

SCOPE OF ACCREDITATION

ALS Canada Ltd.
ALS ENVIRONMENTAL (BURLINGTON)
5420 Mainway Drive, Unit 5
Burlington, ON
L7L 6A4

Accredited Laboratory No. 606

(Conforms with requirements of CAN-P-1585, CAN-P-1587 , CAN-P-4E (ISO/IEC 17025:2005))

CONTACT: Mr. Ryan Gordon
TEL: (905) 331-3111
FAX: (905) 331-4567
EMAIL: quality.burlington@alsglobal.com
URL: www.alsglobal.com

CLIENTS SERVED: All interested parties

FIELDS OF TESTING: Chemical/Physical

PROGRAM SPECIALTY AREA: Agriculture Inputs, Food, Animal Health and Plant Protection (PSA-AFAP) , Environmental (OSDWA)

ISSUED ON: 2011-05-12

VALID TO: 2014-07-31

ANIMAL AND PLANTS (AGRICULTURE)

Foods and Edible Products: (Human and Animal Consumption)

(Meat and Edible Meat Offal)

15SVSM_BA_FD_01	Determination of Polyaromatic Hydrocarbons (PAH) in Foods and Edible Products
15SVSM_BB_MM_01	Determination of Congener Specific Chlorinated Biphenyls in Foods and Edible Products
15SVSM_HT_MM_01	Determination of Polychlorinated Dioxins, Polychlorinated Furans & Selected PCB Congeners in Foods and Edible

Products

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental

Air (Inorganic)

(Inorganic Gases - Air (Stack))

15INSM_IC_MM_01	Anion and Cation Analysis via Ion Chromotography Ammonia (NH ₃) Bromine (Br ₂) Chlorine (Cl ₂) Hydrogen Bromide (HBr) Hydrogen Chloride (HCl) Hydrogen Fluoride (HF)
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(Mercury - Air (Stack))

15TMSM_CV_MM_01	Mercury Prep and Analysis via CVAA Mercury
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(Metals - Air (Stack))

15TMSM-MS-MM-01	Metals by ICP/MS Antimony Arsenic Barium Cadmium Chromium Cobalt Copper Lead Manganese Nickel Phosphorus Selenium Silver Thallium Vanadium Zinc
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Air (Organic)

(Brominated Diphenyl Ethers and Related Fire Retardants - Air)

15SVSM_HBr_MM_02 Brominated Fire Retardants Instrumental Method - HRMS
(Isotope Dilution GC/HRMS)
1,2-bis-(2,4,6-Tribromophenoxyethane)
DBE-10
DBE-100
DBE-105
DBE-11
DBE-116
DBE-118
DBE-119
DBE-12
DBE-120
DBE-126
DBE-128
DBE-13
DBE-138
DBE-140
DBE-15
DBE-153
DBE-154
DBE-155
DBE-166
DBE-17
DBE-181
DBE-183
DBE-190
DBE-203
DBE-206
DBE-207
DBE-208
DBE-209
DBE-25
DBE-28
DBE-30
DBE-32
DBE-33
DBE-35
DBE-37
DBE-47
DBE-49
DBE-51
DBE-66

DBE-7
DBE-71
DBE-75
DBE-77
DBE-79
DBE-8
DBE-85
DBE-99
Decabromobiphenylethane
Hexabromobenzene
Pentabromoethylbenzene

(Dioxins/Furans (PCDD/PCDF) - Air (Stack))

15SVSM_HD_MM_01	PCDD/F Instrumental Method - HRMS (Isotope Dilution GC/HRMS) 1,2,3,4,6,7,8-HpCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PeCDD 1,2,3,7,8-PeCDF 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PeCDF 2,3,7,8-TeCDD 2,3,7,8-TeCDF OCDD OCDF Total HpCDD Total HpCDF Total HxCDD Total HxCDF Total PeCDD Total PeCDF Total TeCDD Total TeCDF
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(Polycyclic Aromatic Hydrocarbons (PAH))

15SVSM-BA-MM-01	PAH Instrumental & Prep Method - GCMS
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Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Chrysene
Dibenzo (a,h) anthracene
Fluoranthene
Fluorene
Indeno (1,2,3 - cd) pyrene
Naphthalene
Phenanthrene
Pyrene

(Volatile Organic Compounds (VOC) - Air)

15VOSM-VT-AI-01 Volatile Organic Sampling Train (VOST) Sorbant Tube
Analysis
(GC/MS)
1,1,1 - Trichloroethane
1,1,2 - trichloroethane
1,1,2,2-Tetrachloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,2,3-Trichloropropane
1,2-Dichloroethane
1,2-Dichloropropane
2-Butanone
4-Methyl-2-pentanone
Acetone
Benzene
Bromodichloromethane
Bromoform
Bromomethane
Carbon Disulfide
Carbon Tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane
Chloroform
Chloromethane
cis-1,2-Dichloroethene

cis-1,3-Dichloropropene
Dibromomethane
Ethylbenzene
Hexanone
Iodomethane
m/p-xylene
Methylene Chloride
o-xylene
Styrene
Tetrachloroethene
Toluene
trans-1,2-Dichloroethene
trans-1,3-Dichloropropene
Trichlorfluoromethane
Trichloroethene
Vinyl Chloride

Solids (Organic)

(Brominated Diphenyl Ethers and Related Fire Retardants - Soils, Solids, Sediments)

15SVSM_HBr_MM_02 Brominated Fire Retardants Instrumental Method - HRMS
1,2-bis-(2,4,6-Tribromophenoxyethane)
DBE-10
DBE-100
DBE-105
DBE-11
DBE-116
DBE-118
DBE-119
DBE-12
DBE-120
DBE-126
DBE-128
DBE-13
DBE-138
DBE-140
DBE-15
DBE-153
DBE-154
DBE-155
DBE-166
DBE-17
DBE-181
DBE-183

DBE-190
DBE-203
DBE-206
DBE-207
DBE-208
DBE-209
DBE-25
DBE-28
DBE-30
DBE-32
DBE-33
DBE-35
DBE-37
DBE-47
DBE-49
DBE-51
DBE-66
DBE-7
DBE-71
DBE-75
DBE-77
DBE-79
DBE-8
DBE-85
DBE-99
Decabromobiphenylethane
Hexabromobenzene
Pentabromoethylbenzene

(Chlorinated Naphthalenes (PCNs) - Soils, Solids, Sediments)

BU-TM-1102 PCN Instrumental Method - HRMS

(Congener PCB - Solids, Soils, Sediments)

15SVSM_BB_MM_02 Determination of Congener Specific Chlorinated Biphenyls
(Isotope Dilution GC/HRMS)
PCB-1
PCB-10
PCB-100
PCB-101
PCB-102
PCB-103
PCB-104
PCB-105

PCB-106
PCB-107
PCB-108
PCB-109
PCB-11
PCB-110
PCB-111
PCB-112
PCB-113
PCB-114
PCB-115
PCB-116
PCB-117
PCB-118
PCB-119
PCB-12
PCB-120
PCB-121
PCB-122
PCB-123
PCB-124
PCB-125
PCB-126
PCB-127
PCB-128
PCB-129
PCB-13
PCB-130
PCB-131
PCB-132
PCB-133
PCB-134
PCB-135
PCB-136
PCB-137
PCB-138
PCB-139
PCB-14
PCB-140
PCB-141
PCB-142
PCB-143
PCB-144
PCB-145
PCB-146

PCB-147
PCB-148
PCB-149
PCB-15
PCB-150
PCB-151
PCB-152
PCB-153
PCB-154
PCB-155
PCB-156
PCB-157
PCB-158
PCB-159
PCB-16
PCB-160
PCB-161
PCB-162
PCB-163
PCB-164
PCB-165
PCB-166
PCB-167
PCB-168
PCB-169
PCB-17
PCB-170
PCB-171
PCB-172
PCB-173
PCB-174
PCB-175
PCB-176
PCB-177
PCB-178
PCB-179
PCB-18
PCB-180
PCB-181
PCB-182
PCB-183
PCB-184
PCB-185
PCB-186
PCB-187

PCB-188
PCB-189
PCB-19
PCB-190
PCB-191
PCB-192
PCB-193
PCB-194
PCB-195
PCB-196
PCB-197
PCB-198
PCB-199
PCB-2
PCB-20
PCB-200
PCB-201
PCB-202
PCB-203
PCB-204
PCB-205
PCB-206
PCB-207
PCB-208
PCB-209
PCB-21
PCB-22
PCB-23
PCB-24
PCB-25
PCB-26
PCB-27
PCB-28
PCB-29
PCB-3
PCB-30
PCB-31
PCB-32
PCB-33
PCB-34
PCB-35
PCB-36
PCB-37
PCB-38
PCB-39

PCB-4
PCB-40
PCB-41
PCB-42
PCB-43
PCB-44
PCB-45
PCB-46
PCB-47
PCB-48
PCB-49
PCB-5
PCB-50
PCB-51
PCB-52
PCB-53
PCB-54
PCB-55
PCB-56
PCB-57
PCB-58
PCB-59
PCB-6
PCB-60
PCB-61
PCB-62
PCB-63
PCB-64
PCB-65
PCB-66
PCB-67
PCB-68
PCB-69
PCB-7
PCB-70
PCB-71
PCB-72
PCB-73
PCB-74
PCB-75
PCB-76
PCB-77
PCB-78
PCB-79
PCB-8

PCB-80
PCB-81
PCB-82
PCB-83
PCB-84
PCB-85
PCB-86
PCB-87
PCB-88
PCB-89
PCB-9
PCB-90
PCB-91
PCB-92
PCB-93
PCB-94
PCB-95
PCB-96
PCB-97
PCB-98
PCB-99

(Dioxins and Furans (PCDD/PCDF) - Soil)

15SVSM_HD_MM_01	PCDD/F Instrumental Method - HRMS (Isotope Dilution GC/HRMS) 1,2,3,4,6,7,8-HpCDD 1,2,3,4,6,7,8-HpCDF 1,2,3,4,7,8,9-HpCDF 1,2,3,4,7,8-HxCDD 1,2,3,4,7,8-HxCDF 1,2,3,6,7,8-HxCDD 1,2,3,6,7,8-HxCDF 1,2,3,7,8,9-HxCDD 1,2,3,7,8,9-HxCDF 1,2,3,7,8-PeCDD 1,2,3,7,8-PeCDF 2,3,4,6,7,8-HxCDF 2,3,4,7,8-PeCDF 2,3,7,8-TeCDD 2,3,7,8-TeCDF OCDD OCDF Total HpCDD Total HpCDF
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Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

(Nitrosamines - Solids)

15SVSM-BN-MM-01 Nitrosamines Instrumental & Prep Method - GCMS
(Isotope Dilution GC/HRMS)
N-Nitrosodimethylamine

(Organochlorine Pesticides (OCP) - Soils, Solids, Sediments)

BU-TM-1103 OCP Instrumental Method - HRMS

(Polycyclic Aromatic Hydrocarbons (PAH) - Solids)

15SVSM-BA-MM-01 PAH Instrumental & Prep Method - GCMS
(GC/MS)
Acenaphthene
Acenaphthylene
Anthracene
Benzo (a) anthracene
Benzo (a) pyrene
Benzo (b) fluoranthene
Benzo (g,h,i) perylene
Benzo (k) fluoranthene
Chrysene
Dibenzo (a,h) anthracene
Fluoranthene
Fluorene
Indeno (1,2,3 - cd) pyrene
Naphthalene
Phenanthrene
Pyrene

Tissue (Organic)

(Brominated Diphenyl Ethers and Related Fire Retardants - Tissue)

15SVSM_HBr_MM_02 Brominated Fire Retardants Instrumental Method - HRMS
(Isotope Dilution GC/HRMS)
1,2-bis-(2,4,6-Tribromophenoxyethane)

DBE-10
DBE-100
DBE-105
DBE-11
DBE-116
DBE-118
DBE-119
DBE-12
DBE-120
DBE-126
DBE-128
DBE-13
DBE-138
DBE-140
DBE-15
DBE-153
DBE-154
DBE-155
DBE-166
DBE-17
DBE-181
DBE-183
DBE-190
DBE-203
DBE-206
DBE-207
DBE-208
DBE-209
DBE-25
DBE-28
DBE-30
DBE-32
DBE-33
DBE-35
DBE-37
DBE-47
DBE-49
DBE-51
DBE-66
DBE-7
DBE-71
DBE-75
DBE-77
DBE-79
DBE-8

DBE-85
DBE-99
Decabromobiphenylethane
Hexabromobenzene
Pentabromoethylbenzene

(Dioxins/Furans (PCDD/PCDF) - Biota)

15SVSM_HD_MM_01 PCDD/F Instrumental Method - HRMS
(Isotope Dilution GC/HRMS)
1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TeCDD
2,3,7,8-TeCDF
OCDD
OCDF
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

Water (Organic)

(Brominated Diphenyl Ethers and Related Fire Retardants - Water)

15SVSM_HBr_MM_02 Brominated Fire Retardants Instrumental Method - HRMS
(Isotope Dilution GC/HRMS)
1,2-bis-(2,4,6-Tribromophenoxyethane)
DBE-10
DBE-100

DBE-105
DBE-11
DBE-116
DBE-118
DBE-119
DBE-12
DBE-120
DBE-126
DBE-128
DBE-13
DBE-138
DBE-140
DBE-15
DBE-153
DBE-154
DBE-155
DBE-166
DBE-17
DBE-181
DBE-183
DBE-190
DBE-203
DBE-206
DBE-207
DBE-208
DBE-209
DBE-25
DBE-28
DBE-30
DBE-32
DBE-33
DBE-35
DBE-37
DBE-47
DBE-49
DBE-51
DBE-66
DBE-7
DBE-71
DBE-75
DBE-77
DBE-79
DBE-8
DBE-85
DBE-99

Decabromobiphenylethane
Hexabromobenzene
Pentabromoethylbenzene

(Nitrosamines - Water (OSDWA))

15SVSM-BN-MM-01 Nitrosamines Instrumental & Prep Method - GCMS
(Isotope Dilution GC/HRMS)
N-Nitrosodimethylamine

(PCDD/PCDF - Water (OSDWA))

15SVSM_HD_MM_01 PCDD/F Instrumental Method - HRMS
(Isotope Dilution GC/HRMS)
1,2,3,4,6,7,8-HpCDD
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8,9-HpCDF
1,2,3,4,7,8-HxCDD
1,2,3,4,7,8-HxCDF
1,2,3,6,7,8-HxCDD
1,2,3,6,7,8-HxCDF
1,2,3,7,8,9-HxCDD
1,2,3,7,8,9-HxCDF
1,2,3,7,8-PeCDD
1,2,3,7,8-PeCDF
2,3,4,6,7,8-HxCDF
2,3,4,7,8-PeCDF
2,3,7,8-TeCDD
2,3,7,8-TeCDF
OCDD
OCDF
Total HpCDD
Total HpCDF
Total HxCDD
Total HxCDF
Total PeCDD
Total PeCDF
Total TeCDD
Total TeCDF

Notes:

CAN-P-4E (ISO/IEC 17025): General Requirements for the Competence of Testing and Calibration Laboratories (ISO/IEC 17025-2005)

CAN-P-1585: Requirements for the Accreditation of Environmental Testing Laboratories

CAN-P-1587: Requirements - Accreditation of Agriculture Inputs, Food, animal Health and Plant Protection Testing Laboratories

"OSDWA" indicates the appendix is used for the analysis of Ontario drinking water samples, which is subject to the rules and related regulations under the Ontario "Safe Drinking Water Act" (2002).

S. Cross, Director, Conformity Assessment

Date: 2011-05-12

Number of Scope Listings: 22

SCC 1003-15/779

Partner File #0

Partner: SCC

MOE License No.: 2285