

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: WG65583	Date: 06-Feb-2019
Analysis Type: E1 Pesticide	Matrix Type: Filter
BATCH MAKEUP	
Contract: 4972 Samples: L29923-1 PDI-RB-XF-180820 L29967-1 PDI-WS-T04-1808 L29967-2 PDI-WS-T02-1808 L29967-3 PDI-WS-T05-1808 L29967-4 PDI-WS-T07-1808 L29967-5 PDI-WS-T03-1808 L29967-6 PDI-WS-T01-1808 L29967-7 PDI-WS-T06-1808	Blank: WG65583-101 Reference or Spike: WG65583-102 Duplicate: WG65583-103
<p>RESUBMISSION 06-Feb-19: Data are being resubmitted to include sample data for oxychlordan, trans-nonachlor and cis-nonachlor, and to update the data for sample 'PDI-RB-XF-180820' (AXYS ID: L29923-1). No other changes were made.</p> <p>Comments:</p> <ol style="list-style-type: none"> 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 analyst noted on the lab workup sheets that approximately one-third of the extract for sample 'PDI-WS-T03-1808 Duplicate' (AXYS ID: WG65583-103) was accidentally lost during transferring to a micro-vial. As a result, the percent recoveries of most labeled surrogates in this sample were below the method lower control limits, as indicated by a 'V' flag. Since the isotope dilution method of quantification produces data that are recovery corrected, sample data are not significantly impacted by the variances. 5. The RPD value for 4,4'-DDT between sample 'PDI-WS-T03-1808' (AXYS ID: L29967-5) and its duplicate sample WG65583-103 was 79.6%, which is above the method control limit of <40%. 6. A disturbance of the mass ion used to monitor instrument performance (lock-mass) greater than the method specification was observed near the retention time corresponding to oxychlordan and ¹³C-oxychlordan in all the samples in this analysis batch except OPR WG65583-102. These analytes have been flagged with a 'G'. 	

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February 2017

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

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-RB-XF-180820
Sample Collection:
20-Aug-2018 15:43

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: 22-Aug-2018

Extraction Date: 10-Oct-2018

Analysis Date: 25-Oct-2018 Time: 11:56:40

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/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
L29923-1

0.2 sample

24-Oct-2018

HR GC/MS

DB5

CL8B_157D S: 43

CL8B_157D S: 42

CL8B_157D S: 37

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	0.851	0.137 (Q)	1.32	1.000
Aldrin	309-00-2	U		0.275 (Q)		
Chlordane, oxy-	27304-13-8	U G		0.275 (Q)		
Chlordane, gamma (trans)	5103-74-2	U		0.275 (Q)		
Chlordane, alpha (cis)	5103-71-9	U		0.275 (Q)		
Nonachlor, trans-	39765-80-5	U		0.275 (Q)		
Nonachlor, cis-	5103-73-1	U		0.275 (Q)		
2,4'-DDD	53-19-0	U		0.275 (Q)		
4,4'-DDD	72-54-8	U		0.275 (Q)		
2,4'-DDE	3424-82-6	U		0.275 (Q)		
4,4'-DDE	72-55-9	U		0.275 (Q)		
2,4'-DDT	789-02-6	U		0.353 (S)		
4,4'-DDT	50-29-3	U		0.388 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456898

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

Signed: _____Ting Chen_____

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-RB-XF-180820
Sample Collection:
20-Aug-2018 15:43

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.:	L29923-1
Sample Receipt Date:	22-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 11:56:40	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 43
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
Concentration Units:	ng absolute	Cal. Ver. Data Filename:	CL8B_157D S: 37

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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	RRT
13C-Hexachlorobenzene		24.3	16.2	66.6	1.33	0.792
13C-Aldrin		24.0	16.3	68.0	1.65	1.031
13C-Chlordane, oxy	G	24.0	18.4	76.7	1.60	1.111
13C-Chlordane, gamma (trans)		24.0	20.3	84.4	1.25	0.839
13C-Nonachlor, trans-		24.0	19.6	81.6	1.24	0.868
13C-Nonachlor, cis-		24.5	19.6	80.2	1.30	0.956
13C-2,4'-DDE		24.0	22.7	94.5	1.57	0.846
13C-4,4'-DDE		24.6	23.9	97.3	1.57	0.890
13C-4,4'-DDD		24.2	20.1	83.2	1.61	0.949
13C-2,4'-DDT		24.0	20.1	83.6	1.59	0.955
13C-4,4'-DDT		24.2	21.0	87.0	1.58	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456898

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29923-1_Form2_CL8B_157DS43_SJ2456898.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T04-1808
Sample Collection:
23-Aug-2018 10:08

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.:	L29967-1
Sample Receipt Date:	29-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 12:34:05	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 44
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
		Cal. Ver. Data Filename:	CL8B_157D S: 37
Concentration Units:	ng/sample		

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	2.15	0.130 (Q)	1.34	1.000
Aldrin	309-00-2	J	0.507	0.261 (Q)	1.50	1.001
Chlordane, oxy-	27304-13-8	U G		0.261 (Q)		
Chlordane, gamma (trans)	5103-74-2	J	1.12	0.261 (Q)	1.15	1.001
Chlordane, alpha (cis)	5103-71-9	J	0.882	0.261 (Q)	1.20	1.026
Nonachlor, trans-	39765-80-5	J	1.29	0.261 (Q)	1.05	1.000
Nonachlor, cis-	5103-73-1	J	0.527	0.261 (Q)	1.11	1.000
2,4'-DDD	53-19-0	J	12.1	0.261 (Q)	1.62	0.951
4,4'-DDD	72-54-8		24.1	0.261 (Q)	1.60	1.001
2,4'-DDE	3424-82-6	J	1.47	0.261 (Q)	1.60	1.000
4,4'-DDE	72-55-9		23.7	0.261 (Q)	1.59	1.001
2,4'-DDT	789-02-6	J	9.38	0.261 (Q)	1.66	1.001
4,4'-DDT	50-29-3	J	11.4	0.261 (Q)	1.62	1.001

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456899

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

Signed: _____Ting Chen_____

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T04-1808
Sample Collection:
23-Aug-2018 10:08

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: 29-Aug-2018
Extraction Date: 10-Oct-2018
Analysis Date: 25-Oct-2018 **Time:** 12:34:05
Extract Volume (uL): 40
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER
Lab Sample I.D.: L29967-1
Sample Size: 0.2 sample
Initial Calibration Date: 24-Oct-2018
Instrument ID: HR GC/MS
GC Column ID: DB5
Sample Data Filename: CL8B_157D S: 44
Blank Data Filename: CL8B_157D S: 42
Cal. Ver. Data Filename: CL8B_157D S: 37

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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	RRT
13C-Hexachlorobenzene		24.3	16.9	69.4	1.35	0.790
13C-Aldrin		24.0	17.1	71.2	1.58	1.030
13C-Chlordane, oxy	G	24.0	19.7	81.9	1.66	1.110
13C-Chlordane, gamma (trans)		24.0	22.1	92.2	1.27	0.839
13C-Nonachlor, trans-		24.0	21.3	88.9	1.26	0.868
13C-Nonachlor, cis-		24.5	21.0	85.7	1.27	0.956
13C-2,4'-DDE		24.0	25.2	105	1.57	0.846
13C-4,4'-DDE		24.6	25.8	105	1.56	0.891
13C-4,4'-DDD		24.2	21.9	90.7	1.59	0.949
13C-2,4'-DDT		24.0	21.7	90.5	1.61	0.955
13C-4,4'-DDT		24.2	22.5	93.0	1.57	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456899

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Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-1_Form2_CL8B_157DS44_SJ2456899.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T02-1808
Sample Collection:
24-Aug-2018 12:22

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: FILTER

Sample Receipt Date: 29-Aug-2018

Extraction Date: 10-Oct-2018

Analysis Date: 25-Oct-2018 Time: 13:11:20

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/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
L29967-2

0.2 sample

24-Oct-2018

HR GC/MS

DB5

CL8B_157D S: 45

CL8B_157D S: 42

CL8B_157D S: 37

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

COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	1.59	0.129 (Q)	1.32	1.000
Aldrin	309-00-2	J	0.488	0.259 (Q)	1.64	1.001
Chlordane, oxy-	27304-13-8	U G		0.259 (Q)		
Chlordane, gamma (trans)	5103-74-2	J	0.888	0.259 (Q)	1.04	1.000
Chlordane, alpha (cis)	5103-71-9	J	0.746	0.259 (Q)	1.24	1.026
Nonachlor, trans-	39765-80-5	J	1.09	0.259 (Q)	1.36	1.001
Nonachlor, cis-	5103-73-1	J	0.462	0.259 (Q)	1.07	1.001
2,4'-DDD	53-19-0	J	3.82	0.259 (Q)	1.64	0.951
4,4'-DDD	72-54-8	J	10.1	0.278 (S)	1.59	1.001
2,4'-DDE	3424-82-6	J	0.637	0.259 (Q)	1.50	1.001
4,4'-DDE	72-55-9		17.3	0.259 (Q)	1.56	1.000
2,4'-DDT	789-02-6	J	1.13	0.434 (S)	1.69	1.000
4,4'-DDT	50-29-3	J	3.38	0.518 (S)	1.71	1.000

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456900

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Signed: _____Ting Chen_____

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T02-1808
Sample Collection:
24-Aug-2018 12:22

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.:	L29967-2
Sample Receipt Date:	29-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 13:11:20	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 45
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
Concentration Units:	ng absolute	Cal. Ver. Data Filename:	CL8B_157D S: 37

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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	RRT
13C-Hexachlorobenzene		24.3	15.6	64.3	1.37	0.791
13C-Aldrin		24.0	16.3	68.1	1.57	1.031
13C-Chlordane, oxy	G	24.0	20.3	84.4	1.66	1.110
13C-Chlordane, gamma (trans)		24.0	21.8	90.7	1.26	0.839
13C-Nonachlor, trans-		24.0	21.3	88.8	1.26	0.867
13C-Nonachlor, cis-		24.5	20.3	83.0	1.32	0.956
13C-2,4'-DDE		24.0	25.2	105	1.57	0.846
13C-4,4'-DDE		24.6	25.8	105	1.54	0.891
13C-4,4'-DDD		24.2	21.3	88.2	1.58	0.949
13C-2,4'-DDT		24.0	20.6	86.0	1.60	0.955
13C-4,4'-DDT		24.2	20.1	83.4	1.62	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456900

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-2_Form2_CL8B_157DS45_SJ2456900.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T05-1808
Sample Collection:
21-Aug-2018 20:28

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.:	L29967-3
Sample Receipt Date:	29-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 13:48:34	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 46
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
		Cal. Ver. Data Filename:	CL8B_157D S: 37
Concentration Units:	ng/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	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	1.59	0.129 (Q)	1.42	1.001
Aldrin	309-00-2	J	0.575	0.259 (Q)	1.48	1.001
Chlordane, oxy-	27304-13-8	U G		0.259 (Q)		
Chlordane, gamma (trans)	5103-74-2	J	1.22	0.259 (Q)	1.21	1.001
Chlordane, alpha (cis)	5103-71-9	J	0.928	0.259 (Q)	1.40	1.026
Nonachlor, trans-	39765-80-5	J	1.26	0.259 (Q)	1.16	1.001
Nonachlor, cis-	5103-73-1	J	0.594	0.259 (Q)	1.26	1.001
2,4'-DDD	53-19-0	J	1.32	0.259 (Q)	1.65	0.951
4,4'-DDD	72-54-8	J	4.36	0.259 (Q)	1.64	1.001
2,4'-DDE	3424-82-6	J	0.371	0.259 (Q)	1.63	1.001
4,4'-DDE	72-55-9	J	13.3	0.259 (Q)	1.57	1.001
2,4'-DDT	789-02-6	K J	0.714	0.259 (Q)	2.77	1.000
4,4'-DDT	50-29-3	J	1.78	0.272 (S)	1.70	1.001

(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; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456901

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-3_Form1A_CL8B_157DS46_SJ2456901.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T05-1808
Sample Collection:
21-Aug-2018 20:28

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.:	L29967-3
Sample Receipt Date:	29-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 13:48:34	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 46
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
Concentration Units:	ng absolute	Cal. Ver. Data Filename:	CL8B_157D S: 37

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	RRT
13C-Hexachlorobenzene		24.3	14.3	58.8	1.38	0.790
13C-Aldrin		24.0	15.8	65.7	1.59	1.031
13C-Chlordane, oxy	G	24.0	17.3	72.2	1.62	1.111
13C-Chlordane, gamma (trans)		24.0	20.8	86.6	1.27	0.839
13C-Nonachlor, trans-		24.0	20.2	84.0	1.25	0.868
13C-Nonachlor, cis-		24.5	19.5	79.6	1.27	0.956
13C-2,4'-DDE		24.0	23.9	99.4	1.57	0.847
13C-4,4'-DDE		24.6	24.9	101	1.56	0.891
13C-4,4'-DDD		24.2	21.0	86.8	1.59	0.949
13C-2,4'-DDT		24.0	19.9	82.9	1.62	0.955
13C-4,4'-DDT		24.2	20.4	84.4	1.59	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456901

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-3_Form2_CL8B_157DS46_SJ2456901.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T07-1808
Sample Collection:
23-Aug-2018 18:20

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.:	L29967-4
Sample Receipt Date:	29-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 14:25:49	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 47
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
		Cal. Ver. Data Filename:	CL8B_157D S: 37
Concentration Units:	ng/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	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	1.32	0.129 (Q)	1.26	1.000
Aldrin	309-00-2	U		0.257 (Q)		
Chlordane, oxy-	27304-13-8	U G		0.257 (Q)		
Chlordane, gamma (trans)	5103-74-2	J	0.585	0.257 (Q)	1.05	1.001
Chlordane, alpha (cis)	5103-71-9	J	0.512	0.257 (Q)	1.35	1.026
Nonachlor, trans-	39765-80-5	J	0.932	0.257 (Q)	1.23	1.000
Nonachlor, cis-	5103-73-1	K J	0.448	0.257 (Q)	0.62	1.001
2,4'-DDD	53-19-0	J	0.557	0.257 (Q)	1.80	0.951
4,4'-DDD	72-54-8	J	1.73	0.257 (Q)	1.54	1.000
2,4'-DDE	3424-82-6	U		0.257 (Q)		
4,4'-DDE	72-55-9	J	6.39	0.257 (Q)	1.58	1.001
2,4'-DDT	789-02-6	K J	0.578	0.398 (S)	3.16	1.000
4,4'-DDT	50-29-3	J	1.48	0.501 (S)	1.45	1.001

(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; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456902

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-4_Form1A_CL8B_157DS47_SJ2456902.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T07-1808
Sample Collection:
23-Aug-2018 18:20

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: 29-Aug-2018
Extraction Date: 10-Oct-2018
Analysis Date: 25-Oct-2018 **Time:** 14:25:49
Extract Volume (uL): 40
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER
Lab Sample I.D.: L29967-4
Sample Size: 0.2 sample
Initial Calibration Date: 24-Oct-2018
Instrument ID: HR GC/MS
GC Column ID: DB5
Sample Data Filename: CL8B_157D S: 47
Blank Data Filename: CL8B_157D S: 42
Cal. Ver. Data Filename: CL8B_157D S: 37

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	RRT
13C-Hexachlorobenzene		24.3	14.9	61.2	1.34	0.790
13C-Aldrin		24.0	15.7	65.4	1.63	1.030
13C-Chlordane, oxy	G	24.0	19.0	79.0	1.51	1.110
13C-Chlordane, gamma (trans)		24.0	21.1	87.9	1.26	0.839
13C-Nonachlor, trans-		24.0	20.7	86.1	1.27	0.868
13C-Nonachlor, cis-		24.5	19.9	81.5	1.26	0.956
13C-2,4'-DDE		24.0	24.3	101	1.57	0.846
13C-4,4'-DDE		24.6	24.8	101	1.57	0.891
13C-4,4'-DDD		24.2	20.8	86.3	1.60	0.949
13C-2,4'-DDT		24.0	19.4	81.0	1.62	0.955
13C-4,4'-DDT		24.2	18.5	76.6	1.60	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456902

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-4_Form2_CL8B_157DS47_SJ2456902.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T03-1808
Sample Collection:
22-Aug-2018 17:55

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: 29-Aug-2018

Extraction Date: 10-Oct-2018

Analysis Date: 25-Oct-2018 Time: 15:03:02

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng/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
L29967-5 (A)

0.2 sample

24-Oct-2018

HR GC/MS

DB5

CL8B_157D S: 48

CL8B_157D S: 42

CL8B_157D S: 37

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	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	1.90	0.134 (Q)	1.30	1.001
Aldrin	309-00-2	J	0.498	0.268 (Q)	1.70	1.001
Chlordane, oxy-	27304-13-8	U G		0.268 (Q)		
Chlordane, gamma (trans)	5103-74-2	J	1.19	0.268 (Q)	1.19	1.001
Chlordane, alpha (cis)	5103-71-9	J	1.01	0.268 (Q)	1.38	1.026
Nonachlor, trans-	39765-80-5	J	1.46	0.268 (Q)	1.19	1.001
Nonachlor, cis-	5103-73-1	K J	0.672	0.268 (Q)	0.84	1.001
2,4'-DDD	53-19-0	J	6.59	0.268 (Q)	1.63	0.951
4,4'-DDD	72-54-8	J	14.7	0.268 (Q)	1.59	1.000
2,4'-DDE	3424-82-6	J	0.890	0.268 (Q)	1.54	1.001
4,4'-DDE	72-55-9		22.6	0.268 (Q)	1.57	1.001
2,4'-DDT	789-02-6	J	1.86	0.348 (S)	1.81	1.000
4,4'-DDT	50-29-3	J	8.11	0.431 (S)	1.59	1.000

(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; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456903

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-5_Form1A_CL8B_157DS48_SJ2456903.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T03-1808
Sample Collection:
22-Aug-2018 17:55

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: 29-Aug-2018
Extraction Date: 10-Oct-2018
Analysis Date: 25-Oct-2018 **Time:** 15:03:02
Extract Volume (uL): 40
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
Lab Sample I.D.: BASELINE WATER
L29967-5 (A)
Sample Size: 0.2 sample
Initial Calibration Date: 24-Oct-2018
Instrument ID: HR GC/MS
GC Column ID: DB5
Sample Data Filename: CL8B_157D S: 48
Blank Data Filename: CL8B_157D S: 42
Cal. Ver. Data Filename: CL8B_157D S: 37

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	RRT
13C-Hexachlorobenzene		24.3	14.0	57.4	1.35	0.790
13C-Aldrin		24.0	14.2	59.1	1.63	1.031
13C-Chlordane, oxy	G	24.0	18.1	75.5	1.54	1.111
13C-Chlordane, gamma (trans)		24.0	19.0	79.2	1.26	0.839
13C-Nonachlor, trans-		24.0	18.5	77.1	1.28	0.868
13C-Nonachlor, cis-		24.5	17.1	70.1	1.34	0.956
13C-2,4'-DDE		24.0	21.9	91.4	1.59	0.846
13C-4,4'-DDE		24.6	22.5	91.6	1.56	0.891
13C-4,4'-DDD		24.2	18.5	76.8	1.60	0.949
13C-2,4'-DDT		24.0	16.7	69.7	1.61	0.955
13C-4,4'-DDT		24.2	15.7	65.1	1.58	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456903

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-5_Form2_CL8B_157DS48_SJ2456903.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T03-1808 (Duplicate)
Sample Collection:
22-Aug-2018 17:55

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.:	WG65583-103 (DUP L29967-5)
Sample Receipt Date:	29-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 15:40:13	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 49
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
		Cal. Ver. Data Filename:	CL8B_157D S: 37
Concentration Units:	ng/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	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	2.15	0.134 (Q)	1.22	1.000
Aldrin	309-00-2	K J	0.615	0.267 (Q)	2.97	1.001
Chlordane, oxy-	27304-13-8	U G		0.433 (S)		
Chlordane, gamma (trans)	5103-74-2	J	1.14	0.267 (Q)	1.09	1.001
Chlordane, alpha (cis)	5103-71-9	J	1.05	0.267 (Q)	1.02	1.026
Nonachlor, trans-	39765-80-5	J	1.37	0.267 (Q)	1.38	1.001
Nonachlor, cis-	5103-73-1	J	0.579	0.491 (S)	1.28	1.001
2,4'-DDD	53-19-0	J	6.66	0.439 (S)	1.57	0.951
4,4'-DDD	72-54-8	J	15.2	0.546 (S)	1.60	1.000
2,4'-DDE	3424-82-6	J	0.861	0.267 (Q)	1.65	1.001
4,4'-DDE	72-55-9		22.5	0.267 (Q)	1.57	1.001
2,4'-DDT	789-02-6	K J	1.94	0.891 (S)	2.26	1.001
4,4'-DDT	50-29-3		18.8	1.07 (S)	1.61	1.000

(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; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456904

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

Signed: _____Ting Chen_____

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T03-1808 (Duplicate)
Sample Collection:
22-Aug-2018 17:55

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: 29-Aug-2018
Extraction Date: 10-Oct-2018
Analysis Date: 25-Oct-2018 Time: 15:40:13
Extract Volume (uL): 40
Injection Volume (uL): 1.0
Dilution Factor: N/A
Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER
Lab Sample I.D.: WG65583-103 (DUP L29967-5)
Sample Size: 0.2 sample
Initial Calibration Date: 24-Oct-2018
Instrument ID: HR GC/MS
GC Column ID: DB5
Sample Data Filename: CL8B_157D S: 49
Blank Data Filename: CL8B_157D S: 42
Cal. Ver. Data Filename: CL8B_157D S: 37

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	RRT
13C-Hexachlorobenzene		24.3	5.38	22.1	1.39	0.790
13C-Aldrin	V	24.0	5.71	23.8	1.65	1.030
13C-Chlordane, oxy	G	24.0	7.63	31.8	1.53	1.109
13C-Chlordane, gamma (trans)		24.0	7.38	30.8	1.27	0.839
13C-Nonachlor, trans-		24.0	7.25	30.2	1.26	0.868
13C-Nonachlor, cis-	V	24.5	6.70	27.4	1.32	0.956
13C-2,4'-DDE	V	24.0	8.37	34.9	1.59	0.847
13C-4,4'-DDE	V	24.6	8.45	34.3	1.56	0.891
13C-4,4'-DDD	V	24.2	6.74	27.9	1.56	0.950
13C-2,4'-DDT	V	24.0	6.07	25.3	1.58	0.955
13C-4,4'-DDT	V	24.2	5.69	23.5	1.53	0.996

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456904

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_WG65583-103_Form2_CL8B_157DS49_SJ2456904.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

PESTICIDE ANALYSIS REPORT
RELATIVE PERCENT DIFFERENCE

SGS AXYS ANALYTICAL SERVICES

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

Project No.

PORTLAND HARBOR PDI AND
BASELINE WATER

Contract No.: 4972

Client ID: PDI-WS-T03-1808

Concentration Units: ng/sample

COMPOUND	L29967-5 (A)		WG65583-103		MEAN	RELATIVE PERCENT DIFFERENCE
	LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
Hexachlorobenzene	J	1.90	J	2.15	2.02	12.7
Aldrin	J	0.498	K J	0.615		
Chlordane, oxy-	U G		U G			
Chlordane, gamma (trans)	J	1.19	J	1.14	1.17	4.28
Chlordane, alpha (cis)	J	1.01	J	1.05	1.03	4.07
Nonachlor, trans-	J	1.46	J	1.37	1.41	6.45
Nonachlor, cis-	K J	0.672	J	0.579		
2,4'-DDD	J	6.59	J	6.66	6.63	1.01
4,4'-DDD	J	14.7	J	15.2	15.0	2.99
2,4'-DDE	J	0.890	J	0.861	0.876	3.31
4,4'-DDE		22.6		22.5	22.6	0.510
2,4'-DDT	J	1.86	K J	1.94		
4,4'-DDT	J	8.11		18.8	13.5	79.6

(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; G = lock mass interference present.

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

Signed: _____ Ting Chen _____

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: RPD.xml; Created: 06-Feb-2019 10:06:40; Application: XMLTransformer-1.17.5;
Report Filename: RPD_PEST_HI_E1HI-RPD_WG65583-103_L29967-5_.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T01-1808
Sample Collection:
25-Aug-2018 12:02

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.:	L29967-6
Sample Receipt Date:	29-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 16:17:27	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 50
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
		Cal. Ver. Data Filename:	CL8B_157D S: 37
Concentration Units:	ng/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	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	1.58	0.131 (Q)	1.43	1.000
Aldrin	309-00-2	J	0.454	0.261 (Q)	1.83	1.001
Chlordane, oxy-	27304-13-8	U G		0.261 (Q)		
Chlordane, gamma (trans)	5103-74-2	J	0.819	0.261 (Q)	1.00	1.001
Chlordane, alpha (cis)	5103-71-9	J	0.644	0.261 (Q)	1.36	1.026
Nonachlor, trans-	39765-80-5	J	0.886	0.261 (Q)	1.13	1.001
Nonachlor, cis-	5103-73-1	K J	0.368	0.261 (Q)	0.67	1.001
2,4'-DDD	53-19-0	J	2.57	0.261 (Q)	1.65	0.951
4,4'-DDD	72-54-8	J	8.02	0.261 (Q)	1.59	1.001
2,4'-DDE	3424-82-6	J	0.499	0.261 (Q)	1.55	1.000
4,4'-DDE	72-55-9		17.1	0.261 (Q)	1.59	1.001
2,4'-DDT	789-02-6	K J	0.876	0.338 (S)	2.63	1.000
4,4'-DDT	50-29-3	J	6.89	0.414 (S)	1.54	1.001

(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; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456905

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-6_Form1A_CL8B_157DS50_SJ2456905.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T01-1808
Sample Collection:
25-Aug-2018 12:02

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.:	L29967-6
Sample Receipt Date:	29-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 16:17:27	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 50
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
Concentration Units:	ng absolute	Cal. Ver. Data Filename:	CL8B_157D S: 37

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	RRT
13C-Hexachlorobenzene		24.3	14.2	58.5	1.37	0.791
13C-Aldrin		24.0	16.2	67.4	1.65	1.031
13C-Chlordane, oxy	G	24.0	21.4	89.1	1.59	1.111
13C-Chlordane, gamma (trans)		24.0	23.2	96.9	1.25	0.839
13C-Nonachlor, trans-		24.0	22.4	93.2	1.28	0.868
13C-Nonachlor, cis-		24.5	21.2	86.9	1.31	0.956
13C-2,4'-DDE		24.0	26.7	111	1.59	0.847
13C-4,4'-DDE		24.6	27.4	111	1.55	0.891
13C-4,4'-DDD		24.2	22.4	92.6	1.59	0.949
13C-2,4'-DDT		24.0	19.9	83.0	1.59	0.955
13C-4,4'-DDT		24.2	19.0	78.7	1.60	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456905

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-6_Form2_CL8B_157DS50_SJ2456905.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T06-1808
Sample Collection:
24-Aug-2018 16:32

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.:	L29967-7
Sample Receipt Date:	29-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 16:54:39	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 51
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
		Cal. Ver. Data Filename:	CL8B_157D S: 37
Concentration Units:	ng/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	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	1.45	0.133 (Q)	1.39	1.001
Aldrin	309-00-2	U		0.265 (Q)		
Chlordane, oxy-	27304-13-8	U G		0.265 (Q)		
Chlordane, gamma (trans)	5103-74-2	J	0.729	0.265 (Q)	1.20	1.001
Chlordane, alpha (cis)	5103-71-9	J	0.640	0.265 (Q)	1.07	1.026
Nonachlor, trans-	39765-80-5	K J	0.902	0.265 (Q)	0.93	1.001
Nonachlor, cis-	5103-73-1	K J	0.443	0.265 (Q)	0.58	1.001
2,4'-DDD	53-19-0	J	0.726	0.265 (Q)	1.68	0.951
4,4'-DDD	72-54-8	J	2.59	0.265 (Q)	1.67	1.001
2,4'-DDE	3424-82-6	U		0.265 (Q)		
4,4'-DDE	72-55-9	J	8.66	0.265 (Q)	1.57	1.001
2,4'-DDT	789-02-6	K J	0.679	0.313 (S)	4.10	1.001
4,4'-DDT	50-29-3	J	1.85	0.407 (S)	1.59	1.000

(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; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456906

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-7_Form1A_CL8B_157DS51_SJ2456906.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORT

CLIENT SAMPLE NO.
PDI-WS-T06-1808
Sample Collection:
24-Aug-2018 16:32

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.:	L29967-7
Sample Receipt Date:	29-Aug-2018	Sample Size:	0.2 sample
Extraction Date:	10-Oct-2018	Initial Calibration Date:	24-Oct-2018
Analysis Date:	25-Oct-2018 Time: 16:54:39	Instrument ID:	HR GC/MS
Extract Volume (uL):	40	GC Column ID:	DB5
Injection Volume (uL):	1.0	Sample Data Filename:	CL8B_157D S: 51
Dilution Factor:	N/A	Blank Data Filename:	CL8B_157D S: 42
Concentration Units:	ng absolute	Cal. Ver. Data Filename:	CL8B_157D S: 37

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	RRT
13C-Hexachlorobenzene		24.3	12.8	52.5	1.36	0.791
13C-Aldrin		24.0	13.9	57.9	1.59	1.031
13C-Chlordane, oxy	G	24.0	17.8	74.0	1.60	1.111
13C-Chlordane, gamma (trans)		24.0	20.3	84.5	1.27	0.839
13C-Nonachlor, trans-		24.0	19.7	82.2	1.27	0.868
13C-Nonachlor, cis-		24.5	18.6	76.2	1.29	0.956
13C-2,4'-DDE		24.0	23.7	98.8	1.57	0.847
13C-4,4'-DDE		24.6	24.4	99.3	1.57	0.891
13C-4,4'-DDD		24.2	19.9	82.3	1.60	0.949
13C-2,4'-DDT		24.0	17.4	72.4	1.62	0.955
13C-4,4'-DDT		24.2	16.3	67.7	1.59	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456906

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_L29967-7_Form2_CL8B_157DS51_SJ2456906.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 1A
PESTICIDE 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

Matrix: FILTER

Sample Receipt Date: N/A

Extraction Date: 10-Oct-2018

Analysis Date: 25-Oct-2018 Time: 11:19:26

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No.

Lab Sample I.D.: WG65583-101 i

Sample Size: 0.2 sample

Initial Calibration Date: 24-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

Sample Data Filename: CL8B_157D S: 42

Blank Data Filename: CL8B_157D S: 42

Cal. Ver. Data Filename: CL8B_157D S: 37

Concentration Units: ng/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	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Hexachlorobenzene	118-74-1	J	0.568	0.132 (Q)	1.33	1.000
Aldrin	309-00-2	U		0.264 (Q)		
Chlordane, oxy-	27304-13-8	U G		0.264 (Q)		
Chlordane, gamma (trans)	5103-74-2	U		0.264 (Q)		
Chlordane, alpha (cis)	5103-71-9	U		0.264 (Q)		
Nonachlor, trans-	39765-80-5	U		0.264 (Q)		
Nonachlor, cis-	5103-73-1	U		0.264 (Q)		
2,4'-DDD	53-19-0	U		0.264 (Q)		
4,4'-DDD	72-54-8	U		0.264 (Q)		
2,4'-DDE	3424-82-6	U		0.264 (Q)		
4,4'-DDE	72-55-9	U		0.264 (Q)		
2,4'-DDT	789-02-6	U		0.311 (S)		
4,4'-DDT	50-29-3	U		0.359 (S)		

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; J = concentration less than lowest calibration equivalent; G = lock mass interference present.

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456897

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

Signed: _____Ting Chen_____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_WG65583-101_Form1A_CL8B_157DS42_SJ2456897.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 2
PESTICIDE ANALYSIS REPORT

CLIENT 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

Matrix: FILTER

Sample Receipt Date: N/A

Extraction Date: 10-Oct-2018

Analysis Date: 25-Oct-2018 Time: 11:19:26

Extract Volume (uL): 40

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No.

N/A

Lab Sample I.D.:

WG65583-101 i

Sample Size:

0.2 sample

Initial Calibration Date:

24-Oct-2018

Instrument ID:

HR GC/MS

GC Column ID:

DB5

Sample Data Filename:

CL8B_157D S: 42

Blank Data Filename:

CL8B_157D S: 42

Cal. Ver. Data Filename:

CL8B_157D S: 37

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	RRT
13C-Hexachlorobenzene		24.3	17.4	71.7	1.34	0.792
13C-Aldrin		24.0	15.9	66.2	1.61	1.031
13C-Chlordane, oxy	G	24.0	16.9	70.4	1.63	1.111
13C-Chlordane, gamma (trans)		24.0	21.6	90.2	1.24	0.840
13C-Nonachlor, trans-		24.0	20.8	86.5	1.26	0.868
13C-Nonachlor, cis-		24.5	20.4	83.4	1.29	0.956
13C-2,4'-DDE		24.0	23.8	99.2	1.58	0.847
13C-4,4'-DDE		24.6	25.7	104	1.56	0.891
13C-4,4'-DDD		24.2	21.1	87.4	1.61	0.949
13C-2,4'-DDT		24.0	21.0	87.4	1.60	0.955
13C-4,4'-DDT		24.2	21.2	87.7	1.61	0.996

(1) Where applicable, custom lab flags have been used on this report; G = lock mass interference present.

(2) R% = percent recovery.

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456897

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

Signed: _____Ting Chen_____

For Axy Internal Use Only [XSL Template: Pest2.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: Pest_PEST_HI_E1HI_WG65583-101_Form2_CL8B_157DS42_SJ2456897.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 8A

PESTICIDE 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:

CL8B_157D S: 39

Matrix: FILTER

Lab Sample I.D.:

WG65583-102 i

Extraction Date: 10-Oct-2018

Analysis Date:

25-Oct-2018 Time: 09:27:40

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON 100 uL EXTRACT.

COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
Hexachlorobenzene	118-74-1		1.30	120	123	84.0 - 156	103
Aldrin	309-00-2		1.57	312	315	218 - 405	101
Chlordane, oxy-	27304-13-8		1.57	240	216	168 - 312	90.0
Chlordane, gamma (trans)	5103-74-2		1.25	240	241	168 - 312	101
Chlordane, alpha (cis)	5103-71-9		1.24	241	238	168 - 313	98.9
Nonachlor, trans-	39765-80-5		1.24	204	213	143 - 265	104
Nonachlor, cis-	5103-73-1		1.26	240	249	168 - 312	104
2,4'-DDD	53-19-0		1.61	121	123	84.6 - 157	102
4,4'-DDD	72-54-8		1.61	145	151	102 - 189	104
2,4'-DDE	3424-82-6		1.57	121	125	84.8 - 158	103
4,4'-DDE	72-55-9		1.58	147	152	103 - 191	103
2,4'-DDT	789-02-6		1.60	120	124	83.8 - 156	104
4,4'-DDT	50-29-3		1.61	121	126	84.8 - 158	104

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456895

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

Signed: _____Ting Chen_____

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: Pest8A.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
 Report Filename: Pest_PEST_HI_E1HI_WG65583-102_Form8A_SJ2456895.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 8B

PESTICIDE 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: CL8B_157D S: 39

Matrix: FILTER

Lab Sample I.D.: WG65583-102 i

Extraction Date: 10-Oct-2018

Analysis Date: 25-Oct-2018 Time: 09:27:40

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON 100 uL EXTRACT.

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
13C-Hexachlorobenzene	93952-14-8		1.35	243	187	48.6-365	77.0
13C-Aldrin			1.65	240	184	72.0-360	76.5
13C-Chlordane, oxy			1.70	240	209	72.0-480	87.2
13C-Chlordane, gamma (trans)			1.27	240	220	72.0-480	91.6
13C-Nonachlor, trans-			1.26	240	208	72.0-360	86.8
13C-Nonachlor, cis-			1.32	245	201	73.4-367	82.3
13C-2,4'-DDE			1.59	240	240	96.0-360	100
13C-4,4'-DDE	201612-50-2		1.57	246	254	98.4-369	103
13C-4,4'-DDD			1.60	242	211	96.6-362	87.5
13C-2,4'-DDT			1.61	240	216	96.0-360	90.1
13C-4,4'-DDT	104215-84-1		1.58	242	232	96.6-362	95.9

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

NOTE: This revised report replaces any previously dated reports as evidenced by the 'Create Date' and identified by: SJ2456895

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

Signed: _____Ting Chen_____

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: Pest8B.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5; Report Filename: Pest_PEST_HI_E1HI_WG65583-102_Form8B_SJ2456895.html; Workgroup: WG65583; Design ID: 3361]

Form 3A
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: 24-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A

CS1 Data Filename: CL8B_157D S: 3

CS2 Data Filename: CL8B_157D S: 4

CS3 Data Filename: CL8B_157D S: 7

CS4 Data Filename: CL8B_157D S: 6

CS5 Data Filename: CL8B_157D S: 5

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
Hexachlorobenzene			1.17	1.10	1.09	1.12	1.09	1.11	3.09
Aldrin			1.20	1.17	1.15	1.17	1.14	1.16	1.98
Chlordane, oxy-			1.12	1.12	1.03	1.11	1.08	1.09	3.64
Chlordane, gamma (trans)			1.11	1.06	1.03	1.07	1.05	1.06	2.81
Chlordane, alpha (cis)			1.08	1.02	1.03	1.06	1.02	1.04	2.60
Nonachlor, trans-			1.10	1.06	1.02	1.05	1.03	1.05	3.13
Nonachlor, cis-			1.15	1.10	1.04	1.07	1.02	1.07	4.95
2,4'-DDD			1.43	1.38	1.33	1.38	1.37	1.38	2.69
4,4'-DDD			1.14	1.09	1.07	1.10	1.14	1.11	2.87
2,4'-DDE			1.13	1.09	1.07	1.08	1.10	1.09	2.05
4,4'-DDE			1.13	1.08	1.06	1.08	1.09	1.09	2.40
2,4'-DDT			1.14	1.08	1.08	1.10	1.11	1.10	2.02
4,4'-DDT			1.38	1.32	1.28	1.32	1.37	1.33	3.09

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

(2) QC limit is 20% for native compounds with a labeled analog, 35% for those without a labeled analog.

(3) Hexachlorobutadiene is not present in the calibration standards. Reported RRF is a weighted value of 1,2,3-Trichlorobenzene based on the analysis of an external standard.

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 Axys Internal Use Only [XSL Template: Form3A.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_24-Oct-2018_CL8B__Form3A_GS78467.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 3B
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: 24-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A

CS1 Data Filename: CL8B_157D S: 3

CS2 Data Filename: CL8B_157D S: 4

CS3 Data Filename: CL8B_157D S: 7

CS4 Data Filename: CL8B_157D S: 6

CS5 Data Filename: CL8B_157D S: 5

CS6 Data Filename: N/A

LABELLED COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
13C-Hexachlorobenzene			1.58	1.62	1.56	1.63	1.86	1.65	7.29
13C-beta-HCH			0.75	0.70	0.66	0.73	0.84	0.74	8.81
13C-gamma-HCH			0.89	0.85	0.80	0.87	0.99	0.88	7.90
13C-delta-HCH			0.78	0.73	0.69	0.76	0.87	0.77	9.06
13C-Heptachlor			0.19	0.20	0.19	0.20	0.22	0.20	6.92
13C-Aldrin			0.48	0.47	0.45	0.47	0.53	0.48	6.07
13C-Chlordane, oxy			0.09	0.09	0.09	0.09	0.12	0.10	12.1
13C-Chlordane, gamma (trans)			0.22	0.22	0.21	0.23	0.26	0.23	8.04
13C-Nonachlor, trans-			0.18	0.17	0.17	0.18	0.20	0.18	7.21
13C-Nonachlor, cis-			0.12	0.12	0.13	0.14	0.16	0.13	10.4
13C-2,4'-DDE			3.06	3.02	2.99	3.11	3.38	3.11	4.99
13C-4,4'-DDE			2.35	2.38	2.32	2.44	2.64	2.43	5.33
13C-4,4'-DDD			1.47	1.49	1.46	1.58	2.00	1.60	14.2
13C-2,4'-DDT			0.96	1.00	1.00	1.12	1.37	1.09	15.2
13C-4,4'-DDT			0.59	0.61	0.62	0.68	0.86	0.67	16.6
13C-Mirex			1.00	1.03	1.03	1.11	1.28	1.09	10.5

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

(2) QC limit is 35% for labeled compounds.

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 Axys Internal Use Only [XSL Template: Form3B.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_24-Oct-2018_CL8B_Form3B_GS78467.html; Workgroup: WG65583; Design ID: 3361]

Form 3C
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: 24-Oct-2018

Instrument ID: HR GC/MS

GC Column ID: DB5

CS0 Data Filename: N/A
CS1 Data Filename: CL8B_157D S: 3
CS2 Data Filename: CL8B_157D S: 4
CS3 Data Filename: CL8B_157D S: 7
CS4 Data Filename: CL8B_157D S: 6
CS5 Data Filename: CL8B_157D S: 5
CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO	ION ABUNDANCE RATIO						QC LIMITS ²
			CS0	CS1	CS2	CS3	CS4	CS5	
Hexachlorobenzene		284/286		1.31	1.29	1.29	1.29	1.28	1.00-1.50
Aldrin		263/265		1.52	1.52	1.56	1.57	1.53	1.24-1.86
Chlordane, oxy-		263/265		1.51	1.57	1.55	1.54	1.52	1.24-1.86
Chlordane, gamma (trans)		272/274		1.25	1.25	1.25	1.25	1.24	0.99-1.49
Chlordane, alpha (cis)		272/274		1.25	1.24	1.27	1.25	1.25	0.99-1.49
Nonachlor, trans-		272/274		1.24	1.25	1.27	1.25	1.25	0.99-1.49
Nonachlor, cis-		272/274		1.24	1.26	1.26	1.27	1.26	0.99-1.49
2,4'-DDD		235/237		1.57	1.59	1.60	1.57	1.60	1.25-1.87
4,4'-DDD		235/237		1.58	1.56	1.58	1.57	1.58	1.25-1.87
2,4'-DDE		246/248		1.57	1.56	1.57	1.57	1.57	1.25-1.87
4,4'-DDE		246/248		1.59	1.57	1.57	1.57	1.57	1.25-1.87
2,4'-DDT		235/237		1.58	1.57	1.58	1.57	1.56	1.25-1.87
4,4'-DDT		235/237		1.53	1.57	1.59	1.57	1.59	1.25-1.87

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

(2) QC limits are +/- 20%.

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 _____

Form 3D
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: 24-Oct-2018

Instrument ID: HR GC/MS**GC Column ID:** DB5

CS0 Data Filename: N/A
CS1 Data Filename: CL8B_157D S: 3
CS2 Data Filename: CL8B_157D S: 4
CS3 Data Filename: CL8B_157D S: 7
CS4 Data Filename: CL8B_157D S: 6
CS5 Data Filename: CL8B_157D S: 5
CS6 Data Filename: N/A

LABELED COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO	ION ABUNDANCE RATIO						QC LIMITS ²
			CS0	CS1	CS2	CS3	CS4	CS5	
13C-Hexachlorobenzene		290/292		1.33	1.31	1.34	1.32	1.33	1.00-1.50
13C-beta-HCH		223/225		0.76	0.77	0.75	0.79	0.78	0.62-0.94
13C-gamma-HCH		223/225		0.80	0.78	0.76	0.77	0.77	0.62-0.94
13C-delta-HCH		223/225		0.77	0.76	0.75	0.76	0.78	0.62-0.94
13C-Heptachlor		277/279		1.27	1.33	1.26	1.25	1.34	0.99-1.49
13C-Aldrin		270/272		1.66	1.61	1.58	1.60	1.63	1.24-1.86
13C-Chlordane, oxy		270/272		1.69	1.58	1.65	1.58	1.68	1.09-2.02
13C-Chlordane, gamma (trans)		277/279		1.28	1.24	1.25	1.25	1.30	0.99-1.49
13C-Nonachlor, trans-		277/279		1.24	1.25	1.26	1.27	1.30	0.99-1.49
13C-Nonachlor, cis-		277/279		1.32	1.22	1.25	1.28	1.32	0.99-1.49
13C-2,4'-DDE		258/260		1.60	1.59	1.60	1.60	1.61	1.25-1.87
13C-4,4'-DDE		258/260		1.57	1.59	1.59	1.58	1.59	1.25-1.87
13C-4,4'-DDD		247/249		1.62	1.59	1.58	1.59	1.57	1.25-1.87
13C-2,4'-DDT		247/249		1.60	1.61	1.62	1.60	1.58	1.25-1.87
13C-4,4'-DDT		247/249		1.59	1.60	1.60	1.61	1.59	1.25-1.87
13C-Mirex		277/279		1.28	1.29	1.28	1.28	1.29	1.00-1.50

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

(2) QC limits are +/- 20% (+/- 30% for labeled oxychlordane).

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 Axys Internal Use Only [XSL Template: Form3D.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5; Report Filename: PestHR_E1_Pest_24-Oct-2018_CL8B_Form3D_GS78467.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4A
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: 24-Oct-2018

VER Data Filename: CL8B_157D S: 37

Instrument ID: HR GC/MS

Analysis Date: 25-Oct-2018

GC Column ID: DB5

Analysis Time: 08:13:09

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Hexachlorobenzene	118-74-1		284/286	1.30	1.00-1.50	78.2	64.0-96.0
Aldrin	309-00-2		263/265	1.54	1.24-1.86	209	166-249
Chlordane, oxy-	27304-13-8		263/265	1.56	1.24-1.86	157	128-192
Chlordane, gamma (trans)	5103-74-2		272/274	1.26	0.99-1.49	160	128-192
Chlordane, alpha (cis)	5103-71-9		272/274	1.25	0.99-1.49	160	104-217
Nonachlor, trans-	39765-80-5		272/274	1.26	0.99-1.49	137	109-163
Nonachlor, cis-	5103-73-1		272/274	1.28	0.99-1.49	160	128-192
2,4'-DDD	53-19-0		235/237	1.62	1.25-1.87	85.4	52.4-109
4,4'-DDD	72-54-8		235/237	1.61	1.25-1.87	99.2	77.6-116
2,4'-DDE	3424-82-6		246/248	1.58	1.25-1.87	81.4	64.6-97.0
4,4'-DDE	72-55-9		246/248	1.59	1.25-1.87	99.6	78.4-118
2,4'-DDT	789-02-6		235/237	1.57	1.25-1.87	82.9	63.8-95.8
4,4'-DDT	50-29-3		235/237	1.60	1.25-1.87	81.4	64.6-97.0

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

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 Axys Internal Use Only [XSL Template: Pest4A.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL8B_157DS37_Form4A_SJ2456893.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4B
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: 24-Oct-2018

VER Data Filename: CL8B_157D S: 37

Instrument ID: HR GC/MS

Analysis Date: 25-Oct-2018

GC Column ID: DB5

Analysis Time: 08:13:09

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)
13C-Hexachlorobenzene	93952-14-8		290/292	1.33	1.00-1.50	78.5
13C-beta-HCH	222966-68-9		223/225	0.79	0.62-0.94	90.7
13C-gamma-HCH	104215-85-2		223/225	0.77	0.62-0.94	89.6
13C-delta-HCH			223/225	0.78	0.62-0.94	90.9
13C-Heptachlor			277/279	1.35	0.99-1.49	79.4
13C-Aldrin			270/272	1.56	1.24-1.86	79.3
13C-Chlordane, oxy			270/272	1.59	1.09-2.02	77.2
13C-Chlordane, gamma (trans)			277/279	1.26	0.99-1.49	79.6
13C-Nonachlor, trans-			277/279	1.29	0.99-1.49	79.6
13C-Nonachlor, cis-			277/279	1.26	0.99-1.49	76.9
13C-2,4'-DDE			258/260	1.59	1.25-1.87	88.7
13C-4,4'-DDE	201612-50-2		258/260	1.57	1.25-1.87	90.0
13C-4,4'-DDD			247/249	1.60	1.25-1.87	78.7
13C-2,4'-DDT			247/249	1.62	1.25-1.87	83.4
13C-4,4'-DDT	104215-84-1		247/249	1.61	1.25-1.87	90.9
13C-Mirex			277/279	1.29	1.00-1.50	74.5

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

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: Pest4B.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5; Report Filename: PestHR_E1_Pest_CL8B_157DS37_Form4B_SJ2456893.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4A
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: 24-Oct-2018

VER Data Filename: CL8B_157D S: 54

Instrument ID: HR GC/MS

Analysis Date: 25-Oct-2018

GC Column ID: DB5

Analysis Time: 18:47:33

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Hexachlorobenzene	118-74-1		284/286	1.31	1.00-1.50	79.6	64.0-96.0
Aldrin	309-00-2		263/265	1.58	1.24-1.86	212	166-249
Chlordane, oxy-	27304-13-8		263/265	1.56	1.24-1.86	158	128-192
Chlordane, gamma (trans)	5103-74-2		272/274	1.28	0.99-1.49	162	128-192
Chlordane, alpha (cis)	5103-71-9		272/274	1.27	0.99-1.49	165	104-217
Nonachlor, trans-	39765-80-5		272/274	1.26	0.99-1.49	140	109-163
Nonachlor, cis-	5103-73-1		272/274	1.28	0.99-1.49	162	128-192
2,4'-DDD	53-19-0		235/237	1.64	1.25-1.87	88.7	52.4-109
4,4'-DDD	72-54-8		235/237	1.62	1.25-1.87	101	77.6-116
2,4'-DDE	3424-82-6		246/248	1.58	1.25-1.87	84.7	64.6-97.0
4,4'-DDE	72-55-9		246/248	1.58	1.25-1.87	103	78.4-118
2,4'-DDT	789-02-6		235/237	1.63	1.25-1.87	84.0	63.8-95.8
4,4'-DDT	50-29-3		235/237	1.62	1.25-1.87	83.2	64.6-97.0

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

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 Axys Internal Use Only [XSL Template: Pest4A.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL8B_157DS54_Form4A_SJ2456907.html; Workgroup: WG65583; Design ID: 3361]

SGS AXYS METHOD MLA-028 Rev 06

Form 4B
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: 24-Oct-2018 VER Data Filename: CL8B_157D S: 54
Instrument ID: HR GC/MS Analysis Date: 25-Oct-2018
GC Column ID: DB5 Analysis Time: 18:47:33

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	QC LIMITS	CONC. FOUND (ng/mL)
13C-Hexachlorobenzene	93952-14-8		290/292	1.35	1.00-1.50	77.7
13C-beta-HCH	222966-68-9		223/225	0.78	0.62-0.94	93.0
13C-gamma-HCH	104215-85-2		223/225	0.79	0.62-0.94	95.3
13C-delta-HCH			223/225	0.77	0.62-0.94	91.8
13C-Heptachlor			277/279	1.26	0.99-1.49	67.1
13C-Aldrin			270/272	1.61	1.24-1.86	83.1
13C-Chlordane, oxy			270/272	1.64	1.09-2.02	83.3
13C-Chlordane, gamma (trans)			277/279	1.28	0.99-1.49	84.4
13C-Nonachlor, trans-			277/279	1.26	0.99-1.49	83.0
13C-Nonachlor, cis-			277/279	1.26	0.99-1.49	75.1
13C-2,4'-DDE			258/260	1.56	1.25-1.87	99.4
13C-4,4'-DDE	201612-50-2		258/260	1.57	1.25-1.87	103
13C-4,4'-DDD			247/249	1.60	1.25-1.87	80.5
13C-2,4'-DDT			247/249	1.61	1.25-1.87	63.8
13C-4,4'-DDT	104215-84-1		247/249	1.57	1.25-1.87	51.6
13C-Mirex			277/279	1.30	1.00-1.50	67.1

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

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 Axys Internal Use Only [XSL Template: Pest4B.xsl; Created: 06-Feb-2019 10:05:08; Application: XMLTransformer-1.17.5;
Report Filename: PestHR_E1_Pest_CL8B_157DS54_Form4B_SJ2456907.html; Workgroup: WG65583; Design ID: 3361]

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-101 Rev. 40

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	ANAB ISO 17025	ANAB DoD **		
BFR	BTBPE	SGS AXYS MLA-033	MLA-033		Y																															
	DBDPE	SGS AXYS MLA-033	MLA-033		Y																															
	HBB	SGS AXYS MLA-033	MLA-033		Y																															
	PBEB	SGS AXYS MLA-033	MLA-033		Y																															
Bisphenols	Bisphenol A	SGS AXYS MLA-113	MLA-113		Y																															
	Bisphenol AF	SGS AXYS MLA-113	MLA-113		Y																															
	Bisphenol B	SGS AXYS MLA-113	MLA-113		Y																															
	Bisphenol E	SGS AXYS MLA-113	MLA-113		Y																															
	Bisphenol F	SGS AXYS MLA-113	MLA-113		Y																															
	Bisphenol S	SGS AXYS MLA-113	MLA-113		Y																															
BPA and MPE	4,4'-dihydroxy-2,2-diphenylpropane (Bisphenol A) (BPA)	SGS AXYS MLA-059	MLA-059																																	
	Mono-(2-ethyl-5-hydroxyhexyl) phthalate (MEHHP)	SGS AXYS MLA-059	MLA-059																																	
	Mono-(2-ethyl-5-oxohexyl) phthalate (MEOHP)	SGS AXYS MLA-059	MLA-059																																	
	Mono-(3-carboxypropyl) phthalate (MCPP)	SGS AXYS MLA-059	MLA-059																																	
	Mono-2-ethylhexyl phthalate (MEHP)	SGS AXYS MLA-059	MLA-059																																	
	Mono-benzyl phthalate (MBzP)	SGS AXYS MLA-059	MLA-059																																	
	Mono-butyl phthalate (MBP) (n + iso)	SGS AXYS MLA-059	MLA-059																																	
	Mono-cyclohexyl phthalate (MCHP)	SGS AXYS MLA-059	MLA-059																																	
	Mono-ethyl phthalate (MEP)	SGS AXYS MLA-059	MLA-059																																	
	Mono-iso-nonyl phthalate (MINP)	SGS AXYS MLA-059	MLA-059																																	
Mono-methyl phthalate (MMP)	SGS AXYS MLA-059	MLA-059																																		
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																																
			EPA 625	MLA-007																																
			EPA 8081	MLA-007			Y																													
	Pesticides category (CA only)		EPA 8270	MLA-007			Y																													
	2,4'-DDD			EPA 625	MLA-007																															
				EPA 8270	MLA-007			Y				Y	Y																							
				EPA 1699	MLA-028				Y				Y																							
				SGS AXYS MLA-028	MLA-028	Y	Y	Y				Y	Y	Y																						
				SGS AXYS MLA-007	MLA-007	Y	Y	Y					Y	Y																						
	2,4'-DDE			EPA 625	MLA-007																															
				EPA 8270	MLA-007			Y				Y	Y																							
				EPA 1699	MLA-028				Y				Y																							
				SGS AXYS MLA-028	MLA-028	Y	Y	Y				Y	Y	Y																						
				SGS AXYS MLA-007	MLA-007	Y	Y	Y					Y	Y																						
	2,4'-DDT			EPA 625	MLA-007																															
				EPA 8270	MLA-007				Y				Y	Y																						
				EPA 1699	MLA-028				Y				Y																							
				SGS AXYS MLA-028	MLA-028	Y	Y	Y				Y	Y	Y																						
				SGS AXYS MLA-007	MLA-007	Y	Y	Y					Y	Y																						
	4,4'-DDD			EPA 625	MLA-007																															
				EPA 8270	MLA-007				Y			Y	Y	Y	Y																					
				EPA 1699	MLA-028				Y				Y																							
				SGS AXYS MLA-028	MLA-028	Y	Y	Y				Y	Y	Y																						
				SGS AXYS MLA-007	MLA-007	Y	Y	Y					Y	Y																						
	4,4'-DDE			EPA 625	MLA-007																															
				EPA 8270	MLA-007				Y				Y	Y	Y	Y																				
				SGS AXYS MLA-028	MLA-028	Y	Y	Y				Y	Y	Y																						
			SGS AXYS MLA-007	MLA-007	Y	Y	Y					Y	Y																							

Accreditation Scope

SGS AXYS Analytical Services Ltd.
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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum								Tissue					Water					
				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	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
4,4'-DDT	EPA 1699	MLA-028																				
	SGS AXYS MLA-028	MLA-028		Y	Y	Y				Y	Y	Y								Y	Y	
	SGS AXYS MLA-007	MLA-007		Y	Y	Y				Y	Y										Y	
	EPA 625	MLA-007																				
	EPA 8270	MLA-007				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	
	SGS AXYS MLA-007	MLA-007		Y	Y	Y				Y	Y										Y	
	Aldrin	EPA 625	MLA-007																			
		EPA 8270	MLA-007				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
		SGS AXYS MLA-007	MLA-007		Y	Y	Y				Y	Y										Y
	Alpha-HCH	EPA 625	MLA-007																			
		EPA 8270	MLA-007				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
		SGS AXYS MLA-007	MLA-007		Y	Y	Y				Y	Y										Y
	Beta-HCH	EPA 625	MLA-007																			
		EPA 8270	MLA-007				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
SGS AXYS MLA-007		MLA-007		Y	Y	Y				Y	Y										Y	
Chlordane, technical	EPA 625	MLA-007																				
	EPA 8270	MLA-007				Y			Y	Y	Y	Y	Y								Y	
	SGS AXYS MLA-007	MLA-007				Y					Y										Y	
	EPA 625	MLA-007																				
	SGS AXYS MLA-028	MLA-028		Y	Y	Y				Y	Y	Y	Y	Y							Y	
cis-Chlordane (alpha-Chlordane)	EPA 8270	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	
	SGS AXYS MLA-007	MLA-007		Y	Y	Y				Y	Y										Y	
	EPA 625	MLA-007																				
cis-Nonachlor	EPA 8270	MLA-007				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	
	SGS AXYS MLA-007	MLA-007		Y	Y	Y				Y	Y										Y	
	EPA 608	MLA-007																				
Delta-HCH	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	
	SGS AXYS MLA-007	MLA-007		Y	Y	Y				Y	Y										Y	
	EPA 608	MLA-007																				
Dieldrin	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	
	SGS AXYS MLA-007	MLA-007		Y	Y	Y				Y	Y										Y	
	EPA 608	MLA-007																				
Endosulphan I	EPA 608	MLA-007																				
	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	
	SGS AXYS MLA-007	MLA-007		Y	Y	Y				Y	Y										Y	
Endosulphan II	EPA 608	MLA-007																				

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum								Tissue					Water																
				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
		EPA 8081	MLA-007																														
		EPA 1699	MLA-028																														
		SGS AXYS MLA-028	MLA-028	Y	Y	Y					Y	Y	Y		Y								Y										Y
Endosulphan sulphate		SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y																			Y	
		EPA 608	MLA-007																														
		EPA 8081	MLA-007			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
Endrin		SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y																			Y	
		EPA 608	MLA-007																														
		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
Endrin aldehyde		SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y																			Y	
		EPA 608	MLA-007																														
		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
Endrin ketone		SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y																			Y	
		EPA 608	MLA-007																														
		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
Gamma-HCH (Lindane)		SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y																			Y	
		EPA 625	MLA-007																														
		EPA 8270	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
Heptachlor		SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y																			Y	
		EPA 625	MLA-007																														
		EPA 8270	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
Heptachlor epoxide		SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y																			Y	
		EPA 608	MLA-007																														
		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
Hexachlorobenzene		SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y																			Y	
		EPA 1625	MLA-007																														
		EPA 8270	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
Methoxychlor		SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y																			Y	
		EPA 608	MLA-007																														
		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
Mirex		SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y																			Y	
		EPA 8270	MLA-007			Y				Y	Y	Y	Y																				Y
		EPA 1699	MLA-028			Y								Y																			Y

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Accreditation Scope				Serum										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 **		
Chlordane	Oxychlordane	SGS AXYS MLA-028	MLA-028	Y	Y	Y					Y			Y		Y							Y													
		SGS AXYS MLA-007	MLA-007	Y	Y	Y									Y		Y							Y												
	Toxaphene	EPA 8270	MLA-007			Y						Y																								
		EPA 1699	MLA-028				Y								Y																					
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y	Y		Y		Y							Y												
		SGS AXYS MLA-007	MLA-007	Y	Y	Y											Y							Y												
	trans-Chlordane (gamma-Chlordane)	EPA 8270	MLA-007				Y			Y		Y	Y	Y												Y		Y								
		EPA 1699	MLA-028					Y							Y																					
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y	Y		Y		Y								Y											
		SGS AXYS MLA-007	MLA-007	Y	Y	Y											Y							Y												
	trans-Nonachlor	EPA 8270	MLA-007				Y					Y	Y													Y										
		EPA 1699	MLA-028					Y							Y																					
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y	Y		Y		Y								Y											
		SGS AXYS MLA-007	MLA-007	Y	Y	Y											Y							Y												
	PAH	1,2,6-Trimethylphenanthrene	SGS AXYS MLA-021	MLA-021		Y																		Y												
		1,2-Dimethylnaphthalene	SGS AXYS MLA-021	MLA-021		Y																		Y												
1,4,6,7-Tetramethylnaphthalene		SGS AXYS MLA-021	MLA-021		Y																		Y													
1,7-Dimethylfluorene		SGS AXYS MLA-021	MLA-021		Y																		Y													
1,7-Dimethylphenanthrene		SGS AXYS MLA-021	MLA-021		Y																		Y													
1,8-Dimethylphenanthrene		SGS AXYS MLA-021	MLA-021		Y																		Y													
1-Methylchrysene		SGS AXYS MLA-021	MLA-021		Y																		Y													
1-Methylnaphthalene		SGS AXYS MLA-021	MLA-021		Y																		Y													
1-Methylphenanthrene		SGS AXYS MLA-021	MLA-021		Y																		Y													
2,3,5-Trimethylnaphthalene		SGS AXYS MLA-021	MLA-021		Y																		Y													
2,3,6-Trimethylnaphthalene		SGS AXYS MLA-021	MLA-021		Y																		Y													
2,4-Dimethyldibenzothiophene		SGS AXYS MLA-021	MLA-021		Y																		Y													
2,6-Dimethylnaphthalene		SGS AXYS MLA-021	MLA-021		Y																		Y													
2,6-Dimethylphenanthrene		SGS AXYS MLA-021	MLA-021		Y																		Y													
2-Methylantracene		SGS AXYS MLA-021	MLA-021		Y																		Y													
2-Methyldibenzothiophene		SGS AXYS MLA-021	MLA-021		Y																		Y													
2-Methylfluorene		SGS AXYS MLA-021	MLA-021		Y																		Y													
2-Methylnaphthalene		EPA 1625	MLA-021																																	
		EPA 8270	MLA-021				Y			Y					Y										Y											
		SGS AXYS MLA-021	MLA-021	Y	Y										Y									Y												
2-Methylphenanthrene		SGS AXYS MLA-021	MLA-021		Y																		Y													
3,6-Dimethylphenanthrene		SGS AXYS MLA-021	MLA-021		Y																		Y													
3-Methyldibenzothiophene		SGS AXYS MLA-021	MLA-021		Y																		Y													
3-Methylfluoranthene/ Benzo(a)fluorene		SGS AXYS MLA-021	MLA-021		Y																		Y													
3-Methylphenanthrene		SGS AXYS MLA-021	MLA-021		Y																		Y													
5,9-Dimethylchrysene		SGS AXYS MLA-021	MLA-021		Y																		Y													
5/6-Methylchrysene		SGS AXYS MLA-021	MLA-021		Y																		Y													
7-Methylbenzo(a)pyrene		SGS AXYS MLA-021	MLA-021		Y																		Y													
9/4-Methylphenanthrenes		SGS AXYS MLA-021	MLA-021		Y																		Y													
Acenaphthene		EPA 1625	MLA-021																						Y			Y	Y							
		EPA 8270	MLA-021				Y			Y	Y		Y	Y																						
		SGS AXYS MLA-021	MLA-021	Y	Y										Y		Y							Y												
Acenaphthylene		EPA 1625	MLA-021																						Y			Y	Y							
		EPA 8270	MLA-021				Y			Y	Y		Y	Y																						

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum											Tissue						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	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
Anthracene	SGS AXYS MLA-021	MLA-021		Y	Y																					
	EPA 1625	MLA-021																								
	EPA 8270	MLA-021			Y		Y	Y		Y	Y															
Benz[a]anthracene	SGS AXYS MLA-021	MLA-021		Y	Y																					
	EPA 1625	MLA-021																								
	EPA 8270	MLA-021			Y		Y	Y		Y	Y															
Benzo[a]pyrene	SGS AXYS MLA-021	MLA-021		Y	Y									Y												
	EPA 1625	MLA-021																								
	EPA 8270	MLA-021			Y		Y	Y		Y	Y															
Benzo[b]fluoranthene	SGS AXYS MLA-021	MLA-021		Y	Y									Y												
	EPA 1625	MLA-021																								
	EPA 8270	MLA-021			Y		Y	Y		Y	Y															
Benzo[e]pyrene	SGS AXYS MLA-021	MLA-021		Y	Y									Y												
	EPA 1625	MLA-021																								
	EPA 8270	MLA-021			Y		Y	Y		Y	Y															
Benzo[ghi]perylene	SGS AXYS MLA-021	MLA-021		Y	Y									Y												
	EPA 1625	MLA-021																								
	EPA 8270	MLA-021			Y		Y	Y		Y	Y															
Benzo[k]fluoranthene	SGS AXYS MLA-021	MLA-021		Y	Y									Y												
	EPA 1625	MLA-021																								
	EPA 8270	MLA-021			Y		Y			Y	Y															
Biphenyl	SGS AXYS MLA-021	MLA-021																								
	EPA 1625	MLA-021																								
	EPA 8270	MLA-021			Y		Y			Y	Y															
C1-Acenaphthenes	SGS AXYS MLA-021	MLA-021		Y																						
C1-Benz(a)anthracenes/chrysenes	SGS AXYS MLA-021	MLA-021		Y																						
C1-Benzofluoranthenes/ Benzopyrenes	SGS AXYS MLA-021	MLA-021		Y																						
C1-Biphenyls	SGS AXYS MLA-021	MLA-021		Y																						
C1-Dibenzothiophene	SGS AXYS MLA-021	MLA-021		Y																						
C1-Fluoranthenes/Pyrenes	SGS AXYS MLA-021	MLA-021		Y																						
C1-Fluorenes	SGS AXYS MLA-021	MLA-021		Y																						
C1-Naphthalenes	SGS AXYS MLA-021	MLA-021		Y																						
C1-Phenanthrenes/Anthracenes	SGS AXYS MLA-021	MLA-021		Y																						
C2-Benz(a)anthracenes/Chrysenes	SGS AXYS MLA-021	MLA-021		Y																						
C2-Benzofluoranthenes/ Benzopyrenes	SGS AXYS MLA-021	MLA-021		Y																						
C2-Biphenyls	SGS AXYS MLA-021	MLA-021		Y																						
C2-Dibenzothiophene	SGS AXYS MLA-021	MLA-021		Y																						
C2-Fluoranthenes/Pyrenes	SGS AXYS MLA-021	MLA-021		Y																						
C2-Fluorenes	SGS AXYS MLA-021	MLA-021		Y																						
C2-Naphthalenes	SGS AXYS MLA-021	MLA-021		Y																						
C2-Phenanthrenes/Anthracenes	SGS AXYS MLA-021	MLA-021		Y																						
C3-Benz(a)anthracenes/Chrysenes	SGS AXYS MLA-021	MLA-021		Y																						
C3-Dibenzothiophene	SGS AXYS MLA-021	MLA-021		Y																						
C3-Fluoranthenes/Pyrenes	SGS AXYS MLA-021	MLA-021		Y																						
C3-Fluorenes	SGS AXYS MLA-021	MLA-021		Y																						
C3-Naphthalenes	SGS AXYS MLA-021	MLA-021		Y																						
C3-Phenanthrenes/Anthracenes	SGS AXYS MLA-021	MLA-021		Y																						
C4-Benz(a)anthracenes/Chrysenes	SGS AXYS MLA-021	MLA-021		Y																						
C4-Dibenzothiophene	SGS AXYS MLA-021	MLA-021		Y																						
C4-Fluoranthenes/Pyrenes	SGS AXYS MLA-021	MLA-021		Y																						
C4-Naphthalenes	SGS AXYS MLA-021	MLA-021		Y																						
C4-Phenanthrenes/Anthracenes	SGS AXYS MLA-021	MLA-021		Y																						

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum										Tissue			Urine		Water																			
				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 131/142	PCB 131/142	EPA 8270	MLA-007																																			
		SGS AXYS MLA-007	MLA-007		Y																																	
PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl	PCB 132 2,2',3,3',4,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		SGS AXYS MLA-010	MLA-010	Y	Y	Y										Y																						
PCB 132/168	PCB 132/168	EPA 8270	MLA-007								Y																											
		EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl	PCB 133 2,2',3,3',5,5'-Hexachlorobiphenyl	EPA 8270	MLA-007								Y																											
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 134 2,2',3,3',5,6'-Hexachlorobiphenyl	PCB 134 2,2',3,3',5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 134/143	PCB 134/143	EPA 8270	MLA-007								Y																											
		SGS AXYS MLA-007	MLA-007		Y											Y																						
PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl	PCB 135 2,2',3,3',5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl	PCB 136 2,2',3,3',6,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		EPA 8270	MLA-007									Y																										
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y																						
		SGS AXYS MLA-007	MLA-007		Y											Y																						
PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl	PCB 137 2,2',3,4,4',5-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		EPA 8270	MLA-007									Y																										
		SGS AXYS MLA-010	MLA-010	Y	Y	Y							Y		Y																							
		SGS AXYS MLA-007	MLA-007		Y											Y																						
PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl	PCB 138 2,2',3,4,4',5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
		SGS AXYS MLA-901	MLA-901	Y																																		
PCB 138/163/164	PCB 138/163/164	EPA 8270	MLA-007											Y																								
		SGS AXYS MLA-007	MLA-007		Y											Y																						
PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl	PCB 139 2,2',3,4,4',6-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 14 3,5-Dichlorobiphenyl	PCB 14 3,5-Dichlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		EPA 8270	MLA-007									Y																										
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl	PCB 140 2,2',3,4,4',6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		EPA 8270	MLA-007									Y																										
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl	PCB 141 2,2',3,4,5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		EPA 8270	MLA-007									Y																										
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl	PCB 142 2,2',3,4,5,6-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl	PCB 143 2,2',3,4,5,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl	PCB 144 2,2',3,4,5',6-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 144/135	PCB 144/135	EPA 8270	MLA-007											Y																								
		SGS AXYS MLA-007	MLA-007		Y											Y																						
PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl	PCB 145 2,2',3,4,6,6'-Hexachlorobiphenyl	EPA 1668	MLA-010				Y	Y	Y	Y	Y	Y	Y	Y																								
		EPA 8270	MLA-007												Y																							
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y																							
PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl	PCB 146 2,2',3,4',5,5'-Hexachlorobiphenyl	EPA 1668	MLA-010	Y	Y	Y								Y																								

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)



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

