

SGS

AXYS

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Sidney, BC, Canada V8L5X2

TOLL-FREE: 1-888-373-0881

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:	WG67276	Date:	01-Apr-2019
Analysis Type:	PAH	Matrix Type:	XAD
BATCH MAKEUP			
Contract: 4972 Samples: L30772-1 PDI-RB-XD-190127 L30772-2 PDI-WS-T04-1902 L30772-3 PDI-WS-T05-1902 L30772-4 PDI-WS-T06-1901 L30772-5 PDI-WS-T07-1901 L30772-6 PDI-WS-T01-1902 L30772-7 PDI-WS-T02-1902 L30772-8 PDI-WS-T03-1902		Blank: WG67276-101 Reference or Spike: WG67276-102 WG67276-103 Duplicate:	
Comments: 1. Data are considered final. 2. Data are not blank corrected. Blank data should be taken into consideration when evaluating sample data. 3. Blank data should be evaluated against specifications using the same blank sample size as the size of the client samples.			

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February 2017

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

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-RB-XD-190127
Sample Collection:
27-Jan-2019 15:50

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 13:47:00

Extract Volume (uL): 400

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
L30772-1

1 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1429.D

PH9S1428.D

PH9S1423.D

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
Naphthalene	91-20-3	MAX	920	4.10 (S)	0.07	1.006
Benz[a]anthracene ³	56-55-3	U		0.660 (S)		
Chrysene ⁴	218-01-9	J	0.952	0.663 (S)	0.35	1.003
Benzo[b]fluoranthene	205-99-2	U		1.21 (S)		
Benzo[j,k]fluoranthenes		U		1.38 (S)		
Benzo[a]pyrene	50-32-8	U		1.83 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		9.29 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	U		3.55 (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; MAX = concentration is an estimated maximum value.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Henry Huang _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-1_Form1A_PH9S1429.D_SJ2535676.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-RB-XD-190127
Sample Collection:
27-Jan-2019 15:50

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4972

Matrix: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 13:47:00

Extract Volume (uL): 400

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.: L30772-1

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1429.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene d-8		6000	3380	56.3	0.09	0.609
2-Methylnaphthalene d-10		5910	3930	66.4	0.19	0.755
2,6-Dimethylnaphthalene d-12		6170	4480	72.7	0.78	0.895
Acenaphthylene d-8		6180	4590	74.2	0.17	0.961
Dibenzothiophene d-8		6110	4550	74.5	0.09	0.792
Phenanthrene d-10		5420	4600	85.0	0.15	0.808
Fluoranthene d-10		5960	4980	83.6	0.17	0.971
Benzo[a]anthracene d-12		6090	4650	76.4	0.24	1.164
Chrysene d-12		5880	4560	77.5	0.27	1.169
Benzo[b]fluoranthene d-12		5910	4980	84.3	0.21	0.958
Benzo[k]fluoranthene d-12		6000	5110	85.2	0.20	0.962
Benzo[a]pyrene d-12		6210	5010	80.6	0.20	1.009
Perylene d-12		6450	5170	80.2	0.25	1.023
Dibenzo[a,h]anthracene d-14		5750	3760	65.5	0.27	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	4090	68.5	0.18	1.206
Benzo[ghi]perylene d-12		5940	4320	72.7	0.21	1.238
	LAB FLAG ¹	SPIKE CONC. (ng/sample)	CONC. FOUND (ng/sample)	REPORTING LIMIT (RL) ³ (ng/sample)	R(%) ²	ION ABUND. RATIO

CLIENT STANDARD

Anthracene d-10		1990	1870	1.96 (S)	93.9	0.14
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(1) Where applicable, custom lab flags have been used on this report.

(2) R% = percent recovery.

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

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

Signed: _____ Henry Huang _____

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T04-1902
Sample Collection:
17-Feb-2019 19:35

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: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 14:36:00

Extract Volume (uL): 400

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
L30772-2

1 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1430.D

PH9S1428.D

PH9S1423.D

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COMPOUND	CAS NO.	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	ION ABUND. RATIO	RRT
Naphthalene	91-20-3	E MAX				
Benz[a]anthracene ³	56-55-3	J	9.69	0.806 (S)	0.32	1.002
Chrysene ⁴	218-01-9	J	22.5	0.796 (S)	0.31	1.002
Benzo[b]fluoranthene	205-99-2	U		2.06 (S)		
Benzo[j,k]fluoranthenes		U		2.21 (S)		
Benzo[a]pyrene	50-32-8	U		2.95 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		3.21 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	K J	3.25	1.69 (S)	2.17	1.003

(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; E = exceeds calibrated linear range, see dilution data; MAX = concentration is an estimated maximum value.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Henry Huang _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-2_Form1A_PH9S1430.D_SJ2535677.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T04-1902
Sample Collection:
17-Feb-2019 19:35

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: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 14:36:00

Extract Volume (uL): 400

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.: L30772-2

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1430.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	ION ABUND. RATIO	RRT
Naphthalene d-8		6000	3020	50.4	0.10	0.609
2-Methylnaphthalene d-10		5910	3570	60.4	0.19	0.755
2,6-Dimethylnaphthalene d-12		6170	4040	65.6	0.77	0.895
Acenaphthylene d-8		6180	4150	67.1	0.15	0.961
Dibenzothiophene d-8		6110	4080	66.8	0.09	0.792
Phenanthrene d-10		5420	4220	77.9	0.15	0.808
Fluoranthene d-10		5960	4530	76.1	0.17	0.971
Benzo[a]anthracene d-12		6090	4350	71.5	0.24	1.164
Chrysene d-12		5880	4340	73.9	0.27	1.169
Benzo[b]fluoranthene d-12		5910	4700	79.5	0.21	0.958
Benzo[k]fluoranthene d-12		6000	4900	81.6	0.20	0.962
Benzo[a]pyrene d-12		6210	4850	78.1	0.20	1.008
Perylene d-12		6450	5120	79.4	0.25	1.023
Dibenzo[a,h]anthracene d-14		5750	3800	66.2	0.27	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	4100	68.7	0.18	1.206
Benzo[ghi]perylene d-12		5940	4330	72.8	0.20	1.238
	LAB FLAG ¹	SPIKE CONC. (ng/sample)	CONC. FOUND (ng/sample)	REPORTING LIMIT (RL) ³ (ng/sample)	R(%) ²	ION ABUND. RATIO

CLIENT STANDARD

Anthracene d-10		1990	1800	2.06 (S)	90.4	0.14
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(1) Where applicable, custom lab flags have been used on this report.

(2) R% = percent recovery.

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

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

Signed: _____ Henry Huang _____

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T04-1902
Sample Collection:
17-Feb-2019 19:35

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: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 28-Mar-2019 Time: 04:37:00

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: 5

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
L30772-2 N

1 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1571.D

PH9S1428.D

PH9S1561.D

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
Naphthalene	91-20-3	D MAX	19100	53.0 (S)	0.07	1.006
Benz[a]anthracene ³	56-55-3	X				
Chrysene ⁴	218-01-9	X				
Benzo[b]fluoranthene	205-99-2	X				
Benzo[j,k]fluoranthenes		X				
Benzo[a]pyrene	50-32-8	X				
Dibenz[a,h]anthracene ⁵	53-70-3	X				
Indeno[1,2,3-cd]pyrene	193-39-5	X				

(1) Where applicable, custom lab flags have been used on this report; D = dilution data; X = result reported separately; MAX = concentration is an estimated maximum value.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Henry Huang _____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-2_Form1A_PH9S1571.D_SJ2537301.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T04-1902
Sample Collection:
17-Feb-2019 19:35

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: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 28-Mar-2019 **Time:** 04:37:00

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: 5

Concentration Units: ng absolute

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L30772-2 N

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1571.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1561.D

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
Naphthalene d-8	D	6000	2860	47.6	0.10	0.607
2-Methylnaphthalene d-10	X					
2,6-Dimethylnaphthalene d-12	X					
Acenaphthylene d-8	X					
Dibenzothiophene d-8	X					
Phenanthrene d-10	X					
Fluoranthene d-10	X					
Benzo[a]anthracene d-12	X					
Chrysene d-12	X					
Benzo[b]fluoranthene d-12	X					
Benzo[k]fluoranthene d-12	X					
Benzo[a]pyrene d-12	X					
Perylene d-12	X					
Dibenzo[a,h]anthracene d-14	X					
Indeno[1,2,3-cd]pyrene d-12	X					
Benzo[ghi]perylene d-12	X					

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

(2) R% = percent recovery.

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

Signed: _____ Henry Huang _____

For Axs Internal Use Only [XSL Template: Pest2.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-2_Form2_PH9S1571.D_SJ2537301.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T05-1902
Sample Collection:
17-Feb-2019 19:17

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: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 15:25:00

Extract Volume (uL): 400

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
L30772-3

1 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1431.D

PH9S1428.D

PH9S1423.D

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
Naphthalene	91-20-3	MAX	1130	8.54 (S)	0.07	1.006
Benz[a]anthracene ³	56-55-3	J	8.91	2.77 (S)	0.24	1.002
Chrysene ⁴	218-01-9	J	20.3	2.72 (S)	0.33	1.002
Benzo[b]fluoranthene	205-99-2	U		4.16 (S)		
Benzo[j,k]fluoranthenes		U		4.86 (S)		
Benzo[a]pyrene	50-32-8	U		6.78 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		5.99 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	U		4.57 (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; MAX = concentration is an estimated maximum value.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Henry Huang _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-3_Form1A_PH9S1431.D_SJ2535678.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T05-1902
Sample Collection:
17-Feb-2019 19:17

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: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 15:25:00

Extract Volume (uL): 400

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.: L30772-3

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1431.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene d-8		6000	1730	28.8	0.09	0.609
2-Methylnaphthalene d-10		5910	2240	37.9	0.19	0.756
2,6-Dimethylnaphthalene d-12		6170	2720	44.1	0.79	0.896
Acenaphthylene d-8		6180	2890	46.8	0.15	0.961
Dibenzothiophene d-8		6110	4320	70.8	0.09	0.792
Phenanthrene d-10		5420	4410	81.4	0.15	0.808
Fluoranthene d-10		5960	4190	70.4	0.17	0.971
Benzo[a]anthracene d-12		6090	2850	46.7	0.24	1.164
Chrysene d-12		5880	2950	50.1	0.27	1.169
Benzo[b]fluoranthene d-12		5910	4170	70.6	0.21	0.958
Benzo[k]fluoranthene d-12		6000	4250	70.8	0.20	0.962
Benzo[a]pyrene d-12		6210	4110	66.2	0.20	1.008
Perylene d-12		6450	4260	66.0	0.25	1.023
Dibenzo[a,h]anthracene d-14		5750	2760	48.0	0.28	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	3040	51.0	0.18	1.206
Benzo[ghi]perylene d-12		5940	3410	57.5	0.20	1.238
	LAB FLAG ¹	SPIKE CONC. (ng/sample)	CONC. FOUND (ng/sample)	REPORTING LIMIT (RL) ³ (ng/sample)	R(%) ²	ION ABUND. RATIO

CLIENT STANDARD

Anthracene d-10		1990	1820	4.36 (S)	91.3	0.13
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(1) Where applicable, custom lab flags have been used on this report.

(2) R% = percent recovery.

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

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

Signed: _____ Henry Huang _____

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T06-1901
Sample Collection:
27-Jan-2019 10:40

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: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 **Time:** 16:13:00

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L30772-4

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1432.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene	91-20-3	MAX	2120	3.70 (S)	0.07	1.006
Benz[a]anthracene ³	56-55-3	J	4.42	1.03 (S)	0.28	1.003
Chrysene ⁴	218-01-9	J	12.0	0.965 (S)	0.31	1.002
Benzo[b]fluoranthene	205-99-2	U		2.88 (S)		
Benzo[j,k]fluoranthenes		U		3.18 (S)		
Benzo[a]pyrene	50-32-8	U		4.03 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		2.41 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	K J	2.61	1.70 (S)	2.99	1.004

(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; MAX = concentration is an estimated maximum value.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Henry Huang _____

For Axys Internal Use Only [XSL Template: Pest1A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-4_Form1A_PH9S1432.D_SJ2535679.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T06-1901
Sample Collection:
27-Jan-2019 10:40

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: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 16:13:00

Extract Volume (uL): 400

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.: L30772-4

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1432.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene d-8		6000	2350	39.1	0.09	0.609
2-Methylnaphthalene d-10		5910	2750	46.5	0.19	0.755
2,6-Dimethylnaphthalene d-12		6170	3140	50.9	0.78	0.896
Acenaphthylene d-8		6180	3160	51.1	0.18	0.961
Dibenzothiophene d-8		6110	3550	58.2	0.09	0.792
Phenanthrene d-10		5420	3780	69.8	0.15	0.808
Fluoranthene d-10		5960	4000	67.1	0.17	0.971
Benzo[a]anthracene d-12		6090	3540	58.1	0.24	1.164
Chrysene d-12		5880	3620	61.5	0.27	1.169
Benzo[b]fluoranthene d-12		5910	4010	67.8	0.21	0.958
Benzo[k]fluoranthene d-12		6000	4200	70.0	0.20	0.962
Benzo[a]pyrene d-12		6210	4220	68.0	0.20	1.008
Perylene d-12		6450	4330	67.1	0.25	1.023
Dibenzo[a,h]anthracene d-14		5750	3400	59.2	0.27	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	3520	58.9	0.18	1.206
Benzo[ghi]perylene d-12		5940	3740	63.0	0.20	1.238
	LAB FLAG ¹	SPIKE CONC. (ng/sample)	CONC. FOUND (ng/sample)	REPORTING LIMIT (RL) ³ (ng/sample)	R(%) ²	ION ABUND. RATIO

CLIENT STANDARD

Anthracene d-10		1990	1810	3.79 (S)	90.9	0.14
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(1) Where applicable, custom lab flags have been used on this report.

(2) R% = percent recovery.

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

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

Signed: _____ Henry Huang _____

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T07-1901
Sample Collection:
26-Jan-2019 09:46

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: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 17:02:00

Extract Volume (uL): 400

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
L30772-5

1 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1433.D

PH9S1428.D

PH9S1423.D

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
Naphthalene	91-20-3	MAX	1510	9.76 (S)	0.08	1.006
Benz[a]anthracene ³	56-55-3	J	3.70	0.673 (S)	0.25	1.002
Chrysene ⁴	218-01-9	J	11.9	0.685 (S)	0.35	1.002
Benzo[b]fluoranthene	205-99-2	U		1.70 (S)		
Benzo[j,k]fluoranthenes		U		1.78 (S)		
Benzo[a]pyrene	50-32-8	U		2.55 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		3.05 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	U		2.47 (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; MAX = concentration is an estimated maximum value.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Henry Huang _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-5_Form1A_PH9S1433.D_SJ2535680.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T07-1901
Sample Collection:
26-Jan-2019 09:46

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: XAD

Sample Receipt Date: 22-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 17:02:00

Extract Volume (uL): 400

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.: L30772-5

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1433.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene d-8		6000	2610	43.6	0.09	0.609
2-Methylnaphthalene d-10		5910	3250	55.0	0.19	0.755
2,6-Dimethylnaphthalene d-12		6170	3860	62.6	0.79	0.896
Acenaphthylene d-8		6180	4080	66.0	0.18	0.961
Dibenzothiophene d-8		6110	3670	60.1	0.09	0.792
Phenanthrene d-10		5420	4290	79.1	0.15	0.808
Fluoranthene d-10		5960	4740	79.6	0.17	0.971
Benzo[a]anthracene d-12		6090	4450	73.1	0.24	1.164
Chrysene d-12		5880	4480	76.2	0.27	1.169
Benzo[b]fluoranthene d-12		5910	4730	80.0	0.22	0.958
Benzo[k]fluoranthene d-12		6000	4990	83.2	0.20	0.962
Benzo[a]pyrene d-12		6210	4780	77.0	0.21	1.009
Perylene d-12		6450	5020	77.9	0.25	1.023
Dibenzo[a,h]anthracene d-14		5750	3660	63.7	0.28	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	3980	66.7	0.18	1.207
Benzo[ghi]perylene d-12		5940	4270	71.9	0.20	1.238
	LAB FLAG ¹	SPIKE CONC. (ng/sample)	CONC. FOUND (ng/sample)	REPORTING LIMIT (RL) ³ (ng/sample)	R(%) ²	ION ABUND. RATIO

CLIENT STANDARD

Anthracene d-10		1990	1890	7.35 (S)	94.7	0.14
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(1) Where applicable, custom lab flags have been used on this report.

(2) R% = percent recovery.

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

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

Signed: _____ Henry Huang _____

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T01-1902
Sample Collection:
18-Feb-2019 20:15

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: XAD

Sample Receipt Date: 21-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 **Time:** 17:51:00

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L30772-6

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1434.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene	91-20-3	MAX	2050	6.23 (S)	0.07	1.006
Benz[a]anthracene ³	56-55-3	J	4.68	1.34 (S)	0.27	1.003
Chrysene ⁴	218-01-9	J	17.1	1.35 (S)	0.35	1.002
Benzo[b]fluoranthene	205-99-2	U		2.43 (S)		
Benzo[j,k]fluoranthenes		U		2.68 (S)		
Benzo[a]pyrene	50-32-8	U		3.72 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		3.02 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	U		5.63 (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; MAX = concentration is an estimated maximum value.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Henry Huang _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-6_Form1A_PH9S1434.D_SJ2535681.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T01-1902
Sample Collection:
18-Feb-2019 20:15

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: XAD

Sample Receipt Date: 21-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 17:51:00

Extract Volume (uL): 400

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.: L30772-6

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1434.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene d-8		12000	4230	35.3	0.09	0.609
2-Methylnaphthalene d-10		11800	5620	47.6	0.19	0.755
2,6-Dimethylnaphthalene d-12		12300	6960	56.5	0.79	0.895
Acenaphthylene d-8		12400	7660	61.9	0.18	0.961
Dibenzothiophene d-8		12200	9000	73.7	0.09	0.792
Phenanthrene d-10		10800	9000	83.1	0.15	0.808
Fluoranthene d-10		11900	9110	76.5	0.17	0.971
Benzo[a]anthracene d-12		12200	7810	64.1	0.24	1.164
Chrysene d-12		11800	7720	65.7	0.27	1.169
Benzo[b]fluoranthene d-12		11800	9540	80.7	0.22	0.958
Benzo[k]fluoranthene d-12		12000	9930	82.8	0.20	0.962
Benzo[a]pyrene d-12		12400	9540	76.8	0.21	1.008
Perylene d-12		12900	10200	79.3	0.25	1.023
Dibenzo[a,h]anthracene d-14		11500	6980	60.8	0.28	1.211
Indeno[1,2,3-cd]pyrene d-12		11900	7550	63.2	0.18	1.206
Benzo[ghi]perylene d-12		11900	8090	68.1	0.20	1.238
	LAB FLAG ¹	SPIKE CONC. (ng/sample)	CONC. FOUND (ng/sample)	REPORTING LIMIT (RL) ³ (ng/sample)	R(%) ²	ION ABUND. RATIO

CLIENT STANDARD

Anthracene d-10		1990	3690	2.14 (S)	185	0.14
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(1) Where applicable, custom lab flags have been used on this report.

(2) R% = percent recovery.

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

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

Signed: _____ Henry Huang _____

For Axs Internal Use Only [XSL Template: Pest2.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-6_Form2_PH9S1434.D_SJ2535681.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T02-1902
Sample Collection:
18-Feb-2019 21:36

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: XAD

Sample Receipt Date: 21-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 **Time:** 18:40:00

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L30772-7

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1435.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene	91-20-3	MAX	1430	21.1 (S)	0.07	1.006
Benz[a]anthracene ³	56-55-3	K J	8.05	0.767 (S)	0.84	1.002
Chrysene ⁴	218-01-9	J	21.4	0.793 (S)	0.35	1.002
Benzo[b]fluoranthene	205-99-2	U		1.61 (S)		
Benzo[j,k]fluoranthenes		U		1.81 (S)		
Benzo[a]pyrene	50-32-8	U		2.53 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		3.77 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	U		3.15 (S)		

(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; MAX = concentration is an estimated maximum value.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Henry Huang _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-7_Form1A_PH9S1435.D_SJ2535682.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T02-1902
Sample Collection:
18-Feb-2019 21:36

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: XAD

Sample Receipt Date: 21-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 18:40:00

Extract Volume (uL): 400

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.: L30772-7

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1435.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene d-8		6000	2050	34.2	0.09	0.609
2-Methylnaphthalene d-10		5910	2640	44.7	0.19	0.755
2,6-Dimethylnaphthalene d-12		6170	3260	52.9	0.79	0.896
Acenaphthylene d-8		6180	3440	55.7	0.15	0.961
Dibenzothiophene d-8		6110	3760	61.6	0.09	0.792
Phenanthrene d-10		5420	3820	70.5	0.15	0.808
Fluoranthene d-10		5960	4260	71.6	0.17	0.971
Benzo[a]anthracene d-12		6090	4090	67.1	0.24	1.164
Chrysene d-12		5880	4030	68.5	0.27	1.169
Benzo[b]fluoranthene d-12		5910	4530	76.6	0.21	0.958
Benzo[k]fluoranthene d-12		6000	4670	77.9	0.20	0.962
Benzo[a]pyrene d-12		6210	4410	71.0	0.20	1.008
Perylene d-12		6450	4710	73.0	0.25	1.023
Dibenzo[a,h]anthracene d-14		5750	2660	46.4	0.28	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	3000	50.2	0.18	1.206
Benzo[ghi]perylene d-12		5940	3380	56.9	0.20	1.238
	LAB FLAG ¹	SPIKE CONC. (ng/sample)	CONC. FOUND (ng/sample)	REPORTING LIMIT (RL) ³ (ng/sample)	R(%) ²	ION ABUND. RATIO

CLIENT STANDARD

Anthracene d-10		1990	1950	2.25 (S)	97.7	0.14
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(1) Where applicable, custom lab flags have been used on this report.

(2) R% = percent recovery.

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

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

Signed: _____ Henry Huang _____

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T03-1902
Sample Collection:
18-Feb-2019 11:31

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: XAD

Sample Receipt Date: 21-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 **Time:** 19:29:00

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Project No. PORTLAND HARBOR PDI AND
BASELINE WATER

Lab Sample I.D.: L30772-8

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1436.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene	91-20-3	MAX	1870	20.3 (S)	0.08	1.006
Benz[a]anthracene ³	56-55-3	J	10.5	1.07 (S)	0.30	1.003
Chrysene ⁴	218-01-9	J	29.2	1.05 (S)	0.34	1.002
Benzo[b]fluoranthene	205-99-2	J	3.42	2.39 (S)	0.25	1.004
Benzo[j,k]fluoranthenes		K J	3.75	2.58 (S)	0.43	1.002
Benzo[a]pyrene	50-32-8	U		3.83 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		3.91 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	U		3.42 (S)		

(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; MAX = concentration is an estimated maximum value.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Henry Huang _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_L30772-8_Form1A_PH9S1436.D_SJ2535683.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
PDI-WS-T03-1902
Sample Collection:
18-Feb-2019 11:31

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: XAD

Sample Receipt Date: 21-Feb-2019

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 19:29:00

Extract Volume (uL): 400

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.: L30772-8

Sample Size: 1 sample

Initial Calibration Date: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

Sample Data Filename: PH9S1436.D

Blank Data Filename: PH9S1428.D

Cal. Ver. Data Filename: PH9S1423.D

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
Naphthalene d-8		6000	1840	30.6	0.09	0.609
2-Methylnaphthalene d-10		5910	2220	37.5	0.19	0.755
2,6-Dimethylnaphthalene d-12		6170	2610	42.3	0.79	0.896
Acenaphthylene d-8		6180	2750	44.5	0.15	0.961
Dibenzothiophene d-8		6110	3200	52.4	0.09	0.792
Phenanthrene d-10		5420	3230	59.6	0.15	0.808
Fluoranthene d-10		5960	3710	62.2	0.17	0.971
Benzo[a]anthracene d-12		6090	3440	56.5	0.24	1.164
Chrysene d-12		5880	3470	58.9	0.27	1.169
Benzo[b]fluoranthene d-12		5910	4070	68.8	0.21	0.958
Benzo[k]fluoranthene d-12		6000	4320	72.0	0.20	0.962
Benzo[a]pyrene d-12		6210	3940	63.5	0.20	1.009
Perylene d-12		6450	4220	65.4	0.25	1.024
Dibenzo[a,h]anthracene d-14		5750	2560	44.6	0.28	1.212
Indeno[1,2,3-cd]pyrene d-12		5970	2790	46.7	0.19	1.207
Benzo[ghi]perylene d-12		5940	3170	53.4	0.19	1.238
	LAB FLAG ¹	SPIKE CONC. (ng/sample)	CONC. FOUND (ng/sample)	REPORTING LIMIT (RL) ³ (ng/sample)	R(%) ²	ION ABUND. RATIO

CLIENT STANDARD

Anthracene d-10		1990	1830	1.61 (S)	91.8	0.14
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(1) Where applicable, custom lab flags have been used on this report.

(2) R% = percent recovery.

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

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

Signed: _____ Henry Huang _____

SGS AXYS METHOD MLA-021 Rev 12

Form 1A
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: XAD

Sample Receipt Date: N/A

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 12:58:00

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

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:

N/A

WG67276-101

1 sample

27-Feb-2019

LR GC/MS

RTX5

PH9S1428.D

PH9S1428.D

PH9S1423.D

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
Naphthalene	91-20-3	J MAX	27.1	4.02 (S)	0.09	1.006
Benz[a]anthracene ³	56-55-3	U		0.512 (S)		
Chrysene ⁴	218-01-9	J	0.616	0.530 (S)	0.25	1.002
Benzo[b]fluoranthene	205-99-2	U		2.33 (S)		
Benzo[j,k]fluoranthenes		U		2.56 (S)		
Benzo[a]pyrene	50-32-8	U		3.54 (S)		
Dibenz[a,h]anthracene ⁵	53-70-3	U		3.79 (S)		
Indeno[1,2,3-cd]pyrene	193-39-5	U		3.54 (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; MAX = concentration is an estimated maximum value.

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

(3) May co-elute with Cyclopenta(cd)pyrene.

(4) May co-elute with Triphenylene.

(5) May co-elute with Dibenz[a,c]anthracene.

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

Signed: _____ Henry Huang _____

For Axy Internal Use Only [XSL Template: Pest1A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_WG67276-101_Form1A_PH9S1428.D_SJ2535692.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 2
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: XAD

Sample Receipt Date: N/A

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 12:58:00

Extract Volume (uL): 400

Injection Volume (uL): 1.0

Dilution Factor: N/A

Concentration Units: ng absolute

Project No.

N/A

Lab Sample I.D.:

WG67276-101

Sample Size:

1 sample

Initial Calibration Date:

27-Feb-2019

Instrument ID:

LR GC/MS

GC Column ID:

RTX5

Sample Data Filename:

PH9S1428.D

Blank Data Filename:

PH9S1428.D

Cal. Ver. Data Filename:

PH9S1423.D

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
Naphthalene d-8		6000	1550	25.9	0.09	0.608
2-Methylnaphthalene d-10		5910	1880	31.7	0.19	0.755
2,6-Dimethylnaphthalene d-12		6170	2220	36.1	0.78	0.895
Acenaphthylene d-8		6180	2330	37.7	0.15	0.961
Dibenzothiophene d-8		6110	2710	44.4	0.09	0.792
Phenanthrene d-10		5420	2980	55.0	0.15	0.808
Fluoranthene d-10		5960	3620	60.8	0.17	0.971
Benzo[a]anthracene d-12		6090	3590	59.0	0.24	1.164
Chrysene d-12		5880	3720	63.3	0.27	1.169
Benzo[b]fluoranthene d-12		5910	4120	69.7	0.21	0.958
Benzo[k]fluoranthene d-12		6000	4260	71.1	0.20	0.962
Benzo[a]pyrene d-12		6210	4100	66.1	0.20	1.009
Perylene d-12		6450	4360	67.5	0.25	1.023
Dibenzo[a,h]anthracene d-14		5750	2530	44.0	0.27	1.211
Indeno[1,2,3-cd]pyrene d-12		5970	2930	49.0	0.18	1.206
Benzo[ghi]perylene d-12		5940	3280	55.2	0.19	1.238
	LAB FLAG ¹	SPIKE CONC. (ng/sample)	CONC. FOUND (ng/sample)	REPORTING LIMIT (RL) ³ (ng/sample)	R(%) ²	ION ABUND. RATIO
CLIENT STANDARD						
Anthracene d-10		1990	1740	3.44 (S)	87.3	0.14

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

(2) R% = percent recovery.

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

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

Signed: _____ Henry Huang _____

For Axys Internal Use Only [XSL Template: Pest2.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_WG67276-101_Form2_PH9S1428.D_SJ2535692.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 8A

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: PH9S1424.D

Matrix: XAD

Lab Sample I.D.: WG67276-102 (A)

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 09:42:00

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

COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
Naphthalene	91-20-3	MAX	0.07	59200	61100	41400 - 76900	103
Benz[a]anthracene	56-55-3		0.28	60400	62600	42300 - 78500	104
Chrysene	218-01-9		0.30	60300	62800	42200 - 78400	104
Benzo[b]fluoranthene	205-99-2		0.22	60400	61400	42300 - 78500	102
Benzo[j,k]fluoranthenes			0.22	60500	63200	42300 - 78600	105
Benzo[a]pyrene	50-32-8		0.22	60000	62700	42000 - 78000	104
Dibenz[a,h]anthracene	53-70-3		0.18	59200	63000	41400 - 76900	106
Indeno[1,2,3-cd]pyrene	193-39-5		0.24	60400	63300	42300 - 78500	105

(1) Where applicable, custom lab flags have been used on this report; MAX = concentration is an estimated maximum value.

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

Signed: _____ Henry Huang _____

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 Axy Internal Use Only [XSL Template: Pest8A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_WG67276-102_Form8A_SJ2535685.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 8B

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: PH9S1424.D

Matrix: XAD

Lab Sample I.D.: WG67276-102 (A)

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 09:42:00

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

LABELED COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
Naphthalene d-8	1146-65-2		0.09	60000	12600	9000-78000	21.0
2-Methylnaphthalene d-10	7297-45-2		0.19	59100	16200	11800-76800	27.4
2,6-Dimethylnaphthalene d-12	350820-12-1		0.78	61700	20900	12300-80100	33.9
Acenaphthylene d-8	93951-97-4		0.15	61800	22300	12400-80300	36.1
Dibenzothiophene d-8	33262-29-2		0.09	61100	30100	18300-79400	49.2
Phenanthrene d-10	1517-22-2		0.15	54200	33400	16200-70400	61.8
Fluoranthene d-10	93951-69-0		0.17	59600	40700	17900-77400	68.3
Benzo[a]anthracene d-12	1718-53-2		0.24	60900	40000	18300-79200	65.6
Chrysene d-12	1719-03-5		0.27	58800	39900	17600-76400	67.8
Benzo[b]fluoranthene d-12	93951-98-5		0.21	59100	44500	17700-76800	75.3
Benzo[k]fluoranthene d-12	93952-01-3		0.20	60000	46500	18000-78000	77.4
Benzo[a]pyrene d-12	63466-71-7		0.21	62100	46100	18600-80700	74.2
Perylene d-12	1520-96-3		0.25	64500	48100	19400-83900	74.5
Dibenzo[a,h]anthracene d-14	13250-98-1		0.25	57500	39000	17200-74700	67.8
Indeno[1,2,3-cd]pyrene d-12	203578-33-0		0.18	59700	39700	17900-77600	66.5
Benzo[ghi]perylene d-12	93951-66-7		0.19	59400	41000	17800-77200	69.0

(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: Henry Huang

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: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7; Report Filename: PAH_PAH_LO_LPAR_WG67276-102_Form8B_SJ2535685.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 8A

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: PH9S1425.D

Matrix: XAD

Lab Sample I.D.: WG67276-103 (DUP WG67276-102)

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 10:31:00

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

COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
Naphthalene	91-20-3	MAX	0.07	59200	60600	41400 - 76900	102
Benz[a]anthracene	56-55-3		0.28	60400	62900	42300 - 78500	104
Chrysene	218-01-9		0.31	60300	63500	42200 - 78400	105
Benzo[b]fluoranthene	205-99-2		0.22	60400	62200	42300 - 78500	103
Benzo[j,k]fluoranthenes			0.22	60500	64200	42300 - 78600	106
Benzo[a]pyrene	50-32-8		0.22	60000	62500	42000 - 78000	104
Dibenz[a,h]anthracene	53-70-3		0.18	59200	63800	41400 - 76900	108
Indeno[1,2,3-cd]pyrene	193-39-5		0.24	60400	63600	42300 - 78500	105

(1) Where applicable, custom lab flags have been used on this report; MAX = concentration is an estimated maximum value.

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

Signed: _____ Henry Huang _____

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 Axy Internal Use Only [XSL Template: Pest8A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: PAH_PAH_LO_LPAR_WG67276-103_Form8A_SJ2535688.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

Form 8B

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: PH9S1425.D

Matrix: XAD

Lab Sample I.D.: WG67276-103 (DUP WG67276-102)

Extraction Date: 07-Mar-2019

Analysis Date: 21-Mar-2019 Time: 10:31:00

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

LABELED COMPOUND	CAS NO.	LAB FLAG ¹	ION ABUND. RATIO	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)	% RECOVERY
Naphthalene d-8	1146-65-2		0.09	60000	18300	9000-78000	30.4
2-Methylnaphthalene d-10	7297-45-2		0.19	59100	22000	11800-76800	37.2
2,6-Dimethylnaphthalene d-12	350820-12-1		0.78	61700	25900	12300-80100	42.0
Acenaphthylene d-8	93951-97-4		0.15	61800	27100	12400-80300	43.8
Dibenzothiophene d-8	33262-29-2		0.09	61100	31300	18300-79400	51.3
Phenanthrene d-10	1517-22-2		0.15	54200	31500	16200-70400	58.2
Fluoranthene d-10	93951-69-0		0.17	59600	41100	17900-77400	69.0
Benzo[a]anthracene d-12	1718-53-2		0.24	60900	44300	18300-79200	72.7
Chrysene d-12	1719-03-5		0.27	58800	43900	17600-76400	74.6
Benzo[b]fluoranthene d-12	93951-98-5		0.21	59100	43900	17700-76800	74.2
Benzo[k]fluoranthene d-12	93952-01-3		0.20	60000	45700	18000-78000	76.2
Benzo[a]pyrene d-12	63466-71-7		0.20	62100	46900	18600-80700	75.6
Perylene d-12	1520-96-3		0.25	64500	48400	19400-83900	75.1
Dibenzo[a,h]anthracene d-14	13250-98-1		0.25	57500	40100	17200-74700	69.8
Indeno[1,2,3-cd]pyrene d-12	203578-33-0		0.18	59700	41600	17900-77600	69.7
Benzo[ghi]perylene d-12	93951-66-7		0.19	59400	42600	17800-77200	71.7

(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: Henry Huang

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: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7; Report Filename: PAH_PAH_LO_LPAR_WG67276-103_Form8B_SJ2535688.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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

Contract No.: 4972

Client ID: Spiked Matrix

Concentration Units: ng/mL

COMPOUND	WG67276-102 (A)		WG67276-103		MEAN	RELATIVE PERCENT DIFFERENCE
	LAB FLAG ¹	CONC. FOUND	LAB FLAG ¹	CONC. FOUND		
Naphthalene	MAX	61100	MAX	60600	60800	0.943
Benz[a]anthracene		62600		62900	62800	0.546
Chrysene		62800		63500	63200	1.08
Benzo[b]fluoranthene		61400		62200	61800	1.33
Benzo[j,k]fluoranthenes		63200		64200	63700	1.42
Benzo[a]pyrene		62700		62500	62600	0.280
Dibenz[a,h]anthracene		63000		63800	63400	1.38
Indeno[1,2,3-cd]pyrene		63300		63600	63400	0.413

(1) Where applicable, custom lab flags have been used on this report; MAX = concentration is an estimated maximum value.

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

Signed: _____ Henry Huang _____

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 Axs Internal Use Only [XSL Template: RPD.xml; Created: 01-Apr-2019 08:25:57; Application: XMLTransformer-1.17.7;
Report Filename: RPD_PAH_LO_LPAR-RPD_WG67276-103_WG67276-102_.html; Workgroup: WG67276; Design ID: 3400]

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: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

CS0 Data Filename: N/A

CS1 Data Filename: PH9S0936.D

CS2 Data Filename: PH9S0937.D

CS3 Data Filename: PH9S0938.D

CS4 Data Filename: PH9S0940.D

CS5 Data Filename: PH9S0939.D

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
Naphthalene			1.20	1.15	1.21	1.17	1.15	1.18	2.42
Benz[a]anthracene			1.34	1.28	1.31	1.26	1.24	1.29	3.03
Chrysene			1.26	1.22	1.29	1.25	1.23	1.25	2.28
Benzo[b]fluoranthene			1.56	1.43	1.45	1.38	1.37	1.44	5.29
Benzo[j,k]fluoranthenes			1.32	1.24	1.33	1.31	1.29	1.30	2.61
Benzo[a]pyrene			1.33	1.26	1.36	1.35	1.33	1.33	2.87
Dibenz[a,h]anthracene			1.25	1.20	1.28	1.27	1.24	1.25	2.53
Indeno[1,2,3-cd]pyrene			1.26	1.17	1.24	1.21	1.21	1.22	2.61
Benzo[ghi]perylene			1.22	1.15	1.24	1.21	1.21	1.20	2.93

(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.

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

Signed: _____ **Victoria Reesor** _____

For Axy Internal Use Only [XSL Template: Form3A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
 Report Filename: GENERIC-SPECS_PAH_LO_27-Feb-2019_PH9S__Form3A_GS80929.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

CS0 Data Filename: N/A

CS1 Data Filename: PH9S0936.D

CS2 Data Filename: PH9S0937.D

CS3 Data Filename: PH9S0938.D

CS4 Data Filename: PH9S0940.D

CS5 Data Filename: PH9S0939.D

CS6 Data Filename: N/A

LABELED COMPOUND	LAB FLAG ¹	RELATIVE RESPONSE (RR)						MEAN RR	CV (%RSD) ²
		CS0	CS1	CS2	CS3	CS4	CS5		
Naphthalene d-8			1.54	1.56	1.56	1.52	1.55	1.55	1.12
2-Methylnaphthalene d-10			1.02	1.04	1.04	1.02	1.03	1.03	0.98
2,6-Dimethylnaphthalene d-12			0.93	0.94	0.94	0.92	0.93	0.93	0.88
Acenaphthylene d-8			1.80	1.83	1.84	1.77	1.81	1.81	1.47
Dibenzothiophene d-8			0.86	0.85	0.85	0.82	0.87	0.85	1.84
Phenanthrene d-10			0.95	0.94	0.94	0.92	0.96	0.94	1.58
Fluoranthene d-10			0.92	0.92	0.92	0.91	0.93	0.92	0.99
Benzo[a]anthracene d-12			0.88	0.90	0.89	0.88	0.88	0.89	0.74
Chrysene d-12			0.87	0.89	0.88	0.88	0.88	0.88	0.85
Benzo[b]fluoranthene d-12			0.96	0.96	0.97	0.96	0.98	0.96	0.74
Benzo[k]fluoranthene d-12			1.00	1.00	1.01	1.00	1.02	1.00	0.80
Benzo[a]pyrene d-12			0.88	0.89	0.90	0.87	0.89	0.88	1.30
Perylene d-12			0.86	0.87	0.87	0.86	0.87	0.87	0.62
Dibenzo[a,h]anthracene d-14			0.83	0.87	0.85	0.88	0.80	0.84	3.79
Indeno[1,2,3-cd]pyrene d-12			0.95	0.98	0.96	0.98	0.90	0.95	3.50
Benzo[ghi]perylene d-12			1.03	1.05	1.04	1.04	0.96	1.02	3.72

(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: Victoria ReesorFor Axys Internal Use Only [XSL Template: Form3B.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: GENERIC-SPECS_PAH_LO_27-Feb-2019_PH9S__Form3B_GS80929.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

CS0 Data Filename: N/A

CS1 Data Filename: PH9S0936.D

CS2 Data Filename: PH9S0937.D

CS3 Data Filename: PH9S0938.D

CS4 Data Filename: PH9S0940.D

CS5 Data Filename: PH9S0939.D

CS6 Data Filename: N/A

COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO	ION ABUNDANCE RATIO					
			CS0	CS1	CS2	CS3	CS4	CS5
Naphthalene		128,102		0.07	0.07	0.07	0.07	0.07
Benz[a]anthracene		228,226		0.26	0.26	0.27	0.27	0.27
Chrysene		228,226		0.30	0.30	0.30	0.30	0.30
Benzo[b]fluoranthene		252,253		0.24	0.23	0.22	0.22	0.22
Benzo[j,k]fluoranthenes		252,253		0.24	0.22	0.21	0.22	0.22
Benzo[a]pyrene		252,253		0.23	0.22	0.21	0.22	0.22
Dibenz[a,h]anthracene		278,139		0.16	0.15	0.15	0.16	0.16
Indeno[1,2,3-cd]pyrene		276,138		0.23	0.22	0.20	0.20	0.20
Benzo[ghi]perylene		276,138		0.20	0.22	0.21	0.21	0.21

(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: _____ Victoria Reesor _____

For Axys Internal Use Only [XSL Template: Form3C.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: GENERIC-SPECS_PAH_LO_27-Feb-2019_PH9S__Form3C_GS80929.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

Instrument ID: LR GC/MS

GC Column ID: RTX5

CS0 Data Filename: N/A

CS1 Data Filename: PH9S0936.D

CS2 Data Filename: PH9S0937.D

CS3 Data Filename: PH9S0938.D

CS4 Data Filename: PH9S0940.D

CS5 Data Filename: PH9S0939.D

CS6 Data Filename: N/A

LABELED COMPOUND	LAB FLAG ¹	M/Z's FORMING RATIO	ION ABUNDANCE RATIO						
			CS0	CS1	CS2	CS3	CS4	CS5	CS6
Naphthalene d-8		136,134		0.09	0.09	0.09	0.09	0.09	
2-Methylnaphthalene d-10		152,151		0.19	0.19	0.19	0.19	0.19	
2,6-Dimethylnaphthalene d-12		168,150		0.77	0.76	0.77	0.76	0.77	
Acenaphthylene d-8		160,158		0.15	0.16	0.15	0.15	0.15	
Dibenzothiophene d-8		192,160		0.09	0.09	0.09	0.09	0.09	
Phenanthrene d-10		188,184		0.15	0.15	0.15	0.15	0.14	
Fluoranthene d-10		212,208		0.17	0.16	0.17	0.17	0.17	
Benzo[a]anthracene d-12		240,236		0.24	0.24	0.24	0.24	0.23	
Chrysene d-12		240,236		0.27	0.27	0.27	0.27	0.27	
Benzo[b]fluoranthene d-12		264,260		0.21	0.21	0.21	0.21	0.21	
Benzo[k]fluoranthene d-12		264,260		0.20	0.20	0.20	0.20	0.20	
Benzo[a]pyrene d-12		264,260		0.20	0.20	0.20	0.20	0.20	
Perylene d-12		264,260		0.25	0.25	0.25	0.25	0.25	
Dibenzo[a,h]anthracene d-14		292,288		0.23	0.23	0.24	0.24	0.24	
Indeno[1,2,3-cd]pyrene d-12		288,284		0.18	0.18	0.18	0.18	0.18	
Benzo[ghi]perylene d-12		288,284		0.19	0.19	0.19	0.19	0.19	

(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: _____ Victoria Reesor _____

For Axy Internal Use Only [XSL Template: Form3D.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
 Report Filename: GENERIC-SPECS_PAH_LO_27-Feb-2019_PH9S__Form3D_GS80929.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

VER Data Filename: PH9S1423.D

Instrument ID: LR GC/MS

Analysis Date: 21-Mar-2019

GC Column ID: RTX5

Analysis Time: 08:49:00

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene	91-20-3		128,102	0.07	0.06-0.08	2120	1480-2470
Benz[a]anthracene	56-55-3		228,226	0.28	0.22-0.34	2040	1510-2520
Chrysene	218-01-9		228,226	0.30	0.24-0.36	2110	1510-2510
Benzo[b]fluoranthene	205-99-2		252,253	0.22	0.18-0.26	2020	1510-2520
Benzo[j,k]fluoranthenes			252,253	0.22	0.18-0.26	2120	1510-2520
Benzo[a]pyrene	50-32-8		252,253	0.22	0.18-0.26	2080	1500-2500
Dibenz[a,h]anthracene	53-70-3		278,139	0.19	0.12-0.26	2160	1480-2470
Indeno[1,2,3-cd]pyrene	193-39-5		276,138	0.24	0.16-0.32	2050	1510-2520
Benzo[ghi]perylene	191-24-2		276,138	0.25	0.16-0.34	2100	1480-2460

(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: _____ Simin Yassari _____

For Axys Internal Use Only [XSL Template: Pest4A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: GENERIC-SPECS_PAH_LO_PH9S1423.D__Form4A_SJ2532819.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

VER Data Filename: PH9S1423.D

Instrument ID: LR GC/MS

Analysis Date: 21-Mar-2019

GC Column ID: RTX5

Analysis Time: 08:49:00

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene d-8	1146-65-2		136,134	0.09	0.07-0.11	1910	1500-2500
2-Methylnaphthalene d-10	7297-45-2		152,151	0.19	0.15-0.23	1910	1480-2460
2,6-Dimethylnaphthalene d-12	350820-12-1		168,150	0.79	0.63-0.95	1960	1540-2570
Acenaphthylene d-8	93951-97-4		160,158	0.16	0.13-0.19	2070	1550-2580
Dibenzothiophene d-8	33262-29-2		192,160	0.09	0.07-0.11	2090	1530-2540
Phenanthrene d-10	1517-22-2		188,184	0.15	0.12-0.18	1840	1350-2260
Fluoranthene d-10	93951-69-0		212,208	0.17	0.14-0.20	1990	1490-2480
Benzo[a]anthracene d-12	1718-53-2		240,236	0.24	0.19-0.29	1900	1520-2540
Chrysene d-12	1719-03-5		240,236	0.27	0.22-0.32	1820	1470-2450
Benzo[b]fluoranthene d-12	93951-98-5		264,260	0.21	0.17-0.25	1950	1480-2460
Benzo[k]fluoranthene d-12	93952-01-3		264,260	0.20	0.16-0.24	1980	1500-2500
Benzo[a]pyrene d-12	63466-71-7		264,260	0.21	0.17-0.25	2030	1550-2590
Perylene d-12	1520-96-3		264,260	0.25	0.20-0.30	2140	1610-2690
Dibenzo[a,h]anthracene d-14	13250-98-1		292,288	0.26	0.17-0.35	1750	1440-2390
Indeno[1,2,3-cd]pyrene d-12	203578-33-0		288,284	0.18	0.12-0.24	1890	1490-2490
Benzo[ghi]perylene d-12	93951-66-7		288,284	0.20	0.13-0.27	1870	1490-2480

(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: _____ Simin Yassari _____

For Axys Internal Use Only [XSL Template: Pest4B.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: GENERIC-SPECS_PAH_LO_PH9S1423.D__Form4B_SJ2532819.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

VER Data Filename: PH9S1438.D

Instrument ID: LR GC/MS

Analysis Date: 21-Mar-2019

GC Column ID: RTX5

Analysis Time: 20:38:00

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene	91-20-3		128,102	0.08	0.06-0.10	2120	1480-2470
Benz[a]anthracene	56-55-3		228,226	0.28	0.22-0.34	2100	1510-2520
Chrysene	218-01-9		228,226	0.31	0.25-0.37	2120	1510-2510
Benzo[b]fluoranthene	205-99-2		252,253	0.22	0.18-0.26	2060	1510-2520
Benzo[j,k]fluoranthenes			252,253	0.22	0.18-0.26	2150	1510-2520
Benzo[a]pyrene	50-32-8		252,253	0.22	0.18-0.26	2120	1500-2500
Dibenz[a,h]anthracene	53-70-3		278,139	0.19	0.12-0.26	2220	1480-2470
Indeno[1,2,3-cd]pyrene	193-39-5		276,138	0.24	0.16-0.32	2130	1510-2520
Benzo[ghi]perylene	191-24-2		276,138	0.25	0.16-0.34	2140	1480-2460

(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: _____ Simin Yassari _____

For Axy Internal Use Only [XSL Template: Pest4A.xsl; Created: 01-Apr-2019 08:24:36; Application: XMLTransformer-1.17.7;
Report Filename: GENERIC-SPECS_PAH_LO_PH9S1438.D__Form4A_SJ2533343.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

VER Data Filename: PH9S1438.D

Instrument ID: LR GC/MS

Analysis Date: 21-Mar-2019

GC Column ID: RTX5

Analysis Time: 20:38:00

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene d-8	1146-65-2		136,134	0.10	0.08-0.12	1980	1500-2500
2-Methylnaphthalene d-10	7297-45-2		152,151	0.19	0.15-0.23	1930	1480-2460
2,6-Dimethylnaphthalene d-12	350820-12-1		168,150	0.80	0.64-0.96	1970	1540-2570
Acenaphthylene d-8	93951-97-4		160,158	0.16	0.13-0.19	2050	1550-2580
Dibenzothiophene d-8	33262-29-2		192,160	0.09	0.07-0.11	2110	1530-2540
Phenanthrene d-10	1517-22-2		188,184	0.15	0.12-0.18	1850	1350-2260
Fluoranthene d-10	93951-69-0		212,208	0.17	0.14-0.20	2020	1490-2480
Benzo[a]anthracene d-12	1718-53-2		240,236	0.24	0.19-0.29	1850	1520-2540
Chrysene d-12	1719-03-5		240,236	0.28	0.22-0.34	1830	1470-2450
Benzo[b]fluoranthene d-12	93951-98-5		264,260	0.21	0.17-0.25	1930	1480-2460
Benzo[k]fluoranthene d-12	93952-01-3		264,260	0.20	0.16-0.24	2020	1500-2500
Benzo[a]pyrene d-12	63466-71-7		264,260	0.21	0.17-0.25	1990	1550-2590
Perylene d-12	1520-96-3		264,260	0.25	0.20-0.30	2120	1610-2690
Dibenzo[a,h]anthracene d-14	13250-98-1		292,288	0.28	0.18-0.38	1640	1440-2390
Indeno[1,2,3-cd]pyrene d-12	203578-33-0		288,284	0.19	0.12-0.26	1770	1490-2490
Benzo[ghi]perylene d-12	93951-66-7		288,284	0.20	0.13-0.27	1810	1490-2480

(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: _____ Simin Yassari _____

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Report Filename: GENERIC-SPECS_PAH_LO_PH9S1438.D__Form4B_SJ2533343.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

VER Data Filename: PH9S1561.D

Instrument ID: LR GC/MS

Analysis Date: 27-Mar-2019

GC Column ID: RTX5

Analysis Time: 20:27:00

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene	91-20-3		128,102	0.07	0.06-0.08	2070	1480-2470
Benz[a]anthracene	56-55-3		228,226	0.27	0.22-0.32	2040	1510-2520
Chrysene	218-01-9		228,226	0.30	0.24-0.36	2040	1510-2510
Benzo[b]fluoranthene	205-99-2		252,253	0.22	0.18-0.26	2030	1510-2520
Benzo[j,k]fluoranthenes			252,253	0.22	0.18-0.26	2030	1510-2520
Benzo[a]pyrene	50-32-8		252,253	0.22	0.18-0.26	2030	1500-2500
Dibenz[a,h]anthracene	53-70-3		278,139	0.16	0.10-0.22	2140	1480-2470
Indeno[1,2,3-cd]pyrene	193-39-5		276,138	0.21	0.14-0.28	2070	1510-2520
Benzo[ghi]perylene	191-24-2		276,138	0.22	0.14-0.30	2030	1480-2460

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

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Report Filename: GENERIC-SPECS_PAH_LO_PH9S1561.D__Form4A_SJ2536931.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

VER Data Filename: PH9S1561.D

Instrument ID: LR GC/MS

Analysis Date: 27-Mar-2019

GC Column ID: RTX5

Analysis Time: 20:27:00

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene d-8	1146-65-2		136,134	0.09	0.07-0.11	1860	1500-2500
2-Methylnaphthalene d-10	7297-45-2		152,151	0.19	0.15-0.23	1900	1480-2460
2,6-Dimethylnaphthalene d-12	350820-12-1		168,150	0.76	0.61-0.91	2010	1540-2570
Acenaphthylene d-8	93951-97-4		160,158	0.15	0.12-0.18	2020	1550-2580
Dibenzothiophene d-8	33262-29-2		192,160	0.09	0.07-0.11	2110	1530-2540
Phenanthrene d-10	1517-22-2		188,184	0.15	0.12-0.18	1860	1350-2260
Fluoranthene d-10	93951-69-0		212,208	0.17	0.14-0.20	2090	1490-2480
Benzo[a]anthracene d-12	1718-53-2		240,236	0.24	0.19-0.29	1880	1520-2540
Chrysene d-12	1719-03-5		240,236	0.27	0.22-0.32	1860	1470-2450
Benzo[b]fluoranthene d-12	93951-98-5		264,260	0.21	0.17-0.25	1910	1480-2460
Benzo[k]fluoranthene d-12	93952-01-3		264,260	0.20	0.16-0.24	2010	1500-2500
Benzo[a]pyrene d-12	63466-71-7		264,260	0.20	0.16-0.24	1980	1550-2590
Perylene d-12	1520-96-3		264,260	0.25	0.20-0.30	2100	1610-2690
Dibenzo[a,h]anthracene d-14	13250-98-1		292,288	0.28	0.18-0.38	1520	1440-2390
Indeno[1,2,3-cd]pyrene d-12	203578-33-0		288,284	0.18	0.12-0.24	1650	1490-2490
Benzo[ghi]perylene d-12	93951-66-7		288,284	0.19	0.12-0.26	1740	1490-2480

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Report Filename: GENERIC-SPECS_PAH_LO_PH9S1561.D__Form4B_SJ2536931.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

VER Data Filename: PH9S1573.D

Instrument ID: LR GC/MS

Analysis Date: 28-Mar-2019

GC Column ID: RTX5

Analysis Time: 05:46:00

COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene	91-20-3		128,102	0.07	0.06-0.08	2110	1480-2470
Benz[a]anthracene	56-55-3		228,226	0.27	0.22-0.32	2010	1510-2520
Chrysene	218-01-9		228,226	0.30	0.24-0.36	2030	1510-2510
Benzo[b]fluoranthene	205-99-2		252,253	0.22	0.18-0.26	1970	1510-2520
Benzo[j,k]fluoranthenes			252,253	0.22	0.18-0.26	2060	1510-2520
Benzo[a]pyrene	50-32-8		252,253	0.21	0.17-0.25	2030	1500-2500
Dibenz[a,h]anthracene	53-70-3		278,139	0.16	0.10-0.22	2130	1480-2470
Indeno[1,2,3-cd]pyrene	193-39-5		276,138	0.21	0.14-0.28	2040	1510-2520
Benzo[ghi]perylene	191-24-2		276,138	0.22	0.14-0.30	2030	1480-2460

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Report Filename: GENERIC-SPECS_PAH_LO_PH9S1573.D__Form4A_SJ2536973.html; Workgroup: WG67276; Design ID: 3400]

SGS AXYS METHOD MLA-021 Rev 12

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: 27-Feb-2019

VER Data Filename: PH9S1573.D

Instrument ID: LR GC/MS

Analysis Date: 28-Mar-2019

GC Column ID: RTX5

Analysis Time: 05:46:00

LABELLED COMPOUND	CAS NO.	LAB FLAG ¹	m/e ION CHANNELS	ION ABUND. RATIO	SAMPLE QC LIMITS	CONC. FOUND (ng/mL)	CONC. RANGE (ng/mL)
Naphthalene d-8	1146-65-2		136,134	0.09	0.07-0.11	1840	1500-2500
2-Methylnaphthalene d-10	7297-45-2		152,151	0.19	0.15-0.23	1900	1480-2460
2,6-Dimethylnaphthalene d-12	350820-12-1		168,150	0.76	0.61-0.91	2020	1540-2570
Acenaphthylene d-8	93951-97-4		160,158	0.15	0.12-0.18	2050	1550-2580
Dibenzothiophene d-8	33262-29-2		192,160	0.09	0.07-0.11	2060	1530-2540
Phenanthrene d-10	1517-22-2		188,184	0.15	0.12-0.18	1830	1350-2260
Fluoranthene d-10	93951-69-0		212,208	0.17	0.14-0.20	2080	1490-2480
Benzo[a]anthracene d-12	1718-53-2		240,236	0.24	0.19-0.29	1970	1520-2540
Chrysene d-12	1719-03-5		240,236	0.27	0.22-0.32	1930	1470-2450
Benzo[b]fluoranthene d-12	93951-98-5		264,260	0.21	0.17-0.25	1930	1480-2460
Benzo[k]fluoranthene d-12	93952-01-3		264,260	0.20	0.16-0.24	2010	1500-2500
Benzo[a]pyrene d-12	63466-71-7		264,260	0.20	0.16-0.24	2040	1550-2590
Perylene d-12	1520-96-3		264,260	0.24	0.19-0.29	2150	1610-2690
Dibenzo[a,h]anthracene d-14	13250-98-1		292,288	0.27	0.18-0.36	1780	1440-2390
Indeno[1,2,3-cd]pyrene d-12	203578-33-0		288,284	0.18	0.12-0.24	1890	1490-2490
Benzo[ghi]perylene d-12	93951-66-7		288,284	0.19	0.12-0.26	1920	1490-2480

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Accreditation Scope																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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Accreditation Scope

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

Accreditation Scope														Serum								Tissue		Urine	Water	Water, Non-Potable																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
														CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

Accreditation Scope

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

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

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

Accreditation Scope				Serum	Solids	Tissue	Urine	Water	Water, Non-Potable																									
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																		
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
	Oxychlordane	SGS AXYS MLA-007	MLA-007	Y	Y	Y						Y		Y		Y							Y		Y							Y		
		EPA 8270	MLA-007				Y					Y													Y							Y		
		EPA 1699	MLA-028				Y						Y												Y							Y		
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y	Y		Y		Y						Y	Y					Y		Y			
	Toxaphene	SGS AXYS MLA-007	MLA-007	Y	Y	Y							Y				Y						Y	Y								Y		
		EPA 8270	MLA-007										Y																					
	trans-Chlordane (gamma-Chlordane)	SGS AXYS MLA-007	MLA-007		Y												Y						Y											
		EPA 8270	MLA-007				Y			Y		Y	Y	Y											Y		Y				Y	Y		
		EPA 1699	MLA-028				Y							Y											Y							Y		
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y	Y		Y		Y						Y	Y				Y			Y			
	trans-Nonachlor	SGS AXYS MLA-007	MLA-007	Y	Y	Y								Y			Y						Y	Y		Y						Y		
		EPA 8270	MLA-007				Y						Y	Y											Y							Y		
		EPA 1699	MLA-028				Y							Y											Y							Y		
		SGS AXYS MLA-028	MLA-028	Y	Y	Y						Y	Y		Y		Y						Y	Y		Y			Y		Y			
	PAH	1,2,6-Trimethylphenanthrene	SGS AXYS MLA-021	MLA-021			Y										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																														Y	
		EPA 8270	MLA-021				Y			Y				Y											Y									Y
		SGS AXYS MLA-021	MLA-021		Y	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-Methylchrysenes		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					Y	
		EPA 8270	MLA-021				Y			Y	Y			Y	Y																			
		SGS AXYS MLA-021	MLA-021		Y	Y									Y		Y						Y		Y							Y		
		EPA 1625	MLA-021																						Y		Y	Y					Y	
Acenaphthylene		EPA 8270	MLA-021				Y			Y	Y			Y	Y																			
		SGS AXYS MLA-021	MLA-021		Y	Y									Y		Y						Y		Y								Y	

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Accreditation Scope																	Serum	Solids							Tissue					Urine	Water	Water, Non-Potable						
						California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **		Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025			California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **				
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA												CALA						CALA	CALA														
	Dibenz[a,h]anthracene	EPA 8270	MLA-021			Y				Y	Y			Y	Y		Y							Y		Y							Y					
		SGS AXYS MLA-021	MLA-021		Y	Y									Y		Y									Y							Y					
		EPA 1625	MLA-021																							Y		Y	Y				Y					
		EPA 8270	MLA-021				Y			Y	Y			Y	Y																			Y				
	Dibenzothiophene	SGS AXYS MLA-021	MLA-021		Y	Y									Y		Y							Y		Y							Y					
		SGS AXYS MLA-021	MLA-021		Y																			Y		Y								Y				
		EPA 1625	MLA-021																							Y		Y	Y				Y					
	Fluoranthene	EPA 8270	MLA-021				Y			Y	Y			Y	Y												Y							Y				
		SGS AXYS MLA-021	MLA-021		Y	Y									Y		Y						Y		Y								Y					
		EPA 1625	MLA-021																								Y		Y	Y				Y				
	Fluorene	EPA 8270	MLA-021				Y			Y	Y			Y	Y												Y							Y				
		SGS AXYS MLA-021	MLA-021				Y																				Y		Y	Y				Y				
		EPA 1625	MLA-021																									Y							Y			
	Indeno[1,2,3-cd]pyrene	EPA 8270	MLA-021				Y			Y	Y			Y	Y												Y							Y				
		SGS AXYS MLA-021	MLA-021				Y																				Y		Y	Y				Y				
		SGS AXYS MLA-021	MLA-021		Y	Y										Y		Y						Y		Y								Y				
	Naphthalene	EPA 1625	MLA-021																								Y		Y	Y				Y				
		EPA 8270	MLA-021				Y			Y	Y			Y	Y																			Y				
		SGS AXYS MLA-021	MLA-021		Y	Y										Y		Y								Y		Y						Y				
	Perylene	EPA 1625	MLA-021																									Y		Y	Y				Y			
		EPA 8270	MLA-021				Y			Y	Y			Y	Y																			Y				
		SGS AXYS MLA-021	MLA-021		Y	Y										Y		Y										Y							Y			
	Phenanthrene	EPA 8270	MLA-021				Y			Y	Y			Y	Y													Y		Y	Y				Y			
		SGS AXYS MLA-021	MLA-021		Y	Y										Y		Y																	Y			
		SGS AXYS MLA-021	MLA-021		Y																																	
	Pyrene	EPA 1625	MLA-021																									Y		Y					Y			
		EPA 8270	MLA-021				Y			Y	Y			Y	Y																			Y				
		SGS AXYS MLA-021	MLA-021		Y	Y										Y		Y										Y							Y			
Retene	SGS AXYS MLA-021	MLA-021		Y																				Y														
PBDPE	BDE 10 2,6-dibromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y												Y							Y		Y												
	BDE 100 2,2',4,4',6-pentabromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y						Y		Y												
	BDE 105 2,3,3',4,4'-pentabromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y						Y		Y												
	BDE 11 3,3'-dibromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y						Y		Y												
	BDE 116 2,3,4,5,6-pentabromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y							Y		Y											
	BDE 119 2,3',4,4',6-pentabromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y															Y					
	BDE 12 3,4-dibromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y							Y		Y											
	BDE 126 3,3',4,4',5-pentabromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y							Y		Y											
	BDE 13 3,4'-dibromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y							Y		Y											
	BDE 140 2,2',3,4,4',6'-hexabromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y							Y		Y											
	BDE 15 4,4'-dibromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																				
	BDE 153 2,2',4,4',5,5'-hexabromodiphenylether	EPA 1614	MLA-033										Y																			Y						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y							Y		Y											

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					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 **
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID																																
	BDE 154 2,2',4,4',5',6-hexabromodiphenylether	EPA 1614	MLA-033										Y																						
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 155 2,2',4,4',6,6'-hexabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 166 2,3,4,4',5,6-hexabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 17 2,2',4-tribromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 181 2,2',3,4,4',5,6-heptabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 183 2,2',3,4,4',5',6-heptabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 190 2,3,3',4,4',5,6-heptabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 206 2,2',3,3',4,4',5,5',6-nonabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 207 2,2',3,3',4,4',5,6,6'-nonabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 208 2,2',3,3',4,5,5',6,6'-nonabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 209 Decabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 25 2,3',4-tribromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 28 2,4,4'-tribromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 30 2,4,6-tribromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 33 2',3,4-tribromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 35 3,3',4-tribromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 37 3,4,4'-tribromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 47 2,2',4,4'-tetrabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 49 2,2',4,5'-tetrabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 66 2,3',4,4'-tetrabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 7 2,4-dibromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 75 2,4,4',6-tetrabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 77 3,3',4,4'-tetrabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 8 2,4'-dibromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	
	BDE 85 2,2',3,4,4'-pentabromodiphenylether	EPA 1614	MLA-033										Y																		Y				
		SGS AXYS MLA-033	MLA-033	Y	Y													Y																	

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

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

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				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 **	
	PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl	EPA 8270	MLA-007									Y				Y																			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y							Y			
	PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y						Y						Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y			Y		Y		Y		Y							Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
	PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y												Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y			Y		Y		Y									Y		
		SGS AXYS MLA-901	MLA-901	Y																															
	PCB 187/182	EPA 8270	MLA-007									Y																							
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
	PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y		
	PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
	PCB 19 2,2',6-Trichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
	PCB 190 2,3,3',4,4',5,6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y		
		SGS AXYS MLA-007	MLA-007																																
	PCB 191 2,3,3',4,4',5',6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y											Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
	PCB 192 2,3,3',4,5,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y		
		SGS AXYS MLA-007	MLA-007		Y																														
	PCB 193 2,3,3',4',5,5',6-Heptachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y		
	PCB 194 2,2',3,3',4,4',5,5'-Octachlorobiphenyl	SGS AXYS MLA-007	MLA-007		Y												Y																		
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y		
	PCB 195 2,2',3,3',4,4',5,6-Octachlorobiphenyl	SGS AXYS MLA-007	MLA-007																																
		SGS AXYS MLA-901	MLA-901	Y																															
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
	PCB 196 2,2',3,3',4,4',5,6'-Octachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y		
		SGS AXYS MLA-007	MLA-007		Y																														
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y		
	PCB 196/203	EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-007	MLA-007		Y												Y																		

Accreditation Scope				Serum										Tissue		Urine		Water		Water, Non-Potable														
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																		
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
PCB 197 2,2',3,3',4,4',6,6'-Octachlorobiphenyl		EPA 1668	MLA-010				Y							Y							Y				Y									
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y								Y		
		SGS AXYS MLA-007	MLA-007			Y											Y					Y												
PCB 198 2,2',3,3',4,5,5',6-Octachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y								Y		
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 199 2,2',3,3',4,5,5',6'-Octachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 2 3-Chlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 20 2,3,3'-Trichlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
	PCB 200 2,2',3,3',4,5,6,6'-Octachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 201 2,2',3,3',4,5',6,6'-Octachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 202 2,2',3,3',5,5',6,6'-Octachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 203 2,2',3,4,4',5,5',6-Octachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
	PCB 204 2,2',3,4,4',5,6,6'-Octachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 205 2,3,3',4,4',5,5',6-Octachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 206 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 207 2,2',3,3',4,4',5,6,6'-Nonachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 208 2,2',3,3',4,5,5',6'-Nonachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y									Y	
		SGS AXYS MLA-007	MLA-007			Y											Y					Y		Y										
PCB 209 Decachlorobiphenyl		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																						

Accreditation Scope																Serum	Solids													Tissue		Urine	Water	Water, Non-Potable													
SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																		California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **		California DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025		California	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **													
	PCB 36 3,3',5-Trichlorobiphenyl	EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y			Y		Y		Y		Y								Y														
	PCB 37 3,4,4'-Trichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y						Y		Y				Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																		
	PCB 38 3,4,5-Trichlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y				Y		Y		Y		Y							Y														
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y					Y		Y	Y	Y	Y		Y	Y													
	PCB 39 3,4',5-Trichlorobiphenyl	EPA 8270	MLA-007									Y																																			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y														
	PCB 4 2,2'-Dichlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y					Y		Y	Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y														
	PCB 4/10	EPA 8270	MLA-007										Y																																		
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y												Y		Y	Y	Y	Y		Y	Y													
	PCB 40 2,2',3,3'-Tetrachlorobiphenyl	EPA 8270	MLA-007																																												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y		Y	Y	Y		Y	Y													
	PCB 41 2,2',3,4'-Tetrachlorobiphenyl	EPA 8270	MLA-007																																												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y														
	PCB 41/71/64/68	EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y																							
	PCB 42 2,2',3,4'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y					Y		Y	Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y														
	PCB 42/59	EPA 8270	MLA-007										Y																																		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y																					
	PCB 43 2,2',3,5-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y					Y		Y	Y	Y	Y		Y	Y													
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y														
	PCB 44 2,2',3,5'-Tetrachlorobiphenyl	EPA 8270	MLA-007																																												
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y														
	PCB 45 2,2',3,6-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y					Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																		
	PCB 46 2,2',3,6'-Tetrachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y														
		SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y																					
	PCB 47 2,2',4,4'-Tetrachlorobiphenyl	EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y					Y		Y	Y	Y	Y		Y	Y													
		EPA 8270	MLA-007										Y																																		
	PCB 47/48/75	SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y														
		EPA 8270	MLA-007										Y																																		
	PCB 48 2,2',4,5-Tetrachlorobiphenyl	SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y																					
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y														
	PCB 49 2,2',4,5'-Tetrachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y		Y		Y						Y														
		EPA 1668	MLA-010				Y		Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y														

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

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

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y								Y		Y					Y		Y	Y									Y		
	PCB 8/5	EPA 8270	MLA-007								Y																								
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
	PCB 80 3,3',5,5'-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y							Y			
	PCB 81 3,4,4',5-Tetrachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y		
		EPA 8270	MLA-007									Y															Y	Y	Y	Y	Y				
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y								Y		
	PCB 82 2,2',3,3',4-Pentachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y															Y	Y	Y	Y	Y			Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y								Y		
	PCB 83 2,2',3,3',5-Pentachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y		Y	Y		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y								Y		
	PCB 83/108	EPA 8270	MLA-007									Y															Y		Y						Y
		SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y									
	PCB 84 2,2',3,3',6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007									Y																	Y	Y	Y	Y			
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y								Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y									
	PCB 85 2,2',3,4,4'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y	Y	Y			Y		
	PCB 85/120	EPA 8270	MLA-007									Y																							
		SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y									
	PCB 86 2,2',3,4,5-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y					Y		
	PCB 87 2,2',3,4,5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y					Y		
	PCB 87/115/116	EPA 8270	MLA-007									Y																							
		SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y									
	PCB 88 2,2',3,4,6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y						Y	
	PCB 88/121	EPA 8270	MLA-007										Y																						
	PCB 89 2,2',3,4,6'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y						Y	
	PCB 9 2,5-Dichlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y				Y		Y	Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y						Y	
	PCB 90 2,2',3,4',5-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y						Y	
	PCB 91 2,2',3,4',6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y						Y	
		SGS AXYS MLA-007	MLA-007		Y												Y							Y		Y									
	PCB 92 2,2',3,5,5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y						Y	
	PCB 93 2,2',3,5,6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y						Y	
	PCB 94 2,2',3,5,6'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y						Y					Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y			Y						Y	

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SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																			
				Serum	Solids									Tissue						Urine	Water	Water, Non-Potable													
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
	PCB 95 2,2',3,5',6-Pentachlorobiphenyl	EPA 1668	MLA-010			Y			Y	Y	Y	Y	Y	Y							Y				Y		Y					Y	Y		
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y				Y		Y	Y	Y		Y	Y	Y			Y			
	PCB 95/93	EPA 8270	MLA-007									Y																							
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
	PCB 96 2,2',3,6,6'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y					Y		Y		Y							Y		
	PCB 97 2,2',3,4',5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y							Y				Y		Y	Y	Y	Y		Y	Y	
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y					Y		Y		Y		Y	Y	Y			Y		
	PCB 97/86	EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-007	MLA-007		Y												Y							Y			Y								
	PCB 98 2,2',3,4',6'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y								Y				Y		Y	Y	Y	Y		Y	Y
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y					Y		Y		Y		Y					Y		
	PCB 98/102	EPA 8270	MLA-007										Y																						
													Y																						
	PCB 99 2,2',4,4',5-Pentachlorobiphenyl	EPA 1668	MLA-010				Y			Y	Y	Y	Y	Y	Y								Y				Y		Y	Y	Y	Y		Y	Y
		EPA 8270	MLA-007										Y																						
		SGS AXYS MLA-010	MLA-010	Y	Y	Y									Y		Y					Y		Y		Y		Y					Y		
		SGS AXYS MLA-007	MLA-007		Y												Y							Y											
		SGS AXYS MLA-901	MLA-901	Y																															
	PCB congeners, total	EPA 1668	MLA-010								Y																		Y						
		EPA 1668	MLA-010												Y							Y											Y		
	Sum - Dichlorobiphenyls (BZ-12+ BZ-13)	SGS AXYS MLA-010	MLA-010												Y							Y											Y		
		EPA 1668	MLA-010												Y							Y											Y		
	Sum - Heptachlorobiphenyls (BZ-171 + BZ-173)	SGS AXYS MLA-010	MLA-010												Y							Y											Y		
		EPA 1668	MLA-010												Y							Y											Y		
	Sum - Heptachlorobiphenyls (BZ-180 + BZ-193)	SGS AXYS MLA-010	MLA-010												Y							Y											Y		
		EPA 1668	MLA-010												Y							Y											Y		
	Sum - Heptachlorobiphenyls (BZ-183 + BZ-185)	SGS AXYS MLA-010	MLA-010												Y							Y											Y		
		EPA 1668	MLA-010												Y							Y											Y		
	Sum - Hexachlorobiphenyls (BZ-128 + BZ-166)	SGS AXYS MLA-010	MLA-010												Y							Y											Y		
		EPA 1668	MLA-010												Y							Y											Y		
	Sum - Hexachlorobiphenyls (BZ-129 + BZ-138 + BZ-160 + BZ-163)	SGS AXYS MLA-010	MLA-010												Y							Y											Y		
		EPA 1668	MLA-010												Y							Y											Y		
	Sum - Hexachlorobiphenyls (BZ-134 + BZ-143)	SGS AXYS MLA-010	MLA-010												Y							Y											Y		
		EPA 1668	MLA-010												Y							Y											Y		
	Sum - Hexachlorobiphenyls (BZ-135 + BZ-151 + BZ-154)	SGS AXYS MLA-010	MLA-010												Y							Y											Y		
		EPA 1668	MLA-010												Y							Y											Y		
	Sum - Hexachlorobiphenyls (BZ-139 + BZ-140)	SGS AXYS MLA-010	MLA-010												Y							Y											Y		
EPA 1668		MLA-010												Y							Y											Y			
Sum - Hexachlorobiphenyls (BZ-147 + BZ-149)	SGS AXYS MLA-010	MLA-010												Y							Y											Y			
	EPA 1668	MLA-010												Y							Y											Y			
Sum - Hexachlorobiphenyls (BZ-153 + BZ-168)	SGS AXYS MLA-010	MLA-010												Y							Y											Y			
	EPA 1668	MLA-010												Y							Y											Y			
Sum - Hexachlorobiphenyls (BZ-156 + BZ-157)	SGS AXYS MLA-010	MLA-010												Y							Y											Y			
	EPA 1668	MLA-010												Y							Y											Y			
Sum - Pentachlorobiphenyls (BZ-107 + BZ-124)	SGS AXYS MLA-010	MLA-010												Y							Y											Y			
	EPA 1668	MLA-010												Y							Y											Y			
Sum - Pentachlorobiphenyls (BZ-108 + BZ-124)	SGS AXYS MLA-010	MLA-010												Y							Y											Y			
	EPA 1668	MLA-010												Y							Y											Y			
Sum - Pentachlorobiphenyls (BZ-110 + BZ-115)	SGS AXYS MLA-010	MLA-010												Y							Y											Y			
	EPA 1668	MLA-010												Y							Y											Y			
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SGS AXYS Analytical Services Ltd. file ref.: ACC-101 Rev. 41																																			
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **	
	Total PeCDF	EPA 1613	MLA-017											Y						Y				Y						Y		Y			
		EPA 8290	MLA-017				Y		Y		Y		Y	Y				Y		Y	Y	Y				Y		Y				Y			
		SGS AXYS MLA-017	MLA-017				Y							Y				Y		Y		Y			Y							Y			
	Total TCDD	EPA 1613	MLA-017												Y					Y					Y							Y			
		EPA 8290	MLA-017				Y		Y		Y		Y	Y				Y		Y	Y	Y				Y		Y				Y			
		SGS AXYS MLA-017	MLA-017				Y							Y				Y		Y		Y			Y							Y			
	Total TCDF	EPA 1613	MLA-017												Y					Y					Y						Y		Y		
		EPA 8290	MLA-017				Y		Y		Y		Y	Y				Y		Y	Y	Y				Y		Y				Y			
		SGS AXYS MLA-017	MLA-017				Y							Y				Y		Y		Y			Y							Y			
PFAS	4:2 Fluorotelomersulfonate (4:2 FTS)	SGS AXYS MLA-081	MLA-081											Y																			Y		
		SGS AXYS MLA-089	MLA-089												Y																				
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	6:2 Fluorotelomersulfonate (6:2 FTS)	SGS AXYS MLA-081	MLA-081																															Y	
		SGS AXYS MLA-089	MLA-089												Y																				
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	8:2 Fluorotelomersulfonate (8:2 FTS)	SGS AXYS MLA-081	MLA-081																															Y	
		SGS AXYS MLA-089	MLA-089												Y																				
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	N-Ethylperfluorooctanesulfonamide (N-EtFOSA)	SGS AXYS MLA-110	MLA-110		Y							Y												Y							Y				
	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	N-Ethylperfluorooctanesulfonamidoethanol (N-EtFOSE)	SGS AXYS MLA-110	MLA-110		Y							Y												Y							Y				
	N-Methylperfluorooctanesulfonamide (N-MeFOSA)	SGS AXYS MLA-110	MLA-110		Y							Y												Y							Y				
	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	SGS AXYS MLA-110	MLA-110		Y							Y												Y							Y				
	Perfluorobutanesulfonate (PFBS)	SGS AXYS MLA-060	MLA-060																					Y	Y	Y	Y						Y		
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y						Y																				
		SGS AXYS MLA-043	MLA-043															Y	Y	Y	Y		Y												
		SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	Perfluorobutanoate (PFBA)	SGS AXYS MLA-060	MLA-060																					Y		Y	Y	Y					Y		
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y						Y																				
		SGS AXYS MLA-043	MLA-043															Y	Y	Y	Y		Y												
		SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	Perfluorodecanesulfonate (PFDS)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	Perfluorodecanoate (PFDA)	SGS AXYS MLA-060	MLA-060																					Y		Y	Y	Y					Y		
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y						Y																				
		SGS AXYS MLA-043	MLA-043															Y	Y	Y	Y		Y												
		SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	Perfluorododecanesulfonate (PFDoS)	SGS AXYS MLA-110	MLA-110		Y							Y												Y							Y				
	Perfluorododecanoate (PFDoA)	SGS AXYS MLA-060	MLA-060																					Y		Y	Y	Y					Y		
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y						Y																				
		SGS AXYS MLA-043	MLA-043															Y	Y	Y	Y		Y												
		SGS AXYS MLA-042	MLA-042	Y																															
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	Perfluoroheptanesulfonate (PFHpS)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y									Y		Y	Y		Y			Y	Y		
	Perfluoroheptanoate (PFHpA)	SGS AXYS MLA-060	MLA-060																					Y		Y	Y	Y					Y		
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y						Y																				
		SGS AXYS MLA-043	MLA-043															Y	Y	Y	Y		Y												

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																		CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	Maine DOH	ANAB ISO 17025	ANAB DoD **	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	ANAB ISO 17025	CALA	CALA	California DPH	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE *	Maine DOH	Pennsylvania DEP	ANAB ISO 17025	ANAB DoD **				
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID																																																	
	Perfluorohexanesulfonate (PFHxS)	SGS AXYS MLA-042	MLA-042	Y																																																
		SGS AXYS MLA-110	MLA-110		Y	Y	Y				Y		Y	Y																				Y	Y	Y		Y	Y													
		SGS AXYS MLA-060	MLA-060																																																	
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y					Y																					Y	Y	Y									Y						
		SGS AXYS MLA-043	MLA-043																																																	
		SGS AXYS MLA-042	MLA-042	Y																																																
	Perfluorohexanoate (PFHxA)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
		SGS AXYS MLA-060	MLA-060																																																	
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y				Y																				Y		Y	Y	Y															
		SGS AXYS MLA-043	MLA-043																																																	
		SGS AXYS MLA-042	MLA-042	Y																																																
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
	Perfluorononanesulfonate (PFNS)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
		SGS AXYS MLA-060	MLA-060																																																	
	Perfluorononanoate (PFNA)	SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y				Y																					Y	Y	Y																
		SGS AXYS MLA-043	MLA-043																																																	
		SGS AXYS MLA-042	MLA-042																																																	
		SGS AXYS MLA-042	MLA-042	Y																																																
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
	Perfluorooctanesulfonamide (PFOSA), a.k.a. FOSA	SGS AXYS MLA-060	MLA-060																																																	
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y				Y																					Y	Y	Y																
		SGS AXYS MLA-043	MLA-043																																																	
		SGS AXYS MLA-042	MLA-042	Y																																																
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
	Perfluorooctanesulfonate (PFOS)	SGS AXYS MLA-060	MLA-060																																																	
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y				Y																					Y	Y	Y																
		SGS AXYS MLA-043	MLA-043																																																	
		SGS AXYS MLA-042	MLA-042	Y																																																
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
	Perfluorooctanoate (PFOA)	SGS AXYS MLA-060	MLA-060																																																	
		SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y				Y																					Y	Y	Y																
		SGS AXYS MLA-043	MLA-043																																																	
		SGS AXYS MLA-042	MLA-042	Y																																																
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
	Perfluoropentanesulfonate (PFPeS)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
		SGS AXYS MLA-060	MLA-060																																																	
	Perfluoropentanoate (PFPeA)	SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y				Y																					Y	Y	Y																
		SGS AXYS MLA-043	MLA-043																																																	
		SGS AXYS MLA-042	MLA-042	Y																																																
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
		SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y											
SGS AXYS MLA-110		MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y												
Perfluorotetradecanoate (PFTeDA)	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y																					Y		Y	Y			Y												
	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y																					Y		Y	Y			Y												
Perfluoroundecanoate (PFUnA)	SGS AXYS MLA-060	MLA-060																																																		
	SGS AXYS MLA-041	MLA-041		Y		Y	Y	Y				Y																					Y	Y	Y																	
	SGS AXYS MLA-043	MLA-043																																																		
	SGS AXYS MLA-042	MLA-042	Y																																																	
	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y												
	SGS AXYS MLA-110	MLA-110		Y		Y	Y				Y		Y	Y																				Y		Y	Y			Y												
PPCP	1,7-Dimethylxanthine	EPA 1694	MLA-075																																																	
		SGS AXYS MLA-075	MLA-075		Y																																															
	10-hydroxy-amitriptyline	SGS AXYS MLA-075	MLA-075		Y																																															
	2-hydroxy-ibuprofen	SGS AXYS MLA-075	MLA-075		Y																																															

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file ref.: ACC-101 Rev. 41

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

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum										Tissue							
				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
	Sulfamethazine	SGS AXYS MLA-075 EPA 1694	MLA-075		Y								Y								
	Sulfamethizole	SGS AXYS MLA-075 EPA 1694	MLA-075		Y								Y							Y	
	Sulfamethoxazole	SGS AXYS MLA-075 EPA 1694	MLA-075										Y							Y	
	Sulfanilamide	SGS AXYS MLA-075 EPA 1694	MLA-075		Y								Y							Y	
	Sulfathiazole	SGS AXYS MLA-075 EPA 1694	MLA-075										Y							Y	
	Tetracycline (TC)	SGS AXYS MLA-075 EPA 1694	MLA-075		Y								Y							Y	
	Theophylline	SGS AXYS MLA-075	MLA-075		Y																
	Thiabendazole	SGS AXYS MLA-075 EPA 1694	MLA-075										Y							Y	
	Trenbolone	SGS AXYS MLA-075	MLA-075		Y																
	Trenbolone acetate	SGS AXYS MLA-075	MLA-075		Y																
	Triamterene	SGS AXYS MLA-075	MLA-075		Y																
	Triclocarban	SGS AXYS MLA-075 EPA 1694	MLA-075										Y							Y	
	Triclosan	SGS AXYS MLA-075 EPA 1694	MLA-075		Y								Y							Y	
	Trimethoprim	SGS AXYS MLA-075 EPA 1694	MLA-075										Y							Y	
	Tylosin	SGS AXYS MLA-075 EPA 1694	MLA-075		Y								Y							Y	
	Valsartan	SGS AXYS MLA-075	MLA-075		Y																
	Verapamil	SGS AXYS MLA-075	MLA-075		Y																
	Virginiamycin	SGS AXYS MLA-075 EPA 1694	MLA-075										Y							Y	
	Warfarin	SGS AXYS MLA-075 EPA 1694	MLA-075		Y								Y							Y	
		SGS AXYS MLA-075	MLA-075		Y																
Targeted Metabolites	11, 14, 17-eicosatrienoic acid (eicosatrienoic acid)	SGS AXYS MLM-001	MLM-001											Y							
	11, 14-eicosadienoic acid	SGS AXYS MLM-001	MLM-001											Y							
	3-hydroxytyrosine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Acetylcarnitine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Acetylmithine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Alanine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	alpha-Aminoadipic acid	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Arginine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Asparagine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Aspartate	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Asymmetric dimethylarginine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Butenylcarnitine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Butyrylcarnitine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	C22:5 ISOMER 1 (tentatively all-cis-4, 8, 12, 15, 19-docosapentaenoic acid)	SGS AXYS MLM-001	MLM-001											Y							
	C22:5 ISOMER 2 (all-cis-7,10,13,16,19-docosapentaenoic acid (DPA)	SGS AXYS MLM-001	MLM-001											Y							
	C22:5 ISOMER 3 (tentatively all-cis-4, 7, 10, 13, 16-docosapentaenoic acid)	SGS AXYS MLM-001	MLM-001											Y							
	Carnitine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Carnosine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	chenodeoxycholic acid	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	cholic acid	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Citrulline	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Creatinine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	Decadienylcarnitine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					
	decanoic acid (capric acid)	SGS AXYS MLM-001	MLM-001											Y							
	Decanoylcarnitine	SGS AXYS MLM-001	MLM-001	Y										Y		Y					

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

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

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

Legend

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

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



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



CALA
Testing
Accreditation No. A 2637



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

