93	0.916
2.2',3.3'.4.4'.6.6' - OcCB	197	197 + 200	С	356	0.0341	0 93	1.046
2.2',3,3',4,5,5',6 - OcCB	198	198 + 199	CE				
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		В	628	0.0345	0.94	1 023
2,2',3,3',5,5',6,6' - OcCB	202		В	1330	0.0426	0.94	1 000
2,2',3,4,4',5,5',6 - OcCB	203		В	1520	0.0465	0.93	0.920
2,2',3,4,4',5.6,6' - OcCB	204		JB	0.263	0.0353	1.00	1.039
2,3,3 [°] ,4.4 [°] .5.5 [°] ,6 - OcCB	205		В	100	0.803	0.90	1.001
2,2',3,3',4,4',5,5',6 - NoCB	206		В	254	0.0931	0.79	1.000
2,2',3,3',4,4',5,6,6' - NoCB	207			36.4	0.0784	0.77	1.020
2,2',3,3',4,5,5',6,6' - NoCB	208		В	49 0	0.0869	0.78	1.001
2,2',3,3',4,4',5,5',6,6' - DeCB	209		В	6.75	0.0114	0.69	1.000

(1) C = co-eluting congener. U = not detected, K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested; J = concentration less than LMCL, B = analyte found in sample and the associated blank, X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

14743AD4_1 kis S3

Approved by _

QA/QC Chemist

02-03-2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD WEST SIDNEY, B.C., CANADA V81 358 TEL (250) 655-5800 FAX (250) 655-587

	AXYS METHOD MLA-010 Rev 05 1668A-S1 209 Page 1 of 6		Form 1A PCB CONGENER ANALYSIS RE	PORT			CLIENT ID: LDW-C10-T1 (DUPLICATE)	
					Sample Collect	tion:	25-Aug-2004	
	Lab Name, AXYS ANALYTICAL S	ERVICES			Project Numhe	r •	04-08-06-21	
	Contract No	1023			Lab Sample ID:	:	WG14743-103 W (DUP L7510-16)	1
	Matrix:	TISSUE			Sample Size:		10 3	g (wet)
	Sample Receipt Date:	17-Dec-2004			Initial Calibratio	on Date:	04-Feb-2005	
	Extraction Date:	27-Jan-2005			Instrument ID:		HR GC/MS	
	Analysis Date:	18-Feb-2005	Time: 4:44:40		GC Column ID:		SPB-OCTYL	
	Extract Volume (µL):	500			Sample Data Fi	lename:	PB5C_086 S:9	
•	Injection Volume (µL):	10			Blank Data File	name:	PB5C_074 S 7	
	Dilution Factor:	25			Cal. Ver. Data F	ilename:	PB5C_086 S:1	
	Concentration Units :	ng/kg (wet weight ba	unin)					
		ng/kg (wet weight ba	(515)					
1	COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
e :		IUPAC						RRT

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Man Stan Du QAVQC Chemisr Approved by

02-03-2005 dd-mm-yyyy

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*** AXYS ANALYTICAL SERVICES LTD PO. BOX 2219, 2045 MILLS RD. WEST, SIDNEY. B.C. CANADA V81 3SB TEL (250) 655-5800 FA7 -2501 655-5811

Lab Sample ID	COMPOUND 2,3,4 - TriCB 2,3,4' - TriCB 2,3,5 - TriCB 2,3,6 - TriCB 2,3',4 - TriCB 2,3',5 - TriCB	/G14743-103 W IUPAC NO. 21 22 23 24	CO-ELUTIONS 21 + 33	LAB FLAG ¹	Sample Data F CONC. FOUND	DETECTION	PB5C_086 S:9 ION ABUND. RATIO	RR'
	2.3.4' - TriCB 2.3.5 - TriCB 2.3.6 - TriCB 2.3'.4 - TriCB 2.3'.5 - TriCB	22 23	21 + 33					
	2.3.4' - TriCB 2.3.5 - TriCB 2.3.6 - TriCB 2.3'.4 - TriCB 2.3'.5 - TriCB	22 23	21.00					
	2.3.5 - TriCB 2.3.6 - TriCB 2.3'.4 - TriCB 2.3'.5 - TriCB	23						
	2,3,6 - TriCB 2,3'.4 - TriCB 2,3'.5 - TriCB							
	2,3'.4 - TriCB 2.3'.5 - TriCB	24						
	2.3'.5 - TriCB	25						
		26	26 + 29					
	2,3',6 - TriCB	27	20 . 20					
	2,4,4' - TriCB	28	20 + 28					
	2.4.5 - TriCB	29	26 + 29					
	2,4,6 - TriCB	30	18 + 30					
	2.4',5 - TriCB	31						
	2,4',6 - TriCB	32						
	2',3,4 - TriCB	33	21 + 33					
	2'.3.5 - TriCB	34	27 00					
	3,3',4 - TriCB	35						
	3,3',5 - TriCB	36						
	3,4,4' - TriCB	37						
	3,4,5 - TriCB	38						
	3,4',5 - TriCB	39						
	2,2',3,3' - TeCB	40	40 + 41 + 71					
	2,2',3,4 - TeCB	41	40 + 41 + 71					
	2,2',3,4' - TeCB	42						
	2,2',3,5 - TeCB	43						
	2,2',3,5' - TeCB	44	44 + 47 + 65					
	2,2',3,6 - TeCB	45	45 + 51					
	2.2',3,6' - TeCB	46						
	2,2',4,4' - TeCB	47	44 + 47 + 65					
	2,2',4,5 - TeCB	48						
	2,2',4,5' - TeCB	49	49 + 69					
	2,2',4,6 - TeCB	50	50 + 53					
	2,2',4,6' - TeCB	51	45 + 51					
	2,2',5,5' - TeCB	52		DB	3510	0.877	0.79	1.23
	2,2',5,6' - TeCB	53	50 + 53					
	2,2',6,6' - TeCB	54						
	2.3.3',4 - TeCB	55						
	2,3,3',4' - TeCB	56						
	2.3.3',5 - TeCB	57						
	2,3,3',5' - TeCB	58						
	2.3.3'.6 - TeCB	59	59 + 62 + 75					
	2,3,4,4' - TeCB	60						
	2.3.4.5 - TeCB	61	61 + 70 + 74 + 76					
	2,3,4,6 - TeCB	62	59 + 62 + 75					
	2,3,4',5 ToCB	63						

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MAXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD. WEST, SIDNEY, B.C. CANADA V&L 358 TEL (250) 655-5800 FAX (250) 655-5811

COMPOUND				Project Numbe Sample Data F		04-08-06-21 PB5C_086 S:9	
	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION	ION ABUND. RATIO	RRT
2 3 d' 6 - TeCB	64						
		44 + 47 + 65					
2.3',4,5 - TeCB	67						
2.3'.4.5' - TeCB	68						
2,3',4,6 - TeCB	69	49 + 69					
2,3'.4',5 - TeCB	70	61 + 70 + 74 + 76					
2.3'.4'.6 - TeCB	71	40 + 41 + 71					
2.3'.5.5' - TeCB	72						
2,3',5',6 - TeCB	73						
2.4,4',5 - TeCB	74	61 + 70 + 74 + 76					
2,4,4',6 - TeCB	75	59 + 62 + 75					
2',3,4,5 - TeCB	76	61 + 70 + 74 + 76					
3,3',4,4' - TeCB	77						
3,3 '.4 ,5 - TeCB	78						
3,3'.4,5' - TeCB	79						
3,3'.5,5' - TeCB	80						
3,4.4',5 - TeCB	81						
2,2',3.3' .4 - PeCB	82						
2,2',3,3',5 - PeCB	83	83 + 99					
2,2',3,3',6 - PeCB	84						
2.2',3.4,4' - PeCB	85	85 + 116 + 117					
2,2 ' ,3,4,5 - PeCB	86	86 + 87 + 97 + 108 + 119 + 125					
2,2',3,4,5' - PeCB							
2.2'.3,4.6 - PeCB		88 + 91					
2,2',3,4,6' - PeCB						4.50	0.000
2.2'.3.4'.5 - PeCB			CDB	9180	12 4	1.58	0 869
2,2',3,4',6 - PeCB		88 + 91					
,				7050	10.0	4.50	1 101
		93 + 95 + 98 + 100 + 102	СДВ	7850	12.8	1 59	1 121
		00 - 05 - 00 - 400 - 400	002				
		93 + 95 + 98 + 100 + 102	C93				
		96 ± 97 ± 07 ± 108 ± 110 ± 125					
			C93				
			090				
			C02				
.,							
		53 + 53 + 50 + 100 + 102	035				
2.3.3'.4.4' - PeCB	105						
	106						
	2.3'.4.5' - TeCB 2.3'.4.6 - TeCB 2.3'.4'.5 - TeCB 2.3'.4'.6 - TeCB 2.3'.5.5' - TeCB 2.3'.5.5' - TeCB 2.4.4'.5 - TeCB 2.4.4'.6 - TeCB 3.3'.4.5 - TeCB 3.3'.4.5' - TeCB 3.3'.4.5' - TeCB 3.3'.4.5' - TeCB 3.3'.4.5' - TeCB 3.4.4'.5 - TeCB 3.4.4.5' - PECB 3.4.4.5' - PECB 3.4.4'.5 - PECB 3.4.4'.5 - PECB 3.4.4'.5 - PECB	2.3.5.6 · TeCB 65 2.3'.4,4' - TeCB 66 2.3'.4,5' - TeCB 67 2.3'.4,5' - TeCB 68 2.3'.4,5' - TeCB 69 2.3'.4,5' - TeCB 70 2.3'.4,5' - TeCB 70 2.3'.4,5' - TeCB 70 2.3'.4,6 - TeCB 71 2.3'.5,5' - TeCB 72 2.3'.5,6 - TeCB 73 2.4,4',5 - TeCB 74 2.4,4',5 - TeCB 76 3.3',4,5 - TeCB 76 3.3',4,5 - TeCB 78 3.3',4,5 - TeCB 80 3.4,4',5 - TeCB 81 .2',3,3',5 - TeCB 80 3.4,4',5 - TeCB 81 .2',3,3',5 - PeCB 83 .2',3,3',5 - PeCB 84 .2',3,3',6 - PeCB 86 .2',3,4,5' - PeCB 86 .2',3,4,6' - PeCB 89 .2',3,4,6' - PeCB 89 .2',3,4,6' - PeCB 90 .2',3,5,6' - PeCB 91 .2',3,5,6' - PeCB 92 .2',3,5,6' - PeCB 92 .2',3,5,6' - P	2,3.5,6. TeCB65 $44 + 47 + 65$ 2,3',4,5' - TeCB662,3',4,5' - TeCB672,3',4,5' - TeCB692,3',4,5' - TeCB706,1 + 70 + 74 + 762,3',4,5 - TeCB7140 + 41 + 712,3',5,5' - TeCB722,3',5,6 - TeCB732,4,4,5 - TeCB746,1 + 70 + 74 + 762,3,4,5 - TeCB746,1 + 70 + 74 + 762,4,4,5 - TeCB752,3,4,5 - TeCB766,1 + 70 + 74 + 763,3',4,5 - TeCB733,3',4,5 - TeCB733,3',4,5 - TeCB74763,3',4,5' - TeCB752',3,3',5 - TeCB803,4,4',5 - TeCB74773,3',4,5' - TeCB752',3,3',6 - PeCB812',3,3',6 - PeCB822',3,3',6 - PeCB8383 + 992',3,4,5 - PeCB8686 + 87 + 97 + 108 + 119 + 1252',3,4,5' - PeCB8786 + 87 + 97 + 108 + 119 + 1252',3,4,6' - PeCB892',3,4,6' - PeCB9134 + 912',3,4,6' - PeCB922',3,4,5' - PeCB9393 + 95 + 98 + 100 + 1022',3,4,5' - PeCB942',3,4,5' - PeCB9593 + 95 + 98 + 100 + 1022',3,4,5' - PeCB942',3,4,5' - PeCB9593 + 95 + 98 + 100 + 1022',3,4,5' - PeCB	2.3.5,6 · TeCB65 $44 + 47 + 65$ 2.3',4,4' - TeCB662.3',4,5' - TeCB672.3',4,5' - TeCB692,3',4,6 - TeCB692,3',4,6 - TeCB7061 + 70 + 74 + 762,3',5,6 - TeCB7140 + 41 + 712,3',5,6 - TeCB732,3',5,6 - TeCB732,4,4',5 - TeCB7461 + 70 + 74 + 762,4,4',5 - TeCB7559 + 62 + 752',3,4,5 - TeCB7661 + 70 + 74 + 763,3',4,5 - TeCB773,3',4,5 - TeCB783,3',4,5 - TeCB793,3',5,5' - TeCB803,4,4',5 - TeCB81.2',3,3',5 - PeCB8383 + 99.2',3,3',5 - PeCB84.2',3,4,6 - PeCB8585 + 116 + 117.2',3,4,5' - PeCB8686 + 87 + 97 + 108 + 119 + 125.2',3,4,5' - PeCB89.2',3,4,5' - PeCB9090 + 101 + 113CD B.2',3,4,6' - PeCB91.2',3,4,6' - PeCB92.2',3,5',6 - PeCB9393 + 95 + 98 + 100 + 1022,3,4,6' - PeCB94.2',3,4,6' - PeCB9593 + 95 + 98 + 100 + 102.2',3,4,6' - PeCB94.2',3,4,6' - PeCB9593 + 95 + 98 + 100 + 102.2',3,4,6' - PeCB96.2',3,4,6' - PeCB <td>$\begin{array}{cccccccccccccccccccccccccccccccccccc$</td> <td>2.3.5.6 · TeCB 65 $44 + 47 + 65$ 2.3'4.4 · TeCB 66 2.3'4.4 · TeCB 68 2.3'4.5 · TeCB 69 $49 + 69$ 2.3'4.6 · TeCB 70 $61 + 70 + 74 + 76$ 2.3'4.6 · TeCB 71 $40 + 41 + 71$ 2.3'5.5' · TeCB 72 2.3'5.5' · TeCB 72 2.3'4.6 · TeCB 74 $40 + 41 + 71$ 2.3'5.5' · TeCB 72 2.3'4.5 · TeCB 74 $61 + 70 + 74 + 76$ 2.3'4.5 · TeCB 75 $59 + 62 + 75$ 2.3'4.5 · TeCB 76 $61 + 70 + 74 + 76$ 3.3'4.5' · TeCB 76 $31 + 70 + 74 + 76$ $33'4.5 - 7ECB$ 78 $33'4.5' - 7ECB$ 78 78 78 78 <t< td=""><td>2.3.5.6 - TeCB 65 4.4 + 47 + 65 2.3.4.4 - TeCB 66 2.3.4.4 - TeCB 68 2.3.4.4 - TeCB 69 49 + 69 2.3.4.5 - TeCB 70 61 + 70 + 74 + 76 2.3.5.6 - TeCB 71 40 + 41 + 71 2.3.5.6 - TeCB 72 </td></t<></td>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2.3.5.6 · TeCB 65 $44 + 47 + 65$ 2.3'4.4 · TeCB 66 2.3'4.4 · TeCB 68 2.3'4.5 · TeCB 69 $49 + 69$ 2.3'4.6 · TeCB 70 $61 + 70 + 74 + 76$ 2.3'4.6 · TeCB 71 $40 + 41 + 71$ 2.3'5.5' · TeCB 72 2.3'5.5' · TeCB 72 2.3'4.6 · TeCB 74 $40 + 41 + 71$ 2.3'5.5' · TeCB 72 2.3'4.5 · TeCB 74 $61 + 70 + 74 + 76$ 2.3'4.5 · TeCB 75 $59 + 62 + 75$ 2.3'4.5 · TeCB 76 $61 + 70 + 74 + 76$ 3.3'4.5' · TeCB 76 $31 + 70 + 74 + 76$ $33'4.5 - 7ECB$ 78 $33'4.5' - 7ECB$ 78 78 78 78 <t< td=""><td>2.3.5.6 - TeCB 65 4.4 + 47 + 65 2.3.4.4 - TeCB 66 2.3.4.4 - TeCB 68 2.3.4.4 - TeCB 69 49 + 69 2.3.4.5 - TeCB 70 61 + 70 + 74 + 76 2.3.5.6 - TeCB 71 40 + 41 + 71 2.3.5.6 - TeCB 72 </td></t<>	2.3.5.6 - TeCB 65 4.4 + 47 + 65 2.3.4.4 - TeCB 66 2.3.4.4 - TeCB 68 2.3.4.4 - TeCB 69 49 + 69 2.3.4.5 - TeCB 70 61 + 70 + 74 + 76 2.3.5.6 - TeCB 71 40 + 41 + 71 2.3.5.6 - TeCB 72

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AXYS METHOD MLA-010 Rev 05 Form 1A Page 5 of 6 Lab Sample ID	WG14743-103 W			CLIENT ID: Project Number Sample Data F		LDW-C10-T1 (DUPLICATE) 04-08-06-21 PB5C_086 S-9	
COMPOUN	D IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.2'.3.4'.6.6' - H×C	B 150						
2.2',3.5.5'.6 - HxCl		135 + 151 + 154	C135				
2,2'.3.5.6.6' - HxCl	B 152						
2,2'.4,4',5,5' - HxCl	B 153	153 + 168	CDB	26600	124	1 27	0 899
2,2'.4,4'.5,6' - HxC	B 154	135 + 151 + 154	C135				
2.2'.4.4'.6.6' - HxCl	B 155						
2,3.3',4.4'.5 - HxCl	B 156	156 + 157					
2,3.3',4.4'.5' - HxCl	B 157	156 + 157					
2,3,3',4,4',6 - HxCl	B 158						
2,3,3'.4.5.5' - HxCl	B 159						
2,3,3',4,5,6 - HxCl	B 160	129 + 138 + 160 + 163	C129				
2,3,3',4,5',6 - HxCl	B 161						
2,3,3',4',5,5' - HxCl	B 162						
2,3,3',4',5,6 - HxCl	B 163	129 + 138 + 160 + 163	C129				
2,3,3',4'.5'.6 - HxC	B 164						
2,3,3',5,5',6 - HxCl	B 165						
2,3,4,4',5,6 - HxCl	B 166	128 + 166					
2,3',4,4',5,5' - HxCl	B 167						
2,3',4,4',5',6 - HxCl	B 168	153 + 168	C153				
3,3',4,4',5,5' - HxCl	B 169						
2,2',3,3',4,4',5 - HpCl	B 170		DB	5400	4.08	1.06	0.936
2,2',3,3',4,4',6 - HpCl	B 171	171 + 17 3					
2,2',3,3',4,5,5' - HpCl	B 172						
2,2',3,3',4,5,6 - HpCl	B 173	171 + 173					
2.2',3,3',4,5,6' - HpCl			DВ	1260	3.51	1 06	1,133
2,2',3,3',4.5',6 - HpCl							
2,2',3,3',4,6,6' - HpCl							
2,2',3.3',4',5,6 - HpCl			DB	7930	3.72	1.08	1 145
2,2',3,3',5,5',6 - HpCl							
2.2',3,3'.5.6,6' - HpCl			DB	5150	2.39	1 07	1.010
2,2',3,4,4',5,5' - HpCl		180 + 193	CDB	20000	3 10	1.06	0 911
2,2',3,4,4',5,6 HpCl							
2,2',3,4,4',5,6' - HpCl				70.40		1.00	4 4 9 7
2,2',3,4,4',5',6 - HpCl		183 + 185	CDB	7840	3 30	1.06	1.127
2,2',3.4,4',6,6' - HpCl			0.000				
2.2',3,4,5,5',6 - HpCl		183 + 185	C183				
2.2',3,4.5.6.6' - HpCl				40.400	0.44	4.00	4 4 4 0
2,2',3,4',5,5',6 - HpCl			DB	16400	3 11	1.06	1.110
2.2',3.4'.5.6,6' - HpCl							
2.3.3'.4.4',5,5' - HpCl							
2,3,3',4,4',5,6 - HpCl							
2.3.3',4.4',5',6 - HpCl							

14743ADT_11x S5 Approved by ______QA/QC Chemist 02-03-2005 dd-mm-yyyy

2 3 3',4 5 5' 6 - HpCB

192

AXYS ANALYTICAL SERVICES LTD 90 80X 2219 2045 MILLS RD WEST, SIDNEY, B.C., (ANADA V8L 3S8 TEI (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Form 1A Page 6 of 6 Lab Sample ID		WG14743-103 W		I	CLIENT ID: Project Numbe Sample Data F		LDW-C10-T1 (DUPLICATE) 04-08-06-21 PB5C_086 S:9	
CON	NPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC FOUND	DETECTION LIMIT	ION ABUND RATIO	RRT
2.3,3',4',5.5',(6 - HpCB	193	180 + 193	C180				
2.2',3.3',4.4'.5,5	5' - OcCB	194						
2,2',3,3',4.4'.5.6	6 - OcCB	195						
2,2',3,3',4,4'.5,6	s' - OcCB	196						
2,2'.3,3',4,4',6,6	6' - OcCB	197	197 + 200					
2,2',3,3',4,5.5',6	6 - OcCB	198	198 + 199	CDB	4540	0 293	0 92	1 115
2,2',3,3',4,5,5',6	s' - OcCB	199	198 + 199	C198				
2,2',3,3',4,5,6,6	o' - OcCB	200	197 + 200					
2,2',3,3',4,5',6,6	o' - OcCB	201						
2,2',3,3',5,5',6,6	s' - OcCB	202						
2,2',3,4,4',5,5',6	6 - OcCB	203						
2,2',3,4,4',5,6,6	' - OcCB	204						

(1) C = co-eluting congener, U = not detected; K = peak detected, but did not meet quantification criteria, result reported represents the estimated maximum possible concentration. E = exceeds calibrated linear range, see dilution data; D = dilution data; Z = compound not requested, J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

These pages are part of a larger report that may contain information necessary for full data evaluation.

205

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209

2,3,3',4,4',5,5',6 - OcCB

2,2',3,3',4,4',5.5',6 - NoCB

2,2',3,3',4,4',5.6,6' - NoCB

2,2',3,3',4,5,5',6,6' - NoCB

2,2',3,3',4,4',5,5',6.6' - DeCB

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QA/QC Chemist

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AXYS ANALYTICAL SERVICES LTD R.0 BOX 2219, 2045 MILLS RD. WEST, SIDNEY B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TOTAL 209 Page 1 of 1

CLIENT ID: LDW-C10-T1 (DUPLICATE)

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

			Sample Collection:		25-Aug-2004	
Lab Name: AXYS ANALYTICAL S	SERVICES		Project Number:		04-08-06-21	
Contract No.:	4033		Lab Sample ID:		WG14743-103	
Matrix:	TISSUE		Sample Size:		(DUP L7510-16) 10.3	g (wet)
Sample Receipt Date:	17-Dec-2004		Initial Calibration Dat	e:	04-Feb-2005	
Extraction Date:	27-Jan-2005		Instrument ID:		HR GC/MS	
Analysis Date:	13-Feb-2005	Time: 16:28:44	GC Column ID:		SPB-OCTYL	
Extract Volume (µL):	20		Blank Data Filename:		PB5C 074 S:7	
Injection Volume (µL):	1.0		Cal. Ver. Data Filenan	ne:	PB5C_077 S:1	
Dilution Factor:	N/A		Sample Datafile(s):	PB5C_077 S:9		
Concentration Units :	ng/kg (wot woight ba	eie)		PB5C_086 S:9		
PCB HOMOLOGUE GROUP		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT		
Total Monochloro Biphenyls			9.46	0.0446		
Total Dichloro Biphenyls			343	0.171		
Total Trichloro Biphenyls			3890	0.246		
Total Tetrachloro Biphenyls				0.240		
			13700	0.486		
Total Pentachloro Biphenyl s			13700 36800			
Total Pentachloro Diphenyl s Total Hexachloro Biphenyls				0.486		
			36800	0.486 0.423		
Total Hexachloro Biphenyls			36800 111000	0.486 0.423 24.4		
Total Hexachloro Biphenyls Total Heptachloro Biphenyls			36800 111000 81300	0.486 0.423 24.4 1.00		
Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls			36800 111000 81300 13000	0.486 0.423 24.4 1.00 1.16		
Total Hexachloro Biphenyls Total Heptachloro Biphenyls Total Octachloro Biphenyls Total Nonachloro Biphenyls			36800 111000 81300 13000 339	0.486 0.423 24.4 1.00 1.16 0.0931		

(1) U = Not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219 2045 MILLS RD. WEST, SIDNEY R.L. CANADA VBI 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TEO-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT CLIENT ID: LDW-C10-T1 (DUPLICATE)

Lab Name: AXYS ANALYTICAL	Sample Collection:	25-Aug-2004		
Contract No.:	4033		Project Number:	04-08-06-21
Matrix:	TISSUE		Lab Sample ID:	WG14743-103 (DUP L7510-16)
Sample Size:	10 3	g (wet)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (wet	weight basis)	Sample Datafile(s):	PB5C_077 S:9 PB5C_086 S:9

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND		WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			75.0	0 444	0.0001	7 50E-03	7.50E-03
3,4,4',5-TetraCB	81		U		0.415	0.0001	2.08E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			956	0.380	0.0001	9.50E-02	9.50E-02
2,3,4,4',5-PentaCB	114			52.7	0.378	0 0005	2.63E-02	2.63E-02
2,3',4,4',5-PentaCB	118			3300	43.8	0.0001	3.30E-01	3.30E-01
2',3,4,4',5-PentaCB	123			51.1	0.383	0.0001	5.11E-03	5 11E-03
3,3',4,4',5-PentaCB	126			8 17	0.413	0.1	8 17E-01	8.17E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	954	0.368	0.0005	4.77E-01	4.77E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			562	0.286	0 00001	5.62E-03	5.62E-03
3,3',4,4',5,5'-HexaCB	169		U		24 4	0.01	1.22E-01	0.00E+00
2,3,3',4,4'.5,5'-HcptaCB	189			157	1.00	0.0001	1 57E-02	1 57E-02

TOTAL TEQ 1.90 1.78

(1) C = co-eluting congener. U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by MULITHAN QA/QC Chemist

02-03-2005 dd-mro-yvyv

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0% AXYS ANALYTICAL SERVICES LTD PO 807 2219 2045 MILLS RD, WEST, SIDNEY, B (. CANADA V81 358 TEL -250+ 655-5800 FAX (250) 655-5811



BI Data Report Addendum Appendix E

Port of Seattle / City of Seattle / King County / The Boeing Company

CLIENT ID: AXYS METHOD MLA-010 Rev 05 LDW-B1b-S 16684 51 .04 2 Form 1A PCB CONGENER ANALYSIS REPORT Sample Collection: 10-Aug-2004 Project Number 04-08-06-21 Lab Name: AXYE ANALYTICAL SERVICES 4033 Lab Sample ID: L7505-1 Contract No.: Matrix: SOLID Sample Size: 10.6 g (dry) Initial Calibration Date: 04-Feb-2005 16-Dec-2004 Sample Receipt Date: Extraction Date: 25-Jan-2005 Instrument ID: HR GC/MS 08-Feb-2005 Time: 22:19:45 GC Column ID: SPB-OCTYL Analysis Date: Extract Volume (µL): 20 Sample Data Filename: PB5C_068 S:4 Blank Data Filename: PB5C 067 S:5 Injection Volume (µL): 10 **Dilution Factor:** N/A Cal. Ver. Data Filename: PB5C_068 S:1 ng/kg (dry weight basis) % Moisture: 23 Concentration Units :

COMPOUND IUPAC CO-ELUTIONS LAB CONC. DETECTION ION ABUND. RRT FOUND LIMIT NO. RATIO FLAG¹ 2.3'.4.4' - TeCB 66 в 759 0.477 0.76 0 884 3,3'.4,4' - TeCB 77 В 69.5 0 4 4 2 0.74 1.000 3,4,4'.5 - TeCB 81 κ 3.34 0.428 0.66 1.001 2,2',3,4',5 - PeCB 90 90 + 101 + 113CB 1820 0.206 1 58 0 870 101 90 + 101 + 113 2.2'.4.5.5' - PeCB C90 2,3,3',4,4' - PeCB 105 513 0.361 1.51 1.001 В 2,3,3',4',6 - PeCB 110 110 + 115 СВ 1720 0 171 1 58 0.925 2.3.3'.5'.6 - PeCB 113 90 + 101 + 113C90 0.365 1.000 2.3.4.4'.5 - PeCB В 24.8 1.52 114 110 + 115 C110 2.3,4,4',6 - PeCB 115 2.3'.4.4',5 - PeUB 118 в 1250 0.302 1 5 1 1.001 2'.3.4.4'.5 - PeCB 123 R 18.2 0.383 1 001 1 51 0.388 3,3',4,4',5 - PeCB 126 В 2.94 1.59 1 000 2,2',3.3',4,5 - HxCB 129 129 + 138 + 160 + 163 СВ 3100 1.28 1.25 0.928 C129 2,2',3,4,4',5' - HxCB 138 129 + 138 + 160 + 163 3170 0 899 2.2',4,4',5,5' - HxCB 153 153 + 168 СВ 1 17 1 26 156 + 157 СВ 1.000 2.3.3'.4.4'.5 - HxCB 156 266 1 26 1.25 156 + 157 2,3.3',4,4',5' - HxCB 157 C156 2.3.3',4,5.6 - HxCB 160 129 + 138 + 160 + 163 C129 129 + 138 + 160 + 163 163 C129 2.3.3',4',5.6 - HxCB 167 913 0.992 1.25 1.000 2.3'.4.4'.5.5' - HxCB 2.3',4,4',5',6 HxCB 168 153 + 168 C153 3,3',4,4',5,5' - HxCB 169 U 4 01 180 CB 2760 0.0381 1.05 0 9 1 1 2.2'.3.4.4'.5.5' - HpCB 180 ± 193 2,3,3',4,4',5.5' - HpCB 189 33 9 0.274 1 000 0.99 2,3,3',4',5.5',6 - HpCB 193 180 + 193 C180

(1) C = co-eluting congener. U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data, U = dilution data, U = dilution data, U = concentration less than LMCL, B - analyte found in sample and the associated blank; X = results reported acparately

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04/03/2005 Approved by QA/QC Chemist dd-mm-yyyy

UU76 Me AXYS AMALYTICAL SERVICES LTD: P0: B0x 2219, 2045 MILLS RD: WEST SIDNEY, B.C., CANADA VBI 358 TEI (250): 655-5800 FAX (250): 655-5801 AXYS METHOD MLA-010 Rev 05 PGE-TEO-DL_14 Page 1 of 1 CLIENT ID: LDW-B1b-S

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL S	Sample Collection:	10-Aug-2004		
Contract No.:	4033		Project Number:	04-08-06-21
Matrix:	SOLID		Lab Sample ID:	L7505-1
Sample Size:	10.6	g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units : ng/kg (dry weight basis)		eight basis)	Sample Datafile(s):	PB5C_068 S:4

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3'.4,4'-TetraCB	77			69.5	0.442	0.0001	6.95E-03	6.95E-03
3,4,4',5-TetraCB	81		U		0.428	0.0001	2.14E-05	0.00E+00
2,3,3'.4,4'-PentaCB	105			513	0.361	0.0001	5.13E-02	5.13E-02
2,3,4,4',5-PentaCB	114			24.8	0.365	0.0005	1.24E-02	1.24E-02
2,3',4,4',5-PentaCB	118			1250	0.362	0.0001	1.25E-01	1.25E-01
2',3,4,4',5-PentaCB	123			18.2	0.383	0.0001	1.82E-03	1.82E-03
3,3',4,4',5-PentaCB	126			2.94	0.388	0.1	2.94E-01	2.94E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	266	1.26	0.0005	1.33E-01	1.33E-01
2,3,3',4,4'.5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			91.3	0.992	0.00001	9.13E-04	9.13E-04
3,3',4,4',5,5'-HexaCB	169		U		4.01	0.01	2.01E-02	0.00E+00
2,3,3',4,4',5,5'-HeptaCB	189			33.9	0.274	0.0001	3.39E-03	3.39E-03

TOTAL TEQ 0.649 0.628

(1) C = co-eluting congener: U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by Man AMAA QAVQC Chemist

05/03/2005 dd-mm-vyyv

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C AXYS ANALYTICAL SERVICES LTD RO. BOX 2219 2045 MILLS RD. WEST. SIDNEY B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 1968A-S1 209 2	5 Form 1A PCB CONGENER ANALYSIS REPORT				CLIENT ID: LDW-B1b-S (DUPLICATE)	
		1000000		Sample Collection:	10-Aug-2004	
Lab Name, AXYS ANALYTICAL	DERVICES			Project Number:	04-08-06-21	
Contract No.:	1033			Lab Sample ID:	WG14745-104	
Matrix:	SOLID			Sample Size:	(DUP L7505-1) 10 4	g (dry)
Sample Receipt Date:	16-Dec-2004			Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005			Instrument ID:	HR GC/MS	
Analysis Date:	08-Feb-2005		Time: 16:51:57	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20			Sample Data Filename:	PB5C_067 S:10	
Injection Volume (µL):	1 0			Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N/A			Cal. Ver. Data Filename:	PB5C_067 S:1	
Concentration Units :	ng/kg (dry weight basi	sis)		% Moisture:	23	

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		В	604	0.315	0.77	0.884
3.3',4,4' - TeCB	77		В	59.2	0.310	0 76	1.000
3,4,4',5 - TeCB	81		к	2.62	0.297	0.74	1.001
2,2',3,4',5 - PeCB	90	90 + 101 + 113	СВ	1050	0.186	1.56	1 238
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2.3,3'.4,4' - PeCB	105		В	363	1.02	1.51	1.001
2,3,3',4',6 - PeCB	110	110 + 115	СВ	1110	0.153	1.57	1.316
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3,4.4',5 - PeCB	114		В	18 1	1.00	1.56	1.000
2.3,4.4',6 - PeCB	115	110 + 115	C110				
2,3',4,4',5 - PeCB	118		в	874	0.979	1.51	1.001
2',3,4,4',5 - PeCB	123		В	16.5	1 02	1.53	1.001
3,3',4,4',5 - PeCB	126		В	2.20	1 07	1.58	1 000
2,2'.3.3'.4,5 - HxCB	129	129 + 138 + 160 + 163	СВ	1400	0.871	1.26	0.928
2,2'.3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',4,4',5,5' - HxCB	153	153 + 168	СВ	1210	0 800	1.25	0.899
2,3,3',4,4',5 - HxCB	156	156 + 157	СВ	142	0.862	1.25	1.000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2.3.3',4.5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3'.4,4'.5.5' - HxCB	167			49.2	0.674	1.25	1.000
2.2',4,4',5'.6 HxCB	168	153 + 168	C153				
3.3',4.4'.5.5' - HxCB	169		U		1 14		
2,2',3,4,4',5,5' - HpCB	180	180 + 193	СВ	783	0.0275	1.05	0.911
2,3,3',4,4',5,5' - HpCB	189			12.6	0.160	0.96	1.000
2.3.3',4',5,5',6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener: U = not detected. K = peak detected, but did not meet quantification criteria: E = exceeds calibrated linear range, see dilution data. U = dilution data. U = dilution data. U = dilution data. U = concentration less than LMCL. B = analyte found in sample and the associated blank. X = results reported separately

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05/03/2005 _QA/QC Chemist Approved by dd-mm-yyyy

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(250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 PCB-TEO-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-B1b-S (DUPLICATE)

Lab Name: AXYS ANALYTICAL SERVICES Sample Collection: 10-Aug-2004 Project Number: 04-08-06-21 Contract No.: 4033 WG14745-104 Matrix: SOLID Lab Sample ID: (DUP L7505-1) GC Column ID(s): SPB-OCTYL Sample Size: 104 g (dry) ng/kg (dry weight basis) Sample Datafile(s): PB5C_067 S:10 Concentration Units :

						TEQ	
IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
77			59.2	0 310	0.0001	5.92E-03	5.92E-03
81		U		0.297	0.0001	1.48E-05	0.00E+00
105			363	1 02	0.0001	3.63E 02	3.63E 02
114			18.1	1.00	0.0005	9.07E-03	9.07E-03
118			874	0.979	0.0001	8.74E-02	8.74E-02
123			16.5	1.02	0.0001	1.65E-03	1.65E-03
126			2.20	1.07	0 1	2.20E-01	2.20E-01
156	156 + 157	С	142	0.862	0 0005	7 08E-02	7 08E-02
157	156 + 157	C156					
167			49.2	0.674	0 00001	4.92E-04	4.92E-04
169		U		1.14	0.01	5 71E-03	0.00E+00
189			12.6	0.160	0.0001	1.26E-03	1.26E-03
	NO. 77 81 105 114 118 123 126 156 157 167 169	NO. 77 81 105 114 118 123 126 156 156 + 157 157 156 + 157 167 169	NO. FLAG ¹ 77 U 81 U 105 - 114 - 118 - 123 - 126 - 156 156 + 157 C 157 156 + 157 C156 167 U	NO. FLAG ¹ FOUND 77 59.2 81 U 105 363 114 18.1 118 874 123 16.5 126 2.20 156 156 + 157 C 167 49.2 169 U	NO.FLAG1FOUNDLIMIT77 59.2 0 31081U0.2971053631 0211418.11.001188740.97912316.51.021262.201.07156156 + 157C14216749.20.674169U1.14	NO.FLAG1FOUNDLIMIT1998 TEF77 59.2 0.310 0.0001 81U 0.297 0.0001 105 363 1.02 0.0001 11418.1 1.00 0.0005 118874 0.979 0.0001 12316.5 1.02 0.0001 1262.20 1.07 0.1 156156 + 157C142 0.862 0.0005 157156 + 157C15610005 0.0001 169U 1.14 0.01	IUPAC NO.CO-ELUTIONS FLAG1LAB FLAG1CONC. FOUNDDETECTION LIMITWHO 1998 TEFU=1/2 DL7759.20.3100.00015.92E-0381U0.2970.00011.48E-051053631.020.00013.63E 0211418.11.000.00059.07E-031188740.9790.00018.74E-0212316.51.020.00011.65E-031262.201.070.12.20E-01156156 + 157C1420.8620.00057.08E-02167U49.20.6740.000014.92E-04169U1.140.015.71E-03

TOTAL TEQ 0.438 0.433

(1) C = co-eluting congener: U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Mansthou QA/QC Chemist Approved by

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OTO AXYS ANALYTICAL SERVICES LTD RO BOX 2219, 2045 WILLS RO WEST SIDNEY, B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 1668A-S1 205 ∠		Form 1A ONGENER ANALYSIS REPORT		CLIENT ID: LDW-B2a-S	
			Sample Collection:	14-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7505-2	
Matrix:	SOLID		Sample Size:	10 1	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	08-Feb-2005	Time: 23:23:57	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_068 S:5	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_068 S:1	
Concentration Units :	ng/kg (dry weight basis)		% Moisture:	50	

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3'.4.4' - TeCB	66		В	2540	0.794	0.75	0.884
3,3',4.4' - TeCB	77		В	268	0 723	0.76	1.000
3.4,4',5 - TeCB	81		к	8.18	0 692	0.76	1 001
2,2',3.4',5 - PeCB	90	90 + 101 + 113	CE				
2.2'.4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3.3'.4.4' - PeCB	105		В	1450	0.405	1.53	1.000
2.3,3',4',6 - PeCB	110	110 + 115	CE				
2.3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3,4.4',5 - PeCB	114		В	64.8	0 415	1 51	1.001
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2.3 ⁻ .4.4 ⁻ .5 - PeCB	118		E				
2'.3.4.4',5 - PeCB	123		В	66 6	0 400	1 50	1.001
3.3'.4.4'.5 - PeCB	126		KB	13.9	0.426	1 27	1.000
2,2',3.3',4.5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',3,4,4'.5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2'.4.4'.5.5' - HxCB	153	153 + 168	СВ	4950	0.724	1.26	0.899
2,3.3',4.4',5 - HxCB	156	156 + 157	СВ	591	0.765	1.26	1 000
2.3,3'.4.4',5' - HxCB	157	156 + 157	C156				
2,3.3'.4.5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3'.4.4'.5.5' - HxCB	167			217	0.614	1.25	1.001
2,3' 4,4' 5' 6 - HxCB	168	153 + 168	C153				
3,3'.4,4',5.5' - HxCB	169		U		3.37		
2.2'.3,4.4'.5.5' - HpCB	180	180 + 193	СВ	2860	0.0824	1.05	0.910
2.3.3'.4.4'.5.5' - HpCB	189			54 4	0.361	0 98	1 000
2.3,31.4 ,5.51.6 - HpCB	193	160 + 193	C180				

(1) C = co-eluting congener U = not detected. K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data, D = dilution data, D

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QA/QC Chemist Approved by

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AXYS ANALYTICAL SERVICES LTD PO 80X 2219 2045 MILLS RD WEST SIDNEY, B.C. CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5801

CLIENT ID:

AXYS METHOD MLA-010 Rev 0.5				CLIENT ID: LDW-B2a-S	
0000001,200 x		Form 1A PCB CONGENER ANALYSIS REPORT			
		PCB CONGENER ANALISIS REPORT	Sample Collection:	14-Aug-2004	
Lab Name. AXYS ANALYTICAL S	ERVICES		Project Number:	04 08 06 21	
Contract No.:	4033		Lab Sample ID:	L7505-2 W	
Matrix:	SOLID		Sample Size:	10 1	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	22-Feb-2005	Time: 15.40:35	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	100		Sample Data Filename:	PB5C_095 S:9	
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	5		Cal. Ver. Data Filename:	PB5C_095 S ⁻ 1	

Concentration Units :

ng/kg (dry weight basis)

COMPOUND IUPAC CO-ELUTIONS NO.		LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT	
2,3',4,4' - TeCB	66						
3,3',4,4' - TeCB	77						
3.4.4'.5 - TeCB	81						
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CDB	4550	1.49	1.57	1.238
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4,4' - PeCB	105						
2,3,3',4',6 - PeCB	110	110 + 115	СDВ	5160	1.30	1.59	1 317
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4.4'.5 - PeCB	114						
2,3.4,4',6 - PeCB	115	110 + 115	C110				
2,3',4,4',5 - PeCB	118		DВ	4180	1.17	1 53	1.000
2'.3.4.4'.5 - PeCB	123						
3,3',4.4',5 - PeCB	126						
2,2',3,3',4.5 - HxCB	129	129 + 138 + 160 + 163	CDB	6180	10.3	1.26	0.928
2.2',3.4.4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2'.4,4',5,5' - HxCB	153	153 + 168	С				
2,3,3',4,4',5 - HxCB	156	156 + 157	С				
2.3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3'.4.5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4'.5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3'.4,4',5,5' - HxCB	167						
2,3',4,4',5'.C - H×CB	168	153 : 168	C153				
3.3'.4.4'.5.5' - HxCB	169						
2,2',3,4,4',5.5' - HpCB	180	180 + 193	С				
2,3.3',4,4'.5,5' - HpCB	189						
2.3.3'.4'.5,5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congreger. U = not detected, K = peak detected, but did not meet quantification criteria: E = exceeds calibrated linear range, see dilution data, D = dilution data, J = concentration less than LMCL. B = analyte found in sample and the associated blank: λ = results reported separately

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_Q/VQC Chemist Approved by _

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AXYS ANALYTICAL SERVICES LTD PO 80X 2219 2045 MILLS RD. WEST, SIDNEY B.C. CANADA V81 358 TEL 2501 555-5800 FAX (250) 655-5811

AXYS METHOD MLA-DU Rev 05 POB-TEQ-DL_14 Page 1 of 1

CLIENT ID: LDW-B2a-S

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL S	SERVICES		Sample	e Collection:	14-Aug-2004
Contract No.:	4033		Project	t Number:	04-08-06-21
Matrix:	SOLID		Lab Sa	ample ID:	L7505-2
Sample Size:	10 1	g (dry)	GC Co	lumn ID(s):	SPB-OCTYL
Concentration Units :	ną/kg (dry v	veight basis)	Sample	, ,	PB5C_068 S:5 PB5C_095 S:9

						TEQ	
IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
77			268	0.723	0.0001	2.68E-02	2.68E-02
81		U		0.692	0.0001	3 46E-05	0.00E+00
105			1450	0.405	0.0001	1 45 E -01	1.45⊑-01
114			64.8	0.415	0.0005	3.24E-02	3.24E-02
118			4180	7.17	0.0001	4.18E-01	4.18E-01
123			66.6	0.400	0 0001	6.66E-03	6.66E-03
126		U		0.426	0.1	2.13E-02	0.00E+00
156	156 + 157	С	591	0 765	0.0005	2.95E-01	2.95E-01
157	156 + 157	C156					
167			217	0.614	0 00001	2.17E-03	2.17E-03
169		U		3.37	0.01	1.69E-02	0 00E+00
189			54 4	0 361	0 0001	544F-03	544F-03
	NO. 77 81 105 114 118 123 126 156 157 167 169	NO. 77 81 105 114 118 123 126 156 156 + 157 157 156 + 157 167 169	NO. FLAG ¹ 77 81 U 105 114 118 123 126 U 156 + 157 C 157 156 + 157 C156 167 U	NO. FLAG ¹ FOUND 77 268 81 U 105 1450 104 64.8 118 4180 123 66.6 126 U 156 156 + 157 C 591 157 156 + 157 C156 167 217 169 U	NO.FLAG1FOUNDLIMIT772680.72381U0.69210514500.40511464.80.41511841807.1712366.60.400126U0.426156156 + 157C157156 + 157C1561672170.614169U3.37	NO. $FLAG^1$ FOUNDLIMIT1998 TEF772680.7230.000181U0.6920.000110514500.4050.000111664.80.4150.000511841807.170.0001123066.60.4000.001126156 + 157C5910.7650.005157156 + 157C15615615615616702170.6140.0001169U3.370.01169	IUPAC NO.CO-ELUTIONS FLAG1LAB FLAG1CONC. FOUNDDETECTION LIMITWHO 1998 TEFU=1/2 DL772680.7230.00012.68E-0281U0.6920.00013 46E-05105U14500.4050.00011 45E-0111464.80.4150.00053.24E-0211841807.170.00014.18E-0112366.60.4000 00016.66E-03126U0.4260.12.13E-02156156 + 157C5910.7650.00052.95E-01157156 + 157C1562170.6140 000012.17E-03169U3.370.011.69E-02

TOTAL TEQ 0 970 0.932

(1) C = co-eluting congener. U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation

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Approved by. Man Allow QA/QC Chemist

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() AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD, WEST SIDNEY, B.C., CANADA V81 358 TEL (250) 655-5800 FAV (250) 655-5801

AXYS METHOD MLA-010 Rev 05 1668A-S1,209_2	PCB CO	Form 1A NGENER ANALYSIS REPORT		CLIENT ID: LDW-B3b-S	
			Sample Collection:	10-Aug-2004	
Lab Namo: AXYS ANALYTICAL S	SERVICES		Projcot Numbor:	04 08 05 21	
Contract No.:	4033		Lab Sample ID:	L7505-3	
Matrix:	SOLID		Sample Size:	9.89	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	09-Feb-2005	Time: 0:28:10	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_068 S:6	
Injection Volume (µL):	1.0		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_068 S:1	
Concentration Units :	ng/kg (dry weight basis)		% Moisture:	40	

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		Ę				
3,3',4,4' - TeCB	77		B	678	2.46	0.76	1.000
3,4,4',5 - TeCB	81		к	27.7	2.36	0.72	1 001
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4,4' - PeCB	105		Е				
2,3,3',4',6 - PeCB	110	110 + 115	CE				
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114		В	229	12.4	1.56	1 000
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3',4,4',5 - PeCB	118		E				
2',3,4,4',5 - PeCB	123		В	234	12.5	1.57	1.001
3,3',4,4',5 - PeCB	126		В	41.2	13.3	1.55	1 000
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',4,4',5,5' - HxCB	153	153 + 168	CE				
2,3,3',4,4',5 - HxCB	150	156 + 157	СВ	2100	5.47	1.25	1 000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3',4,4',5,5' - HxCB	167			772	4.43	1.26	1.000
2,3',4,4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		8.31		
2,2',3,4,4',5,5' - HpCB	180	180 + 193	C F				
2,3,3',4,4',5,5' - HpCB	189			169	0.890	0.98	1.000
2,3,3',4',5,5',6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener: U = not detected: K = peak detected, but did not meet quantification critena. E = exceeds calibrated linear range, see dilution data: D = dilution data, J = concentration less than LMCL: B = analyte found in each peak and the associated blank, X = results reported separately

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219, 2045 MILLS RD. WEST, SIDNEY B ((ANADA VBI 358 FEL (250) 655-5800 FAX +250+655-5811

AXYS METHOD MLA-010 Rev 1668A-S1 209 2	05			CLIENT ID: LDW-B3b-S	
100-31 205 2		Form 1A PCB CONGENER ANALYSIS REPORT			
		, OB CONCERENTANCE OF REFORT	Sample Collection:	10-Aug-2004	
Lab Name: AXYS ANALYTIC.	AL BERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7505-3 W	
Matrix:	SOLID		Sample Size:	9.89	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	24-Feb-2005	Time: 2:51:14	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	300		Sample Data Filename:	PB5C_098B S:	õ
Injection Volume (µL):	10		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	15		Cal. Ver. Data Filename:	PB5C_098B S:1	

Concentration Units :

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		DB	6200	6.20	0.74	0.884
3.3'.4.4' - TeCB	77						
3 4 4',5 - TeCB	81						
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CDB	13900	2.72	1.59	0.869
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3'.4.4' - PeCB	105		DB	5270	24.7	1.52	1.001
2,3,3'.4',6 - PeCB	110	110 + 115	CDB	18900	2.43	1.58	0.925
2.3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114						
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3',4,4',5 - PeCB	118		DB	13700	21 8	1.52	1.000
2',3.4.4',5 - PeCB	123						
3,3',4,4',5 - PeCB	126						
2,2'.3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	CDB	20400	15.0	1.27	0.928
2,2'.3.4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2'.4,4'.5,5' - HxCB	153	153 + 168	CDB	16300	13.5	1.27	0.899
2,3,3',4,4',5 - HxCB	156	156 + 157	С				
2,3,3',4,4',5' - HxCB	157	156 + 157	G156				
2,3,3',4,5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2.3.3',4'.5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3',4,4',5,5' - HxCB	167						
2,3',4.4',5',8 - HACB	100	153 + 100	C153				
3.3'.4.4'.5.5' - HxCB	169						
2.2'.3.4,4'.5.5' - HpCB	180	180 + 193	CDB	8400	0.694	1.06	0.911
2,3,3'.4,4'.5.5' - HpCB	189						
2.3.3'.4'.5.5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener. U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see allution data, D = dilution data, J = concentration less than LMCL. B = analyte found in sample and the associated blank; X = results reported separately

04/03/2005 QA/QC Chemist Approved by:_ dd-mm-yyyy

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AXYS METHOD MLA-010 Rev 05 PCB-FEQ-DL 14 Page 1 of 1

CLIENT ID: LDW-B3b-S

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SI	ERVICES		Sample Collection:	10-Aug-2004
Contract No.:	4033		Project Number:	04-08-06-21
Matrix:	SOLID		Lab Sample ID:	L7505-3
Sample Size:	9.89	g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units	ng/kg (dry we	eight basis)	Sample Datafile(s):	PB5C_068 S:6 PB5C_096B S:9

							TI	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			678	2.46	0.0001	6.78E-02	6.78E-02
3,4,4',5-TetraCB	81		U		2.36	0.0001	1.18E-04	0.00E+00
2,3,3',4,4'-PentaCB	105			5270	24.7	0.000	5.27E-01	5.27E-01
2,3,4,4',5-PentaCB	114			229	12.4	0.0005	1.14E-01	1.14E-01
2,3',4,4',5-PentaCB	118			13700	21.8	0.0001	1.37E+00	1.37E+00
2',3,4,4',5-PentaCB	123			234	12.5	0.0001	2.34E-02	2.34E-02
3,3',4,4',5-PentaCB	126			41.2	13.3	0.1	4.12E+00	4.12E+00
2,3,3',4,4',5 - HexaCB	156	156 + 157	С	2100	5.47	0.0005	1.05E+00	1.05E+00
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			772	4.43	0.00001	7.72E-03	7.72E-03
3,3',4,4',5,5'-HexaCB	169		U		8.31	0.01	4.15E-02	0.00E+00
2,3,3',4,4',5,5'-HeylaCB	189			169	0,890	0.0001	1.69E-02	1.69E-02

TOTAL TEQ 7.34 7.30

(1) C = co-eluting congener: U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by: Randhan QA/QC Chemist

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€ AXY'S ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD. WEST, SIDNEY B (CANADA VBL 358 TEL (250) 655-5800 FAX (250+ 655-5811

AXYS METHOD 10684-S1 209_2	MLA-010 Rev 05	Form 1A					CLIENT ID: LDW-B4b-S	
			PCB CONC	SENER ANALYSIS REPOR	RΤ.	Sample Collection:	17-Aug-2004	
Lab Name: AXY	S ANALYTICAL 8	ERVICES				Project Number:	04-08-06-21	
Contract No.:		4033				Lab Sample ID:	L7505-4	
Matrix:		SOLID				Sample Size:	10 5	g (dry)
Sample Receipt	Date:	16-Dec-2004				Initial Calibration Date:	04-Feb-2005	
Extraction Date:		25-Jan-2005				Instrument ID:	HR GC/MS	
Analysis Date:		09-Feb-2005		Time: 1 32:24		GC Column ID:	SPB-OCTYL	
Extract Volume	(µL):	20				Sample Data Filename:	PB5C_068 S:7	
Injection Volume	e (µL):	10				Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:		N/A				Cal. Ver. Data Filename:	PB5C_068 S:1	
Concentration U	nits :	ng/kg (dry weight bas	sis)			% Moisture:	52	

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3',4,4' - TeCB	66		E				
3.3',4,4' - TeCB	77		В	586	2.35	0.76	1.000
3.4.4',5 - TeCB	81		ĸ	26.8	2.26	0.75	1.000
2.2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
2.2'.4.5.5' - PeCB	101	90 + 101 + 113	C90				
2,3,3'.4,4' - PeCB	105		E				
2,3,3',4',6 - PeCB	110	110 + 115	CE				
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4,4',5 - PeCB	114		В	226	1.45	1.53	1.000
2,3.4,4'.6 - PeCB	115	110 + 115	C110				
2.3 .4.4 .5 - PeCB	118		E				
2',3.4.4',5 - PeCB	123		В	174	1 54	1 53	1 001
3,3',4,4',5 - PeCB	126		В	23.6	1 58	1.53	1 000
2,2'.3.3'.4,5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',4,4',5,5' - HxCB	153	153 + 168	CE				
2.3.3'.4.4',5 - HxCB	156	156 + 157	СВ	1780	4.15	1.25	1.000
2.3,3',4,4'.5' - HxCB	157	156 + 157	C156				
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3'.4'.5.6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3'.4.4'.5.5' - HxCB	167			609	3.39	1 26	1.000
2.3',4.4'.5',6 HxC₽	168	153 + 168	C153				
3.3'.4.4'.5.5' - HxCB	169		U		10 9		
2.2'.3.4.4'.5.5' - HpCB	180	180 + 193	CE				
2.3.3'.4.4'.5.5' - HpCB	189			166	0 791	1.00	1.000
2.3.3',4',5.5',6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting concenter: U = not detected, K = peak detected, but did not meet quantification criteria. E = exceeds calibrated linear range, see dilution data. D = dilution data.

14745AD2_1 xis_S5

<u>G.S.</u> _____QA/QC Chemist 04/03/2005 Approved by __ dd-mm-yyyy

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20 AXYS ANALYTICAL SERVICES LTD R.O. 80X 2219, 2045 MILLS RD WEST SIDNEY B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05		Form 1A		CLIENT ID: LDW-B4b-S	
		PCB CONGENER ANALYSIS REPORT	Sample Collection:	17-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	04 08 06 21	
Contract No.:	4033		Lab Sample ID:	L7505-4 W	
Matrix:	SOLID		Sample Size:	10.5	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	23-Feb-2005	Time: 6:02:03	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	300		Sample Data Filename:	PB5C_096B S:9	1
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	15		Cal. Ver. Data Filename:	PB5C_096B S:1	

Concentration Units :

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		DB	6510	17.8	0.76	0.885
3,3',4,4' - TeCB	77						
3,4,4',5 ToCB	81						
2,2',3.4',5 - PeCB	90	90 + 101 + 113	CDB	13000	6.92	1.57	1 238
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4.4' - PeCB	105		DB	4740	30.2	1.52	1.001
2,3,3',4',6 - PeCB	110	110 + 115	СDВ	14800	6.06	1.57	1.317
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114						
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2.3'.4,4'.5 - PeCB	118		DB	12100	26.5	1.52	1.000
2',3,4,4',5 - PeCB	123						
3,3',4,4',5 - PeCB	126						
2.2'.3.3',4.5 - HxCB	129	129 + 138 + 160 + 163	CDB	18100	43.1	1.26	0.928
2.2',3.4.4'.5' - HxCB	138	129 + 138 + 160 + 163	C129				
2.2'.4.4'.5.5' - HxCB	153	153 + 168	CDB	15000	36.9	1.26	0.899
2,3,3',4,4',5 - HxCB	156	156 + 157	С				
2.3.3',4.4'.5' HxCB	157	156 + 157	C156				
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5.6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3'.4.4'.5.5' - HxCB	167						
2.3'.4.4'.5',6 - HxCB	168	153 + 168	C153				
3.3'.4.4'.5,5' - HxCB	169						
2,2',3,4,4',5,5' - HpCB	180	180 + 193	CDB	9130	0 996	1.05	0.910
2,3,3',4,4',5,5' - HpCB	189						
2,3,3',4',5,5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener. U = not detected: K = peak detected, but did not meet quantification criteria: E = exceeds calibrated linear range, see dilution data, D = dilution data, J = concentration less than LMCL. B = analyte found in sample and the associated blank; X = results reported separately

14745AD5_1 xis. \$5

0105

AXYS ANALYTICAL SERVICES LTD 9.0 BOX 2219, 2045 MILLS RD WEST, SIDNEY, B.C., CANADA VOL 358 FEI (250) 655-5800 FA) +2501 655-5811

Approved by ______QA/QC Chemist 04/03/2005 dd-mm-yyyy

AXYS METHOD MLA-010 Rev 05 PCB-TEQ-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-B4b-S

Lab Name: AXYS ANALYTICAL S	ERVICES		Sample Collection:	17-Aug-2004
Contract No.:	4033		Project Number:	04-08-06-21
Matrix:	SOLID		Lab Sample ID:	L7505-4
Sample Size:	10.5	g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (dry v	veight basis)	Sample Datafile(s):	PB5C_068 S:7 PB5C_096B S:9

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3.3',4,4'-TetraCB	77			586	2.35	0.0001	5.86E-02	5.86E-02
3,4,4',5-TetraCB	81		U		2.26	0.0001	1.13E-04	0.00E+00
2,3,3',4,4'-PentaCB	105			4740	30.2	0.0001	4.74E-01	4.74E-01
2,3,4,4',5-PentaCB	114			226	1.45	0.0005	1.13E-01	1.13E-01
2,3',4,4',5-PentaCB	118			12100	26.5	0.0001	1.21E+00	1.21E+00
2',3,4,4',5-PentaCB	123			174	1.54	0.0001	1.74E-02	1.74E-02
3,3',4,4',5-PentaCB	126			23.6	1.58	0.1	2.36E+00	2.36E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	С	1780	4.15	0.0005	8.90E-01	8.90E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			609	3.39	0.00001	6.09E-03	6.09E-03
3,3',4,4',5,5'-HexaCB	169		U		10.9	0.01	5.44E-02	0.00E+00
2.3,3',4.4',5.5'-HeptaCD	189			166	0.791	0.0001	1.66E-02	1.66E-02

TOTAL TEQ 5.21 5.15

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

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

4745PCBTED1_1 (6. 38 TEQ)

Approved by: Man Hand QA/QC Chemist

05/03/2005 dd-mni-yyyy

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AXYS ANALYTICAL SERVICES LTD PO BOY 2219, 2045 MILLS RD. WEST SIDNEY B (. CANADA VOL 358 FEL (250) 655-5800 FAY (250) 655-5811

AXYS METHOD MLA-010 Rev 05 16684-S1 209 2	i	Form 1A		CLIENT ID: LDW-B5a-S	
		PCB CONGENER ANALYSIS REPORT	Sample Collection:	22-Aug-2004	
Lab Name: AXYS ANALYHCAL	SERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7505-5	
Matrix:	SOLID		Sample Size:	10.4	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	09-Feb-2005	Time: 10:14:19	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_069 S:4	
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_069 S:1	
Concentration Units :	ng/kg (dry weight bas	is)	% Moisture:	24	

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		В	1600	1.05	0,76	0.884
3.3'.4,4' - TeCB	77		В	173	0.992	0.76	1 000
3,4,4',5 ToCB	81		к	5.89	0.958	0.79	1.000
2,2',3,4',5 - PeCB	90	90 + 101 + 113	¢В	2630	0.291	1.57	0.870
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4,4' - PeCB	105		В	733	2.26	1.51	1.000
2.3,3'.4',6 - PeCB	110	110 + 115	CE				
2.3.3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4.4'.5 - PeCB	114		В	35.2	2.28	1.55	1.001
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3',4.4',5 - PeCB	118		В	1730	2.22	1.51	1.000
2',3,4,4',5 - PeCB	123		В	32.0	2.40	1.53	1.001
3.3'.4.4'.5 - PeCB	126		В	7 49	2.41	1.71	1 000
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СВ	3490	1 74	1.26	0.928
2.2',3.4.4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',4,4',5.5' - HxCB	153	153 + 168	СВ	3220	1 59	1 26	0.899
2,3.3'.4.4'.5 - HxCB	156	156 + 157	СВ	297	1.66	1 25	1.000
2.3.3'.4.4',5' HxCB	157	156 + 157	C156				
2.3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3',4,4',5.5' - HxCB	167			108	1 33	1 26	1.000
2,3',4,4',5',6 - HXUB	100	153 + 168	C153				
3,3',4,4',5,5' HxCB	169		U		3.98		
2.2',3.4.4',5.5' - HpCB	180	180 + 193	СВ	2830	0.0411	1.06	0.911
2.3.3',4,4'.5.5' - HpCB	189			41.8	0.323	1.01	1.000
2,3,3'.4'.5,5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener. U = not detected. K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data, D = dilution data, J = concentration less than LMCL. B = analyte found in sample and the associated blank. X = results reported separately

14745AD3_1 xis. 52

1.S-QA/QC Chemist Approved by ____

04/03/2005 dd-mm-yyyy

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MAXYS ANALYTICAL SERVICES LTD RO BOX 2219 2045 MILLS RD. WEST SIDNEY, B.C. CANADA V81 358 TEI (250) 655-5800 FAX (250) 655-5811

	AXYS METHOD MLA-010 Rev 05 +668A-S1 209 2		Form 1A		CLIENT ID: LDW-B5a-S	
		PCB CONGENER ANALYSIS REPORT		Sample Collection:	22-Aug-2004	
	Lab Name, AXYS ANALYTICAL S	ERVICES		Project Number:	04 08-06 21	
	Contract No.:	4033		Lab Sample ID:	L7505-5 W	
	Matrix:	SOLID		Sample Size:	10 4	g (dry)
	Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
	Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
	Analysis Date:	23-Feb-2005	Time: 2:49:23	GC Column ID:	SPB-OCTYL	
	Extract Volume (µL):	200		Sample Data Filename:	PB5C_096B S:6	
	Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_067 S:5	
	Dilution Factor:	10		Cal. Ver. Data Filename:	PB5C_096B S:1	
			4.5			

Concentration Units :

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66						
3,3',4,4' - TeCB	77						
3.4,4 ',5 - TeCB	81						
2.2',3,4',5 - PeCB	90	90 + 101 + 113	С				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4,4' - PeCB	105						
2,3,3',4',6 - PeCB	110	110 + 115	CDB	2750	1.77	1.59	0.925
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3.4.4',5 - PeCB	114						
2,3,4.4'.6 - PeCB	115	110 + 115	C110				
2,3',4,4',5 - PeCB	118						
2',3,4,4',5 - PeCB	123						
3.3'.4.4'.5 - PeCB	126						
2,2',3.3',4,5 - HxCB	129	129 + 138 + 160 + 1 63	С				
2.2'.3,4.4'.5' - HxCB	138	129 + 138 + 160 + 163	C129				
2.2'.4,4',5.5' - HxCB	153	153 + 168	С				
2,3.3'.4.4',5 - HxCB	156	156 + 157	С				
2 3 3',4 4' 5' - HxCB	157	156 + 157	C156				
2.3,3'.4.5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2.3.3'.4'.5.6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3',4,4',5,5' - HxCB	167						
2,3',4,4',5',0 - HACD	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169						
2.2',3.4,4',5.5' - HpCB	180	180 + 193	С				
2,3,3',4.4',5,5' - HpCB	189						
2.3.3'.4'.5.5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener. U = not detected. K = peak detected, but did not meet quantification criteria. E = exceeds calibrated linear range, see dilution data. D = dilution data. J = concentration less than LMCL. B = analyte found in sample and the associated blank, X = results reported separately

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Approved by ______ Q/VQC Chemist

04/03/2005 dd-mm-yyyy

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MAXYS ANALYTICAL SERVICES LTD RO, BOX 2719 2045 MILLS RD WEST, SIDNEY B (CANADA VBI 358 TEL (250) 655-5801 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 PCB-TEO-DL_14 Page 1 of 1

CLIENT ID: LDW-B5a-S

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL S	Sample Collection:	22-Aug-2004		
Contract No.:	4033		Project Number:	04-08-06-21
Matrix:	SOLID		Lab Sample ID:	L7505-5
Sample Size:	10.4	g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (dry w	eight basis)	Sample Datafile(s):	PB5C_069 S:4

							T	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			173	0.992	0.0001	1.73E-02	1.73E-02
3,4,4'.5-TetraCB	81		U		0.958	0.0001	4.79E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			733	2.26	0.0001	7.33E-02	7.33E-02
2,3,4,4',5-PentaCB	114			35.2	2.28	0.0005	1.76E-02	1.76E-02
2,3',4,4',5-PentaCB	118			1730	2.22	0.0001	1.73E-01	1.73E-01
2',3,4,4',5-PentaCB	123			32.0	2.40	0.0001	3.20E-03	3.20E-03
3,3',4,4',5-PentaCB	126			7.49	2.41	0.1	7.49E-01	7.49E-01
2,3,3',4,4',5 - HexaCB	156	156 + 157	С	297	1.66	0.0005	1.48E-01	1.48E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			108	1.33	0.00001	1.08E-03	1.08E-03
3,3',4,4',5,5'-HexaCB	169		U		3.98	0.01	1.99E-02	0.00E+00
2,3,3',4,4',5,5'-HeµtaCB	189			41.8	0.323	0.0001	4.18E-03	4.18E-03

TOTAL TEQ 1.21 1.19

(1) C = co-eluting congener: U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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01 AXYS ANALYTICAL SERVICES LTD RO BOX 2219, 2045 MILLS RD WEST, SIDNEY, B.C. (ANADA V8L 358 TEL (250) 655-5800 FAX (250) 655-5801

CLIENT ID: AXYS METHOD MLA-010 Rev 05 LDW-B8a-S marA-St Like z Form 1A PCB CONGENER ANALYSIS REPORT Sample Collection: 27-Aug-2004 04-08-06-21 Lab Name. AXY3 ANALYTICAL SERVICES Project Number: Lab Sample ID: L7505-6 4033 Contract No.: Matrix: SOLID Sample Size: 10 5 g (dry) Initial Calibration Date: 04-Feb-2005 Sample Receipt Date: 16-Dec-2004 25-Jan-2005 Instrument ID: HR GC/MS Extraction Date: GC Column ID: SPB-OCTYL Analysis Date: 09-Feb-2005 Time: 11:18:33 20 Sample Data Filename: PB5C_069 S:5 Extract Volume (µL): Blank Data Filename: PB5C_067 S:5 Injection Volume (µL): 10 Dilution Factor: N/A Cal. Ver. Data Filename: PB5C_069 S:1

Concentration Units :

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3'.4.4' - TeCB	66		E				
3.3'.4,4' - TeCB	77		В	2050	9.38	0.77	1 000
3,4,4',5 - TeCB	81		к	88 1	8.10	0.69	1.001
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
2.2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4,4' - PeCB	105		E				
2,3.3',4',6 - PeCB	110	110 + 115	CE				
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4.4',5 - PeCB	114		В	918	2.59	1.54	1.000
2.3,4,4',6 - PeCB	115	110 + 115	C110				
2,3',4,4'.5 - PeCB	118		F				
2',3,4,4',5 - PeCB	123		В	928	2.85	1.50	1.000
3,3',4,4',5 - PeCB	126		В	178	2.92	1.46	1.000
2,2'.3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	CE				
2.2'.3.4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2.2',4,4',5,5' - HxCB	153	153 + 168	CE				
2.3.3',4,4',5 - HxCB	156	156 + 157	CE				
2 3 3' 4.4',5' - HxCB	157	156 + 157	C156				
2,3,3'.4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2.3.3'.4'.5.6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3'.4.4'.5.5' - HxCB	167		E				
2,3',4,4',5',0 - HxCD	168	153 / 168	C153				
3.3'.4,4'.5,5' - HxCB	169		U		165		
2.2',3.4,4',5.5' - HpCB	180	180 + 193	CE				
2.3,3',4,4',5,5' - HpCB	189		E				
2,3,3',4'.5,5',6 - HpCB	193	180 + 193	C180				

% Moisture:

55

(1) C = co-eluting congener. U = not detected. K = peak detected, but did not meet quantification cnteria; E = exceeds calibrated linear range, see dilution data. D = dilution data = = concentration less than LMCL, B = analyte found In sample and the associated blank, X = results reported separately

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QA/QC Chemist Approved pv

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MO AXYS ANALYTICAL SERVICES LTD +0 80% 2219 2045 MILLS RD. WEST SIDNEY B.C., CANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 1668A-S1 209.2 Form 1A CLIENT ID: LDW-B8a-S

			Sample Collection:	27-Aug-2004	
Lab Name. AXY3 ANALYTICAL 5	ERVICES		Projoct Numbor:	01 08 06 21	
Contract No.:	4033		Lab Sample ID:	L7505-6 NK	
Matrix:	SOLID		Sample Size:	10.5	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	24-Feb-2005	Time: 3:55:24	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	2000		Sample Data Filename:	PB5C_098B S:6	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	100		Cal. Ver. Data Filename:	PB5C_098B S:1	

PCB CONGENER ANALYSIS REPORT

Concentration Units :

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		DB	23600	45.0	0.74	0.884
3.3',4.4' - TeCB	77						
3,4,4',5 - TeCB	81						
2,2'.3,4',5 - PeCB	90	90 + 101 + 113	CDB	103000	8.08	1 59	1.238
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2.3.3',4,4' - PeCB	105		DB	16800	122	1.50	1 001
2,3,3',4',6 - PeCB	110	110 + 115	CDB	84900	7.20	1.59	1.317
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114						
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3',4,4',5 - PeCB	118		υв	53100	114	1.52	1.000
2',3,4,4',5 - PeCB	123						
3.3',4,4',5 - PeCB	126						
2.2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СDВ	273000	424	1.27	0.928
2,2'.3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',4,4',5,5' - HxCB	153	153 + 168	СОВ	308000	380	1.27	0.899
2.3,3',4,4',5 - HxCB	156	156 + 157	CDB	15600	476	1 27	1.000
2.3.3',4,4',5' - HxCB	157	156 + 157	C156				
2.3.3',4,5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5.6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3',4,4',5,5' - HxCB	167		D	6300	366	1.29	1.000
2,3',4,4',5',6 - H×CB	168	153 1 168	C153				
3.3',4,4',5,5' - HxCB	169						
2,2',3.4.4'.5.5' - HpCB	180	180 + 193	CDB	307000	3.27	1 06	0.911
2.3,3'.4,4'.5,5' - HpCB	189		D	3890	56.5	1 00	1.001
2,3,3',4',5,5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener. U = not detected: K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data. D = dilution data. J = concentration less than LMCL. B = analyte found In sample and the associated blank. X = results reported separately

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0 AXYS ANALYTICAL SERVICES LTD №0 803 2219 2045 MILLS RD WEST, SIDNEY B.C., JANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TEQ-DL_14 Page 1 of 1

CLIENT ID: LDW-B8a-S

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL S	ERVICES		Sample Collection:	27-Aug-2004
Contract No.	4033		Project Number:	04-08-06-21
Matrix:	SOLID		Lab Sample ID:	L7505-6
Sample Size:	10.5	g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (dry w	eight basis)	Sample Datafile(s):	PB5C_069 S:5 PB5C_098B S:6

							T	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			2050	9.38	0.0001	2.05E-01	2.05E-01
3,4,4',5-TetraCB	81		U		8.10	0.0001	4.05E-04	0.00E+00
2,3,3',4,4'-PentaCB	105			16800	122	0.0001	1.68E+00	1.68E+00
2,3,4,4',5-PentaCB	114			918	2.59	0.0005	4.59E-01	4.59E-01
2,3',4,4',5•PentaCB	118			53100	114	0.0001	5.31E+00	5.31E+00
2'.3.4,4',5-PentaCB	123			928	2.85	0.0001	9.28E-02	9.28E-02
3.3',4,4',5-PentaCB	126			178	2.92	0.1	1.78E+01	1.78E+01
2,3,3',4,4',5-HexaCB	156	156 + 157	с	15600	476	0.0005	7.80E+00	7.80E+00
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			6300	366	0.00001	6.30E-02	6.30E-02
3,3',4,4',5,5'-HexaCB	169		U		165	0.01	8.24E-01	0.00E+00
2,3,3',4,4',5,5'-HeptaUB	189			3890	56.5	0.0001	3.89E-01	3.89E 01

TOTAL TEQ 34.6 33.8

(1) C = co-eluting congener: U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD WEST, SIDNEY B.C., (ANADA V8L 3S8 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 1668A-S1 209 2		Form 1A		CLIENT ID: LDW-B9b-S	
		PCB CONGENER ANALYSIS REPORT	Sample Collection:	11-Aug-2004	
Lab Name: AXYS ANALYTIGAL	SERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7505-7	
Matrix:	SOLID		Sample Size:	10.2	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	09-Feb-2005	Time: 12:22:43	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_069 S:6	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_069 S:1	
Concentration Units :	ng/kg (dry weight bas	sis)	% Moisture:	39	

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3'.4,4' - TeCB	66		В	3290	0.967	0.75	0.884
3,3',4,4' - TeCB	77		В	267	0.960	0.76	1.000
3,4,4',5 - TeCB	81		К	10.9	0.919	0.81	1 001
2,2'.3,4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',4.5,5' - PeCB	101	90 + 101 + 113	C90				
2,3.3',4,4' - PeCB	105		В	3020	7 04	1.51	1,000
2,3,3',4',6 - PeCB	110	110 + 115	CE				
2.3.3'.5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4.4'.5 - PeCB	114		В	152	7.07	1.53	1.000
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2.3'.4.4'.5 - PeCB	118		E				
2',3.4,4'.5 - PeCB	123		В	153	7 19	1.52	1 000
3,3',4,4',5 - PeCB	126		В	23.6	7.43	1.54	1.000
2,2'.3.3'.4.5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2'.4,4',5.5' - HxCB	153	153 + 168	CE				
2.3.3'.4.4',5 - HxCB	156	156 + 157	СВ	1420	9.41	1.26	1.000
2.3.3'.4.4'.5' - HxCB	157	156 + 157	C156				
2,3,3'.4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3',4,4',5,5' - HxCB	167			470	7 65	1 26	1.000
2.3'.4,4',5'.6 HxCB	168	153 ' 168	C153				
3.3'.4.4'.5.5' - HxCB	169		U		7.66		
2,2',3,4,4'.5,5' - HpCB	180	180 + 193	CE				
2.3.3',4,4' 5.5' - HpCB	189			126	1 04	0.99	1 000
2.3,3',4'.5.5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener U = not detected, K = peak detected, but did not meet quantification criteria. E = exceeds calibrated linear range, see dilution data U = dilution data U = concentration less than LMCL. B = analyte found in sample and the associated blank, X = results reported separately

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AXYS METHOD MLA-010 Rev 05		Form 1A		CLIENT ID: LDW-B9b-S	
		PCB CONGENER ANALYSIS REPORT	Sample Collection:	11-Aug-2004	
Lab Name. AXY3 ANALYTICAL	SERVICES		Project Number:	01 08 06 21	
Contract No.:	4033		Lab Sample ID:	L7505-7 W	
Matrix:	SOLID		Sample Size:	10.2	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	23-Feb-2005	Time: 3:53:33	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	200		Sample Data Filename:	PB5C_096B S:7	,
Injection Volume (µL):	1 ()		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	10		Cal. Ver. Data Filename:	PB5C_096B S:1	

Concentration Units :

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66						
3.3'.4.4' - TeCB	77						
3.4.4',5 - TeCB	81						
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CDB	9670	2.23	1.57	1.238
2,2'.4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4,4' - PeCB	105						
2,3,3'.4'.6 - PeCB	110	110 + 115	CDB	12800	1.95	1.57	1.317
2.3.3'.5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114						
2.3.4.4',6 - PeCB	115	110 + 115	C110				
2,3',4.4',5 - PeCB	118		DВ	9100	20.3	1.53	1 000
2'.3.4,4'.5 - PeCB	123						
3,3',4,4',5 - PeCB	126						
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СОВ	14100	27 8	1.27	0.928
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2.2'.4,4'.5.5' - HxCB	153	153 + 168	CDB	10600	23.8	1.27	0.899
2,3,3',4,4',5 - HxCB	156	156 + 157	С				
2.3.3'.4.4'.5' - HxCB	157	156 + 157	C156				
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3',4,4'.5,5' - HxCB	167						
2,3',4,4',5',6 - HxCD	108	153 + 108	C153				
3,3',4,4',5,5' - HxCB	169						
2,2',3,4,4',5.5' - HpCB	180	180 + 193	CDB	7840	0.466	1.06	0.911
2.3.3'.4.4'.5.5' - HpCB	189						
2.3.3',4',5,5',6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener. U = not detected. K = peak detected, but did not meet quantification criteria: E = exceeds calibrated linear range, see dilution data. D = dilution data. J = concentration less than LMCL. B = analyte tound in sample and the associated blank. X = results reported separately

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CAXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD WEST SIDNEY B (. CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5811

CLIENT ID-

AXYS METHOD MLA-010 Rev 05 PCP-TEQ-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-B9b-S

Lab Name: AXYS ANALYTICAL S	ERVICES		Sample Collection:	11-Aug-2004
Contract No.:	4033		Project Number:	04-08-06-21
Matrix:	SOLID		Lab Sample ID:	L7505-7
Sample Size:	10.2	g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (dry w	reight basis)	Sample Datafile(s):	PB5C_069 S:6 PB5C_096B S:7

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			267	0.960	0.0001	2.67E-02	2.67E-02
3,4,4',5-TetraCB	81		U		0.919	0.0001	4.59E-05	0.00E+00
2.3,3',4,4'-PentaCB	105			3020	7.04	0.0001	3.02E-01	3.02E-01
2,3,4,4',5-PentaCB	114			152	7.07	0.0005	7.62E-02	7.62E-02
2,3',4,4',5-PentaCB	118			9100	20.3	0.0001	9.10E-01	9.10E-01
2',3,4,4',5-PentaCB	123			153	7.19	0.0001	1.53E-02	1.53E-02
3,3',4,4',5-PentaCB	126			23.6	7.43	0.1	2.36E+00	2.36E+00
2,3,3',4,4',5-HexaCB	156	156 + 157	С	1420	9.41	0.0005	7.11E-01	7.11E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	16 7			470	7.65	0.00001	4.70E-03	4.70E-03
3,3',4,4',5,5'-HexaCB	169		U		7.66	0.01	3.83E-02	0.00E+00
2,3,3`,4,4`,5,5'-HeptaCB	189			126	1 04	0.0001	1.26E-02	1.26E 02

TOTAL TEQ 4.45 4.41

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

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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AXYS METHOD MLA-010 Rev 05 1668A-S1 209 /	5	Form 1A		CLIENT ID: LDW-B10a-S	
		PCB CONGENER ANALYSIS REPORT	Sample Collection:	25-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7505-8	
Matrix:	SOLID		Sample Size:	10.8	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	09-Feb-2005	Time: 13:26:56	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_069 S:7	
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N-A		Cal. Ver. Data Filename:	PB5C_069 S:1	

Concentration Units :

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		В	488	0.269	0.76	0 884
3,3',4,4' - TeCB	77 1		В	49.5	0.267	0 75	1.000
3,4,4',5 - TeCB	81 /		К	2.44	0.259	0.72	1.001
2.2',3,4',5 - PeCB	90	90 + 101 + 113	СВ	1860	0.285	1.57	1.238
2.2'.4.5.5' - PeCB	101	90 + 101 + 113	C90				
2.3.3'.4,4' - PeCB	105		В	790	2.00	1 52	1 001
2.3,3',4',6 - PeCB	110	110 + 115	СВ	2430	0.233	1 58	1 317
2.3.3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4.4',5 - PeCB	114 🖌		В	40.7	2.02	1.49	1.001
2.3,4,4',6 - PeCB	115	110 + 115	C110				
2.3',4,4',5 - PeCB	118		В	1940	197	1.51	1.000
2',3,4,4',5 - PeCB	123 🦵		В	29.5	2.05	1.47	1.001
3.3'.4.4',5 - PeCB	126		В	3 79	2.09	1.62	1.000
2,2',3,3'.4.5 - HxCB	129	129 + 138 + 160 + 163	СВ	2330	2.59	1.26	0.929
2.2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2.2',4,4'.5,5' - HxCB	153	153 + 168	СВ	1780	2.37	1.26	0.899
2,3,3',4,4',5 - HxCB	156 /	156 + 157	СВ	252	2.48	1.26	1.000
2.3.3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2.3.3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3'.4.4'.5.5' - HxCB	167			86.0	1.98	1.25	1.000
2.3'.4.4'.5'.6 - HxCB	168	153 + 168	C153				
3.3',4,4',5,5' - HxCB	169		U		1.09		
2,2',3,4.4'.5.5' - HpCB	180	180 + 193	СВ	838	0.189	1.05	0 911
2,3,3',4,4',5,5' - HpCB	189			15 7	0.326	1.00	1.001
2.3,3'.4',5.5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener U = not detected, K = peak detected, but did not meet quantification criteria: E = exceeds calibrated linear range, see dilution data. D = dilution data, o = concentration less than LMOL D = analyte found in sample and the associated blank; X = results reported separately

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04/03/2005 QA/QC Chemist Approved by dd-mm-yyyy

% Moisture:

45

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CANADA V&L SS& TEL 250; 655-5800 FAX (250) 655-5800 FAX (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 POPLTEQ-DL 4 Page 1 of 1 CLIENT ID: LDW-B10a-S

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL S	Lab Name: AXYS ANALYTICAL SERVICES			
Contract No.,	4033		Project Number:	04-08-06-21
Matrix:	SOLID		Lab Sample ID:	L7505-8
Sample Size:	10.8	g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (dry w	eight basis)	Sample Datafile(s):	PB5C_069 S:7

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			49.5	0.267	0.0001	4.95 E-0 3	4.95E-03
3,4,4',5-TetraCB	81		U		0.259	0.0001	1.30E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			790	2.00	0.0001	7.90E-02	7.90E-02
2,3,4,4',5-PentaCB	114			40.7	2.02	0.0005	2.03E-02	2.03E-02
2,3',4,4',5-PentaCB	118			1940	1.97	0.0001	1.94E-01	1.94E-01
2',3,4,4',5-PentaCB	123			29.5	2.05	0.0001	2.95E-03	2.95E-03
3,3',4,4',5-PentaCB	126			3.79	2.09	0.1	3.79E-01	3.79E-01
2,3,3',4,4',5 - HexaCB	156	156 + 157	С	252	2.48	0.0005	1.26E-01	1.26E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			86.0	1.98	0.00001	8.60E-04	8.60E-04
3,3',4,4',5,5'-HexaCB	169		U		1.09	0.01	5.43E-03	0.00E+00
2,3,3',4,4',5,5 '-H eplaCB	109			15.7	0.326	0.0001	1.57E 03	1.57E 03

TOTAL TEQ 0.814 0.809

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

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14745FOBTED1_1 ks <4 TEQ

Approved by: Man Hick CA/QC Chemist

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0// AXYS ANALYTICAL SERVICES LTD PO. BOX 2219 2045 MILLS RD WEST, SIDNEY, B.C., CANADA VAL 358 TEL (250) 655-5800 FA/ (250) 655-5801

AXYS METHOD MLA-010 Rev 05		Form 1A B CONGENER ANALYSIS REPORT		CLIENT ID: LDW-C1-S	
			Sample Collection:	26-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	04 08 06 21	
Contract No :	-035		Lab Sample ID:	L7505-9	
Matrix:	SOLID		Sample Size:	10.8	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	09-Feb-2005	Time: 14 31:07	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_069 S:8	
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_069 S:1	
Concentration Units :	ng/kg (dry weight basis)		% Moisture:	25	

IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
66		В	73.6	0.128	0.76	0.884
77		В	10.4	0.125	0.74	1.000
81		KJ	0.396	0 121	0.87	1.001
90	90 + 101 + 113	СВ	180	0.244	1.56	1.239
101	90 + 101 + 113	C90				
105		В	61 4	0.348	1.48	1.000
110	110 + 115	СВ	230	0.200	1.58	1.317
113	90 + 101 + 113	C90				
114		В	2.75	0.343	1.60	1 001
115	110 + 115	C110				
118		В	154	0.336	1 51	1.000
123		В	2.79	0.347	1 51	1 000
126		JB	0 758	0.348	1.56	1.000
129	129 + 138 + 160 + 163	СВ	320	0.518	1.26	0.928
138	129 + 138 + 160 + 163	C129				
153	153 + 168	СВ	258	0 474	1.26	0.899
156	156 + 157	СВ	27 5	0.496	1.27	1.000
157	156 + 157	C156				
160	129 + 138 + 160 + 163	C129				
163	129 + 138 + 160 + 163	C129				
167			10 6	0 401	1 28	1.000
100	153 + 100	C153				
169		U		0 399		
180	180 + 193	СВ	155	0 181	1 06	0.910
189			3 06	0.252	1 06	1 000
193	180 + 193	C180				
	NO. 66 77 81 90 101 105 110 113 114 115 118 123 126 129 138 153 156 157 160 163 167 190 163 167 190 160 163 167 190 180 189	66 77 81 90 $90 + 101 + 113$ 101 $90 + 101 + 113$ 105 $110 + 115$ 110 $110 + 115$ 113 $90 + 101 + 113$ 110 $110 + 115$ 113 $90 + 101 + 113$ 114 $110 + 115$ 113 $90 + 101 + 113$ 114 $110 + 115$ 113 $90 + 101 + 113$ 114 $110 + 115$ 118 $110 + 115$ 118 $110 + 115$ 118 $110 + 115$ 118 123 126 $129 + 138 + 160 + 163$ 153 $153 + 168$ 156 $156 + 157$ 157 $156 + 157$ 157 $156 + 163$ 163 $129 + 138 + 160 + 163$ 167 100 169 $180 + 193$ 189 $180 + 193$	NO.FLAG1 66 B 77 B 81 KJ 90 $90 + 101 + 113$ C B 101 $90 + 101 + 113$ C90 105 B 110 $110 + 115$ C B 113 $90 + 101 + 113$ C90 114 B 115 $110 + 115$ C110 118 B 123 B 126 JB 129 $129 + 138 + 160 + 163$ C B 138 $129 + 138 + 160 + 163$ C129 153 $153 + 168$ C B 156 $156 + 157$ C B 157 $156 + 157$ C B 156 $129 + 138 + 160 + 163$ C129 163 $129 + 138 + 160 + 163$ C129 163 $129 + 138 + 160 + 163$ C129 167 UU 180 $180 + 193$ C B 189 $180 + 193$ C B	NO. $FLAG^1$ FOUND66B73.677B10.481KJ0.3969090 + 101 + 113C B10190 + 101 + 113C90105B61 4110110 + 115C B11390 + 101 + 113C90114B2.75115110 + 115C110118B154123B2.79126JB0.758129129 + 138 + 160 + 163C B138129 + 138 + 160 + 163C129153153 + 168C B156156 + 157C B160129 + 138 + 160 + 163C129163129 + 138 + 160 + 163C1291670153 + 100C153169U106180180 + 193C B1551893 06	NO. $FLAG^1$ FOUNDLIMIT66B73.60.12877B10.40.12581KJ0.3960.1219090 + 101 + 113C B1800.24410190 + 101 + 113C9010510101105B61 40.348110110 + 115C B2300.20011390 + 101 + 113C90101114B2.750.343115110 + 115C11010118B1540.336123B2.790.347126JB0.7580.348129129 + 138 + 160 + 163C12910153153 + 168C B27 50.496155156 + 157C B27 50.496156156 + 157C B27 50.496157158 + 160 + 163C129100.401160129 + 138 + 160 + 163C129100.401161129 + 138 + 160 + 163C129100.401163129 + 138 + 160 + 163C129100.399163129 + 138 + 160 + 163C129100.399169U0.399180180 + 193C B1550.181189180 + 193C B1550.1813.060.252	NO. $FLAG^1$ FOUNDLIMITRATIO66B73.60.1280.7677B10.40.1250.7481KJ0.3960.1210.879090 + 101 + 113C B31600.2411.5610190 + 101 + 113C90101100 + 101156105B61 40.3481.48110110 + 115C B2300.2001.5811390 + 101 + 113C90101156114B2.750.3431.60115110 + 115C110106151123B1540.3361 51124B2.790.3471 51125JB0.7580.3481.56129129 + 138 + 160 + 163C B3200 518129129 + 138 + 160 + 163C129127153153 + 168C B27 50.496129129 + 138 + 160 + 163C129127157156 + 157C 156127160129 + 138 + 160 + 163C129127163129 + 138 + 160 + 163C129106164129 + 138 + 160 + 163C129128165129 + 138 + 160 + 163C129128167U0 339128168120 + 138 + 160 + 163C129163129 + 138 + 160 + 163C129164120 + 138126165120 +

(1) C = co-eluting concenter, U = not detected. K = peak detected, but did not meet quantification criteria, E = exceeds calibrated linear range, see dilution data D = dilution data, J = concentration less than LMCL. B = analyte found in sample and the associated blank; X = results reported separately

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_QA/QC Chemist Approved by

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0 AXYS ANALYTICAL SERVICES LTD PO BOX 2219 2045 MILLS RD WEST, SIDNEY, B.C. (ANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TEO-DL 14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-C1-S

Lab Name: AXYS ANALYTICAL S	Sample Collection:	26-Aug-2004		
Contract No.:	4033		Project Number:	04-08-06-21
Matrix:	SOLID		Lab Sample ID:	L7505-9
Sample Size:	10 8	g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (dry w	veight basis)	Sample Datafile(s):	PB5C_069 S:8

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			10.4	0.125	0.0001	1.04E-03	1.04E-03
3,4,4',5-TetraCB	81		U		0.121	0.0001	6.03E-06	0.00E+00
2,3,3',4,4'-PentaCB	105			61.4	0.348	0.0001	6.14E-03	6.14E-03
2,3,4,4',5-PentaCB	114			2.75	0.343	0.0005	1.38E-03	1.38E-03
2,3',4,4',5-PentaCB	118			154	0.336	0.0001	1.54E-02	1.54E-02
2',3,4,4',5-PentaCB	123			2.79	0.347	0.0001	2.79E-04	2.79E-04
3,3',4,4',5-PentaCB	126			0.758	0.348	0.1	7.58E-02	7.58E-02
2,3,3',4,4',5-HexaCB	156	156 + 157	С	27.5	0.496	0.0005	1.38E-02	1.38E-02
2,3,3',4,4'.5'-HexaCB	157	156 + 157	C156					
2.3'.4,4',5,5'-HexaCB	167			10.6	0 401	0.00001	1.06E-04	1.06E-04
3,3'.4,4',5,5'-HexaCB	169		U		0.399	0.01	2.00E-03	0.00E+00
2,3,3',4,4',5.5'-l leptaCD	189			3.06	0.252	0.0001	3.06E 04	3.06E-04

TOTAL TEQ 0.116 0.114

(1) C = co-eluting congener: U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

14745PCBTEC STOFFEG

Approved by: Man MMM QA/QC Chemist

05-03-2005 dd-mm-yvyy

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0// AXYS ANALYTICAL SERVICES LTD PO 80x 2219 2045 MILLS RD. WEST, SIDNEY, B.C., CANADA V81 358 FEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 0 1668A-51 209 2	5	Form 1A		CLIENT ID: LDW-C2-S2		
		PCB CONGENER ANALYSIS REPORT	Sample Collection:	26-Aug-2004		
Lab Name. AXYS ANALYTICAL	SERVICES		Project Number	14-08-06-21		
Contract No.:	4033		Lab Sample ID:	L7505-10		
Matrix:	SOLID		Sample Size:	10.2	g (dry)	
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005		
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS		
Analysis Date:	09-Feb-2005	Time: 15:35:15	GC Column ID:	SPB-OCTYL		
Extract Volume (µL):	20		Sample Data Filename:	PB5C_069 S:9		
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_067 S:5		

 Dilution Factor:
 N/A

 Concentration Units :
 ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		В	1640	1.00	0.75	0.884
3,3',4,4' - TeCB	77		В	169	0.985	0 76	1,000
3.4.4'.5 - TeCB	81		К	5.57	0.952	0 79	1.001
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CE				
2.2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2.3.3',4,4' - PeCB	105		В	1290	3.85	1.51	1.000
2,3.3',4',6 - PeCB	110	110 + 115	CE				
2,3,3'.5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4,4',5 - PeCB	114		В	58.6	3.84	1.53	1.000
2.3.4.4'.6 - PeCB	115	110 + 115	C110				
2.3'.4.4',5 - PeCB	118		E				
2',3,4,4',5 - PeCB	123		В	53.4	4.06	1.64	1.001
3,3'.4.4',5 - PeCB	126		В	8.30	4.08	1.47	1.000
2,2',3,3'.4,5 - HxCB	129	129 + 138 + 160 + 163	СВ	4830	6.01	1.26	0.928
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2.2',4.4',5,5' - HxCB	153	153 + 168	CE				
2.3.3'.4,4',5 - HxCB	156	156 + 157	СВ	497	5.61	1.26	1.000
2.3.3',4.4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2.3.3'.4'.5.6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3',4,4',5,5' - HxCB	167			171	4.68	1 26	1.000
2,3',4,4',5'.6 HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		6 17		
2.2',3.4,4'.5,5' - HpCB	180	180 + 193	CE				
2.3.3'.4.4'.5.5' - HpCB	189			40.2	1 32	1.01	1.000
2.3.3 [°] ,4 [°] ,5.5 [°] ,6 - НрСВ	193	180 + 193	C180				

(1) C = co-eluting congener, U = not detected, K = beak detected, but did not meet quantification criteria: E = exceeds calibrated linear range, see dilution data, U = dilution data, U

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04/03/2005 QA/QC Chemist Approved by dd-mm-yyyy

Cal. Ver. Data Filename:

% Moisture:

PB5C_069 S:1

31

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ANALYTICAL SERVICES LTD RO BOX 2219, 2045 MILLS RO, WEST, SIDNEY, B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 rodka-S1 209 2				CLIENT ID: LDW-C2-S2	
0004-51,203,2		Form 1A PCB CONGENER ANALYSIS REPORT		1011-02-02	
			Sample Collection:	26-Aug-2004	
Lab Name: AXYS ANALYTICAL S	BERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7505-10 W	
Matrix:	SOLID		Sample Size:	10 2	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	23-Feb-2005	Time: 4:57:53	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	200		Sample Data Filename:	PB5C_096B S:8	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	10		Cal. Ver. Data Filename:	PB5C_096B S:1	

Concentration Units :

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ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66						
3,3',4,4' - TeCB	77						
3,4,4',5 - TeCB	81						
2.2',3.4'.5 - PeCB	90	90 + 101 + 113	CDB	3950	2.51	1.57	1.238
2.2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3.3'.4,4' - PeCB	105						
2,3,3',4',6 - PeCB	110	110 + 115	CDB	4410	2.20	1.57	1.317
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4,4',5 - PeCB	114						
2.3,4.4'.6 - PeCB	115	110 + 115	C110				
2,3',4.4',5 - PeCB	118		DВ	3590	14.3	1.50	1.000
2',3,4.4'.5 - PeCB	123						
3,3',4,4',5 - PeCB	126						
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	С				
2,2',3.4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',4,4'.5.5' - HxCB	153	153 + 168	CDB	5340	7 21	1.26	0.899
2,3.3'.4,4',5 - HxCB	156	156 + 157	С				
2,3 3' 4 4',5' - HxCB	157	156 + 157	C156				
2,3,3'.4.5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5.6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3'.4.4'.5.5' - HxCB	167						
2.3',4.4'.5',6 - HxCD	168	153 168	C153				
3.3'.4,4',5,5' - HxCB	169						
2,2',3.4.4'.5.5' - HpCB	180	180 + 193	CDB	13300	0.982	1.05	0 910
2.3.3'.4,4'.5.5' - HpCB	189						
2.3.3'.4',5.5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener. U = not detected, K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data. D = dilution data, J = concentration less than LMCL, B = analyte found in sample and the associated blank, X - results reported separately

Approved by ______QA/QC Chemist ______Q4/03/2005 dd-mm-yyyy

0147

MAXYS ANALYTICAL SERVICES LTD RO BOX 2219 2045 MIELS RD WEST, SIDNEY B.C., CANADA VBL 358 TEI (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB FEC-DL_14 Page 1 of 1

CLIENT ID: LDW-C2-S2

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Form 1C PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL SERVICES			Sample Collection:	26-Aug-2004	
Contract No.:	4033		Project Number:	04-08-06-21	
Matrix:	SOLID		Lab Sample ID:	L7505-10	
Sample Size:	10.2	g (dry)	GC Column ID(s):	SPB-OCTYL	
Concentration Units :	ng/kg (dry w	eight basis)	Sample Datafile(s):	PB5C_069 S:9 PB5C_096B S:8	

							TE	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4.4'-TetraCB	77			169	0.985	0.0001	1.69E-02	1.69E-02
3,4,4',5-TetraCB	81		U		0.952	0.0001	4.76E-05	0.00E+00
2.3,3',4,4'-PentaCB	105			1290	3.85	0.0001	1.29E-01	1.29 E-0 1
2,3,4,4',5-PentaCB	114			58.6	3.84	0.0005	2.93E-02	2.93E-02
2,3',4,4',5-PentaCB	118			3590	14.3	0.0001	3.59E-01	3.59E-01
2',3,4,4',5-PentaCB	123			53.4	4.06	0.0001	5.34E-03	5.34E-03
3,3',4,4',5-PentaCB	126			8.30	4.08	0.1	8.30E-01	8.30E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	497	5.61	0.0005	2.49E-01	2.49E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			171	4.68	0.00001	1.71E-03	1.71E-03
3,3',4,4',5,5'-HexaCB	169		U		6.17	0.01	3.08E-02	0.00E+00
2,3,3',4,4',5,5'-l leptaCD	189			10.2	1.32	0.0001	4.02E-03	4.02E-03

TOTAL TEQ 1.65 1.62

(1) C = co-eluting congener: U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

Approved by: Mand AVQC Chemist

05/03/2005 dd-mm-yyyy

0150

AXYS ANALYTICAL SERVICES LTD PO 80X 2219, 2045 MILLS RD WEST, SIDNEY 8 (, CANADA V8L 3S8 TEI (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 16684-S1 2094 2			Form 1A		CLIENT ID: LDW-C4-S	
		PCB CONG	GENER ANALYSIS REPORT	Sample Collection:	27-Aug-2004	
Lab Name: AXYS ANALYTICAL S	FRVICES			Project Number:	04-08-06-21	
Contract No	4033			Lab Sample ID:	L7505-11	
Matrix:	SOLID			Sample Size:	10.5	g (dry)
Sample Receipt Date:	16-Dec-2004			Initial Calibration Date:	04-Feb-2005	
Extraction Date:	2 ^{r,} -Jan-2005			Instrument ID:	HR GC/MS	
Analysis Date:	09-Feb-2005		Time: 16:39:26	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20			Sample Data Filename:	PB5C_069 S:10	
Injection Volume (µL):	10			Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N/A			Cal. Ver. Data Filename:	PB5C_069 S ⁻ 1	
Concentration Units :	ng/kg (dry weight basi	is)		% Moisture:	31	

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3'.4.4' - TeCB	66		В	1180	0.536	0.76	0.884
3,3',4,4' - TeCB	77		В	120	0.537	0.76	1.000
3.4.4',5 - TeCB	81		к	4.70	0.506	0.77	1.001
2,2'.3,4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2.3,3',4,4' - PeCB	105		В	1190	0.822	1 52	1 000
2,3,3',4',6 - PeCB	110	110 + 115	CE				
2.3.3'.5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4.4',5 - PeCB	114		В	54.3	0.827	1.54	1.000
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3'.4.4'.5 - PeCB	110		E				
2',3,4,4'.5 - PeCB	123		В	62.6	0.836	1.51	1,000
3,3',4,4',5 - PeCB	126		В	4 97	0.885	1.34	1.000
2,2',3,3'.4,5 - HxCB	129	129 + 138 + 160 + 163	СВ	5340	1.83	1.26	0.928
2,2',3.4.4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2.2'.4,4',5.5' - HxCB	153	153 + 168	СВ	4060	1 67	1.26	0.899
2.3,3'.4.4'.5 - HxCB	156	156 + 157	СВ	544	1 77	1.26	1.000
2.3.3',4,4',5' - HxCB	157	156 + 157	C156				
2.3.3'.4.5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3'.4.4'.5.5' - HxCB	167			189	1 42	1 25	1 001
2.3' 4.4' 5' 6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		U		1 25		
2.2'.3.4.4'.5.5' - HpCB	180	180 + 193	СВ	1620	0 105	1 05	0.911
2,3.3'.4.4',5,5' - HpCB	189			33.2	1 26	0 96	1.000
2,3.3'.4'.5.5'.6 - HµCB	190	180 + 193	C100				

(1) C = co-eiuung concerner. U = not detected, K = beak detected, but did not meet quantification criteria, E = exceeds calibrated linear range, see dilution data, D = dilution data, V = concertration less than LMCL, B = analytic found in sample and the accordated blank, X = results reported separately

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Approved by ______QA/QC Chemist 04/03/2005 da-mm-yyyy

AXYS METHOD MLA-010 Rev 05					CLIENT ID: LDW-C4-S	
1990 m 0 (200-2			Form 1A			
		PCB CONGEN	IER ANALYSIS REPORT	Sample Collection:	27-Aug-2004	
Lab Name; AXYS ANALYTICAL S	ERVICES			Project Number:	01 08 06 21	
Contract No.:	4033			Lab Sample ID:	L7505-11 W	
Matrix:	SOLID			Sample Size:	10.5	g (dry)
Sample Receipt Date:	16-Dec-2004			Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005			Instrument ID:	HR GC/MS	
Analysis Date:	22-Feb-2005	ті	ime: 16:44:46	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	100			Sample Data Filename:	PB5C_095 S:10	
Injection Volume (μL):	1 0			Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	5			Cal. Ver. Data Filename:	PB5C_095 S:1	

Concentration Units :

14745AD6_1 xis S4

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66						
3,3',4,4' - TeCB	77						
3.4.4'.5 - TeCB	81						
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CDB	5170	1 83	1.57	1 238
2,2',4.5.5' - PeCB	101	90 + 101 + 113	C90				
2,3.3',4,4' - PeCB	105						
2,3.3',4',6 - PeCB	110	110 + 115	С D В	6150	1.60	1.57	1.317
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114						
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3',4,4',5 - PeCB	118		DB	3640	4.83	1.53	1.000
2',3,4.4',5 - PeCB	123						
3,3',4,4'.5 - PeCB	126						
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	С				
2,2',3,4.4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',4,4',5,5' - HxCB	153	153 + 168	С				
2,3,3',4,4',5 - HxCB	156	156 + 157	С				
2,3,3',4,4',5' - H×CB	157	156 + 157	C156				
2.3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3'.4.4'.5,5' - HxCB	167						
2.3',4.4 .5',6 - HxCB	100	153 + 100	C153				
3,3'.4,4',5,5' - HxCB	169						
2.2'.3,4,4'.5,5' - HpCB	180	180 + 193	С				
2.3,3',4.4'.5.5' - HpCB	189						
2.3.3'.4'.5.5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener, U = not detected. K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data. D = dilution data, J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

Approved by ______QA/QC Chemist 04/03/2005 dd-mm-yyyy

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0 80X 2219 2045 MILLS RD, WEST, SIDNEY, B.C. CANADA V81 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCB-TEO-Dull 4 Page 1 of 1

CLIENT ID: LDW-C4-S

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Form 1C PCB CONGENER TEQ ANALYSIS REPORT

	······································		PB5C_095 S:10	
Concentration Units	ng/kg (dry weight basis)	Sample Datafile(s):	PB5C 069 S:10	
Sample Size:	10.5 g (dry)	GC Column ID(s):	SPB-OCTYL	
Matrix:	SOLID	Lab Sample ID:	L7505-11	
Contract No.:	4033	Project Number:	04-08-06-21	
Lab Name: AXYS ANALYTICAL S	ERVICES	Sample Collection:	27-Aug-2004	

							TE	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3'.4,4'-TetraCB	77			120	0.537	0.0001	1.20E-02	1.20E-02
3,4,4'.5-TetraCB	81		U		0.506	0.0001	2.53E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			1190	0.822	0.0001	1.19E-01	1.19E-01
2,3,4,4',5-PentaCB	114			54.3	0.827	0.0005	2.71E-02	2.71E-02
2,3',4,4',5-PentaCB	118			3640	4.83	0.0001	3.64E-01	3.64E-01
2',3,4,4',5-PentaCB	123			62.6	0.836	0.0001	6.26E-03	6.26E-03
3,3',4,4',5-PentaCB	126			4.97	0.885	0.1	4.97E-01	4.97E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	544	1.77	0.0005	2.72E-01	2.72E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			189	1.42	0.00001	1.89E-03	1.89E-03
3,3',4,4',5,5'-HexaCB	169		U		1.25	0.01	6.24E-03	0.00E+00
2,3,3',4,4',5,5'-HeptaCB	189			33.2	1.26	0.0001	3.32E 03	3.32E 03

TOTAL TEQ 1.31 1.30

(1) C = co-eluting congener: U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

4745PCBTEO1 : WS 815 TF .

Approved by: Man Approved by: Man Alac Chemist

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AXYS METHOD MLA-010	Rev 05			CLIENT ID: LDW-C6-S
		Form 1A PCB CONGENER ANALYSIS REPORT		
			Sample Collection:	26-Aug-2004
Lab Name: AXYS ANALY	TICAL SERVICES		Project Number:	04-08-06-21
Contract No.:	4033		Lab Sample ID:	L7505-12

Matrix:	SOLID		Sample Size:	10 7	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	09-Feb-2005	Time: 17 [.] 43:36	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_069 S:11	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_069 S:1	
Concentration Units :	ng/kg (dry weight basis)		% Moisture:	30	

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2.3'.4,4' - TeCB	66		В	956	0 554	0.76	0.884
3,3',4,4' - TeCB	77		В	104	0.553	0.76	1.000
3.4.4',5 - TeCB	81		к	3.71	0.522	0.69	1.001
2,2',3,4',5 - PeCB	90	90 + 101 + 113	СВ	2190	0.516	1.58	1.238
2.2',4.5.5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4,4' - PeCB	105		В	697	0.407	1.52	1.000
2,3,3',4',6 - PeCB	110	110 + 115	СВ	2750	0.423	1.58	1.317
2,3.3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3,4,4',5 - PeCB	114		В	33.5	0.407	1 58	1.001
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2.3',4,4',5 - Peub	118		В	1820	0.410	1 52	1 000
2',3,4,4',5 - PeCB	123		В	33.5	0.431	1 62	1.001
3,3',4,4',5 - PeCB	126		В	5.27	0 426	1.36	1.000
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СВ	3170	1.49	1.26	0.928
2.2'.3.4.4'.5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2'.4,4',5,5' - HxCB	153	153 + 168	СВ	2630	1.37	1.26	0.899
2.3.3'.4.4'.5 - HxCB	156	156 + 157	СВ	294	1.40	1.26	1.000
2.3.3'.4,4',5' - HxCB	157	156 + 157	C156				
2,3.3'.4.5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2.3.3'.4'.5.6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3'.4.4',5,5' - HxCB	167			110	1.17	1.25	1.000
2,3'.4.4'.5'.6 HxCB	168	153 ± 168	C153				
3.3'.4.4'.5,5' - HxCB	169		U		1.26		
2.2'.3.4.4'.5.5' - HpCB	180	180 + 193	СВ	1680	0 272	1.06	0.910
2,3,3',4,4',5,5' - HpCB	189			30.2	0.462	1 03	1.000
2.3.3'.4'.5,5',6 - HpUB	193	180 + 193	C180				

(1) C = co-eluting congener (0 = not detected K = beak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data. D = dilution data. D

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04/03/2005 _QA/QC Chemist Approved by. dd-mm-yyyy

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CAXYS ANALYTICAL SERVICES LTD R.O. BOX 2219, 2045 MILLS RD WEST, SIDNEY B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05 PCB-TEO-D, 14 Page 1 of 1

CLIENT ID: LDW-C6-S

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

Lab Name: AXYS ANALYTICAL S	ERVICES	Sample Collection:	26-Aug-2004
Contract No.:	4033	Project Number:	04-08-06-21
Matrix:	SOLID	Lab Sample ID:	L7505-12
Sample Size:	10.7 g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (dry weight basis)	Sample Datafile(s):	PB5C_069 S:11

							TI	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			104	0.553	0.0001	1.04E-02	1.04E-02
3,4,4',5-TetraCB	81		U		0.522	0.0001	2.61E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			697	0.407	0.0001	6.97E-02	6.97 E- 02
2,3,4,4',5-PentaCB	114			33.5	0.407	0.0005	1.67E-02	1.67E-02
2,3',4,4',5-PentaCB	118			1820	0.410	0.0001	1.82E-01	1.82E-01
2',3,4,4',5-PentaCB	123			33.5	0.431	0.0001	3.35E-03	3.35E-03
3,3',4,4',5-PentaCB	126			5.27	0.426	0.1	5.27E-01	5.27E-01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	294	1.40	0.0005	1.47E-01	1.47E-01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			110	1.17	0.00001	1.10E-03	1.10E-03
3,3',4,4',5,5'-HexaCB	169		U		1.26	0.01	6.31E-03	0.00E+00
2,3,3',4,4',5,5'-HeptaCB	189			30.2	0.462	0.0001	3.02E 03	3.02E-03

TOTAL TEQ 0.966 0.960

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

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by. Mandel and Chemist

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CINO AXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD, WEST, SIDNEY, B.C. CANADA VBL 358 FEI (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 1668A-S1 105 2	PCB CC	Form 1A DNGENER ANALYSIS REPORT		CLIENT ID: LDW-C7-S-1	
			Sample Collection:	26-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	01 08 06 21	
Contract No.:	4033		Lab Sample ID:	L7505-13	
Matrix:	SOLID		Sample Size:	10 9	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	10-Feb-2005	Time: 2:36:40	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_070A S:7	
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_070A S:1	
Concentration Units :	ng/kg (dry weight basis)		% Moisture:	26	

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		E				
3,3',4,4' - TeCB	77		В	1250	3.58	0 76	1 000
3,4,4',5 - TeCB	81		К	43.2	2.68	0 79	1.000
2.2',3.4',5 - PeCB	90	90 + 101 + 113	CE				
2,2'.4,5,5' - PeCB	101	90 + 101 + 113	C90				
2.3,3'.4,4' - PeCB	105		E				
2,3,3'.4',6 - PeCB	110	110 + 115	CE				
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2,3.4,4',5 - PeCB	114		В	1400	11.3	1.48	1.000
2.3,4,4'.6 - PeCB	115	110 + 115	C110				
2,3',4,4',5 - PeCB	118		E				
2'.3.4.4'.5 - PeCB	123		В	1570	12.2	1.50	1 001
3.3',4.4',5 - PeCB	126		В	218	12.6	1.51	1 000
2.2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	CE				
2.2'.3.4.4'.5' - HxCB	138	129 + 138 + 160 + 163	C129				
2.2'.4.4'.5.5' - HxCB	153	153 + 168	CE				
2,3,3',4.4',5 - HxCB	156	156 + 157	CE				
2,3.3',4.4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2.3,3',4'.5.6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3',4,4',5,5' - HxCB	167		E				
2,3',4,4',5',6 - HxCB	100	153 + 106	O153				
3,3'.4,4',5,5' - HxCB	169		U		48.1		
2.2',3.4,4',5,5' - HpCB	180	180 + 193	CE				
2.3.3'.4,4'.5,5' - HpCB	189			1010	4 47	0.95	1.000
2.3.3'.4'.5.5'.6 - HpCB	193	180 + 193	C180				

(1) $C = \text{co-eluting congener} \rightarrow = \text{not detected}$; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data, D = dilution data, J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

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0 80X 2219, 2045 MILLS RD. WEST SIDNEY, B.C., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 CLIENT ID: LDW-C7-S-1 1668A-S1 209 4 Form 1A PCB CONGENER ANALYSIS REPORT Sample Collection: 26-Aug-2004 Lab Name: AXY3 ANALYTICAL SERVICES Project Number: 01 08 06 21 Lab Sample ID: ∟7505-13 W 4033 Contract No .: SOLID Sample Size: 10.9 Matrix: g (dry) Sample Receipt Date: 16-Dec-2004 Initial Calibration Date: 04-Feb-2005 Instrument ID: HR GC/MS Extraction Date: 25-Jan-2005 Analysis Date: 24-Feb-2005 Time: 4:59:37 GC Column ID: SPB-OCTYL 400 Sample Data Filename: PB5C_098B S:7 Extract Volume (µL): Injection Volume (µL): 10 Blank Data Filename: PB5C_067 S:5

Cal. Ver. Data Filename: PB5C_098B S:1

Concentration Units :

Dilution Factor:

ng/kg (dry weight basis)

20

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		DB	23200	7 61	0.76	0.884
3,3',4,4' - TeCB	77						
3.4.4',5 - TeCB	81						
2,2',3,4',5 - PeCB	90	90 + 101 + 113	С				
2.2',4,5.5' - PeCB	101	90 + 101 + 113	C90				
2.3,3',4,4' - PeCB	105		DB	33300	150	1.52	1.000
2.3,3',4',6 - PeCB	110	110 + 115	С				
2,3.3'.5',6 - PeCB	113	90 + 101 + 113	C90				
2,3.4,4',5 - PeCB	114						
2.3,4,4',6 - PeCB	115	110 + 115	C110				
2.3'.4.4',5 - PeCB	118						
2',3,4,4',5 - PeCB	123						
3,3',4,4',5 - PeCB	126						
2,2',3,3'.4,5 - HxCB	129	129 + 138 + 160 + 163	С				
2,2',3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2.2'.4.4'.5.5' - HxCB	153	153 + 168	С				
2,3.3'.4.4',5 - HxCB	156	156 + 157	CDB	16000	167	1 26	1.000
2,3,3' 4 4' 5' - HxCB	157	156 + 157	C156				
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3'.4'.5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3'.4.4',5,5' - HxCB	167		D	6190	125	1.27	1.000
2,3',4,4',5',6 - HACB	100	153 + 100	C153				
3.3',4,4',5,5' - HxCB	169						
2.2',3.4.4'.5,5' - HpCB	180	180 + 193	CDB	59600	4.19	1.05	0.911
2,3,3',4,4',5,5' - HpCB	189						
2,3.3'.4'.5,5',6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener. U = not detected. K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data. D = dilution data. J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

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QA/QC Chemist Approved by

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04/03/2005

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ONO AXYS ANALYTICAL SERVICES LTD RO BOX 2219, 2045 MILLS RO. WEST SIDNEY, B.C., CANADA VAL 358 FEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-C7-S-1	
		PCB CONGENER ANALISIS REPORT	Sample Collection:	26-Aug-2004	
Lab Name: AXYS ANALYTICAL :	SERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7505-13 NK	
Matrix:	SOLID		Sample Size:	10.9	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	02-Mar-2005	Time: 15:04:29	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	30000		Sample Data Filename:	PB5C_111 S:6	
Injection Volume (μL):	1 0		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	1500		Cal. Ver. Data Filename:	PB5C_111 S:1	

Concentration Units :

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66						
3,3',4,4' - TeCB	77						
3,4,4',5 - ToCB	81						
2,2'.3,4'.5 - PeCB	90	90 + 101 + 113	СDВ	178000	162	1.59	0.869
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4,4' - PeCB	105						
2,3,3'.4',6 - PeCB	110	110 + 115	CDB	231000	137	1.57	0.925
2,3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3,4.4',5 - PeCB	114						
2,3,4.4',6 - PeCB	115	110 + 115	C110				
2.3',4,4',5 - PeCB	118		DB	108000	292	1.57	1.000
2',3,4,4',5 - PeCB	123						
3,3',4,4',5 - PeCB	126						
2,2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СОВ	198000	508	1.28	0.929
2,2',3,4.4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2'.4,4'.5,5' - HxCB	153	153 + 168	СDВ	146000	446	1.26	0.899
2,3.3'.4.4',5 - HxCB	156	156 + 157	С				
2,3.3',4,4',5' HxCB	157	156 + 157	C156				
2.3.3',4.5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2.3.3'.4'.5.6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3',4,4',5,5' - HxCB	167						
2.3',4.4',5'.6 - HXUB	166	153 + 166	C153				
3.3',4,4',5,5' - HxCB	169						
2,2',3.4,4',5,5' - HpCB	180	180 + 193	С				
2,3.3',4,4',5,5' - HpCB	189						
2,3.3',4',5.5',6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener U = not detected; K = peak detected, but aid not meet quantification criteria; E = exceeds calibrated linear range, see dilution data. D = dilution data U = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

14745AD8_1 xls. S2

_QA/QC Chemist Approved by:

04/03/2005 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD PO BOX 2219, 2045 MILLS RD WEST, SIDNEY, B.C., (ANADA VBL 358 TEL (250) 655-5800 FAY (250) 655-5817

AXYS METHOD MLA-010 Rev 05 PCB-TEO-DL_14 Page 1 of 1

CLIENT ID: LDW-C7-S-1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

		,		PB5C_098B S:7 PB5C_111 S:6
Concentration Units :	na/ka (drv v	veight basis)	Sample Datafile(s):	PB5C 070A S:7
Sample Size:	10.9	g (dry)	GC Column ID(s):	SPB-OCTYL
Matrix:	SOLID		Lab Sample ID:	L7505-13
Contract No.:	4033		Project Number:	04-08-06-21
Lab Name: AXYS ANALYTICAL S	ERVICES		Sample Collection:	26-Aug-2004

							TE	Q
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			1250	3.58	0.0001	1.25E-01	1.25E-01
3,4,4',5-TetraCB	81		U		2.68	0.0001	1.34E-04	0.00E+00
2,3,3',4,4'-PentaCB	105			33300	150	0.0001	3.33E+00	3.33E+00
2,3,4,4',5-PentaCB	114			1400	11.3	0.0005	6.98E-01	6.98E-01
2,3',4,4',5-PentaCB	118			108000	292	0.0001	1.08E+01	1.08E+01
2',3,4,4',5-PentaCB	123			1570	12.2	0.0001	1.57E-01	1.57E-01
3,3',4,4',5-PentaCB	126			218	12.6	0.1	2.18E+01	2.18E+01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	16000	167	0.0005	8.00E+00	8.00E+00
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			6190	125	0.00001	6.19E-02	6.19E-02
3,3',4,4',5,5'-HexaCB	169		U		48.1	0.01	2.40E-01	0.00E+00
2,3,3',4,4',5,5'-HeptaCB	109			1010	4.47	0.0001	1.01E 01	1.01E 01

TOTAL TEQ 45.3 45.1

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

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by: Mail Hunde QAVQC Chemist

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AXYS METHOD MLA-010 Rev 05 1668A-S1 20% -		Form 1A PCB CONGENER ANALYSIS REPORT		CLIENT ID: LDW-C8-S
		POB CONVENER ANALISIS REPORT	Sample Collection:	26-Aug-2004
Lab Name: AXYS ANALYHCAL	SERVICES		Project Number.	04-08-00-21
Contract No.:	4033		Lab Sample ID:	L7505-14 W
Matrix:	SOLID		Sample Size:	10.5
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005
Extraction Date:	25-jan-2005		Instrument ID:	HR GC/MS
Analysis Date:	24-Feb-2005	Time: 7.08:07	GC Column ID:	SPB-OCTYL
Entre et Melume (ul.)	100		Sample Data Filename:	PB5C 098B S

 Analysis Date:
 24-Feb-2005
 Time: 7·08:07
 GC Column ID:
 SPB-OCTYL

 Extract Volume (μL):
 400
 Sample Data Filename:
 PB5C_098B S:9

 Injection Volume (μL):
 10
 Blank Data Filename:
 PB5C_067 S:5

 Dilution Factor:
 20
 Cal. Ver. Data Filename:
 PB5C_098B S:1

Concentration Units :

R

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3'.4.4' - TeCB	66		E				
3,3',4,4' - TeCB	77		DB	5740	21 8	0.75	1.000
3,1,1',5 - ToCB	81		KD	215	19.6	0.77	1.001
2,2'.3,4',5 - PeCB	90	90 + 101 + 113	CE				
2,2'.4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4,4' - PeCB	105		E				
2,3,3',4',6 - PeCB	110	110 + 115	CE				
2.3.3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4,4',5 - PeCB	114		DB	4030	272	1.52	1.000
2,3,4,4'.6 - PeCB	115	110 + 115	C110				
2.3',4,4'.5 - PeCB	118		E				
2',3,4.4',5 - PeCB	123		DB	4080	291	1.52	1 001
3,3',4,4',5 - PeCB	126		DB	725	347	1.51	1.000
2.2',3.3',4,5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',3,4.4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2.2',4,4',5,5' - HxCB	153	153 + 168	CE				
2,3,3',4,4',5 - HxCB	156	156 + 157	CDB	39300	288	1.27	1 000
2,3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3',4,5.6 - HxCB	160	129 + 138 + 160 + 163	C129				
2.3.3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3',4,4'.5,5' - HxCB	167		D	13700	225	1 27	1 000
2.3.4.4.5.6 - HxCB	100	153 + 100	C153				
3,3',4.4',5,5' - HxCB	169		UD		229		
2,2'.3,4.4',5,5' - HpCB	180	180 + 193	CDB	65100	4 47	1.06	0.911
2.3,3',4,4',5,5' - HpCB	189		D	1640	14 7	0 96	1 001
2.3.3'.4'.5,5',6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener, U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data D = dilution data J = concentration less than LMCL, B = analyte found in sample and the associated blank; X = results reported separately

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Approved by Many Monthayac Chemist

07-03-2005 dd-mm-yyyy

U

6

g (dry)

() () AXYS ANALYTICAL SERVICES LTD R.O. BOX 2219, 2045 MILLS RD. WEST SIDNEY, B.L., CANADA VBL 358 TEL (250) 655-5800 FAV (250) 655-5811

AXYS METHOD MLA-010 Rev 05 LDW-C8-S 1368A-S1 209 2 Form 1A PCB CONGENER ANALYSIS REPORT Sample Collection: 26-Aug-2004 Project Number: 04 08 06 21 Lab Name: AXYS ANALYTICAL SERVICES Lab Sample ID: L7505-14 NK Contract No.: 4033 Sample Size: 10.5 g (dry) SOLID Matrix: Initial Calibration Date: 04-Feb-2005 Sample Receipt Date: 16-Dec-2004 Instrument ID: HR GC/MS Extraction Date: 25-Jan-2005 Analysis Date: 02-Mar-2005 Time: 16:08:45 GC Column ID: SPB-OCTYL 30000 Sample Data Filename: PB5C 111 S:7 Extract Volume (µL):

> CO-ELUTIONS LAB CONC. DETECTION IUPAC COMPOUND FOUND LIMIT NO. FLAG¹ 2,3',4,4' - TeCB 66 DΒ 90700 77

178 0 75 0.885 3,3',4,4' - TeCB 3,4,4',5 - TeCB 81 2,2',3,4',5 - PeCB 90 + 101 + 113 СDВ 366000 257 1.57 1.238 90 2,2',4,5,5' - PeCB 101 90 + 101 + 113 C90 87600 2,3,3',4,4' - PeCB 105 DB 438 1.56 1 000 CDB 467000 1 317 110 110 + 115217 1.57 2,3,3',4',6 - PeCB 2.3.3'.5'.6 - PeCB 113 90 + 101 + 113 C90 2,3,4,4',5 - PeCB 114 2,3,4,4',6 - PeCB 115 110 + 115 C110 DВ 275000 1.001 2,3',4,4',5 - PeCB 118 352 1.57 2',3,4,4',5 - PeCB 123 3,3',4,4',5 - PeCB 126 CDB 0.929 2,2',3,3',4,5 - HxCB 129 129 + 138 + 160 + 163 412000 577 1.27 129 + 138 + 160 + 163 C129 2,2',3,4,4',5' - HxCB 138 CDB 292000 506 0.899 2,2',4,4',5,5' - HxCB 153 153 + 168 1.27 2.3.3'.4.4',5 - HxCB 156 156 + 157 С 2.3.3'.4.4'.5' - HxCB 157 156 + 157 C156 129 + 138 + 160 + 163 2.3.3'.4.5.6 - HxCB 160 C129 2,3,3',4',5,6 - HxCB 163 129 + 138 + 160 + 163 C129 2,3',4,4'.5.5' - HxCB 167 2,3',4,4'.5'.0 - HACB 100 153 + 100 0150 169 3,3'.4,4',5.5' - HxCB 180 С 2,2',3.4.4',5.5' - HpCB 180 + 193 189 2,3.3',4,4'.5,5' - HpCB

(1) C = co-eluting congener. U = not detected. K = peak detected, but did not meet quantification criteria: E = exceeds calibrated linear range, see dilution data. D = dilution data J = concentration less than LMCL. B = analyte found in sample and the associated blank: X = results reported separately

180 + 193

14745AD8_1 xis S3

2,3,3',4'.5,5'.6 - HpCB

193

Injection Volume (µL):

Concentration Units :

Dilution Eactor:

10 1500

ng/kg (dry weight basis)

QA/QC Chemist Approved by

C180

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MI AXYS ANALYTICAL SERVICES LTD PO 80X 2219, 2045 MILLS RD WEST, SIDNEY, B.C. CANADA VBL 358 TEL (250) 655-5800 FAX (250 - 555-5811

CLIENT ID:

PB5C_067 S:5

PB5C 111 S:1

ION ABUND.

RATIO

RRT

Blank Data Filename:

Cal. Ver. Data Filename:

AXYS METHOD MLA-010 Rev 05 PCB-FEQ-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT CLIENT ID: LDW-C8-S

Lab Name: AXYS ANALYTICAL	SERVICES		Sample Collection:	26-Aug-2004
Contract No.:	4033		Project Number:	04-08-06-21
Matrix:	SOLID		Lab Sample ID:	L7505-14 W
Sample Size:	10.5	g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (dry v	veight basis)	Sample Datafile(s):	PB5C_098B S:9 PB5C_111 S:7

							TE	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			5740	21.8	0.0001	5.74E-01	5.74E-01
3,4,4',5-TetraCB	81		U		19.6	0.0001	9.80E-04	0.00E+00
2,3,3',4,4'-PentaCB	105			87600	438	0.0001	8.76E+00	8.76E+00
2,3,4,4',5-PentaCB	114			4030	272	0.0005	2.01E+00	2.01E+00
2,3',4,4',5-PentaCB	118			275000	352	0.0001	2.75E+01	2.75E+01
2',3,4,4',5-PentaCB	123			4080	291	0.0001	4.08E-01	4.08E-01
3,3',4,4',5-PentaCB	126			725	347	0.1	7.25E+01	7.25E+01
2,3,3',4,4',5 - HexaCB	156	156 + 157	С	39300	288	0.0005	1.96E+01	1.96E+01
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			13700	225	0.00001	1.37E-01	1.37E-01
3.3'.4,4',5,5'-HexaCB	169		U		229	0.01	1.14E+00	0.00E+00
2,3,3',4,4',5,5'-HeptaCB	189			1640	14.7	0.0001	1.64E-01	1.64E-01

TOTAL TEQ 132 133

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

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by: Mar Mare QAVQC Chemist

05/03/2005 dd-mm-yyyy

23 AXYS ANALYTICAL SERVICES LTD P.O. BOX 2219 2045 MILLS RD WEST SIDNEY, B.C., CANADA VOL 358 TEL (250) 655-5800 FAX (250) 655-5801

AXYS METHOD MLA-010 Rev 05		Form 1A NGENER ANALYSIS REPORT		CLIENT ID: LDW-C9-S	
	10000		Sample Collection:	25-Aug-2004	
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number:	04 08 06 21	
Contract No.:	1033		Lab Sample ID:	L7505-15 r	
Matrix:	SOLID		Sample Size:	10.5	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	22-Feb-2005	Time: 11:23:41	GC Column ID:	SPB-OCTYL	
Extract Volume (µL):	20		Sample Data Filename:	PB5C_095 S:5	
Injection Volume (µL):	1 0		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	N/A		Cal. Ver. Data Filename:	PB5C_095 S:1	
Concentration Units :	ng/kg (dry weight basis)		% Moisture:	25	

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66		В	476	0.437	0.77	0.885
3,3',4,4' - TeCB	77		В	56.4	0.472	0.76	1.000
3,4,4' 5 - TeCB	81		К	3 49	0.445	0.79	1.001
2,2',3,4',5 - PeCB	90	90 + 101 + 113	СВ	1450	0.223	1.57	0.869
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4.4' - PeCB	105		В	434	1.82	1.52	1.001
2.3,3',4',6 - PeCB	110	110 + 115	СВ	2120	0.195	1 57	0.924
2.3,3',5',6 - PeCB	113	90 + 101 + 113	C90				
2.3.4,4',5 - PeCB	114		В	178	1.77	1.68	1.001
2,3,4.4'.6 - PeCB	115	110 + 115	C110				
2,3',4,4',5 - PeCB	118		В	1110	1 65	1.54	1.001
2',3.4,4',5 - PeCB	123		В	24.7	1.81	1.57	1.000
3,3',4,4',5 - PeCB	126		В	3.70	2.06	1.43	1 000
2.2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	СB	2550	2.34	1.26	0.928
2,2',3,4,4'.5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',4,4',5,5' - HxCB	153	153 + 168	СВ	2110	2.08	1.26	0.899
2,3,3',4,4',5 - HxCB	156	156 + 157	СВ	190	2.70	1 25	1.000
2.3.3',4.4',5' - HxCR	157	156 + 157	C156				
2,3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3'.4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3'.4.4'.5.5' - HxCB	167			86.5	2.08	1.25	1.000
2.3.4.4.5.6 - HxCB	100	153 + 108	C153				
3,3'.4.4'.5.5' - HxCB	169		U		3,91		
2,2',3.4.4'.5.5' - HpCB	180	180 + 193	СB	1740	0.0500	1.06	0.910
2,3.3'.4.4'.5.5' - HpCB	189			24.5	0.409	0.97	1 000
2.3,3',4'.5,5'.6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener. \cup = not detected. K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data, D = dilution data \cup = concentration less than LMCL. B = analyte found in sample and the associated blank: x = results reported separately

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04/03/2005 _QA/QC Chemist dd-mm-yyyy Approved by:_

0184 () () AXYS ANALYTICAL SERVICES LTD =0 30x 2219, 2045 MILLS RD. WEST, SIDNEY, B (., CANADA V8L 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05 PCE-"EG-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-C9-S

Lab Name: AXYS ANALYTICAL S	Sample Collection:	25-Aug-2004		
Contract No.:	4033		Project Number:	04-08-06-21
Matrix:	SOLID		Lab Sample ID:	L7505-15 i
Sample Size:	10.5	g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units :	ng/kg (dry w	reight basis)	Sample Datafile(s):	PB5C_095 S:5

							TEQ	
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4,4'-TetraCB	77			56.4	0.472	0.0001	5.64E-03	5.64E-03
3,4,4',5-TetraCB	81		U		0.445	0.0001	2.22E-05	0.00E+00
2,3,3',4,4'-PentaCB	105			434	1.82	0.0001	4.34E-02	4.34 E-0 2
2,3,4,4',5-PentaCB	114			17.8	1.77	0.0005	8.92E-03	8.92E-03
2,3',4,4'.5-PentaCB	118			1110	1.65	0.0001	1.11E-01	1.11E-01
2',3,4,4',5-PentaCB	123			24.7	1.81	0.0001	2.47E-03	2.47E-03
3,3',4,4',5-PentaCB	126			3.70	2.06	0.1	3.70E-01	3.70E-01
2,3.3'.4,4',5-HexaCB	156	156 + 157	С	190	2.70	0.0005	9.52E-02	9.52E-02
2,3,3',4,4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			86.5	2.08	0.00001	8.65E-04	8.65E-04
3,3',4,4',5,5'-HexaCB	169		U		3.91	0.01	1.95E-02	0.00E+00
2.3,3',4,4',5,5'-HeptaCB	189			24.5	0.409	0.0001	2.45E 03	2.45E-03

TOTAL TEQ 0.659 0.640

(1) C = co-eluting congener: U = not detected
 (2) Concentrations that do not meet quantification criteria are not included in the TEO calculations.

These pages are part of a larger report that may contain information necessary for full data evaluation.

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Approved by: Many Ann QAVQC Chemist

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() () AXYS ANALYTICAL SERVICES LTD = 0 BOX 2219, 2045 MILLS RD, WEST, SIDNEY, B.C. CANADA VOL 358 TEL -250) 655-5800 FAX (250), 655-5811

AXYS METHOD MLA-010 Rev 05 1668A-S1 209_2 CLIENT ID: LDW-C10-S-1

	PCB CONGENER ANALYSIS REPORT								
			Sample Collection:	25-Aug-2004					
Lab Name: AXYS ANALYTICAL	SERVICES		Project Number.	04-08-00-21					
Contract No.:	4033		Lab Sample ID:	L7505-16 W					
Matrix:	SOLID		Sample Size:	9 16	g (dry)				
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005					
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS					
Analysis Date:	24-Feb-2005	Time: 6:03:54	GC Column ID:	SPB-OCTYL					
Extract Volume (µL):	400		Sample Data Filename:	PB5C_098B S:8	3				
Injection Volume (µL):	10		Blank Data Filename:	PB5C_067 S:5					
Dilution Factor:	20		Cal. Ver. Data Filename:	PB5C_098B S:1					

Form 1A

Concentration Units :

ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3'.4.4' - TeCB	66		DB	2880	15.9	0.75	0.884
3,3'.4,4' - TeCB	77		DB	478	19.8	0.74	1.000
3,4,4',5 - TeCB	81		KD	70.3	18.1	0.76	1.000
2.2'.3.4',5 - PeCB	90	90 + 101 + 113	CE				
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3',4,4' - PeCB	105		DB	8240	57.6	1.52	1 000
2,3.3'.4',6 - PeCB	110	110 + 115	CE				
2.3,3'.5'.6 - PeCB	113	90 + 101 + 113	C90				
2.3,4,4',5 - PeCB	114		DB	177	52.3	1.63	1.000
2,3,4.4',6 - PeCB	115	110 + 115	C110				
2.3',4.4',5 - PeCB	118		DB	56000	51.2	1.53	1.000
2',3,4,4',5 - PeCB	123		DB	533	54.2	1.63	1.000
3,3',4,4'.5 - PeCB	126		DB	332	63.4	1.46	1.000
2.2',3,3',4,5 - HxCB	129	129 + 138 + 160 + 163	CE				
2,2',3,4.4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',4,4',5,5' - HxCB	153	153 + 168	CE				
2,3.3',4.4',5 - HxCB	156	156 + 157	CDB	41700	1230	1.27	1.000
2,3,3',4,4',5' - HxCD	157	156 + 157	C156				
2.3,3',4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2.3.3',4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2.3',4,4',5,5' - HxCB	167		D	20200	962	1.26	1.000
2,3',4.4',5',6 - HxCB	168	153 + 168	C153				
3,3',4,4',5,5' - HxCB	169		UD		1410		
2,2',3.4,4',5.5' - HpCB	180	180 + 193	CE				
2,3.3',4,4',5.5' - HpCB	189		D	14100	88.4	0.99	1.001
2.3,3',4',5,5',6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener, U = not detected, K = peak detected, but did not meet quantification criteria. E = exceeds calibrated linear range, see dilution data, D = dilution data, D = concentration less than LMCL. B = analyte found in sample and the associated blank, X = results reported separately

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04/03/2005 _QA/QC Chemist Approved by 6 dd-mm-yyyy

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AXYS ANALYTICAL SERVICES LTD P.O. BOX 2719 2045 MILLS RD. WEST, SIDNEY B (., CANADA VBL 358 TEL (250) 655-5800 FAX (250) 655-5811

AXYS METHOD MLA-010 Rev 05				CLIENT ID:	
1668A-S1_209_2		Form 1A PCB CONGENER ANALYSIS REPORT		LDW-C10-S-1	
			Sample Collection:	25-Aug-2004	
Lab Name. AXY3 ANALYTICAL S	DERVICES		Project Number:	04-08-06-21	
Contract No.:	4033		Lab Sample ID:	L7505-16 NK	
Matrix:	SOLID		Sample Size:	9 16	g (dry)
Sample Receipt Date:	16-Dec-2004		Initial Calibration Date:	04-Feb-2005	
Extraction Date:	25-Jan-2005		Instrument ID:	HR GC/MS	
Analysis Date:	02-Mar-2005	Time: 17:12:59	GC Column ID:	SPB-OCTYL	
Extract Volume (µL);	30000		Sample Data Filename:	PB5C_111 S:8	
Injection Volume (µL):	10		Blank Data Filename:	PB5C_067 S:5	
Dilution Factor:	1500		Cal. Ver. Data Filename:	PB5C_111 S:1	

Concentration Units : ng/kg (dry weight basis)

COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	ION ABUND. RATIO	RRT
2,3',4,4' - TeCB	66						
3.3',4,4' - TeCB	77						
3.4,4',5 - TeCB	81						
2,2',3,4',5 - PeCB	90	90 + 101 + 113	CDB	368000	63.7	1.58	1.238
2,2',4,5,5' - PeCB	101	90 + 101 + 113	C90				
2,3,3'.4,4' - PeCB	105						
2,3,3',4',6 - PeCB	110	110 + 115	CDB	171000	53.7	1.57	1.317
2,3,3',5'.6 - PeCB	113	90 + 101 + 113	C90				
2.3.4,4',5 - PeCB	114						
2,3,4,4',6 - PeCB	115	110 + 115	C110				
2,3',4.4',5 - PeCB	118						
2',3,4,4',5 - PeCB	123						
3,3',4,4',5 - PeCB	126						
2,2',3,3'.4,5 - HxCB	129	129 + 138 + 160 + 163	СDВ	1200000	806	1.25	0.929
2,2'.3,4,4',5' - HxCB	138	129 + 138 + 160 + 163	C129				
2,2',4,4',5.5' - HxCB	153	153 + 168	СDВ	1440000	707	1 26	0.899
2,3,3',4,4',5 - HxCB	156	156 + 157	С				
2.3,3',4,4',5' - HxCB	157	156 + 157	C156				
2,3,3'.4,5,6 - HxCB	160	129 + 138 + 160 + 163	C129				
2,3,3'.4',5,6 - HxCB	163	129 + 138 + 160 + 163	C129				
2,3',4,4',5,5' - HxCB	167						
2,3',4,4',5'.C - H×CB	168	153 + 168	C153				
3,3'.4.4'.5.5' - HxCB	169						
2.2',3.4.4',5.5' - HpCB	180	180 + 193	СDВ	1120000	37.6	1.04	0 911
2,3.3',4,4',5.5' - HpCB	189						
2.3,3',4'.5,5',6 - HpCB	193	180 + 193	C180				

(1) C = co-eluting congener. U = not detected; K = peak detected, but did not meet quantification criteria; E = exceeds calibrated linear range, see dilution data D = dilution data. J = concentration less than LMCL, B = analyte found In sample and the associated blank, X = results reported separately

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04/03/2005 Approved by _QA/QC Chemist dd-mm-yyyy

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AXYS METHOD MLA-010 Rev 05 PCB-TEO-DL_14 Page 1 of 1

Form 1C PCB CONGENER TEQ ANALYSIS REPORT

CLIENT ID: LDW-C10-S-1

Lab Name: AXYS ANALYTICAL S	Sample Collection:	25-Aug-2004	
Contract No.:	4033	Project Number:	04-08-06-21
Matrix:	SOLID	Lab Sample ID:	∟7505-16 W
Sample Size:	9 16 g (dry)	GC Column ID(s):	SPB-OCTYL
Concentration Units ·	ng/kg (dry weight basis)	Sample Datafile(s):	PB5C_098B S:8

							т	EQ
COMPOUND	IUPAC NO.	CO-ELUTIONS	LAB FLAG ¹	CONC. FOUND	DETECTION LIMIT	WHO 1998 TEF	U=1/2 DL	U=0
3,3',4.4'-TetraCB	77			478	19.8	0.0001	4.78E-02	4 78E-02
3.4.4',5-TetraCB	81		U		18.1	0.0001	9 03E-04	0.00E+00
2,3,3',4,4'-PentaCB	105			8240	57.6	0.0001	8.24⊑-01	8.24E-01
2,3,4,4',5-PentaCB	114			177	52.3	0.0005	8.85E-02	8.85E-02
2,3',4,4',5-PentaCB	118			56000	51 2	0.0001	5.60E+00	5.60E+00
2',3,4,4',5-PentaCB	123			533	54.2	0.0001	5.33E-02	5.33E-02
3,3',4,4',5-PentaCB	126			332	63.4	0.1	3.32E+01	3.32E+01
2,3,3',4,4',5-HexaCB	156	156 + 157	С	41700	1230	0.0005	2.08E+01	2.08E+01
2,3.3',4.4',5'-HexaCB	157	156 + 157	C156					
2,3',4,4',5,5'-HexaCB	167			20200	962	0.00001	2.02E-01	2.02E-01
3,3',4,4',5,5'-HexaCB	169		U		1410	0.01	7 06E+00	0.00E+00
2,3,3',4,4',5,5'-HeptaCB	189			14100	88 4	0 0001	1 41E+00	1 41E+00

TOTAL TEQ 69.3 62.3

(1) C = co-eluting congener. U = not detected

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

These pages are part of a larger report that may contain information necessary for full data evaluation

4745PCBTEQ1 1 KH S12-TEO

Man Hind QAVQC Chemist Approved by.

07-03-2005 dd-mm-yyyy

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