

# TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

#### **Scope of Accreditation**

La présente portée d'accréditation existe également en français et est publiée séparément.

Legal Name of Accredited Laboratory: AGAT Laboratories Ltd.

Location Name or Operating as (if applicable): AGAT Environmental, Calgary

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Fields of Testing:	Biological Chemical/Physical
Program Specialty Area:	Environmental Testing (ET)
Initial Accreditation:	2024-12-03
Most Recent Accreditation:	2025-06-11
Accreditation Valid to:	2028-12-03





## **ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY**

## **Environmental:**

#### Air

TO-4006	Volatile Organic Compounds (VOC) - Air [Soil Vapour] by GC/MS Thermal
10 1000	Descrption
	Modified BC MOE LABORATORY MANUAL SECTION H
	Modified EPA TO-17
	1,1,1,2-Tetrachloroethane
	1,1,1-Trichloroethane
	1,1,2,2-Tetrachloroethane
	1,1,2-Trichloroethane
	1,1-Dichloroethane
	1,1-Dichloroethene (1,1-Dichloroethylene)
	1,1-Dichloropropene
	1,2,3-Trichlorobenzene
	1,2,3-Trichloropropane
	1,2,4-Trichlorobenzene
	1,2,4-Trimethylbenzene
	1,2:3,4-Diepoxybutane
	1,2-Dibromo-3-chloropropane (DBCP)
	1,2-Dibromoethane (Ethylene dibromide)
	1,2-Dichlorobenzene
	1,2-Dichloroethane
	1,2-Dichloroethene
	1,2-Dichloropropane
	1,3,5-Trimethylbenzene
	1,3-Butadiene
	1,3-Dichlorobenzene
	1,3-Dichloropropane
	1,4-Dichlorobenzene
	1-Chlorobutane
	1- Chlorohexane
	2,2-Dichloropropane
	2-Butanone (Methyl ethyl ketone, MEK)
	2- Chlorotoluene
	2-Nitropropane
	4-Chlorotoluene (p-Chlorotoluene)
	4-Isopropyltoluene (p-Cymene)
	4-Methyl-2-pentanone (MIBK)
	Acetone (2-Propanone)
	Acetonitrile
	Acrylonitrile
	Allyl chloride (3-chloropropene)
	Benzene
	Benzyl chloride (a-Chlorotoluene)
	Bromobenzene
	Bromochloromethane
	Bromoform



Bromomethane

Butylbenzene (n-Butylbenzene)

Carbon disulfide

Carbon tetrachloride

Chlorobenzene

Chlorodibromomethane

Chloroethane (Ethyl chloride)

Chloroform

Chloromethane (Methyl chloride)

cis-1,3-Dichloropropene

cis-1,4-Dichloro-2-butene

Decane (n-Decane)

Dibromofluoromethane

Dibromomethane

Dichlorodifluoromethane (CFC-12, Freon 12)

Dichloromethane

Dodecane (n-Dodecane)

Epichlorohydrin

Ethyl acetate

Ethyl ether

Ethyl methacrylate (Ethyl-2-Methyl-2-Propenoate)

Ethylbenzene

Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)

Hexachloroethane

Hexane (n-Hexane)

Isobutanol (2-Methyl-1-propanol)

Isopropylbenzene (Cumene)

m,p-Xylene

Methacrylonitrile

Methyl acrylate

Methyl methacrylate

Methyl tert-butyl ether (MTBE)

Methylcyclohexane

Naphthalene

Nitrobenzene

n-Propylbenzene

n-Tridecane

o-Xylene

p-Dioxane

Pentachloroethane

Pentafluorobenzene

Propionitrile

Pyridine

sec-Butylbenzene ((1-Methylpropyl)benzene)

Styrene

tert-Butylbenzene

Tetrachloroethene

Toluene

trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)

trans-1,3-Dichloropropene

trans-1,4-Dichloro-2-butene

Trichloroethene



Trichlorofluoromethane
Vinyl chloride
Volatile Hydrocarbons (VH): C6-C13

#### Leachate/Waste

TO-0050	BTEX in Solids by GC/MS PURGE AND TRAP – Leachate (EPA 1311, 8260D)
	Modified EPA 5030B
	Benzene
	Ethylbenzene
	m,p-Xylene
	o-Xylene
	Toluene
TO-0050	BTEX in Solids by GC/MS HEADSPACE – Leachate (EPA 1311, 8260D)
10-0030	Modified EPA 5021A
	Benzene
	Ethylbenzene
	m,p-Xylene
	o-Xylene
	Toluene
INST-0140,	Metals in Waste by ICP/OES – Leachate in-house / Modified SM 3120B
SOIL-0420,	Antimony
INST-0142	Arsenic
	Barium
	Beryllium
	Boron
	Cadmium
	Chromium
	Cobalt
	Copper
	Iron
	Lead
	Mercury
	Nickel
	Selenium
	Silver
	Thallium
	Uranium
	Vanadium
	Zinc
	Zirconium
INST-0140,	Metals in Waste by ICP/OES – Modified SWEP Extraction
SOIL-0650,	Modified SCHED 4, BC HAZARDOUS WASTE REGULATIONS
INST-0142	Modified SM 3120 B
	Arsenic
	Barium
	Boron
	Cadmium
	Chromium
	Copper
	Lead
	Leau



	Management
	Mercury
	Selenium
	Silver
	Uranium
	Zinc
INST-0150,	Anions in Waste by Ion Chromatography (IC) – Modified SWEP Extraction
SOIL-0650	Modified SCHED 4, BC HAZARDOUS WASTE REGULATIONS
	Modified SM 4110B
	Fluoride
	Nitrate (NO3)
	Nitrite (NO2)
INST-0310,	Cyanide in Waste by Colourimetry – Modified SWEP Extraction
SOIL-0650	Modified SCHED 4, BC HAZARDOUS WASTE REGULATIONS
	Cyanide
SOIL-0580	Free Liquid - Waste – Visual (Paint Filter)
	Modified EPA 9095
	Free Liquids
TO-3500	Oil and Grease – Special Waste Oil and Grease (SWOG) by Gravimetric (in-house)
	Total Oil and Grease
TO-4008	Solvent Scan – Leachate by GC/FID
	EPA 5021
	EPA 8015C
	2-Butanone (Methyl ethyl ketone, MEK)
	2-Nitropropane
	Acetone (2-Propanone)
	Benzene
	Carbon disulfide
	Cyclohexanone
	Ethyl acetate
	Ethyl ether
	Ethylbenzene
	m,p-Xylene
	Methyl isobutyl ketone (MIBK)
	Nitrobenzene
	o-Xylene
	Toluene
	Xylenes
	Agreement

## Oil

TO-0420	Polychlorinated Biphenyls (PCB) – Oil by GC/ECD Modified AEC M106.0 Modified ASTM D4059-00
	Aroclor 1016 Aroclor 1221 Aroclor 1232
	Aroclor 1242 Aroclor 1248 Aroclor 1254
	Aroclor 1260 Aroclor 1262



Aroclor 1268	
Total PCB	

## Sediments, Soils (Inorganic)

INST-0140,	Metals in Solids by ICP/OES
SOIL-390,	Modified BC MOE LABORATORY MANUAL SECTION C
INST-0142	Modified EPA 3050B
	Modified SM 3120
	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Bismuth
	Boron
	Cadmium
	Calcium
	Chromium
	Cobalt
	Copper
	Iron Lead
	Lithium
	Magnesium
	Manganese
	Mercury
	Molybdenum
	Nickel
	Phosphorus
	Potassium
	Selenium
	Silicon
	Silver Sodium
	Strontium
	Sulphur (Sulfur)
	Thallium
	Tin
	Titanium
	Tungsten
	Uranium
	Vanadium
	Zinc Zirconium
INST-0141,	Metals in Solids by ICP/MS
SOIL-390,	Modified BC MOE LABORATORY MANUAL SECTION C
INST-0143	Modified EPA 3050B
_	Modified SM 3125



	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Bismuth
	Boron
	Cadmium
	Calcium
	Cesium
	Chromium
	Cobalt
	Copper
	Gallium
	Iron
	Lanthanum
	Lead
	Lithium
	Magnesium
	Manganese
	Mercury
	Molybdenum
	Nickel
	Phosphorus
	Potassium Rubidium
	Selenium
	Silicon
	Silver
	Sodium
	Strontium
	Sulphur (Sulfur)
	Tealling
	Thallium Thorium
	Tin
	Titanium
	Tungsten
	Uranium
	Vanadium
	Zinc
INICT 0140	Zirconium Soluble Cations in Solids by ICP/OES
INST-0140, SOIL-0140,	Modified SM 3120 B
INST-0142	Modified SOIL SAMPLING & METHODS OF ANALYSIS CHAPTER 15
	Boron
	Calcium
	Magnesium



	Potassium
	Sodium
	Sulphur (Sulfur)
INST-0140,	Extractable Barium in Solids by ICP/OES
SOIL-0610,	Modified ALBERTA ENVIRONMENT SOIL QUALITY GUIDELINES
INST-0142	Modified BC MOE LABORATORY MANUAL METHOD 9
	Modified SM 3120 B
	Extractable Barium (0.1M CaCl2)
	Extractable Barium (1.0M CaCl2)
INST-0140,	Total Barium in Solids by ICP/OES (Fusion)
SOIL-0620,	Modified ASTM D4503
INST-0142	Modified SM 3120 B
	Total Barium
INST-0140,	Available Nutrients in Solids by ICP/OES (SM 3120 B)
SOIL-0131,	(Modified Recommend Methods for Soil Analysis, Alberta Agriculture (RMSA)
SOIL-0132,	Potassium
INST-0142	Sulphur (Sulfur)
SOIL-0130,	Available Nutrients in Solids by Automated Colourimetry (Modified EPA 600/R-
INST-0530	93/100)
	RECOMMENDED METHODS FOR SOIL ANALYSIS, ALBERTA AGRICULTURE (RMSA)
	Phosphate
TO-3502	Sulphur in Solids by HPLC (in-house)
10 0002	Elemental Sulphur (Elemental Sulfur)
SOIL-0500,	Total Kjeldahl Nitrogen (TKN) in Solids (Modified EPA 351.2)
INST-0520	Kjeldahl Nitrogen
INST-0150,	Anions in Solids by Ion Chromatography (IC) – Saturated Paste
SOIL-140	Modified SM 4110 B
0012 110	Chloride
	Nitrate-N
	Nitrite (NO2)
	Sulphate
INST-0500	Chloride in Solids by Automated Colourimetry
	Modified SM 4500-CL- E
	Chloride
INST-0150,	Available Nitrate and Nitrite in Solids by Ion Chromatography (IC)
SOIL-0630	Modified SM 4110 B
	SOIL SAMPLING & METHOD OF ANALYSIS, CHAPTER 15, SECTION 15.2.1
	Available Nitrate
INOR-401-0120,	pH in Solids by pH Meter – Saturated Paste
INST-0104,	Modified METHODS OF SOIL ANALYSIS 15.2
SOIL-0110,	Modified SM 4500-H+
SOIL-0140	pH (saturated paste)
INOR-401-0120,	pH in Solids by pH Meter
INST-0104,	Modified METHODS OF SOIL ANALYSIS 15.2
SOIL-0110,	Modified SM 4500-H+
SOIL-0260	pH (1:1) soil:water
	pH (1:2) soil:CaCl2
	pH (1:2) soil:water
SOIL-0260,	pH in Solids by pH Meter by Auto Titration
INOR-401-0120,	SM 4500-H+
	SOIL SAMPLING & METHODS OF ANALYSIS, CARTER, 2ND EDITION



SOIL-0110,	pH (1:1) soil:water
INST-0101	pH (1:2) soil:CaCl2
	pH (1:2) soil:water
INOR-401-0120,	Organic Carbon in Solids by Spectrophotometer
SOIL-0480,	Modified METHODS OF SOIL ANALYSIS (2ND ED., 1982)
SOIL-110	Modified MSA PART 3 CH. 34
OOIL 110	Organic Carbon
	Organic Matter
SOIL-0470	Organic Matter in Solids by Gravimetric
301L-0470	Modified SSSA LOSS ON IGNITION METHOD, 1996
	Organic Matter
INOD 404 0420	
INOR-401-0120,	Ammonia in Solids by Colourimetry
INST-0340,	Modified SM 4500-NH3 G
SOIL-0110,	SOIL SAMPLING & METHODS OF ANALYSIS, CARTER
SOIL-0630	Ammonia-N
SOIL-0520	Particle Size Analysis (PSA) in Solids by 2 Point Hydrometer
	Modified JONES J. 2001 LAB GUIDE FOR CONDUCTING SOIL TEST & PLANT
	ANALYSIS
	Percent Clay
	Percent Sand
0011 0710	Percent Silt
SOIL-0540	Particle Size Analysis (PSA) in Solids by Gravimetric
	Modified SHELDRICK, B.H. & WANG, C, CARTER MO ED. 2007
	Particle Size
INST-0140,	Hot Water Extractable Boron in Solids by ICP-OES
SOIL-0270,	Modified SM 3120 B
INST-0142	Modified SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008
	Boron
INST-0120,	Conductivity in Solids by Conductivity Meter - Manual
SOIL-0140,	Modified METHODS OF SOIL ANALYSIS 15.2
SOIL-0260	Modified SM 2510 B
	Conductivity (1:2 soil:water)
	Conductivity (saturated paste)
INST-0101,	Conductivity in Solids by Conductivity Meter – Auto
SOIL-0140	Modified MÉTHODS OF SOIL ANALYSIS 15.2
	Modified SM 2510
	Conductivity (1:2 soil:water)
	Conductivity (saturated paste)
SOIL-0600	Hexavalent Chromium in Solids by Spectrophotometer
	Modified SSSA PART 3 CH 25
	Hexavalent Chromium
SOIL-0140	Percent Saturation in Solids by Gravimetric
	Modified CURTIN, MILLER, SOIL SAMPLING & METHODS OF ANALYSIS,
	CARTER, 2007
	Percent Saturation
SOIL-0220	Bulk Density in Solids by Gravimetric
20.20220	Modified BLAKE, G.R., MSA BULK DENSITY, 1986
	Bulk Density
SOIL-0230	Specific Gravity in Solids
3312 3200	Procedure for Using the Baroid Mud Balance
	Specific Gravity





SOIL-0310	Moisture in Solids by Gravimetric Modified SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 2008 Percent Moisture
SOIL-0655	Atterberg Plasticity Index in Solids – Liquid Limit Device  Modified ASTM D4318-10E1  Liquid Limit  Plastic Limit  Plasticity Index
SOIL-0660	Hydraulic Conductivity in Solids - Falling Head  Modified SOIL SCIENCE SOCIETY OF AMERICA  Hydraulic Conductivity
INST-0300	Phenols in Solids by Automated Colourimetry  Modified EPA 420.2  Modified EPA 600/4-79/20  Total Phenolics

# Sediments, Soils (Organic)

TO 1200	Dhanala in Calida by UDI C/LIV
TO-1200	Phenols in Solids by HPLC/UV
	Modified EPA 8321B
	2,3,4,5-Tetrachlorophenol
	2,3,4,6-Tetrachlorophenol
	2,3,4-Trichlorophenol
	2,3,5,6-Tetrachlorophenol
	2,3,5-Trichlorophenol
	2,3,6-Trichlorophenol
	2,4,5-Trichlorophenol
	2,4,6-Trichlorophenol
	2,4-Dichlorophenol
	2,4-Dimethylphenol
	2,4-Dinitrophenol
	2,6-Dichlorophenol
	2-Chlorophenol
	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-o-cresol, DNOC)
	2-Nitrophenol
	3,4,5-Trichlorophenol
	3-Methylphenol + 4-Methylphenol (m-Cresol + p-Cresol)
	4-Chloro-3-methylphenol
	Dinoseb
	Pentachlorophenol
	Phenol
TO-0210	Polycyclic Aromatic Hydrocarbons (PAH) in Solids by GC/MS
	Modified EPA 3540C, EPA 3570, EPA 8270E
	1-Methylnaphthalene
	2-Methylnaphthalene
	Acenaphthene
	Acenaphthylene
	Acridine
	Anthracene
	Benzo(a)anthracene
	Benzo(a)pyrene
	Benzo(b)fluoranthene



	Benzo(e)pyrene
	Benzo(g,h,i)perylene
	Benzo(k)fluoranthene
	Chrysene
	Dibenzo(a,h)anthracene
	Fluoranthene
	Fluorene
	Indeno(1,2,3 - cd)pyrene
	Naphthalene
	Perylene
	Phenanthrene
	Pyrene
	Quinoline
TO 0570	
TO-0570	Total Purgeable Hydrocarbons (TPH) in Solids by GC/FID
	Modified BC MOE LABORATORY MANUAL
	Modified CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1
	METHOD (TRUE) (05.040)
	Total Purgable Hydrocarbons (TPgH): (C5-C10)
	VH: C6-C10
TO-0510	Total Extractable Hydrocarbons (TEH) in Solids by GC/FID
	Modified AEC V92-M2
	Modified BC MOE CONTAMINATED SITES REGULATION (CSR)
	Modified EPA 8015D
	Extractable Petroleum Hydrocarbons (EPH): C10-C19
	Extractable Petroleum Hydrocarbons (EPH): C19-C32
	SASK (C11-C22)
	SASK (C23-C60)
	Total Extractable Hydrocarbons (TEH): C10-C32
TO-0410	Polychlorinated Biphenyls (PCB) in Solids by GC/ECD
	Modified AEC G106.0
	Modified EPA 8082
	Aroclor 1016
	Aroclor 1221
	Aroclor 1232
	Aroclor 1242
	Aroclor 1248
	Aroclor 1254
	Aroclor 1260
	Aroclor 1262
	Aroclor 1268 Total PCB
TO-0330	Volatile Organic Compounds (VOC) in Solids by GC/MS-PURGE AND TRAP
10 0000	Modified EPA 5030C
	Modified EPA 8260D
	1,1,1,2-Tetrachloroethane
	1,1,1-Trichloroethane
	1,1,2,2-Tetrachloroethane
	1,1,2-Trichloroethane
	1,1-Dichloroethane
	1,1-Dichloroethylene
	1,2,4-Trichlorobenzene
	1,2,4-Trimethylbenzene
	1,2-Dichlorobenzene



	1,2-Dichloroethane
	1,2-Dichloropropane
	1,3,5-Trimethylbenzene
	1,3-Butadiene
	1,3-Dichlorobenzene
	1,4-Dichlorobenzene
	2-Hexanone (Methyl butyl ketone, MBK)
	Acetone (2-Propanone)
	Benzene
	Bromodichloromethane
	Bromoform
	Bromomethane
	Butylbenzene (n-Butylbenzene)
	Carbon tetrachloride
	Chlorobenzene
	Chlorodibromomethane
	Chloroethane (Ethyl chloride)
	Chloroethene (Vinyl chloride)
	Chloroform
	Chloromethane (Methyl chloride)
	cis-1,2-Dichloroethylene
	cis-1,3-Dichloropropene
	Cyclohexene
	Decane
	Dichloromethane
	Dicyclopentadiene
	Ethylbenzene
	Ethylene Dibromide
	Hexane (n-Hexane)
	,
	Isopropylbenzene (Cumene)
	m,p-Xylene
	Methyl ethyl ketone
	Methyl isobutyl ketone (MIBK)
	Methyl t-butyl ether
	Naphthalene
	Nonane
	n-Propylbenzene
	o-Xylene
	sec-Butylbenzene (1-Methylpropyl)benzene)
	Styrene
	tert-Butylbenzene
	Tetrachloroethylene
	Toluene
	trans-1,2-Dichloroethylene
	trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)
	trans-1,3-Dichloropropene
	Trichloroethylene
	Trichlorofluoromethane
TO-0570	Petroleum Hydrocarbons (PHC) in Solids by GC/MS-PURGE AND TRAP
	CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
	F1: C6-C10
TO-0560	Petroleum Hydrocarbons (PHC) in Solids by GC/FID Cold Shake Extraction
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	CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD & EPA
	8015C
	F2: C10-C16
	F3: C16-C34
	F4: C34-C50
	Diesel Range Organics (DRO): C10-C28
TO-0560	Petroleum Hydrocarbons (PHC) in Solids by Gravimetric
	CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
	F4: Gravimetric
TO-0543	Petroleum Hydrocarbons (PHC) in Solids by GC/MS-HEADSPACE
	CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
	F1: C6-C10
TO-0543	Total Purgeable Hydrocarbons (TPH) in Solids by GC/FID-HEADSPACE
	CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
	Modified BC MOE LABORATORY MANUAL & EPA 8015C
	Total Purgable Hydrocarbons (TPgH): (C5-C10)
	Volatile Hydrocarbons: C6-C10
	Gasoline Range Organics (GRO): 2-methylpentane to 1,2,4-trimethlbenzene
TO-0332	Volatile Organic Compounds (VOC) in Solids by GC/MS-HEADSPACE
	Modified EPA 5021A
	Modified EPA 8260D
	1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane
	1,1,2-Trichloroethane
	1,1-Dichloroethane
	1,1-Dichloroethylene
	1,2,4-Trichlorobenzene
	1,2,4-Trimethylbenzene
	1,2-Dichlorobenzene
	1,2-Dichloroethane
	1,2-Dichloropropane
	1,3,5-Trimethylbenzene
	1,3-Butadiene
	1,3-Dichlorobenzene
	1,4-Dichlorobenzene
	2-Hexanone (Methyl butyl ketone, MBK)
	Acetone (2-Propanone)
	Benzene Bromodichloromethane
	Bromoform
	Bromomethane
	Butylbenzene (n-Butylbenzene)
	Carbon tetrachloride
	Chlorobenzene
	Chlorodibromomethane
	Chloroethane (Ethyl chloride)
	Chloroethene (Vinyl chloride)
	Chloroform
	Chloromethane (Methyl chloride)
	cis-1,2-Dichloroethylene
	cis-1,3-Dichloropropene
	Cyclohexene
	- CycloticActic



	Decane
	Dichloromethane
	Dicyclopentadiene
	Ethylbenzene
	Ethylene Dibromide
	Hexane (n-Hexane)
	Isopropylbenzene (Cumene)
	m,p-Xylene
	Methyl ethyl ketone
	Methyl isobutyl ketone (MIBK)
	Methyl t-butyl ether
	Naphthalene
	Nonane
	n-Propylbenzene
	o-Xylene
	sec-Butylbenzene ((1-Methylpropyl)benzene)
	Styrene
	tert-Butylbenzene
	Tetrachloroethylene
	Toluene
	trans-1,2-Dichloroethylene
	trans-1,3-Dichloropropene
	Trichloroethylene
	Trichlorofluoromethane
TO-1410	
10-1410	Glycols in Solids by GC/FID (EPA 8015D)
	Diethylene glycol
	Ethylene glycol
	Propylene glycol
	Tetraethylene glycol
	Triethylene glycol
TO-1420	Alcohols in Solids by GC/FID
	Modified EPA 5021, EPA 8015C
	1-Butanol (n-Butanol)
	1-Propanol (Propanol)
	2-Butanol (sec-Butanol)
	2-Methyl-1-propanol (Isobutanol)
	Allyl alcohol
	Ethanol
	Methanol
	Pentanol
	tert-Butanol (2-Methyl-2-propanol)
TO-1320	Glyphosate in Solids by HPLC (in-house)
	Glyphosate
TO-2200	Oil and Grease in Solids by FTIR
	Modified SM 5220 C
	Total Oil and Grease
TO-2210	Flashpoint in Solids by Pensky-Martens Closed Cup
1.0 22 10	Modified ASTM D93-02A
	Flashpoint
TO-1315	Sterilant Herbicides in Solids by HPLC (in-house)
10-1313	
	Atrazine



	Bromacil
	Diuron (DCPMU)
	Linuron
	Simazine
	Tebuthiuron
TO-2240	Ethanolamines in Solids by HPLC (in-house)
	Diethanolamine (ĎEA)
	Diisopropanolamine (DIPA)
	Monoethanolamine (MEA)
	Monoisopropanolamine (MIPA)
TO-3501	Sulfolane in Solids by GC/MS (in-house)
	Sulfolane
TO-4008	Solvent Scan – Solids (Soil) by GC/FID
	EPA 5021
	EPA 8015C
	2-Butanone (Methyl ethyl ketone, MEK)
	2-Nitropropane
	Acetone (2-Propanone)
	Benzene
	Carbon disulfide
	Cyclohexanone
	Ethyl acetate
	Ethyl ether
	Ethylbenzene
	m,p-Xylene
	Methyl isobutyl ketone (MIBK)
	Nitrobenzene
	o-Xylene
	Toluene
	Xylenes

# Water Quality (Inorganics)

INST-0100	Alkalinity in Water by Manual Titration
	Modified SM 2320 B
	Alkalinity (pH 4.5)
INST-0101	Alkalinity in Water by Auto Titration
	Modified SM 2320 B
	Alkalinity (pH 4.5)
INST-0104	pH – Water by pH Meter – Manual
	Modified SM 4500-H+ B
	pH
INST-0101	pH – Water by pH Meter by Auto Titration
	Modified SM 4500-H+
	pH
INST-0150,	Anions in Water by Ion Chromatography (IC)
WATR-0200	Modified SM 4110 B
	Bromate (BrO3)
	Bromide `
	Chlorate
	Chloride



	Chlorite
	Fluoride
	lodide
	Nitrate
	Nitrite
	Sulfate
INST-0120	Conductivity in Water by Conductivity Meter – Manual
	Modified SM 2510 B
	Conductivity (25°C)
INST-0101	Conductivity in Water by Conductivity Meter – Auto
	Modified SM 2510
	Conductivity (25°C)
INST-0140,	Dissolved Metals in Water by ICP/OES in-house / modified SM 3120 B
WATR-0200,	Aluminum
INST-0142	Antimony
11101 0112	Arsenic
	Barium
	Beryllium
	Bismuth
	Boron
	Cadmium
	Calcium
	Chromium
	Cobalt
	Copper
	Iron
	Lead
	Lithium
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Phosphorus
	Potassium
	Selenium
	Silicon
	Silver
	Sodium
	Strontium
	Sulphur (Sulfur)
	Thallium
	Tin
	Titanium
	Tungsten
	Uranium
	Vanadium
	Zinc
	Zirconium
INST-0141,	Dissolved Metals in Water by ICP/MS
WATR-0200,	Modified SM 3125
INST-0143	Aluminum
	Antimony



Arsenic	
Barium	
Beryllium	
Bismuth	
Boron	
Cadmium	
Calcium	
Cesium	
Chromium	
Cobalt	
Copper	
Gallium	
Iron	
Lanthanum	
Lead	
Lithium	
Magnesium	
Manganese	
Mercury	
Molybdenum	
Nickel	
Phosphorus	
Potassium	
Rhenium	
Rubidium	
Selenium	
Silicon	
Silver	
Sodium	
Strontium	
Sulphur (Sulfur)	
Tellurium	
Thorium	
Tin	
Titanium	
Uranium	
Vanadium	
Zinc	
Zirconium	
INST-0140, Total Metals in Water by ICP/OES	
WATR-0200, Modified SM 3120	
INST-0142 Antimony	
Arsenic	
Barium	
Beryllium	
Bismuth	
Boron	
Cadmium	
Calcium	
Chromium	
Cobalt	
Copper	



	Iron
	Lead
	Lithium
	Magnesium
ļ	Manganese
	Molybdenum
	Nickel
	Phosphorus Potassium
	Selenium
	Silicon
	Silver
	Sodium
	Strontium
	Sulphur (Sulfur)
	Thallium
	Tin
	Titanium
	Tungsten
	Uranium
	Vanadium
	Zinc
	Zirconium
INCT 0444	
INST-0141,	Total Metals in Water by ICP/MS
WATR-0200,	Modified SM 3125
INST-0143	Aluminum
	Antimony
	Arsenic
	Barium
	Beryllium
	Bismuth
	Boron
	Cadmium
	Calcium
	Cesium
	Chromium
	Cobalt
	Copper
	Gallium
	Iron
	Lanthanium
	Lead
1	Lithium
	Magnesium
	Manganese
	Mercury
	Molybdenum
	Nickel
,	Phosphorus
	Potassium
	Rhenium
1	Rubidium



	Selenium
	Silicon
	Silver
	Sodium
	Strontium
	Sulphur (Sulfur)
	Tellurium
	Thallium
	Thorium
	Tin
	Titanium
	Tungsten
	Uranium
	Vanadium
	Zinc
11.10 T 0.400	Zirconium
INST-0163	Total and Dissolved Mercury in Water by Cold Vapour Atomic Fluorescence
	Spectroscopy (CVAFS)
	EPA 1631
	Dissolved Mercury
	Total Mercury
INST-0520	Total Kjeldahl Nitrogen (TKN) and Dissolved Kjeldahl Nitrogen (DKN) in Water by
	Automated Colourimetry
	Modified EPA 351.2
	Dissolved Kjeldahl Nitrogen
	Total Kjeldahl Nitrogen
INST-0170	Total and Dissolved Nitrogen in Water by Combustion/Chemiluminescence
	SM 4500-N E
	Dissolved Nitrogen
	Total Nitrogen
MIC-1500	Biochemical Oxygen Demand (BOD) in Water by Dissolved Oxygen Meter (DO)
	Modified SM 4500-O C
	Modified SM 5210 B
	BOD (5 day)
	CBOD (5 day)
WATR-0600,	Solids in Water by Gravimetric
WATR-0610	Modified SM 2540 C
WATK-0010	SM 2540 D
	Total Dissolved Solids
TOV 0400	Total Suspended Solids
TOX-0100	Microtox in Water by Bioluminescence
	Modified EPS 1/RM/24
	Microtox IC50 (15 min)
INST-0280	Chemical Oxygen Demand (COD) in Water by Spectrophotometry
	Modified EPA 410.4
	COD
INST-0170	Carbon in Water by Infrared Spectroscopy (IR) Combustion
	Modified SM 5310 B
	Inorganic Carbon
	Organic Carbon
INST-0340	Ammonia in Water by Automated Colourimetry
	1



	Modified SM 4500-P F
	Ammonia
INST-0530	Phosphate in Water by Automated Colourimetry
	SM 4500-P F
	Phosphate
INST-0530	Phosphorus in Water by Automated Colourimetry
	SM 4500-P F
	Total Dissolved Phosphorus
	Total Phosphorus
WATR-0100	Sulphide in Water by Automated Colourimetry
	Modified SM 4500-S2- D
	Sulphide
WATR-0500	Turbidity in Water – Nephelometric
	Modified SM 2130 B
	Turbidity
INST-0300	Phenols in Water by Automated Colourimetry
	Modified EPA 420.2
	Total Phenolics
WATR-0300	Total Hexavalent Chromium in Water by Colourimetry
	Modified SM 3500-CR
	Hexavalent Chromium
WATR-0700	Residual Chlorine in Water by Iodometric Titration
	SM 4500-CL
	Total Residual Chlorine
WATR-0710	Colour in Water by Colorimetric-UV/Visible
	SM 2120 C
	Apparent Colour
	True Colour

## Water Quality (Organics)

TO-0200	Polycyclic Aromatic Hydrocarbons (PAH) in Water by GC/MS
	Modified EPA 3510B, EPA 3511, EPA 8270E
	1-Methylnaphthalene
	2-Methylnaphthalene
	Acenaphthene
	Acenaphthylene
	Acridine
	Anthracene
	Benzo(a)anthracene
	Benzo(a)pyrene
	Benzo(b)fluoranthene
	Benzo(e)pyrene
	Benzo(g,h,i)perylene
	Benzo(k)fluoranthene
	Chrysene Dibenzo(a,h) anthracene
	Fluoranthene
	Fluorene
	Indeno(1,2,3 – cd) pyrene
	Naphthalene





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	1,4-Dichlorobenzene
	2-Hexanone (Methyl butyl ketone, MBK)
	Acetone (2-Propanone)
	Benzene
	Bromodichloromethane
	Bromoform
	Bromomethane
	Butylbenzene (n-Butylbenzene)
	Carbon tetrachloride
	Chlorobenzene
	Chlorodibromomethane
	Chloroethane (Ethyl chloride)
	Chloroform
	Chloromethane (Methyl chloride)
	cis-1,2-Dichloroethylene
	cis-1,3-Dichloropropene
	Cyclohexene
	Decane
	Dibromochloromethane
	Dichloromethane
	Dicyclopentadiene
	Ethylbenzene
	Ethylene Dibromide
	Hexane (n-Hexane)
	Isopropylbenzene (Cumene)
	m,p-Xylene
	Methyl ethyl ketone
	Methyl isobutyl ketone (MIBK)
	Methyl tert-butyl ether (MTBE)
	Naphthalene
	Nonane
	n-Propylbenzene
	o-Xylene
	sec-Butylbenzene ((1-Methylpropyl)benzene)
	Styrene
	tert-Butylbenzene
	Tetrachloroethylene
	Toluene
	trans-1,2-Dichloroethylene
	trans-1,3-Dichloropropene
	Trichloroethene
	Trichloroethylene
	Trichlorofluoromethane
	Vinyl chloride
TO-0332	Volatile Organic Compounds (VOC) in Water by GC/MS-Headspace
	Modified EPA 5021A
	Modified EPA 8260D
	1,1,1-Trichloroethane
	1,1,2-Trichloroethane
	1,1-Dichloroethane
	1,1-Dichloroethylene
	1,2,4-Trichlorobenzene
	1,2,4-THOHOLOBERZERIE



	1,2-Dichlorobenzene
	1,2-Dichloroethane
	1,2-Dichloropropane
	1,3,5-Trimethylbenzene
	1,3-Butadiene
	1
	1,3-Dichlorobenzene
	1,4-Dichlorobenzene
	2-Hexanone (Methyl butyl ketone, MBK)
	Acetone (2-Propanone)
	Benzene
	Bromodichloromethane
	Bromoform
	Bromomethane
	Butylbenzene (n-Butylbenzene)
	Carbon tetrachloride
	Chlorobenzene
	Chlorodibromomethane
	Chloroethane (Ethyl chloride)
	Chloroform
	Chloromethane (Methyl chloride)
	cis-1,2-Dichloroethylene
	cis-1,3-Dichloropropene
	Cyclohexene
	Decane
	Dichloromethane
	Dicyclopentadiene
	Ethylbenzene
	Ethylene Dibromide
	Hexane (n-Hexane)
	Isopropylbenzene (Cumene)
	m,p-Xylene
	Methyl ethyl ketone
	Methyl isobutyl ketone (MIBK)
	Methyl tert-butyl ether (MTBE)
	Naphthalene
	·
	Nonane
	n-Propylbenzene
	o-Xylene
	sec-Butylbenzene ((1-Methylpropyl)benzene)
	Styrene
	tert-Butylbenzene
	Tetrachloroethylene
	Toluene
	trans-1,2-Dichloroethylene
	trans-1,3-Dichloropropene
	Trichloroethylene
	Trichlorofluoromethane
	Vinyl chloride
TO-0400	Polychlorinated Biphenyls (PCB) in Water by GC/ECD
100400	Modified EPA 8082
	Aroclor 1016
	Aroclor 1221



	Aroclor 1232
	Aroclor 1242
	Aroclor 1248
	Aroclor 1254
	Aroclor 1260
	Aroclor 1262
	Aroclor 1268
	Total PCB
TO-1410	Glycols in Water by GC/FID
	Modified EPA 8015D
	Diethylene glycol
	Ethylene glycol
	Propylene glycol
	Tetraethylene glycol
	Triethylene glycol
TO-1420	
10-1420	Alcohols in Water by GC/FID  Modified EPA 5021
	EPA 8015C
	1-Butanol (n-Butanol)
	1-Propanol (Propanol) 2-Butanol (sec-Butanol)
	2-Methyl-1-propanol (Isobutanol)
	2-Propanol (Isopropyl alcohol)
	Allyl alcohol Ethanol
	Methanol
	Pentanol
TO-1320	tert-Butanol (2-Methyl-2-propanol) Glyphosate in Water by HPLC (in-house)
10-1320	Glyphosate III Water by HFLC (III-House)
TO-1315	Sterilant Herbicides in Water by HPLC (in-house)
10-1313	Atrazine
	Bromacil
	Diuron
	Linuron
	Simazine
	Tebuthiuron
TO-1200	Phenols in Water by HPLC/UV (in-house)
10-1200	2,3,4,5-Tetrachlorophenol
	2,3,4,6-Tetrachlorophenol
	2,3,4-Trichlorophenol
	2,3,5,6-Tetrachlorophenol
	2,3,5-Trichlorophenol
	2,3,6-Trichlorophenol
	2,4,5-Trichlorophenol
	2,4,6-Trichlorophenol
	2,4,0- Michiorophenol
	2,4-Dichlorophenol
	2,4-Dintethyphenol
	2,6-Dichlorophenol
	2-Chlorophenol
	2-Methyl-4,6-dinitrophenol (4,6-Dinitro-o-cresol, DNOC)



	2-Methylphenol (o-Cresol)
	2-Nitrophenol
	3,4,5-Trichlorophenol
	3-Methylphenol + 4-Methylphenol (m-Cresol + p-Cresol)
	4-Chloro-3-methylphenol
	4-Nitrophenol
	Dinoseb
	Pentachlorophenol
	Phenol
TO-2240	Ethanolamines in Water by HPLC (in-house)
10-2240	Diethanolamine (DEA)
	Diisopropanolamine (DIPA)
	Monoethanolamine (MEA)
	Monoisopropanolamine (MIPA)
TO-2230	Volatile Organic Acids in Water by Ion Chromatography (IC) (In-house)
	Acetic acid
	Butyric acid
	Caproic Acid (Hexanoic Acid)
	Formic acid
	Isobutyric acid
	Isovaleric acid
	Propionic acid
	Valeric acid
TO-2220	Naphthenic Acids in Water by FTIR (in-house)
	Naphthenic Acids
TO-2200	Oil and Grease in Water by FTIR
. 0 2200	Modified SM 5220 C
	Total Oil and Grease
TO-3501	Sulfolane in Water by GC/MS (in-house)
10-3301	Sulfolane
TO-4008	
10-4006	Solvent Scan – Water by GC/FID
	EPA 5021
	EPA 8015C
	2-Butanone (Methyl ethyl ketone, MEK)
	2-Nitropropane
	Acetone (2-Propanone)
	Benzene
	Carbon disulfide
	Cyclohexanone
	Ethyl acetate
	Ethyl ether
	Ethylbenzene
	m,p-Xylene
	Methyl isobutyl ketone (MIBK)
	Nitrobenzene
	o-Xylene
	Toluene
	Xylenes
l	1 3,5,5,5



#### Water (Microbiology)

MIC-0205	Coliforms in Water by QUANTI-TRAY (COLILERT) (SM 9223)
	Escherichia coli
	Fecal (Thermotolerant) Coliforms
	Total Coliforms
MIC-0300	Heterotrophic Plate Count (HPC) in Water - SPREAD PLATE (Modified SM 9215 C)
	Heterotrophic Plate Count (HPC)

Number of Scope Listings: 114

#### Notes:

**ASTM**: ASTM International, formerly called American Society for Testing and Materials.

**EPA**: Environmental Protection Agency.

**SM**: Standard Methods for Examination of Water and Wastewater, American Public Health Association (APHA).

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Elias Rafoul Vice-President, Accreditation Services Publication on: 2025-06-16

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