

SGS

AXYS

2045 Mills Road West

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SGS AXYS Client No.: 4972

Client Address: AECOM
1111 Third Avenue, Suite 1600
Seattle, WA, US, 98101

The SGS AXYS contact for these data is Sean Campbell.

BATCH SUMMARY

Batch ID:	WG66481	Date:	05-Feb-2019
Analysis Type:	Dioxin/Furan	Matrix Type:	Filter
BATCH MAKEUP			
Contract:	4972	Blank:	WG66481-101
Samples:			
L30523-1	PDI-WS-T05-1811		
L30523-2	PDI-WS-T01-1811		
L30523-3	PDI-WS-T03-1811		
L30523-4	PDI-WS-T07-1811		
L30523-5	PDI-WS-T02-1811		
L30523-6	PDI-WS-T04-1812		
L30523-7	PDI-WS-T06-1811		
L30523-8	PDI-RB-XF-181129		
		Reference or Spike:	WG66481-102
Re-submission 06-Feb-19: The data are being resubmitted to include the correct 'sample' file for the EDD. No other changes have been made to the data. Comments: 1. Data are considered final. 2. Data are not blank corrected. Blank data should be taken into consideration when evaluating sample data. 3. Blank data should be evaluated against specifications using the same blank sample size as the size of the client samples. 4. The recovery of ¹³C-labeled 1,2,3,4,7,8,9-HpCDF was observed below the method control limit in sample 'PDI-RB-XF-181129' (AXYS ID: L30523-8) and has been flagged with 'V'. As the isotope dilution method of quantification produces data that are recovery corrected, slight variances from method acceptance criteria are deemed not to affect the quantification of these analytes. Percent recoveries are used as general method performance indicator only.			

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February 2017

FQA-006 Rev. 4. 20-Sep-2013

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T05-1811
Sample Collection:
27-Nov-2018 15:44

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-1 i
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	01-Feb-2019 Time: 16:46:21	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_013 S: 6
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DX9M_013 S: 1

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
2,3,7,8-TCDD	U		0.868 (Q)		
1,2,3,7,8-PECDD ⁴	K J	1.66	1.18 (S)	0.81	1.001
1,2,3,4,7,8-HXCDD	J	5.10	1.76 (S)	1.34	1.001
1,2,3,6,7,8-HXCDD	J	11.9	1.81 (S)	1.33	1.000
1,2,3,7,8,9-HXCDD	J	11.9	1.87 (S)	1.13	1.010
1,2,3,4,6,7,8-HPCDD		416	3.44 (S)	1.06	1.000
OCDD		3650	19.1 (S)	0.88	1.000
2,3,7,8-TCDF	K J	2.25	0.868 (Q)	0.91	1.001
1,2,3,7,8-PECDF	U		0.961 (S)		
2,3,4,7,8-PECDF	J	1.24	0.878 (S)	1.35	1.000
1,2,3,4,7,8-HXCDF	K J	3.61	0.868 (Q)	0.94	1.000
1,2,3,6,7,8-HXCDF	K J	2.69	0.868 (Q)	1.74	1.000
1,2,3,7,8,9-HXCDF	U		1.12 (S)		
2,3,4,6,7,8-HXCDF	K J	2.23	0.868 (Q)	1.81	1.000
1,2,3,4,6,7,8-HPCDF		60.8	0.891 (S)	1.01	1.000
1,2,3,4,7,8,9-HPCDF	J	3.59	1.31 (S)	0.93	1.001
OCDF		142	1.55 (S)	0.90	1.002

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ **Kristen Bowes** _____

For Axy Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-1_Form1A_DX9M_013S6_SJ2508063.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 2
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T05-1811
Sample Collection:
27-Nov-2018 15:44

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-1 i
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	01-Feb-2019 Time: 16:46:21	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_013 S: 6
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg absolute	Cal. Ver. Data Filename:	DX9M_013 S: 1

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		4000	3060	76.6	0.76	1.013
13C-1,2,3,7,8-PECDD ⁴		4000	3280	82.1	0.63	1.381
13C-1,2,3,4,7,8-HXCDD		4000	3610	90.2	1.27	0.987
13C-1,2,3,6,7,8-HXCDD		4000	3890	97.2	1.28	0.990
13C-1,2,3,4,6,7,8-HPCDD		4000	2910	72.6	1.04	1.095
13C-OCDD		8000	4560	57.1	0.90	1.179
13C-2,3,7,8-TCDF		4000	3060	76.4	0.79	0.966
13C-1,2,3,7,8-PECDF		4000	3160	79.0	1.58	1.282
13C-2,3,4,7,8-PECDF		4000	3050	76.2	1.57	1.350
13C-1,2,3,4,7,8-HXCDF		4000	3370	84.2	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		4000	3780	94.4	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		4000	3210	80.2	0.53	1.005
13C-2,3,4,6,7,8-HXCDF		4000	3500	87.5	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		4000	2900	72.6	0.46	1.062
13C-1,2,3,4,7,8,9-HPCDF		4000	2640	66.1	0.48	1.104

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		400	313	78.2		1.001
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(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37CL-2,3,7,8-TCDD

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

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Report Filename: 1613_DIOXINS_1613DB5_L30523-1_Form2_DX9M_013S6_SJ2508063.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T05-1811
Sample Collection:
27-Nov-2018 15:44

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-1 i
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	15-Jan-2019
Analysis Date:	01-Feb-2019 Time: 22:38:19	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB225
Injection Volume (uL):	2.0	Sample Data Filename:	DB93_025 S: 5
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DB93_025 S: 2

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COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
1,2,3,7,8,9-HXCDD	K J	13.4	1.55 (S)	0.66	1.058
2,3,7,8-TCDF	J	1.49	0.868 (Q)	0.73	1.002

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

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Report Filename: 1613_DIOXINS_1613DB225_L30523-1_Form1A_DB93_025S5_SJ2508140.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T01-1811
Sample Collection:
28-Nov-2018 14:26

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-2
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	30-Jan-2019 Time: 23:04:12	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 15
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DX9M_012 S: 9

This page is part of a total report that contains information necessary for accreditation compliance.
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COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
2,3,7,8-TCDD	K J	1.10	0.862 (Q)	0.41	1.001
1,2,3,7,8-PECDD ⁴	K J	1.06	0.862 (Q)	0.33	1.000
1,2,3,4,7,8-HXCDD	K J	3.72	1.09 (S)	0.89	1.000
1,2,3,6,7,8-HXCDD	J	8.86	1.11 (S)	1.37	1.000
1,2,3,7,8,9-HXCDD	J	7.60	1.15 (S)	1.08	1.010
1,2,3,4,6,7,8-HPCDD		312	1.19 (S)	0.97	1.000
OCDD		2050	4.61 (S)	0.90	1.000
2,3,7,8-TCDF	J	2.88	0.862 (Q)	0.86	1.001
1,2,3,7,8-PECDF	J	3.04	0.862 (Q)	1.51	1.000
2,3,4,7,8-PECDF	J	1.06	0.862 (Q)	1.54	1.000
1,2,3,4,7,8-HXCDF	J	5.71	0.862 (Q)	1.40	1.001
1,2,3,6,7,8-HXCDF	K J	1.73	0.862 (Q)	1.69	1.001
1,2,3,7,8,9-HXCDF	U		0.862 (Q)		
2,3,4,6,7,8-HXCDF	K J	1.39	0.862 (Q)	1.51	1.000
1,2,3,4,6,7,8-HPCDF		35.6	0.862 (Q)	0.98	1.000
1,2,3,4,7,8,9-HPCDF	K J	2.63	0.862 (Q)	0.65	1.000
OCDF		90.4	0.862 (Q)	0.84	1.002

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ **Kristen Bowes** _____

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Report Filename: 1613_DIOXINS_1613DB5_L30523-2_Form1A_DX9M_012S15_SJ2506625.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 2
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T01-1811
Sample Collection:
28-Nov-2018 14:26

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-2
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	30-Jan-2019 Time: 23:04:12	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 15
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg absolute	Cal. Ver. Data Filename:	DX9M_012 S: 9

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LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		4000	3490	87.3	0.77	1.013
13C-1,2,3,7,8-PECDD ⁴		4000	3520	87.9	0.63	1.381
13C-1,2,3,4,7,8-HXCDD		4000	3460	86.5	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		4000	3790	94.8	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		4000	3110	77.7	1.02	1.095
13C-OCDD		8000	5180	64.8	0.90	1.178
13C-2,3,7,8-TCDF		4000	3480	87.0	0.77	0.966
13C-1,2,3,7,8-PECDF		4000	3610	90.3	1.59	1.283
13C-2,3,4,7,8-PECDF		4000	3340	83.6	1.58	1.350
13C-1,2,3,4,7,8-HXCDF		4000	3230	80.7	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		4000	3740	93.5	0.51	0.958
13C-1,2,3,7,8,9-HXCDF		4000	3150	78.9	0.55	1.005
13C-2,3,4,6,7,8-HXCDF		4000	3330	83.1	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		4000	2900	72.4	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		4000	2980	74.5	0.45	1.104

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		400	358	89.4		1.001
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(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37CL-2,3,7,8-TCDD

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-2_Form2_DX9M_012S15_SJ2506625.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T01-1811
Sample Collection:
28-Nov-2018 14:26

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-2 i
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	15-Jan-2019
Analysis Date:	01-Feb-2019 Time: 23:22:29	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB225
Injection Volume (uL):	2.0	Sample Data Filename:	DB93_025 S: 6
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DB93_025 S: 2

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
1,2,3,7,8,9-HXCDD	K J	8.47	1.12 (S)	0.68	1.057
2,3,7,8-TCDF	K J	2.34	0.862 (Q)	1.07	1.001

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

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Report Filename: 1613_DIOXINS_1613DB225_L30523-2_Form1A_DB93_025S6_SJ2508141.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T03-1811
Sample Collection:
27-Nov-2018 16:22

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-3
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	30-Jan-2019 Time: 23:59:20	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 16
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DX9M_012 S: 9

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
2,3,7,8-TCDD	U		0.842 (Q)		
1,2,3,7,8-PECDD ⁴	J	1.12	0.842 (Q)	0.57	1.001
1,2,3,4,7,8-HXCDD	K J	4.21	1.11 (S)	1.54	1.000
1,2,3,6,7,8-HXCDD	J	10.7	1.04 (S)	1.27	1.000
1,2,3,7,8,9-HXCDD	J	8.34	1.12 (S)	1.28	1.010
1,2,3,4,6,7,8-HPCDD		354	1.80 (S)	1.03	1.000
OCDD		2140	0.842 (Q)	0.89	1.000
2,3,7,8-TCDF	K J	3.09	0.842 (Q)	1.02	1.001
1,2,3,7,8-PECDF	J	1.83	0.842 (Q)	1.39	1.000
2,3,4,7,8-PECDF	K J	1.21	0.842 (Q)	1.86	1.000
1,2,3,4,7,8-HXCDF	J	4.49	0.842 (Q)	1.25	1.000
1,2,3,6,7,8-HXCDF	J	2.35	0.842 (Q)	1.25	1.000
1,2,3,7,8,9-HXCDF	U		0.842 (Q)		
2,3,4,6,7,8-HXCDF	J	1.43	0.842 (Q)	1.34	1.000
1,2,3,4,6,7,8-HPCDF		30.9	0.842 (Q)	1.01	1.000
1,2,3,4,7,8,9-HPCDF	J	2.08	0.842 (Q)	0.93	1.000
OCDF		74.2	0.842 (Q)	0.85	1.002

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ **Kristen Bowes** _____

For Axy Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-3_Form1A_DX9M_012S16_SJ2506626.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T03-1811
Sample Collection:
27-Nov-2018 16:22

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-3
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	30-Jan-2019 Time: 23:59:20	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 16
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg absolute	Cal. Ver. Data Filename:	DX9M_012 S: 9

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		4000	3340	83.6	0.78	1.013
13C-1,2,3,7,8-PECDD ⁴		4000	3560	89.0	0.62	1.381
13C-1,2,3,4,7,8-HXCDD		4000	3360	83.9	1.24	0.987
13C-1,2,3,6,7,8-HXCDD		4000	3960	98.9	1.24	0.990
13C-1,2,3,4,6,7,8-HPCDD		4000	2940	73.6	1.06	1.094
13C-OCDD		8000	5170	64.6	0.89	1.178
13C-2,3,7,8-TCDF		4000	3460	86.4	0.77	0.966
13C-1,2,3,7,8-PECDF		4000	3460	86.5	1.56	1.283
13C-2,3,4,7,8-PECDF		4000	3250	81.4	1.56	1.350
13C-1,2,3,4,7,8-HXCDF		4000	3220	80.5	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		4000	3700	92.5	0.49	0.958
13C-1,2,3,7,8,9-HXCDF		4000	3240	81.0	0.49	1.004
13C-2,3,4,6,7,8-HXCDF		4000	3380	84.5	0.50	0.980
13C-1,2,3,4,6,7,8-HPCDF		4000	2930	73.2	0.44	1.062
13C-1,2,3,4,7,8,9-HPCDF		4000	2970	74.1	0.46	1.104

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		400	336	84.1		1.001
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(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37CL-2,3,7,8-TCDD

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ **Kristen Bowes** _____

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-3_Form2_DX9M_012S16_SJ2506626.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T03-1811
Sample Collection:
27-Nov-2018 16:22

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-3 i
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	15-Jan-2019
Analysis Date:	02-Feb-2019 Time: 00:06:39	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB225
Injection Volume (uL):	2.0	Sample Data Filename:	DB93_025 S: 7
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DB93_025 S: 2

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
1,2,3,7,8,9-HXCDD	K J	10.2	1.52 (S)	0.83	1.058
2,3,7,8-TCDF	J	2.67	0.842 (Q)	0.70	1.001

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB225_L30523-3_Form1A_DB93_025S7_SJ2508142.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T07-1811
Sample Collection:
28-Nov-2018 13:18

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-4
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	31-Jan-2019 Time: 00:54:34	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 17
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DX9M_012 S: 9

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
2,3,7,8-TCDD	K J	1.05	0.831 (Q)	0.17	1.003
1,2,3,7,8-PECDD ⁴	K J	0.944	0.831 (Q)	1.73	1.001
1,2,3,4,7,8-HXCDD	J	3.61	0.831 (Q)	1.43	1.000
1,2,3,6,7,8-HXCDD	J	8.16	0.831 (Q)	1.17	1.000
1,2,3,7,8,9-HXCDD	J	6.91	0.831 (Q)	1.25	1.010
1,2,3,4,6,7,8-HPCDD		280	2.20 (S)	1.07	1.000
OCDD		2310	0.892 (S)	0.90	1.000
2,3,7,8-TCDF	K J	0.916	0.831 (Q)	0.52	1.001
1,2,3,7,8-PECDF	K J	0.921	0.831 (Q)	5.32	1.000
2,3,4,7,8-PECDF	K J	0.937	0.831 (Q)	0.94	1.001
1,2,3,4,7,8-HXCDF	K J	2.01	0.831 (Q)	1.61	1.001
1,2,3,6,7,8-HXCDF	J	1.78	0.831 (Q)	1.29	1.000
1,2,3,7,8,9-HXCDF	U		0.831 (Q)		
2,3,4,6,7,8-HXCDF	J	1.28	0.831 (Q)	1.14	1.001
1,2,3,4,6,7,8-HPCDF		34.9	0.831 (Q)	1.06	1.000
1,2,3,4,7,8,9-HPCDF	K J	2.83	0.831 (Q)	0.73	1.001
OCDF		103	0.831 (Q)	0.89	1.002

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Kristen Bowes _____

For Axy Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-4_Form1A_DX9M_012S17_SJ2506627.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 2
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T07-1811
Sample Collection:
28-Nov-2018 13:18

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-4
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	31-Jan-2019 Time: 00:54:34	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 17
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg absolute	Cal. Ver. Data Filename:	DX9M_012 S: 9

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This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		4000	3670	91.8	0.80	1.013
13C-1,2,3,7,8-PECDD ⁴		4000	3810	95.2	0.62	1.381
13C-1,2,3,4,7,8-HXCDD		4000	3560	88.9	1.28	0.987
13C-1,2,3,6,7,8-HXCDD		4000	3960	99.0	1.27	0.990
13C-1,2,3,4,6,7,8-HPCDD		4000	3280	82.1	1.03	1.095
13C-OCDD		8000	5520	69.1	0.92	1.178
13C-2,3,7,8-TCDF		4000	3690	92.3	0.78	0.966
13C-1,2,3,7,8-PECDF		4000	3690	92.2	1.56	1.283
13C-2,3,4,7,8-PECDF		4000	3530	88.2	1.57	1.349
13C-1,2,3,4,7,8-HXCDF		4000	3400	85.1	0.50	0.954
13C-1,2,3,6,7,8-HXCDF		4000	4040	101	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		4000	3610	90.3	0.49	1.005
13C-2,3,4,6,7,8-HXCDF		4000	3610	90.2	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		4000	3160	78.9	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		4000	3250	81.2	0.45	1.104

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		400	370	92.4		1.001
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(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37CL-2,3,7,8-TCDD

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-4_Form2_DX9M_012S17_SJ2506627.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T07-1811
Sample Collection:
28-Nov-2018 13:18

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: FILTER

Sample Receipt Date: 04-Dec-2018

Extraction Date: 14-Jan-2019

Analysis Date: 02-Feb-2019 Time: 00:50:49

Extract Volume (uL): 20

Injection Volume (uL): 2.0

Dilution Factor: N/A

Concentration Units: pg/sample

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

PORTLAND HARBOR PDI AND
BASELINE WATER
L30523-4 i

1 sample

15-Jan-2019

HR GC/MS

DB225

DB93_025 S: 8

DX9M_012 S: 13

DB93_025 S: 2

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This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
1,2,3,7,8,9-HXCDD	K J	7.51	1.23 (S)	0.67	1.059
2,3,7,8-TCDF	K J	0.864	0.831 (Q)	0.40	1.002

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB225_L30523-4_Form1A_DB93_025S8_SJ2508143.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T02-1811
Sample Collection:
30-Nov-2018 15:06

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-5
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	31-Jan-2019 Time: 01:49:47	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 18
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DX9M_012 S: 9

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
2,3,7,8-TCDD	K J	1.10	0.884 (Q)	0.64	0.999
1,2,3,7,8-PECDD ⁴	J	2.68	1.02 (S)	0.66	1.001
1,2,3,4,7,8-HXCDD	J	4.21	0.884 (Q)	1.28	1.000
1,2,3,6,7,8-HXCDD	J	9.54	0.884 (Q)	1.34	1.001
1,2,3,7,8,9-HXCDD	J	9.99	0.884 (Q)	1.39	1.010
1,2,3,4,6,7,8-HPCDD		358	2.34 (S)	1.10	1.000
OCDD		3280	0.884 (Q)	0.86	1.000
2,3,7,8-TCDF		4.32	0.884 (Q)	0.85	1.002
1,2,3,7,8-PECDF	J	3.07	0.884 (Q)	1.57	1.000
2,3,4,7,8-PECDF	K J	1.82	0.884 (Q)	0.91	1.001
1,2,3,4,7,8-HXCDF	J	7.20	0.884 (Q)	1.16	1.001
1,2,3,6,7,8-HXCDF	J	3.09	0.884 (Q)	1.33	1.000
1,2,3,7,8,9-HXCDF	U		0.884 (Q)		
2,3,4,6,7,8-HXCDF	K J	2.08	0.884 (Q)	0.90	1.000
1,2,3,4,6,7,8-HPCDF		51.6	0.884 (Q)	1.03	1.000
1,2,3,4,7,8,9-HPCDF	K J	3.21	1.20 (S)	1.54	1.000
OCDF		136	0.884 (Q)	0.92	1.002

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: Kristen Bowes

For Axy Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-5_Form1A_DX9M_012S18_SJ2506628.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 2
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T02-1811
Sample Collection:
30-Nov-2018 15:06

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-5
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	31-Jan-2019 Time: 01:49:47	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 18
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg absolute	Cal. Ver. Data Filename:	DX9M_012 S: 9

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		4000	3150	78.9	0.78	1.013
13C-1,2,3,7,8-PECDD ⁴		4000	3550	88.7	0.62	1.381
13C-1,2,3,4,7,8-HXCDD		4000	3560	89.0	1.25	0.987
13C-1,2,3,6,7,8-HXCDD		4000	3440	86.0	1.19	0.990
13C-1,2,3,4,6,7,8-HPCDD		4000	2600	64.9	1.03	1.094
13C-OCDD		8000	4500	56.3	0.89	1.178
13C-2,3,7,8-TCDF		4000	3180	79.6	0.78	0.966
13C-1,2,3,7,8-PECDF		4000	3660	91.6	1.59	1.283
13C-2,3,4,7,8-PECDF		4000	3350	83.6	1.57	1.349
13C-1,2,3,4,7,8-HXCDF		4000	2770	69.3	0.51	0.954
13C-1,2,3,6,7,8-HXCDF		4000	3290	82.3	0.52	0.958
13C-1,2,3,7,8,9-HXCDF		4000	3410	85.2	0.53	1.004
13C-2,3,4,6,7,8-HXCDF		4000	3280	81.9	0.52	0.980
13C-1,2,3,4,6,7,8-HPCDF		4000	2710	67.7	0.46	1.062
13C-1,2,3,4,7,8,9-HPCDF		4000	2640	66.1	0.48	1.104

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		400	323	80.7		1.001
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(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37CL-2,3,7,8-TCDD

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-5_Form2_DX9M_012S18_SJ2506628.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T02-1811
Sample Collection:
30-Nov-2018 15:06

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: FILTER

Sample Receipt Date: 04-Dec-2018

Extraction Date: 14-Jan-2019

Analysis Date: 02-Feb-2019 Time: 01:34:58

Extract Volume (uL): 20

Injection Volume (uL): 2.0

Dilution Factor: N/A

Concentration Units: pg/sample

Project No.

Lab Sample I.D.:

Sample Size:

Initial Calibration Date:

Instrument ID:

GC Column ID:

Sample Data Filename:

Blank Data Filename:

Cal. Ver. Data Filename:

PORTLAND HARBOR PDI AND
BASELINE WATER
L30523-5 i

1 sample

15-Jan-2019

HR GC/MS

DB225

DB93_025 S: 9

DX9M_012 S: 13

DB93_025 S: 2

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
1,2,3,7,8,9-HXCDD	K J	13.4	1.36 (S)	0.55	1.058
2,3,7,8-TCDF	K	3.79	0.884 (Q)	0.55	1.002

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB225_L30523-5_Form1A_DB93_025S9_SJ2508144.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T04-1812
Sample Collection:
01-Dec-2018 13:10

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-6
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	31-Jan-2019 Time: 02:44:55	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 19
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DX9M_012 S: 9

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
2,3,7,8-TCDD	K J	1.01	0.867 (Q)	0.61	1.001
1,2,3,7,8-PECDD ⁴	U		0.867 (Q)		
1,2,3,4,7,8-HXCDD	K J	1.50	0.872 (S)	1.72	1.000
1,2,3,6,7,8-HXCDD	J	3.94	0.891 (S)	1.39	1.000
1,2,3,7,8,9-HXCDD	K J	4.59	0.921 (S)	1.69	1.010
1,2,3,4,6,7,8-HPCDD		103	2.71 (S)	1.05	1.000
OCDD		1040	7.62 (S)	0.89	1.000
2,3,7,8-TCDF	J	2.58	0.867 (Q)	0.80	1.001
1,2,3,7,8-PECDF	K J	1.22	0.867 (Q)	3.92	1.001
2,3,4,7,8-PECDF	U		0.867 (Q)		
1,2,3,4,7,8-HXCDF	J	3.88	0.867 (Q)	1.15	1.000
1,2,3,6,7,8-HXCDF	K J	1.28	0.867 (Q)	2.22	1.000
1,2,3,7,8,9-HXCDF	U		1.09 (S)		
2,3,4,6,7,8-HXCDF	K J	0.953	0.867 (Q)	1.69	1.000
1,2,3,4,6,7,8-HPCDF		26.2	0.867 (Q)	1.15	1.000
1,2,3,4,7,8,9-HPCDF	K J	1.35	0.980 (S)	1.28	1.000
OCDF		68.1	0.867 (Q)	0.85	1.002

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ **Kristen Bowes** _____

For Axy Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-6_Form1A_DX9M_012S19_SJ2506629.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 2
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T04-1812
Sample Collection:
01-Dec-2018 13:10

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-6
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	31-Jan-2019 Time: 02:44:55	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 19
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg absolute	Cal. Ver. Data Filename:	DX9M_012 S: 9

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This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		4000	3680	92.0	0.78	1.013
13C-1,2,3,7,8-PECDD ⁴		4000	3270	81.8	0.63	1.381
13C-1,2,3,4,7,8-HXCDD		4000	3730	93.2	1.27	0.987
13C-1,2,3,6,7,8-HXCDD		4000	3990	99.8	1.29	0.990
13C-1,2,3,4,6,7,8-HPCDD		4000	2580	64.5	1.06	1.094
13C-OCDD		8000	2970	37.1	0.89	1.178
13C-2,3,7,8-TCDF		4000	3750	93.8	0.77	0.966
13C-1,2,3,7,8-PECDF		4000	3400	85.0	1.58	1.283
13C-2,3,4,7,8-PECDF		4000	3050	76.2	1.56	1.350
13C-1,2,3,4,7,8-HXCDF		4000	3710	92.7	0.52	0.954
13C-1,2,3,6,7,8-HXCDF		4000	4500	113	0.51	0.958
13C-1,2,3,7,8,9-HXCDF		4000	3100	77.5	0.48	1.005
13C-2,3,4,6,7,8-HXCDF		4000	3540	88.4	0.52	0.980
13C-1,2,3,4,6,7,8-HPCDF		4000	2640	65.9	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		4000	2440	61.0	0.47	1.104

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		400	394	98.4		1.001
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(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37CL-2,3,7,8-TCDD

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-6_Form2_DX9M_012S19_SJ2506629.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T04-1812
Sample Collection:
01-Dec-2018 13:10

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-6 i
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	15-Jan-2019
Analysis Date:	02-Feb-2019 Time: 02:19:04	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB225
Injection Volume (uL):	2.0	Sample Data Filename:	DB93_025 S: 10
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DB93_025 S: 2

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This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
1,2,3,7,8,9-HXCDD	K J	5.92	1.79 (S)	0.63	1.058
2,3,7,8-TCDF	J	1.82	0.867 (Q)	0.82	1.002

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

For Axys Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB225_L30523-6_Form1A_DB93_025S10_SJ2508145.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T06-1811
Sample Collection:
30-Nov-2018 16:26

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-7
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	31-Jan-2019 Time: 03:40:08	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 20
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DX9M_012 S: 9

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
2,3,7,8-TCDD	K J	1.97	0.846 (Q)	0.51	1.001
1,2,3,7,8-PECDD ⁴	J	1.59	1.12 (S)	0.59	1.001
1,2,3,4,7,8-HXCDD	K J	2.41	1.03 (S)	0.71	1.000
1,2,3,6,7,8-HXCDD	J	5.93	1.01 (S)	1.18	1.000
1,2,3,7,8,9-HXCDD	K J	6.43	1.07 (S)	0.97	1.010
1,2,3,4,6,7,8-HPCDD		175	3.09 (S)	1.00	1.000
OCDD		1860	8.30 (S)	0.90	1.000
2,3,7,8-TCDF	U		0.846 (Q)		
1,2,3,7,8-PECDF	U		0.846 (Q)		
2,3,4,7,8-PECDF	U		0.846 (Q)		
1,2,3,4,7,8-HXCDF	K J	1.94	0.846 (Q)	1.68	1.000
1,2,3,6,7,8-HXCDF	J	1.29	0.846 (Q)	1.16	1.000
1,2,3,7,8,9-HXCDF	U		0.991 (S)		
2,3,4,6,7,8-HXCDF	U		0.846 (Q)		
1,2,3,4,6,7,8-HPCDF		30.7	1.14 (S)	0.99	1.000
1,2,3,4,7,8,9-HPCDF	K J	2.07	1.61 (S)	0.74	1.000
OCDF		80.5	0.846 (Q)	0.80	1.002

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ **Kristen Bowes** _____

For Axy Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-7_Form1A_DX9M_012S20_SJ2506630.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 2
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T06-1811
Sample Collection:
30-Nov-2018 16:26

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-7
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	31-Jan-2019 Time: 03:40:08	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_012 S: 20
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg absolute	Cal. Ver. Data Filename:	DX9M_012 S: 9

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		4000	3570	89.2	0.80	1.013
13C-1,2,3,7,8-PECDD ⁴		4000	3790	94.7	0.64	1.380
13C-1,2,3,4,7,8-HXCDD		4000	3170	79.3	1.29	0.987
13C-1,2,3,6,7,8-HXCDD		4000	3710	92.7	1.26	0.990
13C-1,2,3,4,6,7,8-HPCDD		4000	2830	70.7	1.06	1.094
13C-OCDD		8000	3700	46.2	0.90	1.178
13C-2,3,7,8-TCDF		4000	3540	88.6	0.76	0.966
13C-1,2,3,7,8-PECDF		4000	3770	94.2	1.61	1.282
13C-2,3,4,7,8-PECDF		4000	3570	89.2	1.56	1.349
13C-1,2,3,4,7,8-HXCDF		4000	3120	78.1	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		4000	3860	96.6	0.51	0.958
13C-1,2,3,7,8,9-HXCDF		4000	3130	78.2	0.50	1.005
13C-2,3,4,6,7,8-HXCDF		4000	3260	81.5	0.53	0.980
13C-1,2,3,4,6,7,8-HPCDF		4000	2640	65.9	0.43	1.062
13C-1,2,3,4,7,8,9-HPCDF		4000	2810	70.2	0.44	1.104

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		400	370	92.5		1.001
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(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37CL-2,3,7,8-TCDD

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

For Axy Internal Use Only [XSL Template: Form2.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-7_Form2_DX9M_012S20_SJ2506630.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T06-1811
Sample Collection:
30-Nov-2018 16:26

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-7 i
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	15-Jan-2019
Analysis Date:	02-Feb-2019 Time: 03:03:10	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB225
Injection Volume (uL):	2.0	Sample Data Filename:	DB93_025 S: 11
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DB93_025 S: 2

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
1,2,3,7,8,9-HxCDD	K J	7.69	1.16 (S)	0.50	1.058

(1) Where applicable, custom lab flags have been used on this report; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Kristen Bowes _____

For Axs Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB225_L30523-7_Form1A_DB93_025S11_SJ2508146.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-RB-XF-181129
Sample Collection:
29-Nov-2018 09:50

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-8 i
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	01-Feb-2019 Time: 15:51:06	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_013 S: 5
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg/sample	Cal. Ver. Data Filename:	DX9M_013 S: 1

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
2,3,7,8-TCDD	U		0.841 (Q)		
1,2,3,7,8-PECDD ⁴	U		0.841 (Q)		
1,2,3,4,7,8-HXCDD	U		0.954 (S)		
1,2,3,6,7,8-HXCDD	U		0.948 (S)		
1,2,3,7,8,9-HXCDD	U		0.991 (S)		
1,2,3,4,6,7,8-HPCDD	K J	2.17	0.841 (Q)	1.67	1.000
OCDD	J	21.7	0.841 (Q)	0.94	1.000
2,3,7,8-TCDF	U		0.841 (Q)		
1,2,3,7,8-PECDF	U		0.841 (Q)		
2,3,4,7,8-PECDF	U		0.841 (Q)		
1,2,3,4,7,8-HXCDF	U		0.841 (Q)		
1,2,3,6,7,8-HXCDF	U		0.841 (Q)		
1,2,3,7,8,9-HXCDF	U		0.841 (Q)		
2,3,4,6,7,8-HXCDF	U		0.841 (Q)		
1,2,3,4,6,7,8-HPCDF	U		0.841 (Q)		
1,2,3,4,7,8,9-HPCDF	K J	1.77	0.841 (Q)	1.82	1.000
OCDF	J	3.44	1.26 (S)	0.80	1.002

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Kristen Bowes _____

For Axy Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-8_Form1A_DX9M_013S5_SJ2508062.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 2
PCDD/PCDF ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-RB-XF-181129
Sample Collection:
29-Nov-2018 09:50

SGS AXYS ANALYTICAL SERVICES

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

Contract No.:	4972	Project No.	PORTLAND HARBOR PDI AND BASELINE WATER
Matrix:	FILTER	Lab Sample I.D.:	L30523-8 i
Sample Receipt Date:	04-Dec-2018	Sample Size:	1 sample
Extraction Date:	14-Jan-2019	Initial Calibration Date:	03-Dec-2018
Analysis Date:	01-Feb-2019 Time: 15:51:06	Instrument ID:	HR GC/MS
Extract Volume (uL):	20	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	DX9M_013 S: 5
Dilution Factor:	N/A	Blank Data Filename:	DX9M_012 S: 13
Concentration Units:	pg absolute	Cal. Ver. Data Filename:	DX9M_013 S: 1

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		4000	2340	58.4	0.74	1.013
13C-1,2,3,7,8-PECDD ⁴		4000	2550	63.8	0.62	1.380
13C-1,2,3,4,7,8-HXCDD		4000	2410	60.3	1.21	0.987
13C-1,2,3,6,7,8-HXCDD		4000	2900	72.5	1.28	0.990
13C-1,2,3,4,6,7,8-HPCDD		4000	1980	49.5	1.02	1.095
13C-OCDD		8000	1940	24.3	0.85	1.178
13C-2,3,7,8-TCDF		4000	2440	61.0	0.77	0.966
13C-1,2,3,7,8-PECDF		4000	2560	64.0	1.58	1.282
13C-2,3,4,7,8-PECDF		4000	2340	58.5	1.60	1.349
13C-1,2,3,4,7,8-HXCDF		4000	2280	57.1	0.52	0.954
13C-1,2,3,6,7,8-HXCDF		4000	2680	67.0	0.53	0.958
13C-1,2,3,7,8,9-HXCDF		4000	1690	42.2	0.52	1.004
13C-2,3,4,6,7,8-HXCDF		4000	2210	55.2	0.52	0.980
13C-1,2,3,4,6,7,8-HPCDF		4000	1270	31.9	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF	V	4000	891	22.3	0.45	1.104

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		400	316	79.0		1.001
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(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.

(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37CL-2,3,7,8-TCDD

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ **Kristen Bowes** _____

For Axys Internal Use Only [XSL Template: Form2.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_L30523-8_Form2_DX9M_013S5_SJ2508062.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 1A
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Project No.

N/A

Lab Sample I.D.:

WG66481-101

Matrix: FILTER

Sample Size:

1 sample

Sample Receipt Date: N/A

Initial Calibration Date:

03-Dec-2018

Extraction Date: 14-Jan-2019

Instrument ID:

HR GC/MS

Analysis Date: 30-Jan-2019 Time: 21:13:51

GC Column ID:

DB5

Extract Volume (uL): 20

Sample Data Filename:

DX9M_012 S: 13

Injection Volume (uL): 1.0

Blank Data Filename:

DX9M_012 S: 13

Dilution Factor: N/A

Cal. Ver. Data Filename:

DX9M_012 S: 9

Concentration Units: pg/sample

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

COMPOUND	LAB FLAG ¹	CONCENTRATION FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO ³	RRT ³
2,3,7,8-TCDD	U		0.864 (Q)		
1,2,3,7,8-PECDD ⁴	U		0.864 (Q)		
1,2,3,4,7,8-HXCDD	U		0.864 (Q)		
1,2,3,6,7,8-HXCDD	U		0.864 (Q)		
1,2,3,7,8,9-HXCDD	U		0.864 (Q)		
1,2,3,4,6,7,8-HPCDD	U		0.864 (Q)		
OCDD	K J	3.34	0.864 (Q)	0.63	1.000
2,3,7,8-TCDF	U		0.864 (Q)		
1,2,3,7,8-PECDF	U		0.864 (Q)		
2,3,4,7,8-PECDF	U		0.864 (Q)		
1,2,3,4,7,8-HXCDF	U		0.864 (Q)		
1,2,3,6,7,8-HXCDF	U		0.864 (Q)		
1,2,3,7,8,9-HXCDF	U		0.864 (Q)		
2,3,4,6,7,8-HXCDF	U		0.864 (Q)		
1,2,3,4,6,7,8-HPCDF	U		0.864 (Q)		
1,2,3,4,7,8,9-HPCDF	U		0.864 (Q)		
OCDF	K J	1.51	0.864 (Q)	1.64	1.002

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; K = peak detected but did not meet quantification criteria, result reported represents the estimated maximum possible concentration; J = concentration less than lowest calibration equivalent.

(2) Reporting Limit (Code): S = sample detection limit; M = method detection limit; L = lowest calibration level equivalent; Q = minimum reporting level.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

For Axy Internal Use Only [XSL Template: Form1A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_WG66481-101_Form1A_DX9M_012S13_SJ2506623.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 2
PCDD/PCDF ANALYSIS REPORTCLIENT SAMPLE NO.
Lab Blank
Sample Collection:
N/A

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Project No.

N/A

Lab Sample I.D.:

WG66481-101

Matrix: FILTER

Sample Size:

1 sample

Sample Receipt Date: N/A

Initial Calibration Date:

03-Dec-2018

Extraction Date: 14-Jan-2019

Instrument ID:

HR GC/MS

Analysis Date: 30-Jan-2019 Time: 21:13:51

GC Column ID:

DB5

Extract Volume (uL): 20

Sample Data Filename:

DX9M_012 S: 13

Injection Volume (uL): 1.0

Blank Data Filename:

DX9M_012 S: 13

Dilution Factor: N/A

Cal. Ver. Data Filename:

DX9M_012 S: 9

Concentration Units: pg absolute

This page is part of a total report that contains information necessary for accreditation compliance.
This test is not NELAP accredited. Sample results relate only to the sample tested.

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO ³	RRT ³
13C-2,3,7,8-TCDD		4000	2730	68.2	0.79	1.013
13C-1,2,3,7,8-PECDD ⁴		4000	2890	72.3	0.63	1.381
13C-1,2,3,4,7,8-HXCDD		4000	3020	75.5	1.26	0.987
13C-1,2,3,6,7,8-HXCDD		4000	3090	77.3	1.27	0.990
13C-1,2,3,4,6,7,8-HPCDD		4000	2560	63.9	1.02	1.095
13C-OCDD		8000	4520	56.5	0.90	1.178
13C-2,3,7,8-TCDF		4000	2770	69.4	0.78	0.966
13C-1,2,3,7,8-PECDF		4000	2850	71.4	1.54	1.283
13C-2,3,4,7,8-PECDF		4000	2730	68.4	1.57	1.349
13C-1,2,3,4,7,8-HXCDF		4000	2710	67.7	0.53	0.954
13C-1,2,3,6,7,8-HXCDF		4000	2950	73.8	0.49	0.958
13C-1,2,3,7,8,9-HXCDF		4000	2790	69.8	0.51	1.005
13C-2,3,4,6,7,8-HXCDF		4000	2880	71.9	0.51	0.980
13C-1,2,3,4,6,7,8-HPCDF		4000	2450	61.3	0.45	1.062
13C-1,2,3,4,7,8,9-HPCDF		4000	2460	61.5	0.46	1.104

CLEANUP STANDARD

37CL-2,3,7,8-TCDD		400	286	71.5		1.001
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(1) Where applicable, custom lab flags have been used on this report.

(2) Contract-required limits for percent recovery (R) are specified in Section 9.3.3, Method 1613.

(3) Contract-required limits for RRTs and ion abundance ratios are specified in Tables 2 and 9, respectively, Method 1613. NOTE: There is no ion abundance ratio for 37Cl4-2,3,7,8-TCDD

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Kristen Bowes _____

For Axy Internal Use Only [XSL Template: Form2.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_WG66481-101_Form2_DX9M_012S13_SJ2506623.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 8A

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

OPR Data Filename:

DX9M_013 S: 2

Matrix: FILTER

Lab Sample I.D.:

WG66481-102 W

Extraction Date: 16-Jan-2019

Analysis Date:

01-Feb-2019 Time: 13:08:11

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 µL EXTRACT VOLUME.

COMPOUND	LAB FLAG ¹	ION ABUND. RATIO ²	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS ³ (ng/mL)	% RECOVERY
2,3,7,8-TCDD	D	0.78	20.0	20.1	13.4 - 31.6	100
1,2,3,7,8-PECDD ⁴	D	0.64	100	103	70.0 - 142	103
1,2,3,4,7,8-HXCDD	D	1.30	100	107	70.0 - 164	107
1,2,3,6,7,8-HXCDD	D	1.27	100	106	76.0 - 134	106
1,2,3,7,8,9-HXCDD	D	1.20	100	88.9	64.0 - 162	88.9
1,2,3,4,6,7,8-HPCDD	D	0.98	100	103	70.0 - 140	103
OCDD	D	0.86	200	205	156 - 288	102
2,3,7,8-TCDF	D	0.81	20.0	22.0	15.0 - 31.6	110
1,2,3,7,8-PECDF	D	1.58	100	100	80.0 - 134	100
2,3,4,7,8-PECDF	D	1.51	100	100	68.0 - 160	100
1,2,3,4,7,8-HXCDF	D	1.18	100	100	72.0 - 134	100
1,2,3,6,7,8-HXCDF	D	1.25	100	102	84.0 - 130	102
1,2,3,7,8,9-HXCDF	D	1.13	100	98.1	78.0 - 130	98.1
2,3,4,6,7,8-HXCDF	D	1.23	100	104	70.0 - 156	104
1,2,3,4,6,7,8-HPCDF	D	1.03	100	108	82.0 - 122	108
1,2,3,4,7,8,9-HPCDF	D	1.01	100	94.9	78.0 - 138	94.9
OCDF	D	0.89	200	202	126 - 340	101

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

(2) Contract-required Ion Abundance Ratios are specified in Table 9, Method 1613.

(3) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under OPR.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [XSL Template: Form8A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_1613DB5_WG66481-102_Form8A_SJ2508059.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 8B

PCDD/PCDF ONGOING PRECISION AND RECOVERY (OPR)

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

OPR Data Filename:

DX9M_013 S: 2

Matrix: FILTER

Lab Sample I.D.:

WG66481-102 W

Extraction Date: 16-Jan-2019

Analysis Date:

01-Feb-2019 Time: 13:08:11

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 20 µL EXTRACT VOLUME.

LABELLED COMPOUND	LAB FLAG ¹	ION ABUND. RATIO ²	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS ³ (ng/mL)	% RECOVERY
13C-2,3,7,8-TCDD	D	0.81	200	166	40.0-350	83.1
13C-1,2,3,7,8-PECDD ⁴	D	0.61	200	165	42.0-454	82.4
13C-1,2,3,4,7,8-HXCDD	D	1.25	200	170	42.0-386	84.9
13C-1,2,3,6,7,8-HXCDD	D	1.30	200	238	50.0-326	119
13C-1,2,3,4,6,7,8-HPCDD	D	1.08	200	139	52.0-332	69.4
13C-OCDD	D	0.82	400	205	52.0-794	51.3
13C-2,3,7,8-TCDF	D	0.73	200	162	44.0-304	80.8
13C-1,2,3,7,8-PCDF	D	1.59	200	165	42.0-384	82.4
13C-2,3,4,7,8-PCDF	D	1.58	200	165	26.0-656	82.3
13C-1,2,3,4,7,8-HXCDF	D	0.52	200	172	38.0-404	86.1
13C-1,2,3,6,7,8-HXCDF	D	0.52	200	188	42.0-318	94.0
13C-1,2,3,7,8,9-HXCDF	D	0.51	200	167	34.0-410	83.3
13C-2,3,4,6,7,8-HXCDF	D	0.54	200	167	44.0-352	83.5
13C-1,2,3,4,6,7,8-HPCDF	D	0.44	200	137	42.0-316	68.4
13C-1,2,3,4,7,8,9-HPCDF	D	0.46	200	142	40.0-372	71.0

CLEANUP STANDARD

37CL-2,3,7,8-TCDD	D		20.0	18.2	6.20-38.2	91.1
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(1) Where applicable, custom lab flags have been used on this report; D = dilution data.

(2) Contract-required Ion Abundance Ratios are specified in Table 9, Method 1613.

(3) Contract-required concentration limits for OPR as specified in Table 6, Method 1613. Labeled compound concentrations limits are based on required percent recovery (Section 15.5, Method 1613).

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____Kristen Bowes_____

These pages are part of a larger report that may contain information necessary for full data evaluation. Results reported relate only to the sample tested.

For Axys Internal Use Only [XSL Template: Form8B.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;

Report Filename: 1613_DIOXINS_1613DB5_WG66481-102_Form8B_SJ2508059.html; Workgroup: WG66481; Design ID: 3359]

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: DX8M_146A S: 4

CS1 Data Filename: DX8M_146A S: 6

CS2 Data Filename: DX8M_146A S: 5

CS3 Data Filename: DX8M_146A S: 10

CS4 Data Filename: DX8M_146A S: 9

CS5 Data Filename: DX8M_146A S: 8

CS6 Data Filename: DX8M_146A S: 7

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
2,3,7,8-TCDD		0.94	0.96	0.94	1.03	1.03	1.04	0.99	4.81
1,2,3,7,8-PECDD ³		0.94	0.94	0.90	0.98	1.00	1.00	0.96	4.01
1,2,3,4,7,8-HXCDD		0.87	0.94	0.90	0.98	0.98	1.00	0.95	5.56
1,2,3,6,7,8-HXCDD		0.83	0.85	0.85	0.91	0.93	0.94	0.88	5.40
1,2,3,7,8,9-HXCDD ⁴		0.78	0.86	0.84	0.91	0.92	0.92	0.87	6.44
1,2,3,4,6,7,8-HPCDD		0.81	0.90	0.88	0.97	0.98	0.99	0.95	6.84
OCDD		0.90	0.93	0.88	1.00	0.99	0.99	0.92	5.27
2,3,7,8-TCDF		0.86	0.88	0.84	0.91	0.93	0.92	0.89	4.02
1,2,3,7,8-PECDF		0.83	0.86	0.84	0.94	0.94	0.94	0.89	6.11
2,3,4,7,8-PECDF		0.80	0.87	0.86	0.93	0.96	0.96	0.90	7.12
1,2,3,4,7,8-HXCDF		0.96	1.08	1.06	1.17	1.17	1.17	1.10	7.75
1,2,3,6,7,8-HXCDF		0.99	1.06	1.02	1.12	1.14	1.12	1.08	5.79
1,2,3,7,8,9-HXCDF		0.97	1.02	0.93	1.02	1.04	1.07	1.01	4.86
2,3,4,6,7,8-HXCDF		1.04	1.10	1.09	1.19	1.20	1.20	1.14	5.99
1,2,3,4,6,7,8-HPCDF		1.12	1.19	1.18	1.26	1.30	1.29	1.23	5.55
1,2,3,4,7,8,9-HPCDF		1.16	1.25	1.17	1.28	1.33	1.30	1.30	5.18
OCDF ⁵		0.99	1.03	1.04	1.18	1.19	1.22	1.14	8.11

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

(2) For contract CV specifications, see Section 10.5.4, Method 1613.

(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

(4) Response ratios are calculated relative to the labeled analogs of the other two HXCDDs (Section 17.1.2, Method 1613).

(5) Response ratios are calculated relative to the labeled analog of OCDD (Section 17.1.1, Method 1613).

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: David Nelson

SGS AXYS METHOD MLA-017 Rev 20

Form 3B
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
 Initial Calibration Date: 03-Dec-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: DX8M_146A S: 4

CS1 Data Filename: DX8M_146A S: 6

CS2 Data Filename: DX8M_146A S: 5

CS3 Data Filename: DX8M_146A S: 10

CS4 Data Filename: DX8M_146A S: 9

CS5 Data Filename: DX8M_146A S: 8

CS6 Data Filename: DX8M_146A S: 7

LABELED COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
13C-2,3,7,8-TCDD		1.01	0.98	0.99	0.96	0.99	1.03	0.99	2.27
13C-1,2,3,7,8-PECDD ³		0.66	0.66	0.67	0.65	0.69	0.75	0.67	5.39
13C-1,2,3,4,7,8-HXCDD		1.02	0.95	0.98	1.01	1.02	1.01	0.99	2.83
13C-1,2,3,6,7,8-HXCDD		1.14	1.04	1.06	1.07	1.09	1.08	1.08	2.85
13C-1,2,3,4,6,7,8-HPCDD		0.83	0.78	0.78	0.76	0.83	0.79	1.16	16.6
13C-OCDD		0.65	0.63	0.64	0.62	0.71	0.77	1.33	33.2
13C-2,3,7,8-TCDF		1.55	1.48	1.51	1.49	1.50	1.55	1.50	1.85
13C-1,2,3,7,8-PECDF		1.17	1.15	1.17	1.14	1.20	1.29	1.16	4.36
13C-2,3,4,7,8-PECDF		1.11	1.10	1.12	1.08	1.15	1.24	1.10	4.90
13C-1,2,3,4,7,8-HXCDF		1.34	1.24	1.26	1.29	1.26	1.27	1.26	2.74
13C-1,2,3,6,7,8-HXCDF		1.45	1.32	1.36	1.36	1.39	1.37	1.35	2.97
13C-1,2,3,7,8,9-HXCDF		1.11	1.06	1.09	1.06	1.11	1.11	1.11	2.23
13C-2,3,4,6,7,8-HXCDF		1.28	1.18	1.20	1.20	1.23	1.19	1.19	2.77
13C-1,2,3,4,6,7,8-HPCDF		1.01	0.96	0.98	0.96	1.00	1.00	1.41	15.4
13C-1,2,3,4,7,8,9-HPCDF		0.74	0.71	0.73	0.70	0.76	0.76	1.12	18.5
CLEANUP STANDARD									
37CL-2,3,7,8-TCDD		1.08	0.98	0.99	1.02	1.07	1.13	1.04	5.57

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

(2) For contract CV specifications, see Section 10.5.4, Method 1613.

(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ David Nelson _____

For Axs Internal Use Only [XSL Template: Form3B.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
 Report Filename: 1613_DIOXINS_03-Dec-2018_DX8M__Form3B_GS80042.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 3C

PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: DX8M_146A S: 4

CS1 Data Filename: DX8M_146A S: 6

CS2 Data Filename: DX8M_146A S: 5

CS3 Data Filename: DX8M_146A S: 10

CS4 Data Filename: DX8M_146A S: 9

CS5 Data Filename: DX8M_146A S: 8

CS6 Data Filename: DX8M_146A S: 7

COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO ²	ION ABUNDANCE RATIO						QC LIMITS ³	
			CS0	CS1	CS2	CS3	CS4	CS5		CS6
2,3,7,8-TCDD		M/M+2	0.69	0.80	0.78	0.78	0.78	0.78		0.65-0.89
1,2,3,7,8-PECDD ⁴		M/M+2	0.62	0.62	0.62	0.61	0.61	0.62		0.52-0.70
1,2,3,4,7,8-HXCDD		M+2/M+4	1.27	1.24	1.27	1.25	1.24	1.25		1.05-1.43
1,2,3,6,7,8-HXCDD		M+2/M+4	1.21	1.24	1.26	1.26	1.24	1.23		1.05-1.43
1,2,3,7,8,9-HXCDD		M+2/M+4	1.21	1.23	1.25	1.24	1.24	1.24		1.05-1.43
1,2,3,4,6,7,8-HPCDD		M+2/M+4	0.93	1.07	1.07	1.06	1.07	1.03	1.04	0.88-1.20
OCDD		M+2/M+4	0.90	0.87	0.89	0.88	0.87	0.88	0.93	0.76-1.02
2,3,7,8-TCDF		M/M+2	0.77	0.78	0.78	0.77	0.77	0.78		0.65-0.89
1,2,3,7,8-PECDF		M+2/M+4	1.52	1.56	1.61	1.56	1.57	1.55		1.32-1.78
2,3,4,7,8-PECDF		M+2/M+4	1.47	1.60	1.56	1.58	1.56	1.56		1.32-1.78
1,2,3,4,7,8-HXCDF		M+2/M+4	1.27	1.21	1.24	1.24	1.25	1.24		1.05-1.43
1,2,3,6,7,8-HXCDF		M+2/M+4	1.28	1.23	1.25	1.28	1.24	1.24		1.05-1.43
1,2,3,7,8,9-HXCDF		M+2/M+4	1.27	1.23	1.26	1.24	1.25	1.25		1.05-1.43
2,3,4,6,7,8-HXCDF		M+2/M+4	1.16	1.28	1.27	1.25	1.24	1.25		1.05-1.43
1,2,3,4,6,7,8-HPCDF		M+2/M+4	1.12	1.04	1.01	1.04	1.04	1.05	1.04	0.88-1.20
1,2,3,4,7,8,9-HPCDF		M+2/M+4	0.97	1.06	1.01	1.04	1.04	1.05	1.04	0.88-1.20
OCDF		M+2/M+4	0.88	0.96	0.89	0.91	0.90	0.90	0.94	0.76-1.02

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits from Table 9, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ David Nelson _____

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Report Filename: 1613_DIOXINS_03-Dec-2018_DX8M__Form3C_GS80042.html; Workgroup: WG66481; Design ID: 3359]

Form 3D
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
 V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Initial Calibration Date: 03-Dec-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: DX8M_146A S: 4

CS1 Data Filename: DX8M_146A S: 6

CS2 Data Filename: DX8M_146A S: 5

CS3 Data Filename: DX8M_146A S: 10

CS4 Data Filename: DX8M_146A S: 9

CS5 Data Filename: DX8M_146A S: 8

CS6 Data Filename: DX8M_146A S: 7

LABELED COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO ²	ION ABUNDANCE RATIO						QC LIMITS ³	
			CS0	CS1	CS2	CS3	CS4	CS5		CS6
13C-2,3,7,8-TCDD		M/M+2	0.77	0.78	0.78	0.78	0.77	0.78	0.78	0.65-0.89
13C-1,2,3,7,8-PECDD ⁴		M/M+2	0.62	0.62	0.63	0.62	0.63	0.63	0.62	0.52-0.70
13C-1,2,3,4,7,8-HXCDD		M+2/M+4	1.29	1.27	1.26	1.26	1.26	1.27	1.28	1.05-1.43
13C-1,2,3,6,7,8-HXCDD		M+2/M+4	1.26	1.25	1.27	1.25	1.26	1.26	1.27	1.05-1.43
13C-1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.05	1.06	1.04	1.04	1.05	1.04	1.05	0.88-1.20
13C-OCDD		M+2/M+4	0.91	0.88	0.90	0.88	0.89	0.89	0.89	0.76-1.02
13C-2,3,7,8-TCDF		M/M+2	0.78	0.77	0.78	0.77	0.77	0.77	0.78	0.65-0.89
13C-1,2,3,7,8-PECDF		M+2/M+4	1.59	1.57	1.59	1.56	1.58	1.58	1.59	1.32-1.78
13C-2,3,4,7,8-PECDF		M+2/M+4	1.56	1.59	1.55	1.58	1.58	1.57	1.57	1.32-1.78
13C-1,2,3,4,7,8-HXCDF		M/M+2	0.51	0.51	0.52	0.51	0.51	0.51	0.51	0.43-0.59
13C-1,2,3,6,7,8-HXCDF		M/M+2	0.52	0.51	0.51	0.51	0.52	0.52	0.51	0.43-0.59
13C-1,2,3,7,8,9-HXCDF		M/M+2	0.51	0.51	0.51	0.52	0.53	0.50	0.52	0.43-0.59
13C-2,3,4,6,7,8-HXCDF		M/M+2	0.52	0.52	0.52	0.52	0.51	0.52	0.52	0.43-0.59
13C-1,2,3,4,6,7,8-HPCDF		M/M+2	0.44	0.45	0.44	0.44	0.46	0.45	0.44	0.37-0.51
13C-1,2,3,4,7,8,9-HPCDF		M/M+2	0.46	0.45	0.45	0.44	0.44	0.44	0.45	0.37-0.51

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits from Table 9, Method 1613.

(4) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ **David Nelson** _____

For Axy Internal Use Only [XSL Template: Form3D.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
 Report Filename: 1613_DIOXINS_03-Dec-2018_DX8M__Form3D_GS80042.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

SGS AXYS ANALYTICAL SERVICES

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

Instrument ID:	HR GC/MS	Initial Calibration Date:	03-Dec-2018
RT Window Data Filename:	DX8M_146A S: 10	Analysis Date:	03-Dec-2018
DB-5 IS Data Filename:	DX8M_146A S: 10	Analysis Date:	03-Dec-2018
DB-225 IS Data Filename:		Analysis Date:	
		Time:	20:12:12
		Time:	20:12:12
		Time:	

DB5 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	22:57	1,3,6,8-TCDF (F)	21:25
1,2,8,9-TCDD (L)	28:19	1,2,8,9-TCDF (L)	28:08
1,2,4,7,9-PECDD (F)	32:02	1,3,4,6,8-PECDF (F)	28:52
1,2,3,8,9-PECDD (L)	37:03	1,2,3,8,9-PECDF (L)	37:06
1,2,4,6,7,9-HXCDD (F)	40:02	1,2,3,4,6,8-HXCDF (F)	38:59
1,2,3,4,6,7-HXCDD (L)	42:41	1,2,3,4,8,9-HXCDF (L)	43:00
1,2,3,4,6,7,9-HPCDD (F)	45:47	1,2,3,4,6,7,8-HPCDF (F)	45:19
1,2,3,4,6,7,8-HPCDD (L)	46:42	1,2,3,4,7,8,9-HPCDF (L)	47:06

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	0	1,2,3,8-TCDD 2,3,7,8-TCDD	9.95
1,2,7,8-TCDD 1,4,7,8-TCDD	0	2,3,4,7-TCDF 2,3,7,8-TCDF	N/A
1,4,7,8-TCDD 1,2,3,7-TCDD	0	2,3,7,8-TCDF 1,2,3,9-TCDF	N/A
1,2,3,7-TCDD 1,2,3,8-TCDD	DB-5 column; co-elute as per Figure 6 in Method		

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Robert Tones _____

SGS AXYS METHOD MLA-017 Rev 20

Form 3A

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 15-Jan-2019

Instrument ID: HR GC/MS

GC Column ID: DB225

CS0 Data Filename: DB93_009D S: 7

CS1 Data Filename: DB93_009D S: 5

CS2 Data Filename: DB93_009D S: 3

CS3 Data Filename: DB93_009D S: 2

CS4 Data Filename: DB93_009D S: 9

CS5 Data Filename: DB93_009D S: 8

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
1,2,3,7,8,9-HxCDD		0.71	0.73	0.72	0.90	0.92	0.94	0.82	13.3
2,3,7,8-TCDF		0.67	0.70	0.77	0.81	0.83	0.86	0.77	9.62

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

(2) For contract CV specifications, see Section 10.5.4, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ David Nelson _____

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Report Filename: 1613_DIOXINS_15-Jan-2019_DB93__Form3A_GS80062.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 3C

PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 15-Jan-2019

Instrument ID: HR GC/MS

GC Column ID: DB225

CS0 Data Filename: DB93_009D S: 7

CS1 Data Filename: DB93_009D S: 5

CS2 Data Filename: DB93_009D S: 3

CS3 Data Filename: DB93_009D S: 2

CS4 Data Filename: DB93_009D S: 9

CS5 Data Filename: DB93_009D S: 8

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO ²	ION ABUNDANCE RATIO						QC LIMITS ³
			CS0	CS1	CS2	CS3	CS4	CS5	
1,2,3,7,8,9-HxCDD		M+2/M+4	1.13	1.19	1.19	1.22	1.23	1.20	1.05-1.43
2,3,7,8-TCDF		M/M+2	0.72	0.76	0.73	0.76	0.75	0.76	0.65-0.89

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits from Table 9, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____David Nelson_____

For Axy Internal Use Only [XSL Template: Form3C.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_15-Jan-2019_DB93__Form3C_GS80062.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

SGS AXYS ANALYTICAL SERVICES

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

Instrument ID:	HR GC/MS	Initial Calibration Date:	15-Jan-2019
RT Window Data Filename:		Analysis Date:	Time:
DB-5 IS Data Filename:		Analysis Date:	Time:
DB-225 IS Data Filename:	DB93_009D S: 1	Analysis Date:	15-Jan-2019
		Time:	08:10:30

DB225 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	N/A	1,3,6,8-TCDF (F)	N/A
1,2,8,9-TCDD (L)	N/A	1,2,8,9-TCDF (L)	N/A
1,2,4,7,9-PECDD (F)	N/A	1,3,4,6,8-PECDF (F)	N/A
1,2,3,8,9-PECDD (L)	N/A	1,2,3,8,9-PECDF (L)	N/A
1,2,4,6,7,9-HXCDD (F)	N/A	1,2,3,4,6,8-HXCDF (F)	N/A
1,2,3,4,6,7-HXCDD (L)	N/A	1,2,3,4,8,9-HXCDF (L)	N/A
1,2,3,4,6,7,9-HPCDD (F)	N/A	1,2,3,4,6,7,8-HPCDF (F)	N/A
1,2,3,4,6,7,8-HPCDD (L)	N/A	1,2,3,4,7,8,9-HPCDF (L)	N/A

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	N/A	1,2,3,8-TCDD 2,3,7,8-TCDD	N/A
1,2,7,8-TCDD 1,4,7,8-TCDD	N/A	2,3,4,7-TCDF 2,3,7,8-TCDF	4.5
1,4,7,8-TCDD 1,2,3,7-TCDD	N/A	2,3,7,8-TCDF 1,2,3,9-TCDF	6
1,2,3,7-TCDD 1,2,3,8-TCDD	N/A		

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

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Report Filename: 1613_DIOXINS__DB93_009DS1_Form5_SJ2498528.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 4A
PCDD/PCDF CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 15-Jan-2019

VER Data Filename: DB93_025 S: 2

Instrument ID: HR GC/MS

Analysis Date: 01-Feb-2019

GC Column ID: DB225

Analysis Time: 20:25:55

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
1,2,3,7,8,9-HXCDD		M+2/M+4	1.21	1.05-1.43	51.3	41 - 61
2,3,7,8-TCDF		M/M+2	0.76	0.65-0.89	10.6	8.4 - 12

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axys Internal Use Only [XSL Template: Form4A.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
 Report Filename: 1613_DIOXINS_DB93_025S2__Form4A_SJ2508137.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 15-Jan-2019

VER Data Filename: DB93_025 S: 2

Instrument ID: HR GC/MS

Analysis Date: 01-Feb-2019

GC Column ID: DB225

Analysis Time: 20:25:55

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
1,2,3,7,8,9-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.059	1.052-1.075
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.001	0.999-1.003

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

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axs Internal Use Only [XSL Template: Form6A.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
 Report Filename: 1613_DIOXINS_DB93_025S2__Form6A_SJ2508137.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 4A
PCDD/PCDF CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 15-Jan-2019

VER Data Filename: DB93_025 S: 12

Instrument ID: HR GC/MS

Analysis Date: 02-Feb-2019

GC Column ID: DB225

Analysis Time: 03:47:19

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
1,2,3,7,8,9-HXCDD		M+2/M+4	1.22	1.05-1.43	55.1	41 - 61
2,3,7,8-TCDF		M/M+2	0.76	0.65-0.89	10.9	8.4 - 12

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axys Internal Use Only [XSL Template: Form4A.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
 Report Filename: 1613_DIOXINS_DB93_025S12__Form4A_SJ2508147.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 15-Jan-2019

VER Data Filename: DB93_025 S: 12

Instrument ID: HR GC/MS

Analysis Date: 02-Feb-2019

GC Column ID: DB225

Analysis Time: 03:47:19

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
1,2,3,7,8,9-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.059	1.052-1.075
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.002	0.999-1.003

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

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axs Internal Use Only [XSL Template: Form6A.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
 Report Filename: 1613_DIOXINS_DB93_025S12__Form6A_SJ2508147.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

SGS AXYS ANALYTICAL SERVICES

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

Instrument ID:	HR GC/MS	Initial Calibration Date:	15-Jan-2019
RT Window Data Filename:		Analysis Date:	Time:
DB-5 IS Data Filename:		Analysis Date:	Time:
DB-225 IS Data Filename:	DB93_025 S: 1	Analysis Date:	01-Feb-2019
		Time:	19:41:46

DB225 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	N/A	1,3,6,8-TCDF (F)	N/A
1,2,8,9-TCDD (L)	N/A	1,2,8,9-TCDF (L)	N/A
1,2,4,7,9-PECDD (F)	N/A	1,3,4,6,8-PECDF (F)	N/A
1,2,3,8,9-PECDD (L)	N/A	1,2,3,8,9-PECDF (L)	N/A
1,2,4,6,7,9-HXCDD (F)	N/A	1,2,3,4,6,8-HXCDF (F)	N/A
1,2,3,4,6,7-HXCDD (L)	N/A	1,2,3,4,8,9-HXCDF (L)	N/A
1,2,3,4,6,7,9-HPCDD (F)	N/A	1,2,3,4,6,7,8-HPCDF (F)	N/A
1,2,3,4,6,7,8-HPCDD (L)	N/A	1,2,3,4,7,8,9-HPCDF (L)	N/A

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	N/A	1,2,3,8-TCDD 2,3,7,8-TCDD	N/A
1,2,7,8-TCDD 1,4,7,8-TCDD	N/A	2,3,4,7-TCDF 2,3,7,8-TCDF	9
1,4,7,8-TCDD 1,2,3,7-TCDD	N/A	2,3,7,8-TCDF 1,2,3,9-TCDF	9.5
1,2,3,7-TCDD 1,2,3,8-TCDD	N/A		

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axy Internal Use Only [XSL Template: DXForm5.xsl; Created: 05-Feb-2019 14:18:24; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS__DB93_025S1_Form5_SJ2508148.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 4A
PCDD/PCDF CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_012 S: 9

Instrument ID: HR GC/MS

Analysis Date: 30-Jan-2019

GC Column ID: DB5

Analysis Time: 17:24:37

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
2,3,7,8-TCDD		M/M+2	0.78	0.65-0.89	10.5	7.8 - 12.9
1,2,3,7,8-PECDD ⁵		M/M+2	0.60	0.52-0.70	52.1	39 - 65
1,2,3,4,7,8-HXCDD		M+2/M+4	1.24	1.05-1.43	52.3	39 - 64
1,2,3,6,7,8-HXCDD		M+2/M+4	1.26	1.05-1.43	53.3	39 - 64
1,2,3,7,8,9-HXCDD		M+2/M+4	1.24	1.05-1.43	54.3	41 - 61
1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.01	0.88-1.20	52.7	43 - 58
OCDD		M+2/M+4	0.89	0.76-1.02	108	79 - 126
2,3,7,8-TCDF		M/M+2	0.77	0.65-0.89	10.3	8.4 - 12
1,2,3,7,8-PECDF		M+2/M+4	1.57	1.32-1.78	54.0	41 - 60
2,3,4,7,8-PECDF		M+2/M+4	1.56	1.32-1.78	53.0	41 - 61
1,2,3,4,7,8-HXCDF		M+2/M+4	1.25	1.05-1.43	52.2	45 - 56
1,2,3,6,7,8-HXCDF		M+2/M+4	1.26	1.05-1.43	51.8	44 - 57
1,2,3,7,8,9-HXCDF		M+2/M+4	1.24	1.05-1.43	46.4	45 - 56
2,3,4,6,7,8-HXCDF		M+2/M+4	1.24	1.05-1.43	50.0	44 - 57
1,2,3,4,6,7,8-HPCDF		M+2/M+4	1.02	0.88-1.20	51.9	45 - 55
1,2,3,4,7,8,9-HPCDF		M+2/M+4	0.99	0.88-1.20	51.8	43 - 58
OCDF		M+2/M+4	0.91	0.76-1.02	106	63 - 159

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

(5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axy Internal Use Only [XSL Template: Form4A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_DX9M_012S9_Form4A_SJ2506701.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 4B
PCDD/PCDF CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_012 S: 9

Instrument ID: HR GC/MS

Analysis Date: 30-Jan-2019

GC Column ID: DB5

Analysis Time: 17:24:37

LABELLED COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
13C-2,3,7,8-TCDD		M/M+2	0.76	0.65-0.89	103	82 - 121
13C-1,2,3,7,8-PECDD ⁵		M/M+2	0.62	0.52-0.70	96.4	62 - 160
13C-1,2,3,4,7,8-HXCDD		M+2/M+4	1.24	1.05-1.43	91.9	85 - 117
13C-1,2,3,6,7,8-HXCDD		M+2/M+4	1.23	1.05-1.43	102	85 - 118
13C-1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.03	0.88-1.20	112	72 - 138
13C-OCDD		M+2/M+4	0.92	0.76-1.02	212	96 - 415
13C-2,3,7,8-TCDF		M/M+2	0.79	0.65-0.89	104	71 - 140
13C-1,2,3,7,8-PECDF		M+2/M+4	1.58	1.32-1.78	99.7	76 - 130
13C-2,3,4,7,8-PECDF		M+2/M+4	1.55	1.32-1.78	99.4	77 - 130
13C-1,2,3,4,7,8-HXCDF		M/M+2	0.51	0.43-0.59	95.8	76 - 131
13C-1,2,3,6,7,8-HXCDF		M/M+2	0.51	0.43-0.59	99.7	70 - 143
13C-1,2,3,7,8,9-HXCDF		M/M+2	0.51	0.43-0.59	103	74 - 135
13C-2,3,4,6,7,8-HXCDF		M/M+2	0.51	0.43-0.59	102	73 - 137
13C-1,2,3,4,6,7,8-HPCDF		M/M+2	0.44	0.37-0.51	97.9	78 - 129
13C-1,2,3,4,7,8,9-HPCDF		M/M+2	0.44	0.37-0.51	116	77 - 129
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD ⁶					10.1	7.9 - 12.7

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

(5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

(6) No ion abundance ratio for 37Cl4-2,3,7,8-TCDD; concentration reported.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley_____

For Axys Internal Use Only [XSL Template: Form4B.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_DX9M_012S9_Form4B_SJ2506701.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_012 S: 9

Instrument ID: HR GC/MS

Analysis Date: 30-Jan-2019

GC Column ID: DB5

Analysis Time: 17:24:37

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
2,3,7,8-TCDD		13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PECDD ³		13C-1,2,3,7,8-PECDD	1.000	0.999-1.002
1,2,3,4,7,8-HXCDD		13C-1,2,3,4,7,8-HXCDD	1.000	0.999-1.001
1,2,3,6,7,8-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.000	0.998-1.004
1,2,3,7,8,9-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.011	1.000-1.019
1,2,3,4,6,7,8-HPCDD		13C-1,2,3,4,6,7,8-HPCDD	1.000	0.999-1.001
OCDD		13C-OCDD	1.000	0.999-1.001
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PECDF		13C-1,2,3,7,8-PECDF	1.001	0.999-1.002
2,3,4,7,8-PECDF		13C-2,3,4,7,8-PECDF	1.000	0.999-1.002
1,2,3,4,7,8-HXCDF		13C-1,2,3,4,7,8-HXCDF	1.001	0.999-1.001
1,2,3,6,7,8-HXCDF		13C-1,2,3,6,7,8-HXCDF	1.000	0.997-1.005
1,2,3,7,8,9-HXCDF		13C-1,2,3,7,8,9-HXCDF	1.000	0.999-1.001
2,3,4,6,7,8-HXCDF		13C-2,3,4,6,7,8-HXCDF	1.001	0.999-1.001
1,2,3,4,6,7,8-HPCDF		13C-1,2,3,4,6,7,8-HPCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HPCDF		13C-1,2,3,4,7,8,9-HPCDF	1.000	0.999-1.001
OCDF		13C-OCDD	1.002	0.999-1.008

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

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axys Internal Use Only [XSL Template: Form6A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_DX9M_012S9_Form6A_SJ2506701.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 6B
PCDD/PCDF RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_012 S: 9

Instrument ID: HR GC/MS

Analysis Date: 30-Jan-2019

GC Column ID: DB5

Analysis Time: 17:24:37

LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
LABELED COMPOUND			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.013	0.976-1.043
13C-1,2,3,7,8-PECDD	13C-1,2,3,4-TCDD	1.381	1.000-1.567
13C-1,2,3,4,7,8-HXCDD	13C-1,2,3,7,8,9-HXCDD	0.987	0.977-1.000
13C-1,2,3,6,7,8-HXCDD	13C-1,2,3,7,8,9-HXCDD	0.990	0.981-1.003
13C-1,2,3,4,6,7,8-HPCDD	13C-1,2,3,7,8,9-HXCDD	1.094	1.086-1.110
13C-OCDD	13C-1,2,3,7,8,9-HXCDD	1.178	1.032-1.311
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.966	0.923-1.103
13C-1,2,3,7,8-PECDF	13C-1,2,3,4-TCDD	1.283	1.000-1.425
13C-2,3,4,7,8-PECDF	13C-1,2,3,4-TCDD	1.349	1.011-1.526
13C-1,2,3,4,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.954	0.944-0.970
13C-1,2,3,6,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.958	0.949-0.975
13C-1,2,3,7,8,9-HXCDF	13C-1,2,3,7,8,9-HXCDD	1.004	0.977-1.047
13C-2,3,4,6,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.980	0.959-1.021
13C-1,2,3,4,6,7,8-HPCDF	13C-1,2,3,7,8,9-HXCDD	1.062	1.043-1.085
13C-1,2,3,4,7,8,9-HPCDF	13C-1,2,3,7,8,9-HXCDD	1.104	1.057-1.151
CLEANUP STANDARD			
37CL-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.001	0.989-1.052

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

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axys Internal Use Only [XSL Template: Form6B.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_DX9M_012S9_Form6B_SJ2506701.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 4A
PCDD/PCDF CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_012 S: 22

Instrument ID: HR GC/MS

Analysis Date: 31-Jan-2019

GC Column ID: DB5

Analysis Time: 05:39:34

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
2,3,7,8-TCDD		M/M+2	0.79	0.65-0.89	10.4	7.8 - 12.9
1,2,3,7,8-PECDD ⁵		M/M+2	0.62	0.52-0.70	52.7	39 - 65
1,2,3,4,7,8-HXCDD		M+2/M+4	1.24	1.05-1.43	52.6	39 - 64
1,2,3,6,7,8-HXCDD		M+2/M+4	1.24	1.05-1.43	53.5	39 - 64
1,2,3,7,8,9-HXCDD		M+2/M+4	1.38	1.05-1.43	54.4	41 - 61
1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.04	0.88-1.20	54.7	43 - 58
OCDD		M+2/M+4	0.89	0.76-1.02	102	79 - 126
2,3,7,8-TCDF		M/M+2	0.74	0.65-0.89	10.8	8.4 - 12
1,2,3,7,8-PECDF		M+2/M+4	1.57	1.32-1.78	53.1	41 - 60
2,3,4,7,8-PECDF		M+2/M+4	1.52	1.32-1.78	52.5	41 - 61
1,2,3,4,7,8-HXCDF		M+2/M+4	1.25	1.05-1.43	53.3	45 - 56
1,2,3,6,7,8-HXCDF		M+2/M+4	1.26	1.05-1.43	51.9	44 - 57
1,2,3,7,8,9-HXCDF		M+2/M+4	1.30	1.05-1.43	47.0	45 - 56
2,3,4,6,7,8-HXCDF		M+2/M+4	1.24	1.05-1.43	51.8	44 - 57
1,2,3,4,6,7,8-HPCDF		M+2/M+4	1.01	0.88-1.20	51.5	45 - 55
1,2,3,4,7,8,9-HPCDF		M+2/M+4	0.98	0.88-1.20	49.7	43 - 58
OCDF		M+2/M+4	0.92	0.76-1.02	107	63 - 159

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

(5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axy Internal Use Only [XSL Template: Form4A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_DX9M_012S22__Form4A_SJ2506632.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 4B
PCDD/PCDF CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_012 S: 22

Instrument ID: HR GC/MS

Analysis Date: 31-Jan-2019

GC Column ID: DB5

Analysis Time: 05:39:34

LABELLED COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
13C-2,3,7,8-TCDD		M/M+2	0.79	0.65-0.89	110	82 - 121
13C-1,2,3,7,8-PECDD ⁵		M/M+2	0.63	0.52-0.70	87.8	62 - 160
13C-1,2,3,4,7,8-HXCDD		M+2/M+4	1.27	1.05-1.43	90.3	85 - 117
13C-1,2,3,6,7,8-HXCDD		M+2/M+4	1.23	1.05-1.43	102	85 - 118
13C-1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.04	0.88-1.20	75.2	72 - 138
13C-OCDD		M+2/M+4	0.90	0.76-1.02	150	96 - 415
13C-2,3,7,8-TCDF		M/M+2	0.77	0.65-0.89	107	71 - 140
13C-1,2,3,7,8-PECDF		M+2/M+4	1.55	1.32-1.78	96.2	76 - 130
13C-2,3,4,7,8-PECDF		M+2/M+4	1.58	1.32-1.78	93.9	77 - 130
13C-1,2,3,4,7,8-HXCDF		M/M+2	0.51	0.43-0.59	96.8	76 - 131
13C-1,2,3,6,7,8-HXCDF		M/M+2	0.51	0.43-0.59	103	70 - 143
13C-1,2,3,7,8,9-HXCDF		M/M+2	0.52	0.43-0.59	92.2	74 - 135
13C-2,3,4,6,7,8-HXCDF		M/M+2	0.50	0.43-0.59	100	73 - 137
13C-1,2,3,4,6,7,8-HPCDF		M/M+2	0.46	0.37-0.51	86.1	78 - 129
13C-1,2,3,4,7,8,9-HPCDF		M/M+2	0.45	0.37-0.51	81.0	77 - 129
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD ⁶					10.6	7.9 - 12.7

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

(5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

(6) No ion abundance ratio for 37Cl-2,3,7,8-TCDD; concentration reported.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axys Internal Use Only [XSL Template: Form4B.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_DX9M_012S22_Form4B_SJ2506632.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_012 S: 22

Instrument ID: HR GC/MS

Analysis Date: 31-Jan-2019

GC Column ID: DB5

Analysis Time: 05:39:34

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
2,3,7,8-TCDD		13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PECDD ³		13C-1,2,3,7,8-PECDD	1.000	0.999-1.002
1,2,3,4,7,8-HXCDD		13C-1,2,3,4,7,8-HXCDD	1.000	0.999-1.001
1,2,3,6,7,8-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.000	0.998-1.004
1,2,3,7,8,9-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.010	1.000-1.019
1,2,3,4,6,7,8-HPCDD		13C-1,2,3,4,6,7,8-HPCDD	1.000	0.999-1.001
OCDD		13C-OCDD	1.000	0.999-1.001
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PECDF		13C-1,2,3,7,8-PECDF	1.001	0.999-1.002
2,3,4,7,8-PECDF		13C-2,3,4,7,8-PECDF	1.001	0.999-1.002
1,2,3,4,7,8-HXCDF		13C-1,2,3,4,7,8-HXCDF	1.001	0.999-1.001
1,2,3,6,7,8-HXCDF		13C-1,2,3,6,7,8-HXCDF	1.000	0.997-1.005
1,2,3,7,8,9-HXCDF		13C-1,2,3,7,8,9-HXCDF	1.000	0.999-1.001
2,3,4,6,7,8-HXCDF		13C-2,3,4,6,7,8-HXCDF	1.001	0.999-1.001
1,2,3,4,6,7,8-HPCDF		13C-1,2,3,4,6,7,8-HPCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HPCDF		13C-1,2,3,4,7,8,9-HPCDF	1.000	0.999-1.001
OCDF		13C-OCDD	1.002	0.999-1.008

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

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

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Report Filename: 1613_DIOXINS_DX9M_012S22__Form6A_SJ2506632.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 6B
PCDD/PCDF RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_012 S: 22

Instrument ID: HR GC/MS

Analysis Date: 31-Jan-2019

GC Column ID: DB5

Analysis Time: 05:39:34

LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
LABELED COMPOUND			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.013	0.976-1.043
13C-1,2,3,7,8-PECDD	13C-1,2,3,4-TCDD	1.381	1.000-1.567
13C-1,2,3,4,7,8-HXCDD	13C-1,2,3,7,8,9-HXCDD	0.987	0.977-1.000
13C-1,2,3,6,7,8-HXCDD	13C-1,2,3,7,8,9-HXCDD	0.990	0.981-1.003
13C-1,2,3,4,6,7,8-HPCDD	13C-1,2,3,7,8,9-HXCDD	1.095	1.086-1.110
13C-OCDD	13C-1,2,3,7,8,9-HXCDD	1.178	1.032-1.311
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.966	0.923-1.103
13C-1,2,3,7,8-PECDF	13C-1,2,3,4-TCDD	1.282	1.000-1.425
13C-2,3,4,7,8-PECDF	13C-1,2,3,4-TCDD	1.349	1.011-1.526
13C-1,2,3,4,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.954	0.944-0.970
13C-1,2,3,6,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.958	0.949-0.975
13C-1,2,3,7,8,9-HXCDF	13C-1,2,3,7,8,9-HXCDD	1.005	0.977-1.047
13C-2,3,4,6,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.980	0.959-1.021
13C-1,2,3,4,6,7,8-HPCDF	13C-1,2,3,7,8,9-HXCDD	1.062	1.043-1.085
13C-1,2,3,4,7,8,9-HPCDF	13C-1,2,3,7,8,9-HXCDD	1.104	1.057-1.151
CLEANUP STANDARD			
37CL-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.001	0.989-1.052

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

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axys Internal Use Only [XSL Template: Form6B.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_DX9M_012S22_Form6B_SJ2506632.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

SGS AXYS ANALYTICAL SERVICES

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

Instrument ID:	HR GC/MS	Initial Calibration Date:	03-Dec-2018
RT Window Data Filename:	DX9M_012 S: 9	Analysis Date:	30-Jan-2019
DB-5 IS Data Filename:	DX9M_012 S: 9	Analysis Date:	30-Jan-2019
DB-225 IS Data Filename:		Analysis Date:	
		Time:	17:24:37
		Time:	17:24:37
		Time:	

DB5 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:00	1,3,6,8-TCDF (F)	21:29
1,2,8,9-TCDD (L)	28:23	1,2,8,9-TCDF (L)	28:14
1,2,4,7,9-PECDD (F)	32:05	1,3,4,6,8-PECDF (F)	28:55
1,2,3,8,9-PECDD (L)	37:05	1,2,3,8,9-PECDF (L)	37:08
1,2,4,6,7,9-HXCDD (F)	40:03	1,2,3,4,6,8-HXCDF (F)	39:00
1,2,3,4,6,7-HXCDD (L)	42:42	1,2,3,4,8,9-HXCDF (L)	43:02
1,2,3,4,6,7,9-HPCDD (F)	45:47	1,2,3,4,6,7,8-HPCDF (F)	45:20
1,2,3,4,6,7,8-HPCDD (L)	46:43	1,2,3,4,7,8,9-HPCDF (L)	47:07

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	0	1,2,3,8-TCDD 2,3,7,8-TCDD	18
1,2,7,8-TCDD 1,4,7,8-TCDD	0	2,3,4,7-TCDF 2,3,7,8-TCDF	N/A
1,4,7,8-TCDD 1,2,3,7-TCDD	0	2,3,7,8-TCDF 1,2,3,9-TCDF	N/A
1,2,3,7-TCDD 1,2,3,8-TCDD	DB-5 column; co-elute as per Figure 6 in Method		

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axys Internal Use Only [XSL Template: DXForm5.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS__DX9M_012S9_Form5_SJ2506633.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 4A
PCDD/PCDF CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_013 S: 1

Instrument ID: HR GC/MS

Analysis Date: 01-Feb-2019

GC Column ID: DB5

Analysis Time: 11:56:38

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
2,3,7,8-TCDD		M/M+2	0.78	0.65-0.89	11.0	7.8 - 12.9
1,2,3,7,8-PECDD ⁵		M/M+2	0.62	0.52-0.70	50.7	39 - 65
1,2,3,4,7,8-HXCDD		M+2/M+4	1.22	1.05-1.43	52.6	39 - 64
1,2,3,6,7,8-HXCDD		M+2/M+4	1.28	1.05-1.43	54.8	39 - 64
1,2,3,7,8,9-HXCDD		M+2/M+4	1.27	1.05-1.43	55.7	41 - 61
1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.02	0.88-1.20	53.0	43 - 58
OCDD		M+2/M+4	0.88	0.76-1.02	103	79 - 126
2,3,7,8-TCDF		M/M+2	0.77	0.65-0.89	10.5	8.4 - 12
1,2,3,7,8-PECDF		M+2/M+4	1.57	1.32-1.78	54.2	41 - 60
2,3,4,7,8-PECDF		M+2/M+4	1.56	1.32-1.78	52.2	41 - 61
1,2,3,4,7,8-HXCDF		M+2/M+4	1.23	1.05-1.43	52.5	45 - 56
1,2,3,6,7,8-HXCDF		M+2/M+4	1.23	1.05-1.43	52.2	44 - 57
1,2,3,7,8,9-HXCDF		M+2/M+4	1.26	1.05-1.43	46.9	45 - 56
2,3,4,6,7,8-HXCDF		M+2/M+4	1.22	1.05-1.43	52.3	44 - 57
1,2,3,4,6,7,8-HPCDF		M+2/M+4	1.05	0.88-1.20	49.9	45 - 55
1,2,3,4,7,8,9-HPCDF		M+2/M+4	1.02	0.88-1.20	52.6	43 - 58
OCDF		M+2/M+4	0.89	0.76-1.02	97.6	63 - 159

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

(5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axy Internal Use Only [XSL Template: Form4A.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_DX9M_013S1__Form4A_SJ2508057.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 4B
PCDD/PCDF CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_013 S: 1

Instrument ID: HR GC/MS

Analysis Date: 01-Feb-2019

GC Column ID: DB5

Analysis Time: 11:56:38

LABELLED COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
13C-2,3,7,8-TCDD		M/M+2	0.80	0.65-0.89	100	82 - 121
13C-1,2,3,7,8-PECDD ⁵		M/M+2	0.63	0.52-0.70	92.5	62 - 160
13C-1,2,3,4,7,8-HXCDD		M+2/M+4	1.28	1.05-1.43	94.9	85 - 117
13C-1,2,3,6,7,8-HXCDD		M+2/M+4	1.24	1.05-1.43	102	85 - 118
13C-1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.10	0.88-1.20	93.5	72 - 138
13C-OCDD		M+2/M+4	0.89	0.76-1.02	188	96 - 415
13C-2,3,7,8-TCDF		M/M+2	0.79	0.65-0.89	106	71 - 140
13C-1,2,3,7,8-PECDF		M+2/M+4	1.59	1.32-1.78	89.7	76 - 130
13C-2,3,4,7,8-PECDF		M+2/M+4	1.58	1.32-1.78	92.0	77 - 130
13C-1,2,3,4,7,8-HXCDF		M/M+2	0.51	0.43-0.59	100	76 - 131
13C-1,2,3,6,7,8-HXCDF		M/M+2	0.52	0.43-0.59	107	70 - 143
13C-1,2,3,7,8,9-HXCDF		M/M+2	0.49	0.43-0.59	100	74 - 135
13C-2,3,4,6,7,8-HXCDF		M/M+2	0.55	0.43-0.59	104	73 - 137
13C-1,2,3,4,6,7,8-HPCDF		M/M+2	0.44	0.37-0.51	96.8	78 - 129
13C-1,2,3,4,7,8,9-HPCDF		M/M+2	0.44	0.37-0.51	92.1	77 - 129
CLEANUP STANDARD						
37CL-2,3,7,8-TCDD ⁶					10.5	7.9 - 12.7

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

(5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

(6) No ion abundance ratio for 37Cl4-2,3,7,8-TCDD; concentration reported.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley_____

For Axys Internal Use Only [XSL Template: Form4B.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_DX9M_013S1__Form4B_SJ2508057.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_013 S: 1

Instrument ID: HR GC/MS

Analysis Date: 01-Feb-2019

GC Column ID: DB5

Analysis Time: 11:56:38

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
2,3,7,8-TCDD		13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PECDD ³		13C-1,2,3,7,8-PECDD	1.001	0.999-1.002
1,2,3,4,7,8-HXCDD		13C-1,2,3,4,7,8-HXCDD	1.000	0.999-1.001
1,2,3,6,7,8-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.000	0.998-1.004
1,2,3,7,8,9-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.011	1.000-1.019
1,2,3,4,6,7,8-HPCDD		13C-1,2,3,4,6,7,8-HPCDD	1.000	0.999-1.001
OCDD		13C-OCDD	1.000	0.999-1.001
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PECDF		13C-1,2,3,7,8-PECDF	1.001	0.999-1.002
2,3,4,7,8-PECDF		13C-2,3,4,7,8-PECDF	1.001	0.999-1.002
1,2,3,4,7,8-HXCDF		13C-1,2,3,4,7,8-HXCDF	1.001	0.999-1.001
1,2,3,6,7,8-HXCDF		13C-1,2,3,6,7,8-HXCDF	1.000	0.997-1.005
1,2,3,7,8,9-HXCDF		13C-1,2,3,7,8,9-HXCDF	1.000	0.999-1.001
2,3,4,6,7,8-HXCDF		13C-2,3,4,6,7,8-HXCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HPCDF		13C-1,2,3,4,6,7,8-HPCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HPCDF		13C-1,2,3,4,7,8,9-HPCDF	1.000	0.999-1.001
OCDF		13C-OCDD	1.002	0.999-1.008

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

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

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Report Filename: 1613_DIOXINS_DX9M_013S1__Form6A_SJ2508057.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 6B
PCDD/PCDF RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_013 S: 1

Instrument ID: HR GC/MS

Analysis Date: 01-Feb-2019

GC Column ID: DB5

Analysis Time: 11:56:38

LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
LABELED COMPOUND			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.013	0.976-1.043
13C-1,2,3,7,8-PECDD	13C-1,2,3,4-TCDD	1.380	1.000-1.567
13C-1,2,3,4,7,8-HXCDD	13C-1,2,3,7,8,9-HXCDD	0.987	0.977-1.000
13C-1,2,3,6,7,8-HXCDD	13C-1,2,3,7,8,9-HXCDD	0.990	0.981-1.003
13C-1,2,3,4,6,7,8-HPCDD	13C-1,2,3,7,8,9-HXCDD	1.094	1.086-1.110
13C-OCDD	13C-1,2,3,7,8,9-HXCDD	1.178	1.032-1.311
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.966	0.923-1.103
13C-1,2,3,7,8-PECDF	13C-1,2,3,4-TCDD	1.282	1.000-1.425
13C-2,3,4,7,8-PECDF	13C-1,2,3,4-TCDD	1.349	1.011-1.526
13C-1,2,3,4,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.954	0.944-0.970
13C-1,2,3,6,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.958	0.949-0.975
13C-1,2,3,7,8,9-HXCDF	13C-1,2,3,7,8,9-HXCDD	1.004	0.977-1.047
13C-2,3,4,6,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.980	0.959-1.021
13C-1,2,3,4,6,7,8-HPCDF	13C-1,2,3,7,8,9-HXCDD	1.062	1.043-1.085
13C-1,2,3,4,7,8,9-HPCDF	13C-1,2,3,7,8,9-HXCDD	1.104	1.057-1.151
CLEANUP STANDARD			
37CL-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.001	0.989-1.052

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

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

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Report Filename: 1613_DIOXINS_DX9M_013S1__Form6B_SJ2508057.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 4A
PCDD/PCDF CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_013 S: 7

Instrument ID: HR GC/MS

Analysis Date: 01-Feb-2019

GC Column ID: DB5

Analysis Time: 17:41:39

COMPOUND	LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
2,3,7,8-TCDD		M/M+2	0.83	0.65-0.89	11.4	7.8 - 12.9
1,2,3,7,8-PECDD ⁵		M/M+2	0.61	0.52-0.70	51.4	39 - 65
1,2,3,4,7,8-HXCDD		M+2/M+4	1.29	1.05-1.43	53.2	39 - 64
1,2,3,6,7,8-HXCDD		M+2/M+4	1.20	1.05-1.43	53.5	39 - 64
1,2,3,7,8,9-HXCDD		M+2/M+4	1.25	1.05-1.43	52.1	41 - 61
1,2,3,4,6,7,8-HPCDD		M+2/M+4	1.02	0.88-1.20	50.2	43 - 58
OCDD		M+2/M+4	0.91	0.76-1.02	106	79 - 126
2,3,7,8-TCDF		M/M+2	0.75	0.65-0.89	10.1	8.4 - 12
1,2,3,7,8-PECDF		M+2/M+4	1.55	1.32-1.78	51.4	41 - 60
2,3,4,7,8-PECDF		M+2/M+4	1.57	1.32-1.78	52.6	41 - 61
1,2,3,4,7,8-HXCDF		M+2/M+4	1.22	1.05-1.43	53.2	45 - 56
1,2,3,6,7,8-HXCDF		M+2/M+4	1.26	1.05-1.43	50.3	44 - 57
1,2,3,7,8,9-HXCDF		M+2/M+4	1.22	1.05-1.43	46.8	45 - 56
2,3,4,6,7,8-HXCDF		M+2/M+4	1.21	1.05-1.43	49.0	44 - 57
1,2,3,4,6,7,8-HPCDF		M+2/M+4	0.99	0.88-1.20	50.1	45 - 55
1,2,3,4,7,8,9-HPCDF		M+2/M+4	1.05	0.88-1.20	50.7	43 - 58
OCDF		M+2/M+4	0.88	0.76-1.02	104	63 - 159

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

(5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

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Report Filename: 1613_DIOXINS_DX9M_013S7__Form4A_SJ2508064.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 4B
PCDD/PCDF CALIBRATION VERIFICATION

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_013 S: 7

Instrument ID: HR GC/MS

Analysis Date: 01-Feb-2019

GC Column ID: DB5

Analysis Time: 17:41:39

LAB FLAG ¹	MZ's FORMING RATIO ²	ION ABUND. RATIO	QC LIMITS ³	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL) ⁴
Labeled Compound					
13C-2,3,7,8-TCDD	M/M+2	0.80	0.65-0.89	96.3	82 - 121
13C-1,2,3,7,8-PECDD ⁵	M/M+2	0.62	0.52-0.70	93.0	62 - 160
13C-1,2,3,4,7,8-HXCDD	M+2/M+4	1.28	1.05-1.43	91.7	85 - 117
13C-1,2,3,6,7,8-HXCDD	M+2/M+4	1.21	1.05-1.43	105	85 - 118
13C-1,2,3,4,6,7,8-HPCDD	M+2/M+4	1.06	0.88-1.20	86.4	72 - 138
13C-OCDD	M+2/M+4	0.88	0.76-1.02	161	96 - 415
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	96.7	71 - 140
13C-1,2,3,7,8-PECDF	M+2/M+4	1.58	1.32-1.78	90.3	76 - 130
13C-2,3,4,7,8-PECDF	M+2/M+4	1.55	1.32-1.78	91.8	77 - 130
13C-1,2,3,4,7,8-HXCDF	M/M+2	0.51	0.43-0.59	94.1	76 - 131
13C-1,2,3,6,7,8-HXCDF	M/M+2	0.51	0.43-0.59	104	70 - 143
13C-1,2,3,7,8,9-HXCDF	M/M+2	0.53	0.43-0.59	94.2	74 - 135
13C-2,3,4,6,7,8-HXCDF	M/M+2	0.50	0.43-0.59	103	73 - 137
13C-1,2,3,4,6,7,8-HPCDF	M/M+2	0.46	0.37-0.51	87.7	78 - 129
13C-1,2,3,4,7,8,9-HPCDF	M/M+2	0.43	0.37-0.51	83.3	77 - 129
Cleanup Standard					
37CL-2,3,7,8-TCDD ⁶				10.0	7.9 - 12.7

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

(2) See Table 8, Method 1613, for m/z specifications.

(3) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(4) Contract-required concentration range as determined from the percent of the test concentration in Table 6, Method 1613, under VER.

(5) Alternate confirmation and quantitation ions used for native and labeled PECDD.

(6) No ion abundance ratio for 37Cl4-2,3,7,8-TCDD; concentration reported.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

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Report Filename: 1613_DIOXINS_DX9M_013S7__Form4B_SJ2508064.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 6A
PCDD/PCDF RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_013 S: 7

Instrument ID: HR GC/MS

Analysis Date: 01-Feb-2019

GC Column ID: DB5

Analysis Time: 17:41:39

COMPOUND	LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
2,3,7,8-TCDD		13C-2,3,7,8-TCDD	1.001	0.999-1.002
1,2,3,7,8-PECDD ³		13C-1,2,3,7,8-PECDD	1.000	0.999-1.002
1,2,3,4,7,8-HXCDD		13C-1,2,3,4,7,8-HXCDD	1.000	0.999-1.001
1,2,3,6,7,8-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.001	0.998-1.004
1,2,3,7,8,9-HXCDD		13C-1,2,3,6,7,8-HXCDD	1.011	1.000-1.019
1,2,3,4,6,7,8-HPCDD		13C-1,2,3,4,6,7,8-HPCDD	1.000	0.999-1.001
OCDD		13C-OCDD	1.000	0.999-1.001
2,3,7,8-TCDF		13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PECDF		13C-1,2,3,7,8-PECDF	1.001	0.999-1.002
2,3,4,7,8-PECDF		13C-2,3,4,7,8-PECDF	1.000	0.999-1.002
1,2,3,4,7,8-HXCDF		13C-1,2,3,4,7,8-HXCDF	1.000	0.999-1.001
1,2,3,6,7,8-HXCDF		13C-1,2,3,6,7,8-HXCDF	1.000	0.997-1.005
1,2,3,7,8,9-HXCDF		13C-1,2,3,7,8,9-HXCDF	1.001	0.999-1.001
2,3,4,6,7,8-HXCDF		13C-2,3,4,6,7,8-HXCDF	1.000	0.999-1.001
1,2,3,4,6,7,8-HPCDF		13C-1,2,3,4,6,7,8-HPCDF	1.000	0.999-1.001
1,2,3,4,7,8,9-HPCDF		13C-1,2,3,4,7,8,9-HPCDF	1.000	0.999-1.001
OCDF		13C-OCDD	1.002	0.999-1.008

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

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

(3) Alternate confirmation and quantitation ions used for native and labeled PECDD.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

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Report Filename: 1613_DIOXINS_DX9M_013S7__Form6A_SJ2508064.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 6B
PCDD/PCDF RELATIVE RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 03-Dec-2018

VER Data Filename: DX9M_013 S: 7

Instrument ID: HR GC/MS

Analysis Date: 01-Feb-2019

GC Column ID: DB5

Analysis Time: 17:41:39

LAB FLAG ¹	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS ²
LABELED COMPOUND			
13C-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.013	0.976-1.043
13C-1,2,3,7,8-PECDD	13C-1,2,3,4-TCDD	1.380	1.000-1.567
13C-1,2,3,4,7,8-HXCDD	13C-1,2,3,7,8,9-HXCDD	0.987	0.977-1.000
13C-1,2,3,6,7,8-HXCDD	13C-1,2,3,7,8,9-HXCDD	0.990	0.981-1.003
13C-1,2,3,4,6,7,8-HPCDD	13C-1,2,3,7,8,9-HXCDD	1.094	1.086-1.110
13C-OCDD	13C-1,2,3,7,8,9-HXCDD	1.178	1.032-1.311
13C-2,3,7,8-TCDF	13C-1,2,3,4-TCDD	0.966	0.923-1.103
13C-1,2,3,7,8-PECDF	13C-1,2,3,4-TCDD	1.283	1.000-1.425
13C-2,3,4,7,8-PECDF	13C-1,2,3,4-TCDD	1.349	1.011-1.526
13C-1,2,3,4,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.954	0.944-0.970
13C-1,2,3,6,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.958	0.949-0.975
13C-1,2,3,7,8,9-HXCDF	13C-1,2,3,7,8,9-HXCDD	1.004	0.977-1.047
13C-2,3,4,6,7,8-HXCDF	13C-1,2,3,7,8,9-HXCDD	0.980	0.959-1.021
13C-1,2,3,4,6,7,8-HPCDF	13C-1,2,3,7,8,9-HXCDD	1.062	1.043-1.085
13C-1,2,3,4,7,8,9-HPCDF	13C-1,2,3,7,8,9-HXCDD	1.104	1.057-1.151
CLEANUP STANDARD			
37CL-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.001	0.989-1.052

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

(2) Contract-required limits for Relative Retention Times (RRT) as specified in Table 2, Method 1613.

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

For Axys Internal Use Only [XSL Template: Form6B.xsl; Created: 05-Feb-2019 14:17:21; Application: XMLTransformer-1.17.5;
Report Filename: 1613_DIOXINS_DX9M_013S7__Form6B_SJ2508064.html; Workgroup: WG66481; Design ID: 3359]

SGS AXYS METHOD MLA-017 Rev 20

Form 5

PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

SGS AXYS ANALYTICAL SERVICES

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

Instrument ID:	HR GC/MS	Initial Calibration Date:	03-Dec-2018
RT Window Data Filename:	DX9M_013 S: 1	Analysis Date:	01-Feb-2019
DB-5 IS Data Filename:	DX9M_013 S: 1	Analysis Date:	01-Feb-2019
DB-225 IS Data Filename:		Analysis Date:	
		Time:	11:56:38
		Time:	11:56:38
		Time:	

DB5 RT WINDOW DEFINING STANDARDS RESULT

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	23:03	1,3,6,8-TCDF (F)	21:31
1,2,8,9-TCDD (L)	28:27	1,2,8,9-TCDF (L)	28:17
1,2,4,7,9-PECDD (F)	32:09	1,3,4,6,8-PECDF (F)	28:59
1,2,3,8,9-PECDD (L)	37:08	1,2,3,8,9-PECDF (L)	37:11
1,2,4,6,7,9-HXCDD (F)	40:05	1,2,3,4,6,8-HXCDF (F)	39:03
1,2,3,4,6,7-HXCDD (L)	42:45	1,2,3,4,8,9-HXCDF (L)	43:05
1,2,3,4,6,7,9-HPCDD (F)	45:52	1,2,3,4,6,7,8-HPCDF (F)	45:23
1,2,3,4,6,7,8-HPCDD (L)	46:46	1,2,3,4,7,8,9-HPCDF (L)	47:11

(F) = First eluting isomer (DB-5); (L) = Last eluting isomer (DB-5)

ISOMER SPECIFICITY (IS) TEST STANDARDS RESULT

Isomers	% Valley Height Between Compared Peaks	Isomers	% Valley Height Between Compared Peaks
1,2,3,4-TCDD 1,2,7,8-TCDD	0	1,2,3,8-TCDD 2,3,7,8-TCDD	17
1,2,7,8-TCDD 1,4,7,8-TCDD	0	2,3,4,7-TCDF 2,3,7,8-TCDF	N/A
1,4,7,8-TCDD 1,2,3,7-TCDD	0	2,3,7,8-TCDF 1,2,3,9-TCDF	N/A
1,2,3,7-TCDD 1,2,3,8-TCDD	DB-5 column; co-elute as per Figure 6 in Method		

These data are validated and reported as accurate and in accord with SGS AXYS Analytical Services Ltd. ISO17025 compliant quality assurance processes.

Signed: _____ Leanne Henley _____

Accreditation Scope																Serum	Solids							Tissue		Urine	Water	Water, Non-Potable							
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
BFR	BTBPE	SGS AXYS MLA-033	MLA-033		Y											Y							Y												
	DBDPE	SGS AXYS MLA-033	MLA-033		Y											Y							Y												
	HBB	SGS AXYS MLA-033	MLA-033		Y											Y							Y												
	PBEB	SGS AXYS MLA-033	MLA-033		Y											Y							Y												
Bisphenols	Bisphenol A	SGS AXYS MLA-113	MLA-113		Y																			Y											
	Bisphenol AF	SGS AXYS MLA-113	MLA-113		Y																			Y											
	Bisphenol B	SGS AXYS MLA-113	MLA-113		Y																			Y											
	Bisphenol E	SGS AXYS MLA-113	MLA-113		Y																			Y											
	Bisphenol F	SGS AXYS MLA-113	MLA-113		Y																			Y											
	Bisphenol S	SGS AXYS MLA-113	MLA-113		Y																				Y										
BPA and MPE	4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA)	SGS AXYS MLA-059	MLA-059																				Y												
	Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP)	SGS AXYS MLA-059	MLA-059																					Y											
	Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP)	SGS AXYS MLA-059	MLA-059																					Y											
	Mono-(3-carboxypropyl) phthalate (MCPHP)	SGS AXYS MLA-059	MLA-059																					Y											
	Mono-2-ethylhexyl phthalate (MEHP)	SGS AXYS MLA-059	MLA-059																					Y											
	Mono-benzyl phthalate (MBzP)	SGS AXYS MLA-059	MLA-059																					Y											
	Mono-butyl phthalate (MBP) (n + iso)	SGS AXYS MLA-059	MLA-059																					Y											
	Mono-cyclohexyl phthalate (MCHP)	SGS AXYS MLA-059	MLA-059																					Y											
	Mono-ethyl phthalate (MEP)	SGS AXYS MLA-059	MLA-059																						Y										
	Mono-iso-nonyl phthalate (MiNP)	SGS AXYS MLA-059	MLA-059																						Y										
Mono-methyl phthalate (MMP)	SGS AXYS MLA-059	MLA-059																					Y												
HBCDD	alpha-hexabromocyclododecane (a-HBCDD)	SGS AXYS MLA-070	MLA-070	Y																															
	beta-hexabromocyclododecane (b-HBCDD)	SGS AXYS MLA-070	MLA-070	Y																															
	gamma-hexabromocyclododecane (g-HBCDD)	SGS AXYS MLA-070	MLA-070	Y																															
OC Pesticides	"Organochlorine Pesticides" category (CA only)	EPA 608	MLA-007																						Y										
		EPA 625	MLA-007																						Y										
		EPA 8081	MLA-007			Y																													
	"Pesticides" category (CA only)	EPA 8270	MLA-007			Y																													
	2,4'-DDD	EPA 625	MLA-007																							Y								Y	
		EPA 8270	MLA-007				Y					Y			Y																				
		EPA 1699	MLA-028				Y							Y												Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y					Y	Y			Y	Y	Y							Y	Y	Y			Y				Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y	Y	Y							Y	Y	Y			Y				Y		
		EPA 625	MLA-007																							Y								Y	
	2,4'-DDE	EPA 8270	MLA-007				Y					Y			Y																				
		EPA 1699	MLA-028				Y								Y											Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y			Y	Y	Y							Y	Y	Y			Y				Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y	Y	Y							Y	Y	Y			Y				Y		
		EPA 625	MLA-007																							Y								Y	
		EPA 8270	MLA-007				Y					Y			Y																				
	2,4'-DDT	EPA 1699	MLA-028				Y								Y											Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y			Y	Y	Y							Y	Y	Y			Y				Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y	Y	Y							Y	Y	Y			Y				Y		
		EPA 625	MLA-007																							Y								Y	
		EPA 8270	MLA-007				Y					Y			Y																				
		EPA 1699	MLA-028				Y								Y											Y								Y	
	4,4'-DDD	SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y			Y	Y	Y							Y	Y	Y			Y				Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y	Y	Y							Y	Y	Y			Y				Y		
		EPA 625	MLA-007																							Y								Y	
		EPA 8270	MLA-007				Y					Y	Y	Y	Y	Y	Y																	Y	
		EPA 1699	MLA-028				Y								Y											Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y			Y	Y	Y							Y	Y	Y			Y				Y		
	4,4'-DDE	SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y	Y	Y							Y	Y	Y			Y				Y		
		EPA 625	MLA-007																																
		EPA 8270	MLA-007				Y					Y	Y	Y	Y	Y	Y																		

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SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID																															
	4,4'-DDT	EPA 1699	MLA-028				Y							Y											Y							Y		
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y							Y	Y				Y			Y			
		SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y							Y	Y								Y		
		EPA 625	MLA-007																						Y		Y	Y		Y		Y		
	Aldrin	EPA 8270	MLA-007				Y			Y	Y	Y	Y	Y																				
		EPA 1699	MLA-028				Y							Y											Y							Y		
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y		Y					Y	Y				Y			Y			
		SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y		Y					Y	Y							Y			
	Alpha-HCH	EPA 625	MLA-007																						Y		Y	Y		Y		Y		
		EPA 8270	MLA-007				Y			Y	Y	Y	Y	Y																			Y	
		EPA 1699	MLA-028				Y								Y										Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y		Y					Y	Y				Y			Y			
	Beta-HCH	SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y							Y	Y								Y		
		EPA 625	MLA-007																						Y		Y	Y		Y		Y		
		EPA 8270	MLA-007				Y			Y	Y	Y	Y	Y											Y								Y	
		EPA 1699	MLA-028				Y								Y										Y								Y	
	Chlordane, technical	SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y									Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y						Y	Y								Y		
		EPA 8270	MLA-007				Y			Y	Y		Y	Y											Y		Y	Y		Y		Y		
		SGS AXYS MLA-007	MLA-007				Y								Y										Y								Y	
	cis-Chlordane (alpha-Chlordane)	EPA 8270	MLA-007				Y			Y		Y	Y	Y											Y		Y					Y		
		EPA 1699	MLA-028				Y								Y										Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y							Y		Y		Y						Y	Y								Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y						Y	Y								Y		
	cis-Nonachlor	EPA 8270	MLA-007				Y					Y	Y												Y								Y	
		EPA 1699	MLA-028				Y								Y										Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y							Y		Y		Y						Y	Y								Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y						Y	Y								Y		
	Delta-HCH	EPA 8270	MLA-007				Y					Y	Y												Y								Y	
		EPA 1699	MLA-028				Y								Y										Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y							Y		Y		Y						Y	Y							Y			
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y						Y	Y								Y		
	Dieldrin	EPA 608	MLA-007																						Y			Y	Y		Y		Y	
		EPA 8081	MLA-007				Y			Y	Y	Y	Y	Y																				
		EPA 1699	MLA-028				Y								Y										Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y							Y		Y		Y						Y	Y									Y	
	Endosulphan I	SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y						Y	Y									Y		
		EPA 608	MLA-007																						Y			Y	Y		Y		Y	
		EPA 8081	MLA-007				Y			Y	Y	Y	Y	Y																				
		EPA 1699	MLA-028				Y								Y										Y								Y	
	Endosulphan II	SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y									Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y						Y	Y								Y		
		EPA 608	MLA-007																						Y			Y	Y		Y		Y	
		EPA 8081	MLA-007				Y			Y	Y	Y	Y	Y																				

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum								Tissue						Urine		Water		Water, Non-Potable												
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
		EPA 1699	MLA-028				Y							Y											Y								Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y	Y					Y			Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y						Y	Y	Y								Y		
		EPA 608	MLA-007																									Y	Y		Y		Y	
	Endosulphan sulphate	EPA 8081	MLA-007			Y			Y	Y	Y	Y	Y																					
		EPA 1699	MLA-028			Y								Y										Y									Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y	Y					Y			Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y						Y	Y	Y								Y		
	Endrin	EPA 608	MLA-007																					Y			Y	Y		Y		Y		
		EPA 8081	MLA-007			Y				Y	Y	Y	Y	Y																				
		EPA 1699	MLA-028			Y								Y										Y									Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y	Y					Y			Y		
	Endrin aldehyde	SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y						Y	Y	Y								Y		
		EPA 608	MLA-007																					Y			Y	Y		Y		Y		
		EPA 8081	MLA-007			Y				Y	Y	Y	Y	Y																				
		EPA 1699	MLA-028			Y								Y										Y									Y	
	Endrin ketone	SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y	Y					Y			Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y						Y	Y	Y								Y		
		EPA 8081	MLA-007			Y				Y		Y		Y																				
		EPA 1699	MLA-028			Y								Y										Y									Y	
	Gamma-HCH (Lindane)	SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y	Y					Y			Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y						Y	Y	Y								Y		
		EPA 625	MLA-007																					Y			Y	Y		Y		Y		
		EPA 8270	MLA-007			Y				Y	Y	Y	Y	Y																				
	Heptachlor	EPA 1699	MLA-028			Y								Y										Y									Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y	Y					Y			Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y						Y	Y	Y								Y		
		EPA 625	MLA-007																					Y			Y	Y		Y		Y		
	Heptachlor epoxide	EPA 8270	MLA-007			Y				Y	Y	Y	Y	Y																				
		EPA 1699	MLA-028			Y								Y										Y									Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y	Y					Y			Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y						Y	Y	Y								Y		
	Hexachlorobenzene	EPA 608	MLA-007																					Y			Y	Y		Y		Y		
		EPA 8081	MLA-007			Y				Y	Y	Y	Y	Y										Y										
		EPA 1699	MLA-028			Y								Y										Y										
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y	Y					Y			Y		
	Methoxychlor	SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y						Y	Y	Y								Y		
		EPA 608	MLA-007																					Y			Y	Y		Y		Y		
		EPA 8081	MLA-007			Y				Y	Y	Y	Y	Y										Y										
		EPA 1699	MLA-028			Y								Y										Y									Y	
	Mirex	SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y	Y					Y			Y		
		SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y		Y						Y	Y	Y								Y		
		EPA 8270	MLA-007			Y				Y		Y		Y										Y			Y	Y		Y		Y		
		EPA 1699	MLA-028			Y								Y										Y									Y	
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y		Y		Y						Y	Y	Y					Y			Y		

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		PCB Aroclor 1016/1242	EPA 8270	MLA-007									Y																								
	PCB Aroclor 1221	EPA 1668	MLA-010			Y								Y	Y											Y					Y		Y				
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	PCB Aroclor 1242	EPA 1668	MLA-010			Y								Y	Y			Y						Y		Y				Y		Y					
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		PCB Aroclor 1248	EPA 1668	MLA-010			Y								Y	Y										Y				Y		Y					
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	PCB Aroclor 1254	EPA 1668	MLA-010			Y									Y	Y										Y							Y				
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	PCB congeners	PCB 1 2-Chlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y								Y			Y		Y	Y	Y	Y		Y	Y			
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PCB 101 2,2',4,5,5'-Pentachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y			Y		Y	Y	Y	Y		Y	Y				

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Accreditation Scope				Serum										Tissue					Urine		Water		Water, Non-Potable											
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41				Solids																														
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	PCB 118 2,3',4,4',5-Pentachlorobiphenyl	EPA 1668	MLA-010				Y														Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y								Y		
		SGS AXYS MLA-901	MLA-901	Y																														
	PCB 118/106	EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-007	MLA-007		Y											Y						Y		Y										
	PCB 119 2,3',4,4',6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y								Y		
	PCB 12 3,4-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y								Y		
	PCB 12/13	EPA 8270	MLA-007									Y																						
	PCB 120 2,3',4,5,5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 121 2,3',4,5',6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 122 2,3,3',4',5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 123 2,3',4,4',5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 124 2,3',4',5,5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 125 2,3',4',5',6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 126 3,3',4,4',5-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 127 3,3',4,5,5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 128 2,2',3,3',4,4'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 129 2,2',3,3',4,5-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 13 3,4'-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 130 2,2',3,3',4,5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
	PCB 131 2,2',3,3',4,6-Hexachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y	Y	Y		Y						Y		
		SGS AXYS MLA-007	MLA-007		Y											Y							Y		Y									
	PCB 131/142	EPA 8270	MLA-007									Y																						

Accreditation Scope																Serum	Solids													Tissue		Urine	Water	Water, Non-Potable													
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																		California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **		California DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025		California	California	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **													
		SGS AXYS MLA-007	MLA-007		Y											Y						Y	Y																								
	PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y										Y														
	PCB 132/168	EPA 8270	MLA-007									Y																																			
	PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y					Y	Y	Y	Y	Y		Y	Y															
		EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y									Y															
	PCB 134 2,2',3,3',5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y		Y	Y		Y	Y	Y	Y	Y		Y	Y															
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y									Y															
	PCB 134/143	EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-007	MLA-007		Y											Y								Y																							
	PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y		Y							Y															
	PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y		Y							Y															
		SGS AXYS MLA-007	MLA-007		Y											Y						Y		Y																							
	PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y		Y							Y															
		SGS AXYS MLA-007	MLA-007		Y											Y						Y		Y																							
	PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y		Y							Y															
		SGS AXYS MLA-901	MLA-901	Y																																											
	PCB 138/163/164	EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-007	MLA-007		Y											Y								Y																							
	PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y		Y							Y															
	PCB 14 3,5-Dichlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y					Y	Y	Y	Y	Y	Y	Y	Y	Y														
		EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y									Y															
	PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y		Y							Y															
	PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y					Y	Y	Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y		Y							Y															
	PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y									Y															
	PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y									Y															
	PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y									Y															
	PCB 144/135	EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-007	MLA-007		Y											Y								Y																							
	PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y					Y	Y	Y	Y	Y		Y	Y															
		EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y	Y		Y							Y															
	PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y		Y	Y															
		EPA 8270	MLA-007									Y																																			

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file ref.: ACC-101 Rev. 41

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum										Tissue					Urine		Water		Water, Non-Potable											
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	PCB 147 2,2',3,4',5,6-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y							Y		
		SGS AXYS MLA-007	MLA-007		Y												Y					Y												
		SGS AXYS MLA-901	MLA-901	Y																														
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 148 2,2',3,4',5,6'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 149 2,2',3,4',5',6-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 149/139	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010																															
		EPA 8270	MLA-007									Y																						
	PCB 15 4,4'-Dichlorobiphenyl	SGS AXYS MLA-007	MLA-007		Y											Y							Y											
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 150 2,2',3,4',6,6'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y										
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 151 2,2',3,5,5',6-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 152 2,2',3,5,6,6'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 153 2,2',4,4',5,5'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 154 2,2',4,4',5,6'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 155 2,2',4,4',6,6'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 156 2,3,3',4,4',5-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
	PCB 157 2,3,3',4,4',5'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y												Y		Y	Y	Y	Y		Y	Y
		EPA 8270	MLA-007									Y																						
	PCB 158 2,3,3',4,4',6-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 1668	MLA-010																															
		EPA 8270	MLA-007																															
	PCB 159 2,3,3',4,4',5'-Hexachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		EPA 1668	MLA-010			Y		Y	Y	Y	Y	Y	Y	Y																				
		EPA 8270	MLA-007																															
	PCB 160	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y		Y							Y	
		EPA 1668	MLA-010																															
		EPA 8270	MLA-007									Y																						

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SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																		California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **												
		EPA 8270	MLA-007									Y																																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y								Y													
	PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y													
		SGS AXYS MLA-007	MLA-007		Y											Y					Y		Y																							
	PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y													
		SGS AXYS MLA-007	MLA-007		Y											Y					Y		Y																							
	PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010					Y	Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y											Y												
		SGS AXYS MLA-901	MLA-901	Y																																										
		EPA 8270	MLA-007										Y																																	
	PCB 187/182	EPA 8270	MLA-007										Y																																	
		SGS AXYS MLA-007	MLA-007		Y											Y																														
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y					Y		Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
	PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl	EPA 8270	MLA-007										Y																																	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y																					
	PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
		SGS AXYS MLA-007	MLA-007		Y											Y								Y		Y																				
	PCB 19 2,2',6-Trichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
		SGS AXYS MLA-007	MLA-007		Y											Y								Y		Y																				
	PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y																					
	PCB 191 2,3,3',4,4',5',6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
		SGS AXYS MLA-007	MLA-007		Y											Y																														
	PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y																					
	PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
		SGS AXYS MLA-007	MLA-007		Y											Y																														
	PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
		SGS AXYS MLA-007	MLA-007		Y											Y																														
	PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
		SGS AXYS MLA-007	MLA-007		Y											Y																														
	PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y		Y								Y													
		EPA 8270	MLA-007										Y																																	
PCB 196/203	SGS AXYS MLA-007	MLA-007		Y											Y																															

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Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 41

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y	Y		Y	Y						Y		
		SGS AXYS MLA-007	MLA-007		Y											Y							Y										
	PCB 21 2,3,4-Trichlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
	PCB 22 2,3,4'-Trichlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																					
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y									
	PCB 23 2,3,5-Trichlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
	PCB 23/34	EPA 8270	MLA-007									Y																					
	PCB 24 2,3,6-Trichlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
	PCB 24/27	EPA 8270	MLA-007									Y																					
		SGS AXYS MLA-007	MLA-007		Y												Y							Y									
	PCB 25 2,3',4-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y	Y	Y	Y	Y		Y	Y
		EPA 8270	MLA-007									Y																					
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y									
	PCB 26 2,3',5-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																					
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y									
	PCB 27 2,3',6-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
	PCB 28 2,4,4'-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																					
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y									
	PCB 29 2,4,5-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
	PCB 3 4-Chlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																					
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
	PCB 30 2,4,6-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
	PCB 31 2,4',5-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																					
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y									
	PCB 32 2,4',6-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
	PCB 33 2,3',4'-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
	PCB 33/20/21	EPA 8270	MLA-007									Y																					
		SGS AXYS MLA-007	MLA-007		Y												Y							Y									
	PCB 34 2,3',5'-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y					Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y									
	PCB 35 3,3',4-Trichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y		Y	Y	

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SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																				California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **		California DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025		CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **													
	PCB 36 3,3',5-Trichlorobiphenyl	EPA 8270	MLA-007								Y																																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y		Y							Y															
	PCB 37 3,4,4'-Trichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y						Y							Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																				
	PCB 38 3,4,5-Trichlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y		Y								Y														
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y						Y		Y	Y	Y	Y		Y	Y														
	PCB 39 3,4',5-Trichlorobiphenyl	EPA 8270	MLA-007									Y																																					
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y		Y								Y														
	PCB 4 2,2'-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y						Y		Y	Y	Y	Y		Y	Y														
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y		Y								Y														
	PCB 40 2,2',3,3'-Tetrachlorobiphenyl	EPA 8270	MLA-007									Y																																					
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y						Y		Y	Y	Y	Y		Y	Y														
	PCB 41 2,2',3,4-Tetrachlorobiphenyl	EPA 8270	MLA-007										Y																																				
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y		Y								Y														
	PCB 41/71/64/68	EPA 8270	MLA-007										Y																																				
		SGS AXYS MLA-007	MLA-007			Y																																											
	PCB 42 2,2',3,4'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y						Y		Y	Y	Y	Y		Y	Y														
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y		Y								Y														
	PCB 42/59	EPA 8270	MLA-007									Y																																					
		SGS AXYS MLA-007	MLA-007			Y																																											
	PCB 43 2,2',3,5-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y						Y		Y	Y	Y	Y		Y	Y														
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y		Y								Y														
	PCB 44 2,2',3,5'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y						Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																				
	PCB 45 2,2',3,6-Tetrachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y		Y								Y														
		SGS AXYS MLA-007	MLA-007			Y																																											
	PCB 46 2,2',3,6'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y						Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																				
	PCB 47 2,2',4,4'-Tetrachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y		Y								Y														
		SGS AXYS MLA-007	MLA-007			Y																																											
	PCB 47/48/75	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y						Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																				
	PCB 48 2,2',4,5-Tetrachlorobiphenyl	SGS AXYS MLA-007	MLA-007			Y																																											
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y						Y		Y	Y	Y	Y		Y	Y														
	PCB 49 2,2',4,5'-Tetrachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y		Y		Y	Y	Y	Y		Y	Y														
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y						Y		Y	Y	Y	Y		Y	Y														

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																		California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **		California DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025		CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **													
		SGS AXYS MLA-010	MLA-010	Y	Y									Y		Y					Y	Y		Y									Y														
	PCB 49/43	EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-007	MLA-007		Y												Y							Y																							
	PCB 5 2,3-Dichlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y														
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 50 2,2',4,6-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
		SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y																					
	PCB 51 2,2',4,6'-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 52 2,2',5,5'-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 52/73	EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y																					
	PCB 53 2,2',5,6'-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 54 2,2',6,6'-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 55 2,3,3',4-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 56 2,3,3',4'-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 56/60	EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y																					
	PCB 57 2,3,3',5-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 58 2,3,3',5'-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 59 2,3,3',6-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 6 2,3'-Dichlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 60 2,3,4,4'-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 61 2,3,4,5-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 62 2,3,4,6-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y														
	PCB 62/65	EPA 8270	MLA-007										Y																																		
	PCB 63 2,3,4',5-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y														
	EPA 8270	MLA-007										Y																																			
	SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y		Y							Y															

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file ref.: ACC-101 Rev. 41

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
	PCB 64 2,3,4',6-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y			Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y			Y			
	PCB 65 2,3,5,6-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y			Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 66 2,3',4,4'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y				Y	Y	Y	Y	Y	Y			Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 66/80	EPA 8270	MLA-007										Y									Y				Y	Y							Y	
		SGS AXYS MLA-007	MLA-007		Y								Y									Y			Y		Y								
	PCB 67 2,3',4,5-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		EPA 8270	MLA-007										Y																						
	PCB 68 2,3',4,5'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 69 2,3',4,6-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 7 2,4-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 7/9	EPA 8270	MLA-007										Y																						
	PCB 70 2,3',4',5-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 70/76	EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-007	MLA-007		Y																	Y			Y										
	PCB 71 2,3',4',6-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 72 2,3',5,5'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 73 2,3',5',6-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 74 2,4,4',5-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
		SGS AXYS MLA-901	MLA-901	Y																															
	PCB 74/61	EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-007	MLA-007		Y																	Y			Y										
	PCB 75 2,4,4',6-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 76 2,3',4',5'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 77 3,3',4,4'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
		SGS AXYS MLA-007	MLA-007		Y																	Y		Y		Y									
	PCB 78 3,3',4,5-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 79 3,3',4,5'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y	Y	Y	Y	Y	Y			Y	Y	
	PCB 8 2,4'-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y							Y				Y	Y	Y	Y	Y	Y			Y	Y

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 41

Accreditation Scope				Serum	Solids											Tissue	Urine	Water	Water, Non-Potable															
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																		
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
		SGS AXYS MLA-010	MLA-010	Y	Y									Y		Y					Y		Y		Y								Y	
	PCB 8/5	EPA 8270	MLA-007									Y									Y													
		SGS AXYS MLA-007	MLA-007		Y												Y						Y											
	PCB 80 3,3',5,5'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 81 3,4,4',5-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 82 2,2',3,3',4-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 83 2,2',3,3',5-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 83/108	EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-007	MLA-007		Y												Y						Y											
	PCB 84 2,2',3,3',6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
		SGS AXYS MLA-007	MLA-007		Y												Y						Y		Y									
	PCB 85 2,2',3,4,4'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 85/120	EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-007	MLA-007		Y												Y						Y											
	PCB 86 2,2',3,4,5-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 87 2,2',3,4,5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 87/115/116	EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-007	MLA-007		Y												Y						Y											
	PCB 88 2,2',3,4,6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 88/121	EPA 8270	MLA-007									Y																						
	PCB 89 2,2',3,4,6'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 9 2,5-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 90 2,2',3,4',5-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 91 2,2',3,4',6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
		SGS AXYS MLA-007	MLA-007		Y												Y						Y											
	PCB 92 2,2',3,5,5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 93 2,2',3,5,6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	
	PCB 94 2,2',3,5,6'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y		Y							Y		Y					Y		Y		Y								Y	

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SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																			
				Serum	Solids									Tissue						Urine	Water	Water, Non-Potable													
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
	PCB 95 2,2',3,5',6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y							Y				Y		Y					Y	Y		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y								Y			
	PCB 95/93	EPA 8270	MLA-007									Y																							
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
	PCB 96 2,2',3,6,6'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y					Y		Y		Y							Y		
	PCB 97 2,2',3,4',5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y					Y		Y		Y							Y		
	PCB 97/86	EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
	PCB 98 2,2',3,4',6'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y								Y				Y		Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y											Y						Y		Y		Y							Y	
	PCB 98/102	EPA 8270	MLA-007										Y																						
	PCB 99 2,2',4,4',5-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y								Y				Y		Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y					Y		Y		Y							Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
		SGS AXYS MLA-901	MLA-901	Y																															
	PCB congeners, total	EPA 1668	MLA-010								Y																		Y						
		EPA 1668	MLA-010												Y							Y											Y		
	Sum - Dichlorobiphenyls (BZ-12+ BZ-13)	SGS AXYS MLA-010	MLA-010												Y							Y												Y	
	Sum - Heptachlorobiphenyls (BZ-171 + BZ-173)	EPA 1668	MLA-010												Y							Y												Y	
		SGS AXYS MLA-010	MLA-010												Y							Y												Y	
	Sum - Heptachlorobiphenyls (BZ-180 + BZ-193)	EPA 1668	MLA-010												Y							Y												Y	
		SGS AXYS MLA-010	MLA-010												Y							Y												Y	
	Sum - Heptachlorobiphenyls (BZ-183 + BZ-185)	EPA 1668	MLA-010												Y							Y												Y	
		SGS AXYS MLA-010	MLA-010												Y							Y												Y	
	Sum - Hexachlorobiphenyls (BZ-128 + BZ-166)	EPA 1668	MLA-010												Y							Y												Y	
		SGS AXYS MLA-010	MLA-010												Y							Y												Y	
	Sum - Hexachlorobiphenyls (BZ-129 + BZ-138 + BZ-160 + BZ-163)	EPA 1668	MLA-010												Y							Y												Y	
		SGS AXYS MLA-010	MLA-010												Y							Y												Y	
	Sum - Hexachlorobiphenyls (BZ-134 + BZ-143)	EPA 1668	MLA-010												Y							Y												Y	
		SGS AXYS MLA-010	MLA-010												Y							Y												Y	
	Sum - Hexachlorobiphenyls (BZ-135 + BZ-151 + BZ-154)	EPA 1668	MLA-010												Y							Y												Y	
		SGS AXYS MLA-010	MLA-010												Y							Y												Y	
Sum - Hexachlorobiphenyls (BZ-139 + BZ-140)	EPA 1668	MLA-010												Y							Y												Y		
	SGS AXYS MLA-010	MLA-010												Y							Y												Y		
Sum - Hexachlorobiphenyls (BZ-147 + BZ-149)	EPA 1668	MLA-010												Y							Y												Y		
	SGS AXYS MLA-010	MLA-010												Y							Y												Y		
Sum - Hexachlorobiphenyls (BZ-153 + BZ-168)	EPA 1668	MLA-010												Y							Y												Y		
	SGS AXYS MLA-010	MLA-010												Y							Y												Y		
Sum - Hexachlorobiphenyls (BZ-156 + BZ-157)	EPA 1668	MLA-010												Y							Y												Y		
	SGS AXYS MLA-010	MLA-010												Y							Y												Y		
Sum - Pentachlorobiphenyls (BZ-107 + BZ-124)	EPA 1668	MLA-010												Y							Y												Y		
	SGS AXYS MLA-010	MLA-010												Y							Y												Y		
Sum - Pentachlorobiphenyls (BZ-108 + BZ-124)	EPA 1668	MLA-010												Y							Y												Y		
	SGS AXYS MLA-010	MLA-010												Y							Y												Y		
Sum - Pentachlorobiphenyls (BZ-110 + BZ-115)	EPA 1668	MLA-010												Y							Y												Y		
	SGS AXYS MLA-010	MLA-010												Y							Y												Y		

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	Sum - Pentachlorobiphenyls (BZ-83 + BZ-99)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Pentachlorobiphenyls (BZ-85 + BZ-116 + BZ-117)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Pentachlorobiphenyls (BZ-86 + BZ-87 + BZ 97 + BZ-109 + BZ-119 + BZ-125)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Pentachlorobiphenyls (BZ-86 + BZ-87 + BZ-97 + BZ-108 + BZ-119 +BZ-125)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Pentachlorobiphenyls (BZ-88 + BZ-91)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Pentachlorobiphenyls (BZ-90 + BZ-101 + BZ-113)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Pentachlorobiphenyls (BZ-93 + BZ-95 + BZ-98 + BZ-100 + BZ-102)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Tetrachlorobiphenyls (BZ-40 + BZ-41 + BZ-71)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Tetrachlorobiphenyls (BZ-44 + BZ-47 + BZ-65)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Tetrachlorobiphenyls (BZ-45 + BZ-51)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Tetrachlorobiphenyls (BZ-49 + BZ-69)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Tetrachlorobiphenyls (BZ-50 + BZ-53)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Tetrachlorobiphenyls (BZ-59 + BZ-62 + BZ-75)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Tetrachlorobiphenyls (BZ-61 + BZ-70 + BZ-74 + BZ-76)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Trichlorobiphenyls (BZ-18 + BZ-30)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Trichlorobiphenyls (BZ-20 + BZ-28)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Trichlorobiphenyls (BZ-21 + BZ-33)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Sum - Trichlorobiphenyls (BZ-26 + BZ-29)	EPA 1668	MLA-010											Y						Y													Y	
		SGS AXYS MLA-010	MLA-010											Y						Y													Y	
	Total Dichlorobiphenyls	EPA 1668	MLA-010											Y						Y														Y
		EPA 8270	MLA-007										Y																					
		SGS AXYS MLA-010	MLA-010		Y	Y								Y			Y			Y			Y		Y									Y
		SGS AXYS MLA-007	MLA-007			Y											Y							Y		Y								
Total Heptachlorobiphenyls	EPA 1668	MLA-010											Y						Y														Y	
	EPA 8270	MLA-007										Y																						
	SGS AXYS MLA-010	MLA-010		Y	Y								Y			Y			Y			Y		Y									Y	
	SGS AXYS MLA-007	MLA-007			Y											Y							Y		Y									
Total Hexachlorobiphenyls	EPA 1668	MLA-010											Y						Y														Y	
	EPA 8270	MLA-007										Y																						
	SGS AXYS MLA-010	MLA-010		Y	Y								Y			Y			Y			Y		Y									Y	
	SGS AXYS MLA-007	MLA-007			Y											Y							Y		Y									
Total Monochlorobiphenyls	EPA 1668	MLA-010											Y						Y														Y	
	SGS AXYS MLA-010	MLA-010		Y	Y								Y			Y			Y			Y		Y									Y	

Accreditation Scope																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 41

ACC-103, Rev. 44, 17-Jan-2019

Accreditation Scope																																			
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
	Total PeCDF	EPA 1613	MLA-017											Y						Y					Y					Y		Y			
		EPA 8290	MLA-017				Y		Y		Y		Y	Y			Y		Y	Y	Y	Y			Y			Y				Y			
		SGS AXYS MLA-017	MLA-017				Y							Y			Y				Y				Y								Y		
	Total TCDD	EPA 1613	MLA-017												Y					Y					Y							Y		Y	
		EPA 8290	MLA-017				Y		Y		Y		Y	Y			Y		Y	Y	Y	Y			Y			Y				Y			
		SGS AXYS MLA-017	MLA-017				Y							Y			Y				Y				Y								Y		
	Total TCDF	EPA 1613	MLA-017												Y					Y					Y						Y		Y		
		EPA 8290	MLA-017				Y		Y		Y		Y	Y			Y		Y	Y	Y	Y			Y			Y				Y			
		SGS AXYS MLA-017	MLA-017				Y							Y			Y				Y				Y								Y		
PFAS	4:2 Fluorotelomersulfonate (4:2 FTS)	SGS AXYS MLA-081	MLA-081											Y																			Y		
		SGS AXYS MLA-089	MLA-089												Y																				
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	6:2 Fluorotelomersulfonate (6:2 FTS)	SGS AXYS MLA-081	MLA-081																															Y	
		SGS AXYS MLA-089	MLA-089												Y																				
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	8:2 Fluorotelomersulfonate (8:2 FTS)	SGS AXYS MLA-081	MLA-081																															Y	
		SGS AXYS MLA-089	MLA-089												Y																				
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	N-Ethylperfluorooctanesulfonamide (N-EtFOSA)	SGS AXYS MLA-110	MLA-110		Y							Y												Y						Y					
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE)	SGS AXYS MLA-110	MLA-110		Y							Y												Y					Y						
	N-Methylperfluorooctanesulfonamide (N-MeFOSA)	SGS AXYS MLA-110	MLA-110		Y							Y												Y					Y						
	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	SGS AXYS MLA-110	MLA-110		Y							Y												Y					Y						
	Perfluorobutanesulfonate (PFBS)	SGS AXYS MLA-060	MLA-060																					Y	Y	Y	Y						Y		
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y						Y																				
		SGS AXYS MLA-043	MLA-043														Y	Y	Y	Y	Y	Y													
		SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	Perfluorobutanoate (PFBA)	SGS AXYS MLA-060	MLA-060																					Y	Y	Y	Y						Y		
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y						Y																				
		SGS AXYS MLA-043	MLA-043														Y	Y	Y	Y	Y	Y													
		SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	Perfluorodecanesulfonate (PFDS)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	Perfluorodecanoate (PFDA)	SGS AXYS MLA-060	MLA-060																					Y	Y	Y	Y						Y		
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y						Y																				
		SGS AXYS MLA-043	MLA-043														Y	Y	Y	Y	Y	Y													
		SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	Perfluorododecanesulfonate (PFDoS)	SGS AXYS MLA-110	MLA-110		Y							Y												Y					Y						
	Perfluorododecanoate (PFDoA)	SGS AXYS MLA-060	MLA-060																					Y	Y	Y	Y						Y		
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y						Y																				
		SGS AXYS MLA-043	MLA-043														Y	Y	Y	Y	Y	Y													
		SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	Perfluoroheptanesulfonate (PFHpS)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y	Y	Y		Y		Y		Y	Y		
	Perfluoroheptanoate (PFHpA)	SGS AXYS MLA-060	MLA-060																					Y	Y	Y	Y						Y		
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y						Y																				
		SGS AXYS MLA-043	MLA-043														Y	Y	Y	Y	Y	Y													

Accreditation Scope

SGS AXYS Analytical Services Ltd.

file ref.: ACC-101 Rev. 41

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	4-Epianhydrochlortetracycline (EACTC)	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	4-Epianhydrotetracycline (EATC)	EPA 1694	MLA-075								Y																				Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	4-Epichlortetracycline (ECTC)	EPA 1694	MLA-075								Y																				Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	4-Epioxytetracycline (EOTC)	EPA 1694	MLA-075								Y																				Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	4-Epitetracycline (ETC)	EPA 1694	MLA-075								Y																				Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Acetaminophen	EPA 1694	MLA-075								Y																				Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Albuterol	EPA 1694	MLA-075								Y																				Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Alprazolam	SGS AXYS MLA-075	MLA-075		Y																			Y										
	Amitriptyline	SGS AXYS MLA-075	MLA-075		Y																			Y										
	Amlodipine	SGS AXYS MLA-075	MLA-075		Y																			Y										
	Amphetamine	SGS AXYS MLA-075	MLA-075		Y																			Y										
	Anhydrochlortetracycline (ACTC)	EPA 1694	MLA-075									Y																			Y			
		SGS AXYS MLA-075	MLA-075		Y																			Y										
	Anhydrotetracycline (ATC)	EPA 1694	MLA-075									Y																			Y			
		SGS AXYS MLA-075	MLA-075		Y																			Y										
	Atenolol	SGS AXYS MLA-075	MLA-075		Y																			Y										
	Atorvastatin	SGS AXYS MLA-075	MLA-075		Y																			Y										
	Azithromycin	EPA 1694	MLA-075									Y																			Y			
		SGS AXYS MLA-075	MLA-075		Y																			Y										
	Benzoylcegonine	SGS AXYS MLA-075	MLA-075		Y																			Y										
	Benztropine	SGS AXYS MLA-075	MLA-075		Y																			Y										
	Betamethasone	SGS AXYS MLA-075	MLA-075		Y																			Y										
	Bisphenol A	EPA 1694	MLA-075									Y																			Y			
		SGS AXYS MLA-075	MLA-075		Y																			Y										
	Caffeine	EPA 1694	MLA-075									Y																			Y			
		SGS AXYS MLA-075	MLA-075		Y																			Y										
	Carbadox	EPA 1694	MLA-075									Y																			Y			
		SGS AXYS MLA-075	MLA-075		Y																			Y										
	Carbamazepine	EPA 1694	MLA-075									Y																			Y			
		SGS AXYS MLA-075	MLA-075		Y																			Y										
	Cefotaxime	EPA 1694	MLA-075									Y																			Y			
		SGS AXYS MLA-075	MLA-075		Y																			Y										
	Chlortetracycline (CTC)	EPA 1694	MLA-075									Y																			Y			
	SGS AXYS MLA-075	MLA-075		Y																			Y											
Cimetidine	EPA 1694	MLA-075									Y																			Y				
	SGS AXYS MLA-075	MLA-075		Y																			Y											
Ciprofloxacin	EPA 1694	MLA-075									Y																			Y				
	SGS AXYS MLA-075	MLA-075		Y																			Y											
Clarithromycin	EPA 1694	MLA-075									Y																			Y				
	SGS AXYS MLA-075	MLA-075		Y																			Y											
Clinafloxacin	EPA 1694	MLA-075									Y																			Y				
	SGS AXYS MLA-075	MLA-075		Y																			Y											
Clonidine	SGS AXYS MLA-075	MLA-075		Y																			Y											

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SGS AXYS Analytical Services Ltd.
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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	Cloxacillin	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Cocaine	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Codeine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Cotinine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	DEET (N,N-diethyl-m-toluamide)	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Dehydronifedipine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Demeclocycline	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Desmethyldiltiazem	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Diazepam	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Digoxigenin	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Digoxin	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Diltiazem	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Diphenhydramine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Doxycycline	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Enalapril	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Enrofloxacin	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Erythromycin	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Erythromycin anhydrate	EPA 1694	MLA-075										Y																			Y		
	Flumequine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Fluocinonide	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Fluoxetine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Fluticasone propionate	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Furosemide	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Gemfibrozil	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Glipizide	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Glyburide	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Hydrochlorothiazide	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Hydrocodone	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Hydrocortisone	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Ibuprofen	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Isochlortetracycline (ICTC)	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Lincomycin	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	Lomefloxacin	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Meprobamate	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Metformin	EPA 1694	MLA-075										Y																		Y			
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Methylprednisolone	SGS AXYS MLA-075	MLA-075		Y																													
	Metoprolol	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Miconazole	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Minocycline	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Naproxen	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Norfloracin	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Norfluoxetine	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Norgestimate	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Norverapamil	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Ofloxacin	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Ormetoprim	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Oxacillin	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Oxolinic acid	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Oxycodone	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Oxytetracycline (OTC)	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Paroxetine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Penicillin G	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Penicillin V	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Prednisolone	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Prednisone	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Promethazine	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Propoxyphene	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Propranolol	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Ranitidine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Roxithromycin	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Sarafloxacin	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Sertraline	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Simvastatin	SGS AXYS MLA-075	MLA-075		Y																		Y											
	Sulfachloropyridazine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Sulfadiazine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Sulfadimethoxine	EPA 1694	MLA-075										Y																			Y		
		SGS AXYS MLA-075	MLA-075		Y																		Y											
	Sulfamerazine	EPA 1694	MLA-075										Y																			Y		

Accreditation Scope																																																					
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																																					
				Serum										Tissue										Urine										Water										Water, Non-Potable									
				Solids																																																	
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **																	
		SGS AXYS MLA-075	MLA-075		Y																		Y																														
	Sulfamethazine	EPA 1694	MLA-075										Y																					Y																			
		SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Sulfamethizole	EPA 1694	MLA-075										Y																					Y																			
		SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Sulfamethoxazole	EPA 1694	MLA-075										Y																					Y																			
		SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Sulfanilamide	EPA 1694	MLA-075										Y																					Y																			
		SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Sulfathiazole	EPA 1694	MLA-075										Y																					Y																			
		SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Tetracycline (TC)	EPA 1694	MLA-075										Y																					Y																			
		SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Theophylline	SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Thiabendazole	EPA 1694	MLA-075											Y																				Y																			
		SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Trenbolone	SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Trenbolone acetate	SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Triamterene	SGS AXYS MLA-075	MLA-075		Y																			Y																													
	Triclocarban	EPA 1694	MLA-075											Y																				Y																			
	SGS AXYS MLA-075	MLA-075		Y																			Y																														
Triclosan	EPA 1694	MLA-075											Y																				Y																				
	SGS AXYS MLA-075	MLA-075		Y																			Y																														
Trimethoprim	EPA 1694	MLA-075											Y																				Y																				
	SGS AXYS MLA-075	MLA-075		Y																			Y																														
Tylosin	EPA 1694	MLA-075											Y																				Y																				
	SGS AXYS MLA-075	MLA-075		Y																			Y																														
Valsartan	SGS AXYS MLA-075	MLA-075		Y																			Y																														
Verapamil	SGS AXYS MLA-075	MLA-075		Y																			Y																														
Virginiamycin	EPA 1694	MLA-075											Y																				Y																				
	SGS AXYS MLA-075	MLA-075		Y																			Y																														
Warfarin	EPA 1694	MLA-075											Y																				Y																				
	SGS AXYS MLA-075	MLA-075		Y																				Y																													
Targeted Metabolites	11, 14, 17-eicosatrienoic acid (eicosatrienoic acid)	SGS AXYS MLM-001	MLM-001													Y																																					
	11, 14-eicosadienoic acid	SGS AXYS MLM-001	MLM-001													Y																																					
	3-hydroxytyrosine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Acetylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Acetylmithine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Alanine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	alpha-Aminoadipic acid	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Arginine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Asparagine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Aspartate	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Asymmetric dimethylarginine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Butenylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Butyrylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid)	SGS AXYS MLM-001	MLM-001													Y																																					
	C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA)	SGS AXYS MLM-001	MLM-001													Y																																					
	C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid)	SGS AXYS MLM-001	MLM-001													Y																																					
	Carnitine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Carnosine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	chenodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	cholic acid	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Citrulline	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Creatinine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	Decadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														
	decanoic acid (capric acid)	SGS AXYS MLM-001	MLM-001													Y																																					
	Decanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y							Y																														

Accreditation Scope																																		
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																		
				Serum	Solids							Tissue	Urine	Water	Water, Non-Potable																			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	Decenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	deoxycholic acid	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	docosahexaenoic acid (DHA)	SGS AXYS MLM-001	MLM-001													Y																		
	docosatetraenoic acid (adrenic acid)	SGS AXYS MLM-001	MLM-001													Y																		
	Dodecanedioylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Dodecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Dodecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Dopamine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	eicosapentaenoic acid (EPA)	SGS AXYS MLM-001	MLM-001													Y																		
	Eicosatetraenoic acid (arachidonic acid)	SGS AXYS MLM-001	MLM-001													Y																		
	eicosatrienoic acid (dihomo-γ-linolenic acid)	SGS AXYS MLM-001	MLM-001													Y																		
	Glutaconylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Glutamate	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Glutamine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Glutaryl carnitine (Hydroxyhexanoylcarnitine)	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Glycine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	glycochenodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	glycocholic acid	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	glycodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hexadecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	hexadecanoic acid (palmitic acid)	SGS AXYS MLM-001	MLM-001													Y																		
	Hexadecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	hexadecenoic acid (palmitoleic acid)	SGS AXYS MLM-001	MLM-001													Y																		
	Hexadecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hexanoylcarnitine (Fumaryl carnitine)	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hexenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hexose (sum isomers)	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Histamine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Histidine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxyhexadecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxyhexadecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxyhexadecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxybutyrylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxyoctadecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxyproline	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxypropionylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxysphingomyeline C14:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxysphingomyeline C16:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxysphingomyeline C22:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxysphingomyeline C22:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxysphingomyeline C24:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxytetradecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxytetradecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Hydroxyvaleryl carnitine (Methylmalonylcarnitine)	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Isoleucine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Kynurenine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Leucine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lithocholic acid	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Lysine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C14:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C16:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C16:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C17:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C18:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C18:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C18:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C20:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C20:4	SGS AXYS MLM-001	MLM-001	Y												Y						Y												

Accreditation Scope																																		
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																		
				Serum	Solids					Tissue			Urine	Water	Water, Non-Potable																			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	lysoPhosphatidylcholine acyl C24:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C26:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C28:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	lysoPhosphatidylcholine acyl C28:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Methionine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Methioninesulfoxide	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Methylglutaryl carnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Nitrotyrosine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Nonacyl carnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	octadecadienoic acid (linoleic acid)	SGS AXYS MLM-001	MLM-001													Y																		
	Octadecadienyl carnitine	SGS AXYS MLM-001	MLM-001	Y												Y							Y											
	octadecanoic acid (stearic acid)	SGS AXYS MLM-001	MLM-001													Y																		
	Octadecanoyl carnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	octadecatrenoic acid (γ-linolenic acid)	SGS AXYS MLM-001	MLM-001													Y																		
	Octadecenoyl carnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Octanoyl carnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Ornithine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phenylalanine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phenylethylamine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C30:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C30:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C30:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C32:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C32:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C34:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C34:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C34:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C34:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C36:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C36:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C36:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C36:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C36:4	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C36:5	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C38:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C38:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C38:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C38:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C38:5	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C38:6	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C40:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C40:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C40:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C40:4	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C40:5	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C40:6	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C42:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C42:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C42:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C42:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C42:4	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C42:5	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C44:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C44:4	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C44:5	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine acyl-alkyl C44:6	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C24:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C26:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												

Accreditation Scope																																		
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																		
				Serum	Solids					Tissue			Urine	Water	Water, Non-Potable																			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	Phosphatidylcholine diacyl C28:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C30:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C30:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C32:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C32:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C32:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C32:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C34:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C34:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C34:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C34:4	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C36:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C36:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C36:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C36:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C36:4	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C36:5	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C36:6	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C38:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C38:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C38:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C38:4	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C38:5	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C38:6	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C40:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C40:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C40:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C40:4	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C40:5	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C40:6	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C42:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C42:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C42:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C42:4	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C42:5	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Phosphatidylcholine diacyl C42:6	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Pimelylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Proline	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Propenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Propionylcarnitine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Putrescine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sarcosine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Serine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Serotonin	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Spermidine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Spermine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sphingomyeline C16:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sphingomyeline C16:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sphingomyeline C18:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sphingomyeline C18:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sphingomyeline C20:2	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sphingomyeline C22:3	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sphingomyeline C24:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sphingomyeline C24:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sphingomyeline C26:0	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Sphingomyeline C26:1	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Symmetric dimethylarginine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												
	Taurine	SGS AXYS MLM-001	MLM-001	Y												Y						Y												

Accreditation Scope				SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																												
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids								Tissue				Urine	Water	Water, Non-Potable													
				CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP
	taurochenodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y												Y	Y	Y	Y	Y	Y	Y										
	taurocholic acid	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	taurodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	tauroolithocholic acid	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	taoursodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	Tetradecadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	tetradecanoic acid (myristic acid)	SGS AXYS MLM-001	MLM-001														Y															
	Tetradecanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	Tetradecenoylcarnitine	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	Threonine	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	Tiglylcarnitine	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	Total dimethylarginine	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	Tryptophan	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	Tyrosine	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	ursodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	Valeryl carnitine	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
	Valine	SGS AXYS MLM-001	MLM-001	Y													Y					Y										
TBBPA	Tetrabromobisphenol A	SGS AXYS MLA-079	MLA-079	Y																												
TOP	Perfluorobutanesulfonate (PFBS)	SGS AXYS MLA-111	MLA-111		Y																		Y									
	Perfluorobutanoate (PFBA)	SGS AXYS MLA-111	MLA-111			Y																		Y								
	Perfluorodecanesulfonate (PFDS)	SGS AXYS MLA-111	MLA-111			Y																		Y								
	Perfluorodecanoate (PFDA)	SGS AXYS MLA-111	MLA-111			Y																		Y								
	Perfluorododecanesulfonate (PFDoS)	SGS AXYS MLA-111	MLA-111			Y																		Y								
	Perfluorododecanoate (PFDoA)	SGS AXYS MLA-111	MLA-111			Y																			Y							
	Perfluoroheptanesulfonate (PFHpS)	SGS AXYS MLA-111	MLA-111			Y																			Y							
	Perfluoroheptanoate (PFHpA)	SGS AXYS MLA-111	MLA-111			Y																			Y							
	Perfluorohexanesulfonate (PFHxS)	SGS AXYS MLA-111	MLA-111			Y																				Y						
	Perfluorohexanoate (PFHxA)	SGS AXYS MLA-111	MLA-111			Y																				Y						
	Perfluorononanesulfonate (PFNS)	SGS AXYS MLA-111	MLA-111			Y																				Y						
	Perfluorononanoate (PFNA)	SGS AXYS MLA-111	MLA-111			Y																				Y						
	Perfluorooctanesulfonate (PFOS)	SGS AXYS MLA-111	MLA-111			Y																				Y						
	Perfluorooctanoate (PFOA)	SGS AXYS MLA-111	MLA-111			Y																				Y						
	Perfluoropentanesulfonate (PFPeS)	SGS AXYS MLA-111	MLA-111			Y																				Y						
	Perfluoropentanoate (PFPeA)	SGS AXYS MLA-111	MLA-111			Y																				Y						
	Perfluorotetradecanoate (PFTeDA)	SGS AXYS MLA-111	MLA-111			Y																				Y						
	Perfluorotridecanoate (PFTTrDA)	SGS AXYS MLA-111	MLA-111			Y																				Y						
	Perfluoroundecanoate (PFUnA)	SGS AXYS MLA-111	MLA-111			Y																				Y						
Note *	Analysis of pesticides and PCBs in non-potable water samples by SGS AXYS method MLA-007, with the exception of NPDES or State permitted discharges and Stormwater applications, may fall within the scope of Washington State Department of Ecology solids matrix accreditation, subject to approval of the Ecology Project Manager.																															
Note **	PFAS by LC-MS/MS compliant with US DoD QSM 5.1 table B-15																															

Legend

Y	Accreditation scope
BFR	Brominated flame retardants (non-PBDPE)
BPA and mPE	Bisphenol A and mono-Phthalate Esters
HBCDD	Hexabromocyclododecane
OC Pesticides	Organochlorine Pesticides
PAH	Polycyclic Aromatic Hydrocarbons
PBDPE	Polybrominated diphenylethers
PCB	Polychlorinated Biphenyls
PCDDF	Polychlorinated dibenzodioxins/furans
PFAS	Per- and Polyfluoroalkyl Substances
PPCP	Pharmaceutical and Personal Care Products
TBBPA	Tetrabromobisphenol A
TOP	Total Oxidizable Precursors
California DPH	California Department of Public Health, Lab ID 2911
Florida DOH	Florida Department of Health, Lab ID E871007, (NELAC Standard)
Pennsylvania DEP	Pennsylvania Department of Environmental Protection
Minnesota DOH	Minnesota Department of Health, Lab ID 232-999-430, (NELAC Standard)
New Jersey DEP	New Jersey Department of Environmental Protection, Lab ID CANA005, (NELAC Standard)
New York DOH	New York Department of Health, Lab ID 11674, (NELAC Standard)
Washington DE	Washington Department of Ecology, Lab ID C404
Virginia DGS	Virginia Department of General Services, Division of Consolidated Laboratory Services, Lab ID 460224, (NELAC Standard)
Maine DOH	Maine Center for Disease Control and Prevention, Department of Health and Human Services, Lab ID CN00003

ANAB DoD ANSI-ASQ National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.1 Standard)



CALA Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2005 Standard)



CALA
Testing
Accreditation No. A 2637



ANAB ISO 17025 ANSI-ASQ National Accreditation Board, certificate ADE-1861.01, (ISO/IEC 17025:2005 Standard)

