

SGS

AXYS

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SGS AXYS Client No.: 4066

Client Address: Tetra Tech, Inc. - Pacific Guardian Ctr.
737 Bishop St., Suite 2340, Mauka Tower
Honolulu, HI, US, 96813-3201

The SGS AXYS contact for these data is Dale Robinson.

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BATCH SUMMARY

Batch ID: WG88111	Date: 14-Dec-2023
Analysis Type: Phosphate Flame Retardants	Matrix Type: Solid
BATCH MAKEUP	
Contract: 4066 Samples: L40286-1 KULA ASH #1	Blank: WG88111-101
	Reference or Spike: WG88111-102
	Duplicate:
Comments: 1. Data are considered final. 2. The analytes TCPP, TPP, 2IPPDPP, TBEP and TEHP were detected in the Lab Blank (SGS AXYS ID: WG88111-101) above the method blank limit. Data are not blank corrected. Blank data should be taken into consideration when evaluating sample data. 3. Blank data should be evaluated against specifications using the same blank sample size as the size of the client samples. 4. Percent recovery of labeled compound d51-TEHP in the continuing calibration (data filename: RP3X_119 S: 23) was above the method limit. Given that the corresponding analytes met method criteria, data are not considered affected. 5. Percent recovery of analytes TEP, 2IPPDPP, and TBEP in the OPR (SGS AXYS ID: WG88111-102) were above the method limit and were flagged with an 'N'. Sample data may be similarly affected. 6. Percent recovery of several labeled compounds in the Lab Blank and client sample were below the method nominal limit and were flagged with a 'V'. As the isotope dilution method of quantification produces data that are recovery corrected, the variances from the method acceptance criteria are deemed not to affect the quantification of the analytes. Percent labeled compound recoveries are used as a general method performance indicator only.	

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February 2017

SGS-AXYS LABORATORY CHAIN-OF-CUSTODY RECORD

Client Name/Account #: TetraTech, Inc.

Address: 737 Bishop St., Suite 2000

City/State/Zip: Honolulu, HI 96813

Project Manager: Eric Jensen (eric.jensen@tetratech.com)

Telephone Number: 808.225.7084

Fax No.: NA

Sampler Name: (Print) Roger Brewer, DOH

Sampler Signature: Roger Brewer, DOH



TETRA TECH

4066

Report To: Eric Jensen

Invoice To: Eric Jensen

Project ID: DOH Maui Wildfire Ash Sample - KULA

Project #: 103S864023138

[illegible]

SGS AXYS METHOD MLA-098 Rev 01

Form 1A
ANALYSIS REPORT

CLIENT SAMPLE NO.
KULA ASH #1
Sample Collection:
21-Sep-2023 17:00

SGS AXYS ANALYTICAL SERVICES

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

Project No.

DOH MAUI WILDFIRE - KULA ASH

Contract No.: 4066**Lab Sample I.D.:**

L40286-1 R

Matrix: SOLID**Sample Size:** 9.82 g (dry)**Sample Receipt Date:** 29-Sep-2023**Initial Calibration Date:** 18-Oct-2023**Extraction Date:** 07-Dec-2023**Instrument ID:** LC MS/MS**Analysis Date:** 12-Dec-2023 **Time:** 02:10:43**Column ID:** C18**Extract Volume (uL):** 1000**Sample Data Filename:** RP3X_119 S: 30**Injection Volume (uL):** 2**Blank Data Filename:** RP3X_119 S: 29**Dilution Factor:** N/A**Cal. Ver. Data Filename:** RP3X_119 S: 23**Concentration Units:** ng/g (dry weight basis)**% Moisture:** 3.28

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RETENTION TIME
TEP		4.40	0.0092 (L)	7:25
TPrP		0.040	0.0092 (L)	
TBP	B	3.66	0.0092 (L)	
TCEP	B	0.152	0.0204 (L)	8:10
TCPP	B	3.54	0.0764 (L)	10:18
TPP	B	2.64	0.0764 (L)	11:57
EHDPP	B	0.422	0.0408 (L)	14:11
2IPDPDP	B	5.18	0.0255 (L)	13:21
TCrP	B	0.243	0.0092 (L)	
4TBPDPDP		0.178	0.0255 (L)	13:58
TBEP	B	91.9	0.0611 (L)	13:04
TDCPP		0.516	0.0408 (L)	11:49
V6		0.043	0.0255 (L)	10:56
TDBPP	U		0.0611 (L)	
TEHP	B	0.261	0.0102 (L)	16:43

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL; B = analyte found in the associated blank and concentration in sample is less than 10X the concentration in the associated blank.

(2) 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: Bryan Alonzo

SGS AXYS METHOD MLA-098 Rev 01

Form 2
ANALYSIS REPORTCLIENT SAMPLE NO.
KULA ASH #1
Sample Collection:
21-Sep-2023 17:00

SGS AXYS ANALYTICAL SERVICES

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

Project No.

DOH MAUI WILDFIRE - KULA
ASH

Contract No.: 4066

Lab Sample I.D.:

L40286-1 R

Matrix: SOLID

Sample Size: 9.82 g (dry)

Sample Receipt Date: 29-Sep-2023

Initial Calibration Date: 18-Oct-2023

Extraction Date: 07-Dec-2023

Instrument ID: LC MS/MS

Analysis Date: 12-Dec-2023 Time: 02:10:43

Column ID: C18

Extract Volume (uL): 1000

Sample Data Filename: RP3X_119 S: 30

Injection Volume (uL): 2

Blank Data Filename: RP3X_119 S: 29

Dilution Factor: N/A

Cal. Ver. Data Filename: RP3X_119 S: 23

Concentration Units: ng absolute

% Moisture: 3.28

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	RETENTION TIME
d15-TEP		5.00	1.54	30.8	7:20
d21-TPrP		5.00	2.73	54.7	10:02
d27-TBP		5.00	3.40	67.9	12:30
d12-TCEP		102	96.8	95.0	8:07
d18-TCPP		15.0	14.3	95.5	10:19
13C18-TPP		30.0	27.4	91.2	11:57
d10-2IPDP	V	150	37.2	24.8	13:18
d10-4TBPDP	V	150	35.0	23.3	13:56
d27-TBEP	V	450	105	23.3	12:56
d15-TDCPP		200	150	74.8	11:46
d51-TEHP		200	104	51.9	16:39
d16-V6	V	150	27.8	18.5	10:53
d15-TDBPP	V	750	194	25.9	12:20

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

(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: _____ Bryan Alonzo _____

Form 1A
ANALYSIS REPORT

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

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4066

Project No.

N/A

Lab Sample I.D.:

WG88111-101

Matrix: SOLID

Sample Size: 10.0 g

Sample Receipt Date: N/A

Initial Calibration Date: 18-Oct-2023

Extraction Date: 07-Dec-2023

Instrument ID: LC MS/MS

Analysis Date: 12-Dec-2023 Time: 01:48:46

Column ID: C18

Extract Volume (uL): 1000

Sample Data Filename: RP3X_119 S: 29

Injection Volume (uL): 2

Blank Data Filename: RP3X_119 S: 29

Dilution Factor: N/A

Cal. Ver. Data Filename: RP3X_119 S: 23

Concentration Units: ng/g

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

COMPOUND	LAB FLAG ¹	CONC. FOUND	REPORTING LIMIT (RL) ²	RETENTION TIME
TEP	U	0.430	0.0090 (L)	7:26
TPrP			0.0090 (L)	
TBP		0.565	0.0090 (L)	
TCEP		0.033	0.0200 (L)	8:12
TCPP	U	0.378	0.0750 (L)	10:21
TPP		1.10	0.0750 (L)	11:58
EHDPP		0.122	0.0400 (L)	14:10
2IPPDPP		4.71	0.0250 (L)	13:20
TCrP		0.052	0.0090 (L)	
4TBDPP			0.0250 (L)	
TBEP		46.9	0.0600 (L)	13:04
TDCPP			0.0400 (L)	
V6			0.0250 (L)	
TDBPP			0.0600 (L)	
TEHP		0.103	0.0100 (L)	16:44

(1) Where applicable, custom lab flags have been used on this report; U = not detected at RL.
(2) 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: _____Bryan Alonzo_____

Form 2
ANALYSIS REPORT

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

SGS AXYS ANALYTICAL SERVICES

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

Contract No.: 4066

Project No.

N/A

Lab Sample I.D.:

WG88111-101

Matrix: SOLID

Sample Size: 10.0 g

Sample Receipt Date: N/A

Initial Calibration Date: 18-Oct-2023

Extraction Date: 07-Dec-2023

Instrument ID: LC MS/MS

Analysis Date: 12-Dec-2023 Time: 01:48:46

Column ID: C18

Extract Volume (uL): 1000

Sample Data Filename: RP3X_119 S: 29

Injection Volume (uL): 2

Blank Data Filename: RP3X_119 S: 29

Dilution Factor: N/A

Cal. Ver. Data Filename: RP3X_119 S: 23

Concentration Units: ng absolute

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

LABELED COMPOUND	LAB FLAG ¹	SPIKE CONC.	CONC. FOUND	R(%) ²	RETENTION TIME
d15-TEP		5.00	1.12	22.4	7:21
d21-TPrP		5.00	2.11	42.1	10:05
d27-TBP		5.00	3.38	67.6	12:30
d12-TCEP		102	78.1	76.6	8:09
d18-TCPP		15.0	11.8	78.8	10:21
13C18-TPP		30.0	26.1	86.8	11:58
d10-2IPDPDP	V	150	44.3	29.5	13:17
d10-4TBDPDP	V	150	42.7	28.5	13:55
d27-TBEP	V	450	106	23.6	12:55
d15-TDCPP		200	169	84.3	11:47
d51-TEHP		200	275	137	16:40
d16-V6	V	150	22.7	15.2	10:55
d15-TDBPP	V	750	204	27.2	12:20

(1) Where applicable, custom lab flags have been used on this report; V = surrogate recovery is not within method/contract control limits.
(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: _____Bryan Alonzo_____

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.:	4066	Lab Sample I.D.:	WG88111-102
Matrix:	SOLID	Initial Calibration Date:	18-Oct-2023
Extraction Date:	07-Dec-2023	Instrument ID:	LC MS/MS
Analysis Date:	12-Dec-2023 Time: 00:42:47	Column ID:	C18
Extract Volume (uL):	1000	OPR Data Filename:	RP3X_119 S: 26
Injection Volume (uL):	2	Blank Data Filename:	RP3X_119 S: 29
Dilution Factor:	N/A	Cal. Ver. Data Filename:	RP3X_119 S: 23

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.

COMPOUND	LAB FLAG ¹	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	% RECOVERY	RETENTION TIME
TEP	N	10.0	15.5	155	7:26
TPrP		30.0	29.6	98.6	
TBP		40.0	40.2	100	
TCEP		40.0	42.1	105	8:11
TCPP		50.0	45.6	91.2	10:21
TPP		50.2	61.7	123	11:59
EHDPP		80.0	79.3	99.1	14:11
2IPDPDP	N	50.0	70.8	142	13:22
TCrP		40.2	41.0	102	
4TBDPDP		50.0	52.7	106	13:59
TBEP	N	40.1	182	455	13:05
TDCPP		80.0	78.7	98.4	11:51
V6		49.9	53.3	107	10:58
TDBPP		120	114	94.8	12:25
TEHP		20.0	26.2	131	16:41

(1) Where applicable, custom lab flags have been used on this report; N = authentic recovery in the OPR is not within method/contract control limits.

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

Signed: _____Bryan Alonzo_____

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.

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.:	4066	Lab Sample I.D.:	WG88111-102
Matrix:	SOLID	Initial Calibration Date:	18-Oct-2023
Extraction Date:	07-Dec-2023	Instrument ID:	LC MS/MS
Analysis Date:	12-Dec-2023 Time: 00:42:47	Column ID:	C18
Extract Volume (uL):	1000	OPR Data Filename:	RP3X_119 S: 26
Injection Volume (uL):	2	Blank Data Filename:	RP3X_119 S: 29
Dilution Factor:	N/A	Cal. Ver. Data Filename:	RP3X_119 S: 23

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT, BASED ON A 1 mL EXTRACT VOLUME.

LABELLED COMPOUND	LAB FLAG ¹	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	% RECOVERY	RETENTION TIME
d15-TEP		5.00	2.12	42.4	7:21
d21-TPrP		5.00	3.39	67.9	10:05
d27-TBP		5.00	4.24	84.8	12:31
d12-TCEP		102	92.6	90.9	8:08
d18-TCPP		15.0	14.4	96.1	10:21
13C18-TPP		30.0	27.1	90.3	11:59
d10-2IPPDPP		50.0	43.0	86.1	13:19
d10-4TBDPP		50.0	40.6	81.3	13:56
d27-TBEP		150	125	83.3	12:57
d15-TDCPP		200	169	84.4	11:48
d51-TEHP		200	50.1	25.0	16:37
d16-V6		50.0	38.4	76.8	10:55
d15-TDBPP		250	222	88.7	12:21

(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: _____Bryan Alonzo_____

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.

LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 18-Oct-2023

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: N/A
CS1 Data Filename: RP3X_099 S: 8
CS2 Data Filename: RP3X_099 S: 9
CS3 Data Filename: RP3X_099 S: 10
CS4 Data Filename: RP3X_099 S: 11
CS5 Data Filename: RP3X_099 S: 12
CS6 Data Filename: RP3X_099 S: 13
CS7 Data Filename: RP3X_099 S: 14
CS8 Data Filename: N/A

COMPOUND	LAB FLAG ¹	PERCENT RECOVERY (%)							
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7
TEP			120	139	95.9	89.1	87.0	86.9	81.8
TPrP			102	95.4	104	103	105	103	87.1
TBP			132	126	98.6	92.2	88.2	87.8	75.1
TCEP			121	102	99.5	98.7	100	96.5	81.6
TCPP				138	102	89.6	82.3	88.3	
TPP				106	105	102	99.7	99.6	88.3
EHDPP			123	106	97.8	93.8	91.3	87.9	
2IPPDPP			102	116	107	105	105	96.9	67.4
TCrP			99.5	93.8	98.4	96.2	97.7	106	108
4TBPDP			118	110	104	102	99.4	94.7	71.5
TBEP				129	106	94.0	88.0	83.1	
TDCPP			130	104	91.4	99.0	96.2	96.4	83.2
V6			101	102	105	103	103	99.7	85.9
TDBPP			101	105	104	103	103	99.2	85.4
TEHP			114	95.2	105	103	103	100	79.1

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

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

Signed: _____Bryan Alonzo_____

LC MS/MS INITIAL CALIBRATION PERCENT RECOVERIES

SGS AXYS ANALYTICAL SERVICES

2045 MILLS RD., SIDNEY, B.C., CANADA
V8L 5X2 TEL (250) 655-5800 FAX (250) 655-5811
Initial Calibration Date: 18-Oct-2023

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: N/A
CS1 Data Filename: RP3X_099 S: 8
CS2 Data Filename: RP3X_099 S: 9
CS3 Data Filename: RP3X_099 S: 10
CS4 Data Filename: RP3X_099 S: 11
CS5 Data Filename: RP3X_099 S: 12
CS6 Data Filename: RP3X_099 S: 13
CS7 Data Filename: RP3X_099 S: 14
CS8 Data Filename: N/A

LABELED COMPOUND	LAB FLAG ¹	PERCENT RECOVERIES (%)							
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7
d15-TEP			103	99.0	99.3	96.9	100	100	101
d21-TPrP			103	102	99.9	97.0	97.3	100	101
d27-TBP			103	101	99.8	99.7	104	102	91.0
d12-TCEP			103	100	101	98.6	100	100	97.1
d18-TCPP			101	102	97.4	99.8	103	98.6	97.9
13C18-TPP			105	104	102	100	104	100	83.9
d10-2IPPDPP			101	100	101	97.8	102	101	97.8
d10-4TBDPP			101	98.8	99.1	98.4	103	102	97.7
d27-TBEP			102	97.3	99.7	96.9	102	104	97.8
d15-TDCPP			101	102	98.2	97.9	102	101	97.7
d51-TEHP			58.5	78.2	83.8	90.4	125	124	140
d16-V6			103	101	99.2	99.2	101	102	94.3
d15-TDBPP			101	100	98.7	98.6	101	103	96.8

(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: _____Bryan Alonzo_____

Form 3C
LC MS/MS INITIAL CALIBRATION RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 18-Oct-2023

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: N/A
CS1 Data Filename: RP3X_099 S: 8
CS2 Data Filename: RP3X_099 S: 9
CS3 Data Filename: RP3X_099 S: 10
CS4 Data Filename: RP3X_099 S: 11
CS5 Data Filename: RP3X_099 S: 12
CS6 Data Filename: RP3X_099 S: 13
CS7 Data Filename: RP3X_099 S: 14
CS8 Data Filename: N/A

COMPOUND	LAB FLAG ¹	RETENTION TIMES								MEAN RT
		CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7	
TEP			7:32	7:31	7:30	7:31	7:30	7:32	7:30	7:31
TPrP										0
TBP										0
TCEP			8:18	8:17	8:17	8:17	8:16	8:19	8:16	8:17
TCP				10:30	10:31	10:30	10:30	10:32		10:31
TPP				12:09	12:10	12:09	12:10	12:11	12:09	12:10
EHDPP			14:26	14:24	14:25	14:23	14:25	14:24		14:25
2IPDP			13:36	13:34	13:35	13:33	13:35	13:34	13:34	13:34
TCrP										0
4TBDPP			14:13	14:11	14:12	14:11	14:12	14:11	14:12	14:12
TBEP				13:18	13:19	13:17	13:19	13:18		13:18
TDCP			12:05	12:02	12:03	12:02	12:03	12:03	12:02	12:03
V6			11:10	11:06	11:08	11:06	11:07	11:09	11:06	11:07
TDBP			12:39	12:36	12:37	12:35	12:37	12:37	12:36	12:37
TEHP			16:52	16:57	16:52	16:55	16:53	16:54	16:55	16:54

(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: _____Bryan Alonzo_____

Form 3D
LC MS/MS INITIAL CALIBRATION RETENTION TIMES

SGS AXYS ANALYTICAL SERVICES

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

Initial Calibration Date: 18-Oct-2023

Instrument ID: LC MS/MS

LC Column ID: C18

CS0 Data Filename: N/A
CS1 Data Filename: RP3X_099 S: 8
CS2 Data Filename: RP3X_099 S: 9
CS3 Data Filename: RP3X_099 S: 10
CS4 Data Filename: RP3X_099 S: 11
CS5 Data Filename: RP3X_099 S: 12
CS6 Data Filename: RP3X_099 S: 13
CS7 Data Filename: RP3X_099 S: 14
CS8 Data Filename: N/A

		RETENTION TIMES								MEAN RT
LABELLED COMPOUND	LAB FLAG ¹	CS0	CS1	CS2	CS3	CS4	CS5	CS6	CS7	
d15-TEP			7:27	7:26	7:25	7:26	7:25	7:27	7:25	7:26
d21-TPrP			10:17	10:14	10:15	10:14	10:14	10:16	10:13	10:15
d27-TBP			12:46	12:43	12:44	12:43	12:44	12:45	12:44	12:44
d12-TCEP			8:15	8:14	8:14	8:14	8:13	8:16	8:13	8:14
d18-TCPP			10:33	10:30	10:31	10:30	10:30	10:32	10:30	10:31
13C18-TPP			12:12	12:09	12:10	12:09	12:10	12:11	12:09	12:10
d10-2IPDP			13:33	13:31	13:32	13:30	13:32	13:31	13:31	13:31
d10-4TBDPP			14:11	14:09	14:09	14:08	14:09	14:09	14:09	14:09
d27-TBEP			13:12	13:09	13:10	13:09	13:10	13:10	13:10	13:10
d15-TDCPP			12:02	11:58	12:00	11:58	12:00	12:00	11:58	11:59
d51-TEHP			16:48	16:52	16:48	16:51	16:49	16:50	16:51	16:50
d16-V6			11:07	11:04	11:05	11:04	11:04	11:06	11:04	11:05
d15-TDBPP			12:35	12:32	12:33	12:32	12:33	12:34	12:32	12:33

(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: _____Bryan Alonzo_____

Form 4A
LC MS/MS 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: 18-Oct-2023 VER Data Filename: RP3X_119 S: 23
Instrument ID: LC MS/MS Analysis Date: 11-Dec-2023
LC Column ID: C18 Analysis Time: 23:36:55

COMPOUND	LAB FLAG ¹	RETENTION TIME	EXPECTED CONC. (ng)	CONC. FOUND (ng)	RECOVERY (%)
TEP		7:25	10.0	8.89	88.5
TPrP			30.0	32.8	109
TBP			40.0	36.4	91.1
TCEP		8:10	40.0	39.3	98.4
TCPP		10:18	50.0	42.8	85.6
TPP		11:57	50.2	49.0	97.6
EHDPP		14:11	80.0	75.9	94.8
2IPDP		13:21	50.0	52.1	104
TCrP			40.0	38.3	95.7
4TBPDP		13:59	50.0	50.6	101
TBEP		13:04	40.1	35.7	89.0
TDCPP		11:49	80.0	80.1	100
V6		10:56	49.9	51.2	102
TDBPP		12:23	120	123	102
TEHP		16:43	20.0	24.1	120

(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: Bryan Alonzo

For Axys Internal Use Only [XSL Template: FC-Form4A.xsl; Created: 14-Dec-2023 09:13:18; Application: XMLTransformer-1.18.46; Report Filename: GENERIC-SPECS_FR_LC_RP3X_119S23__Form4A_SJ3357275.html; Workgroup: WG88111; Design ID: 5276]

Form 4B
LC MS/MS 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:	18-Oct-2023	VER Data Filename:	RP3X_119 S: 23
Instrument ID:	LC MS/MS	Analysis Date:	11-Dec-2023
LC Column ID:	C18	Analysis Time:	23:36:55

LABELLED COMPOUND	LAB FLAG ¹	RETENTION TIME	EXPECTED CONC. (ng)	CONC. FOUND (ng)	RECOVERY (%)
d15-TEP		7:20	5.00	5.10	102
d21-TPrP		10:02	5.00	5.16	103
d27-TBP		12:30	5.00	5.10	102
d12-TCEP		8:07	100	101	101
d18-TCPP		10:19	15.0	14.8	99.1
13C18-TPP		11:57	30.0	31.4	105
d10-2IPPDPP		13:18	50.0	49.8	99.6
d10-4TBPDP		13:56	50.0	50.6	101
d27-TBEP		12:56	150	141	93.7
d15-TDCPP		11:46	200	189	94.5
d51-TEHP		16:39	200	402	201
d16-V6		10:53	50.0	44.1	88.2
d15-TDBPP		12:20	250	231	92.4

(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: _____Bryan Alonzo_____

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Accreditation Scope				Serum	Solids											Tissue and Tissue Flora	Urine	Water	Water, Non-Potable											AFF									
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID			ALA	Alaska DEC	ANAB DoD **	ANAB ISO 17025	CAIA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP					New York DOH	Virginia DGS	Washington DE	ANAB DoD **	ANAB ISO 17025	CAIA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS		ALA	Alaska DEC	ANAB DoD **	ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP
OC Pesticides	Alpha-HCH	SGS AXYS MLA-007	MLA-007						Y	Y										Y	Y								Y										
OC Pesticides		SGS AXYS MLA-228	MLA-228						Y	Y					Y	Y				Y	Y			Y					Y										
OC Pesticides		EPA 625	MLA-007																										Y	Y									
OC Pesticides		EPA 8270E	MLA-007							Y	Y	Y			Y	Y	Y																						
OC Pesticides		EPA 1699	MLA-028							Y											Y									Y									
OC Pesticides		SGS AXYS MLA-028	MLA-028		Y				Y	Y							Y			Y	Y				Y					Y									
OC Pesticides	Beta-HCH	SGS AXYS MLA-007	MLA-007						Y	Y										Y					Y														
OC Pesticides		SGS AXYS MLA-228	MLA-228						Y	Y										Y	Y			Y															
OC Pesticides		EPA 625	MLA-007																										Y	Y			Y						
OC Pesticides		EPA 8270E	MLA-007								Y	Y	Y			Y	Y	Y																					
OC Pesticides		EPA 1699	MLA-028							Y											Y																		
OC Pesticides		SGS AXYS MLA-028	MLA-028		Y				Y	Y							Y			Y	Y				Y					Y									
OC Pesticides	Chlordane, technical	SGS AXYS MLA-007	MLA-007					Y	Y											Y				Y															
OC Pesticides		SGS AXYS MLA-228	MLA-228					Y	Y											Y	Y			Y															
OC Pesticides		EPA 8270E	MLA-007							Y	Y				Y	Y													Y	Y									
OC Pesticides		SGS AXYS MLA-007	MLA-007							Y																			Y										
OC Pesticides	cis-Chlordane (alpha-Chlordane)	SGS AXYS MLA-228	MLA-228																									Y											
OC Pesticides		EPA 8270E	MLA-007							Y	Y			Y	Y													Y	Y										
OC Pesticides		EPA 1699	MLA-028							Y											Y								Y										
OC Pesticides		SGS AXYS MLA-028	MLA-028		Y				Y	Y							Y			Y	Y				Y				Y										
OC Pesticides	cis-Nonachlor	SGS AXYS MLA-007	MLA-007					Y	Y											Y				Y					Y										
OC Pesticides		SGS AXYS MLA-228	MLA-228					Y	Y											Y	Y			Y					Y										
OC Pesticides		EPA 8270E	MLA-007							Y						Y												Y											
OC Pesticides		EPA 1699	MLA-028		Y					Y											Y								Y										
OC Pesticides	Delta-HCH	SGS AXYS MLA-028	MLA-028					Y	Y											Y	Y				Y				Y										
OC Pesticides		SGS AXYS MLA-007	MLA-007					Y	Y											Y				Y				Y											
OC Pesticides		SGS AXYS MLA-228	MLA-228					Y	Y											Y	Y			Y				Y											
OC Pesticides		EPA 608	MLA-007																									Y	Y	Y			Y						
OC Pesticides	Dieldrin	EPA 8081B	MLA-007						Y	Y	Y			Y	Y	Y												Y	Y	Y			Y						
OC Pesticides		EPA 1699	MLA-028							Y																		Y											
OC Pesticides		SGS AXYS MLA-028	MLA-028		Y				Y	Y							Y				Y	Y			Y			Y											
OC Pesticides		SGS AXYS MLA-007	MLA-007						Y	Y											Y				Y			Y											
OC Pesticides	Endosulphan I	SGS AXYS MLA-228	MLA-228					Y	Y											Y	Y			Y				Y											
OC Pesticides		EPA 608	MLA-007																								Y	Y	Y			Y							
OC Pesticides		EPA 8081B	MLA-007							Y	Y	Y			Y	Y	Y																						
OC Pesticides		EPA 1699	MLA-028							Y											Y								Y										
OC Pesticides	Endosulphan II	SGS AXYS MLA-028	MLA-028		Y			Y	Y											Y	Y			Y				Y											
OC Pesticides		SGS AXYS MLA-007	MLA-007					Y	Y											Y				Y			Y												
OC Pesticides		SGS AXYS MLA-228	MLA-228					Y	Y											Y	Y			Y				Y											
OC Pesticides		EPA 608	MLA-007																									Y	Y	Y			Y						
OC Pesticides	Endosulphan sulphate	EPA 8081B	MLA-007						Y	Y	Y			Y	Y	Y												Y	Y	Y			Y						
OC Pesticides		EPA 1699	MLA-028							Y																		Y											
OC Pesticides		SGS AXYS MLA-028	MLA-028		Y				Y	Y										Y	Y			Y			Y												
OC Pesticides		SGS AXYS MLA-007	MLA-007						Y	Y										Y				Y			Y		Y										
OC Pesticides	Endrin	SGS AXYS MLA-228	MLA-228					Y	Y											Y	Y			Y				Y											
OC Pesticides		EPA 608	MLA-007																									Y	Y	Y			Y						
OC Pesticides		EPA 8081B	MLA-007							Y	Y	Y			Y	Y	Y											Y	Y	Y			Y						
OC Pesticides		EPA 1699	MLA-028							Y											Y								Y										
OC Pesticides	Endrin aldehyde	SGS AXYS MLA-028	MLA-028		Y			Y	Y											Y	Y			Y			Y												
OC Pesticides		SGS AXYS MLA-007	MLA-007					Y	Y											Y				Y			Y												
OC Pesticides		SGS AXYS MLA-228	MLA-228					Y	Y											Y	Y			Y			Y												
OC Pesticides		EPA 608	MLA-007																									Y	Y	Y			Y						
OC Pesticides		EPA 8081B	MLA-007						Y	Y	Y			Y	Y	Y												Y											
OC Pesticides		EPA 1699	MLA-028						Y																			Y											

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Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Tissue and Tissue Flora	Urine	Water	Water, Non-Potable	AFF
				CAIA Alaska DEC ANAB DOD ** ANAB ISO 17025 CAIA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE ANAB DOD ** ANAB ISO 17025 CAIA Florida DOH Minnesota DOH New Jersey DEP Virginia DGS CAIA CAIA Alaska DEC ANAB DOD ** ANAB ISO 17025 California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Pennsylvania DEP Virginia DGS Washington DE * ANAB DOD ** ANAB ISO 17025					
PCB congeners	PCB 105/127	SGS AXYS MLA-210	MLA-210						
PCB congeners		SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 8270E	MLA-007						
PCB congeners	PCB 106 2,3,3',4,5-Pentachlorobiphenyl	SGS AXYS MLA-007	MLA-007						
PCB congeners		EPA 1668	MLA-010						
PCB congeners		SGS AXYS MLA-010	MLA-010	Y			Y		
PCB congeners		SGS AXYS MLA-210	MLA-210				Y		
PCB congeners	PCB 107 2,3,3',4',5-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908						
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 1668	MLA-010						
PCB congeners		SGS AXYS MLA-010	MLA-010	Y			Y		
PCB congeners	PCB 107/109	SGS AXYS MLA-210	MLA-210				Y		
PCB congeners		SGS AXYS MLA-908	MLA-908				Y		
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 8270E	MLA-007				Y		
PCB congeners	PCB 108 2,3,3',4,5'-Pentachlorobiphenyl	SGS AXYS MLA-007	MLA-007						
PCB congeners		EPA 1668	MLA-010						
PCB congeners		SGS AXYS MLA-010	MLA-010	Y			Y		
PCB congeners		SGS AXYS MLA-210	MLA-210				Y		
PCB congeners	PCB 109 2,3,3',4,6-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908				Y		
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 1668	MLA-010				Y		
PCB congeners		SGS AXYS MLA-010	MLA-010	Y			Y		
PCB congeners	PCB 11 3,3'-Dichlorobiphenyl	SGS AXYS MLA-210	MLA-210				Y		
PCB congeners		SGS AXYS MLA-908	MLA-908				Y		
PCB congeners		EPA 1628	MLA-908						
PCB congeners		EPA 1668	MLA-010				Y		
PCB congeners	PCB 110 2,3,3',4',6-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010				Y		
PCB congeners		SGS AXYS MLA-210	MLA-210				Y		
PCB congeners		SGS AXYS MLA-908	MLA-908				Y		
PCB congeners		EPA 1628	MLA-908						
PCB congeners	PCB 111 2,3,3',5,5'-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		
PCB congeners		SGS AXYS MLA-010	MLA-010	Y			Y		
PCB congeners		SGS AXYS MLA-210	MLA-210				Y		
PCB congeners		SGS AXYS MLA-908	MLA-908				Y		
PCB congeners	PCB 112 2,3,3',5,6-Pentachlorobiphenyl	EPA 1628	MLA-908				Y		
PCB congeners		EPA 1668	MLA-010				Y		
PCB congeners		SGS AXYS MLA-010	MLA-010	Y			Y		
PCB congeners		SGS AXYS MLA-210	MLA-210				Y		
PCB congeners	PCB 113 2,3,3',5',6-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908				Y		
PCB congeners		EPA 1628	MLA-908				Y		
PCB congeners		EPA 1668	MLA-010				Y		
PCB congeners		EPA 8270E	MLA-007				Y		
PCB congeners	PCB 114 2,3,4,4',5-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y			Y		
PCB congeners		SGS AXYS MLA-210	MLA-210				Y		
PCB congeners		SGS AXYS MLA-908	MLA-908				Y		
PCB congeners		EPA 1628	MLA-908				Y		
PCB congeners	PCB 115 2,3,4,4',6-Pentachlorobiphenyl	EPA 1668	MLA-010				Y		
PCB congeners		SGS AXYS MLA-010	MLA-010	Y			Y		
PCB congeners		SGS AXYS MLA-210	MLA-210				Y		
PCB congeners		SGS AXYS MLA-908	MLA-908				Y		

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CAIA	Alaska DEC	ANAB D10 **	ANAB ISO 17025	CAIA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB D10 **	ANAB ISO 17025	CAIA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CAIA	CAIA	Alaska DEC	ANAB D10 **	ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB D10 **	ANAB ISO 17025	
PCB congeners	PCB 181 2,2',3,4,4',5,6-Heptachlorobiphenyl	SGS AXYS MLA-908	MLA-908							Y					Y	Y					Y		Y							Y			Y	Y	Y	Y	Y			
PCB congeners		EPA 1628	MLA-908																																					
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y		Y						Y	Y		Y	Y	Y	Y	Y			
PCB congeners		SGS AXYS MLA-010	MLA-010	Y					Y		Y											Y	Y		Y															
PCB congeners		SGS AXYS MLA-210	MLA-210						Y							Y						Y	Y																	
PCB congeners	PCB 182 2,2',3,4,4',5,6'-Heptachlorobiphenyl	SGS AXYS MLA-908	MLA-908							Y					Y	Y					Y	Y		Y									Y	Y	Y	Y	Y			
PCB congeners		EPA 1628	MLA-908																																					
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y		Y							Y	Y		Y	Y	Y	Y			
PCB congeners		SGS AXYS MLA-010	MLA-010	Y					Y													Y	Y		Y															
PCB congeners		SGS AXYS MLA-210	MLA-210						Y		Y																													
PCB congeners	PCB 183 2,2',3,4,4',5',6-Heptachlorobiphenyl	SGS AXYS MLA-908	MLA-908							Y					Y	Y					Y	Y		Y									Y	Y	Y	Y	Y			
PCB congeners		EPA 1628	MLA-908																																					
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y		Y							Y	Y		Y	Y	Y	Y			
PCB congeners		EPA 8270E	MLA-007																																					
PCB congeners		SGS AXYS MLA-010	MLA-010	Y					Y		Y											Y	Y		Y															
PCB congeners	PCB 184 2,2',3,4,4',6,6'-Heptachlorobiphenyl	SGS AXYS MLA-007	MLA-007																																					
PCB congeners		SGS AXYS MLA-210	MLA-210																																					
PCB congeners		SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y	Y		Y															
PCB congeners		EPA 1628	MLA-908																																					
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y		Y							Y	Y		Y	Y	Y	Y			
PCB congeners	PCB 185 2,2',3,4,5,5',6-Heptachlorobiphenyl	EPA 8270E	MLA-007																																					
PCB congeners		SGS AXYS MLA-010	MLA-010	Y					Y		Y											Y	Y		Y															
PCB congeners		SGS AXYS MLA-007	MLA-007						Y																															
PCB congeners		SGS AXYS MLA-210	MLA-210						Y		Y																													
PCB congeners		SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y	Y		Y															
PCB congeners	PCB 186 2,2',3,4,5,6,6'-Heptachlorobiphenyl	EPA 1628	MLA-908																																					
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y		Y							Y	Y		Y	Y	Y	Y			
PCB congeners		EPA 8270E	MLA-007																																					
PCB congeners		SGS AXYS MLA-010	MLA-010	Y					Y		Y																													
PCB congeners		SGS AXYS MLA-210	MLA-210						Y		Y																													
PCB congeners	PCB 187 2,2',3,4',5,5',6-Heptachlorobiphenyl	SGS AXYS MLA-908	MLA-908												Y	Y					Y	Y		Y																
PCB congeners		EPA 1628	MLA-908																																					
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y		Y							Y	Y		Y	Y	Y	Y			
PCB congeners		SGS AXYS MLA-010	MLA-010	Y					Y		Y																													
PCB congeners		SGS AXYS MLA-901	MLA-901	Y																																				
PCB congeners	PCB 187/182	SGS AXYS MLA-210	MLA-210					Y		Y																														
PCB congeners		SGS AXYS MLA-908	MLA-908												Y	Y																								
PCB congeners		EPA 1628	MLA-908								Y																													
PCB congeners		EPA 8270E	MLA-007																																					
PCB congeners		SGS AXYS MLA-007	MLA-007						Y																															
PCB congeners	PCB 188 2,2',3,4',5,6,6'-Heptachlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y																								
PCB congeners		EPA 8270E	MLA-007																																					
PCB congeners		SGS AXYS MLA-010	MLA-010	Y					Y		Y											Y	Y		Y															
PCB congeners		SGS AXYS MLA-210	MLA-210						Y		Y																													
PCB congeners		SGS AXYS MLA-908	MLA-908								Y				Y	Y						Y	Y		Y															
PCB congeners	PCB 189 2,3,3',4,4',5,5'-Heptachlorobiphenyl	EPA 1628	MLA-908																																					
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y					Y		Y							Y	Y		Y	Y	Y	Y			
PCB congeners		EPA 8270E	MLA-007																																					
PCB congeners		SGS AXYS MLA-010	MLA-010	Y					Y		Y																													
PCB congeners		SGS AXYS MLA-007	MLA-007						Y																															
PCB congeners	PCB 19 2,2',6-Trichlorobiphenyl	SGS AXYS MLA-210	MLA-210												Y																									
PCB congeners		SGS AXYS MLA-908	MLA-908												Y	Y																								
PCB congeners		EPA 1628	MLA-908																																					
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y																							
PCB congeners		EPA 8270E	MLA-007																																					

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CA	Alaska DEC	ANAB Dtd **	ANAB ISO 17025	CA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB Dtd **	ANAB ISO 17025	CA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CA	CA	Alaska DEC	ANAB Dtd **	ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB Dtd **	ANAB ISO 17025
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y									Y		Y				Y														
PCB congeners		SGS AXYS MLA-210	MLA-210						Y		Y												Y																
PCB congeners		SGS AXYS MLA-908	MLA-908								Y					Y						Y												Y	Y	Y	Y	Y	
PCB congeners		EPA 1628	MLA-908								Y											Y																	
PCB congeners	PCB 9 2,5-Dichlorobiphenyl	EPA 1668	MLA-010							Y			Y	Y	Y	Y					Y			Y										Y	Y	Y	Y	Y	
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y											Y			Y		Y													
PCB congeners		SGS AXYS MLA-210	MLA-210					Y		Y						Y					Y			Y															
PCB congeners		SGS AXYS MLA-908	MLA-908								Y					Y	Y				Y			Y															
PCB congeners	PCB 90 2,2',3,4',5-Pentachlorobiphenyl	EPA 1628	MLA-908							Y											Y			Y															
PCB congeners		EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y					Y			Y								Y	Y	Y	Y	Y			
PCB congeners		SGS AXYS MLA-010	MLA-010	Y					Y		Y										Y			Y		Y													
PCB congeners		SGS AXYS MLA-210	MLA-210						Y		Y										Y			Y															
PCB congeners	PCB 91 2,2',3,4',6-Pentachlorobiphenyl	SGS AXYS MLA-908	MLA-908							Y					Y	Y				Y			Y																
PCB congeners		EPA 1628	MLA-908								Y										Y			Y															
PCB congeners		EPA 1668	MLA-010								Y	Y		Y	Y	Y	Y				Y			Y								Y	Y	Y	Y	Y			
PCB congeners		EPA 8270E	MLA-007																		Y	Y																	
PCB congeners	PCB 92 2,2',3,5,5'-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y				Y		Y											Y			Y		Y													
PCB congeners		SGS AXYS MLA-210	MLA-210					Y		Y											Y			Y															
PCB congeners		SGS AXYS MLA-908	MLA-908								Y					Y	Y				Y			Y															
PCB congeners		EPA 1628	MLA-908								Y	Y		Y	Y	Y	Y				Y			Y															
PCB congeners	PCB 93 2,2',3,5,6-Pentachlorobiphenyl	EPA 8270E	MLA-007																		Y																		
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y											Y	Y				Y													
PCB congeners		SGS AXYS MLA-210	MLA-210					Y		Y											Y			Y															
PCB congeners		SGS AXYS MLA-908	MLA-908								Y					Y	Y				Y			Y															
PCB congeners	PCB 94 2,2',3,5,6'-Pentachlorobiphenyl	EPA 1628	MLA-908							Y											Y																		
PCB congeners		EPA 1668	MLA-010	Y						Y	Y		Y	Y	Y	Y	Y				Y			Y															
PCB congeners		EPA 8270E	MLA-007																		Y	Y				Y													
PCB congeners		SGS AXYS MLA-010	MLA-010	Y				Y		Y											Y	Y				Y													
PCB congeners	PCB 95 2,2',3,5',6-Pentachlorobiphenyl	SGS AXYS MLA-210	MLA-210					Y		Y											Y			Y															
PCB congeners		SGS AXYS MLA-908	MLA-908							Y						Y	Y				Y			Y															
PCB congeners		EPA 1628	MLA-908								Y										Y			Y															
PCB congeners		EPA 1668	MLA-010	Y							Y	Y		Y	Y	Y	Y				Y			Y															
PCB congeners	PCB 96 2,2',3,6,6'-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010					Y		Y											Y			Y															
PCB congeners		SGS AXYS MLA-210	MLA-210							Y											Y			Y															
PCB congeners		SGS AXYS MLA-908	MLA-908								Y					Y	Y				Y			Y															
PCB congeners		EPA 8270E	MLA-007																																				
PCB congeners	PCB 97 2,2',3,4',5'-Pentachlorobiphenyl	SGS AXYS MLA-010	MLA-010	Y				Y		Y											Y			Y															
PCB congeners		SGS AXYS MLA-210	MLA-210							Y											Y			Y															
PCB congeners		SGS AXYS MLA-908	MLA-908								Y					Y	Y				Y			Y															
PCB congeners		EPA 1628	MLA-908								Y										Y			Y															
PCB congeners	PCB 98 2,2',3,4',6-Pentachlorobiphenyl	EPA 1668	MLA-010							Y	Y		Y	Y	Y	Y					Y			Y															
PCB congeners		SGS AXYS MLA-010	MLA-010	Y						Y											Y			Y															
PCB congeners		SGS AXYS MLA-210	MLA-210							Y											Y			Y															
PCB congeners		SGS AXYS MLA-908	MLA-908								Y					Y	Y				Y			Y															
PCB congeners	PCB 99 2,2',4,4',5-Pentachlorobiphenyl	EPA 1628	MLA-908							Y											Y																		
PCB congeners		EPA 8270E	MLA-007																																				
PCB congeners		EPA 1668	MLA-010	Y					Y		Y										Y	Y					Y												
PCB congeners		SGS AXYS MLA-007	MLA-007	Y					Y												Y					Y													
PCB congeners, total		EPA 1628	MLA-908							Y											Y																		
PCB congeners, total		EPA 1668	MLA-010											Y																									

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Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	CALA	Serum	Tissue and Tissue Flora										Urine	Water	Water, Non-Potable										AFFF																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					Alaska DEC	ANAB DoD **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB DoD **	ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	Virginia DGS	CALA	CALA	Alaska DEC	ANAB DoD **	ANAB ISO 17025	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *	ANAB DoD **	ANAB ISO 17025																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
PFAS	Perfluorooheptanoate (PFHpA)	SGS AXYS MLA-060	MLA-060																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

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SGS AXYS Analytical Services Ltd. file ref.: ACC-103 Rev. 70																										
Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids	Tissue and Tissue Flora										Urine	Water	Water, Non-Potable	AFFF							
				CALA	Alaska DEC	ANAB DoD **	ANAB ISO 17025	CALA	California WB	Florida DOH	Maine DOH	Minnesota DOH	New Jersey DEP	New York DOH	Virginia DGS	Washington DE	ANAB DoD **	ANAB ISO 17025	CALA	Florida DOH	Minnesota DOH	New Jersey DEP	New York DOH	Pennsylvania DEP	Virginia DGS	Washington DE *
PPCP	Lincomycin	SGS AXYS MLA-075	MLA-075				Y																			
PPCP	Lomefloxacin	EPA 1694	MLA-075				Y		Y											Y						
PPCP	Mefenoxacin	SGS AXYS MLA-075	MLA-075				Y		Y											Y						
PPCP	Meproamate	SGS AXYS MLA-075	MLA-075				Y																			
PPCP	Metformin	EPA 1694	MLA-075						Y																	
PPCP	Methylprednisolone	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Metoprolol	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Miconazole	EPA 1694	MLA-075						Y												Y					
PPCP	Minocycline	SGS AXYS MLA-075	MLA-075				Y		Y											Y						
PPCP	Naproxen	EPA 1694	MLA-075				Y		Y											Y						
PPCP	Norflouxetine	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Norgestimate	EPA 1694	MLA-075				Y		Y											Y						
PPCP	Norverapamil	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Olofoxacin	EPA 1694	MLA-075						Y												Y					
PPCP	Ormetoprim	SGS AXYS MLA-075	MLA-075				Y		Y											Y						
PPCP	Oxacillin	EPA 1694	MLA-075				Y		Y											Y						
PPCP	Oxolinic acid	SGS AXYS MLA-075	MLA-075				Y		Y											Y						
PPCP	Oxycodone	EPA 1694	MLA-075						Y												Y					
PPCP	Oxytetracycline (OTC)	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Paroxetine	EPA 1694	MLA-075				Y		Y											Y						
PPCP	Penicillin G	SGS AXYS MLA-075	MLA-075				Y		Y											Y						
PPCP	Penicillin V	EPA 1694	MLA-075						Y											Y						
PPCP	Prednisolone	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Prednisonone	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Promethazine	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Propoxyphene	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Propranolol	SGS AXYS MLA-075	MLA-075						Y											Y						
PPCP	Ranitidine	EPA 1694	MLA-075						Y												Y					
PPCP	Roxithromycin	SGS AXYS MLA-075	MLA-075				Y		Y											Y						
PPCP	Sarafloxacin	EPA 1694	MLA-075						Y											Y						
PPCP	Sertraline	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Simvastatin	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Sulfachloropyridazine	EPA 1694	MLA-075						Y												Y					
PPCP	Sulfadiazine	SGS AXYS MLA-075	MLA-075				Y		Y											Y						
PPCP	Sulfadimethoxine	EPA 1694	MLA-075				Y		Y											Y						
PPCP	Sulfamerazine	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Sulfamethazone	EPA 1694	MLA-075						Y											Y						
PPCP	Sulfamethizole	SGS AXYS MLA-075	MLA-075				Y		Y											Y						
PPCP	Sulfamethoxazole	EPA 1694	MLA-075						Y											Y						
PPCP	Sulfanilamide	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Sulfathiazole	EPA 1694	MLA-075				Y		Y											Y						
PPCP	Tetracycline (TC)	SGS AXYS MLA-075	MLA-075				Y		Y											Y						
PPCP	Theophylline	SGS AXYS MLA-075	MLA-075				Y													Y						
PPCP	Thiabendazole	EPA 1694	MLA-075						Y												Y					

Accreditation Scope

SGS AXYS Analytical Services Ltd.
file ref.: ACC-103 Rev. 70

Compound Class	Compound	Accredited Method ID	SGS AXYS Method ID	Serum	Solids	Tissue and Tissue Flora	Urine	Water	Water, Non-Potable	AFFF
				CALA	Alaska DEC ANAB DoD ** ANAB ISO 17025 CALA California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Virginia DGS Washington DE	ANAB DoD ** ANAB ISO 17025 CALA Florida DOH Minnesota DOH New Jersey DEP Virginia DGS	CALA	CALA	Alaska DEC ANAB DoD ** ANAB ISO 17025 California WB Florida DOH Maine DOH Minnesota DOH New Jersey DEP New York DOH Pennsylvania DEP Virginia DGS Washington DE *	ANAB DoD ** ANAB ISO 17025

ANAB DoD ANSI National Accreditation Board, certificate ADE-1861, (US DoD QSM 5.3 and 5.4 Standard)



CALA Canadian Association for Laboratory Accreditation Inc., Lab ID A2637, (ISO/IEC 17025:2017 Standard)



CALA
Testing
Accreditation No. A2637