

CALA Scope of Accreditation

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Client ID: 1003152

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Standard: Conforms with requirements of ISO/IEC 17025:2017

Clients Served: All Interested Parties

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001 - Alkalinity

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: TITRIMETRIC

Preparation Method:

Lab Method ID(s): CE-TM-002

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2320 B	Yes	Yes	No

Parameter

Alkalinity (pH 4.5)

002 - Anions

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: ION CHROMATOGRAPHY (IC)

Preparation Method:

Lab Method ID(s): CE-TM-006

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4110 B	Yes	Yes	No

Parameter

Bromide

Chlorate

Chloride

Chlorite

Fluoride

Nitrate

Nitrite

Sulfate

003 - Conductivity

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: ION SELECTIVE ELECTRODE (ISE)

Preparation Method:

Lab Method ID(s): CE-TM-003

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2510 B	Yes	Yes	No

Parameter

Conductivity (25C)

006 - Reactive Silica

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: COLORIMETRIC

Preparation Method:

Lab Method ID(s): CE-TM-020

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-SIO2 C	Yes	Yes	No

Parameter

Reactive Silica

010 - Total Phosphorus

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: COLORIMETRIC

Preparation Method: DIGESTION

Lab Method ID(s): CE-TM-011

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-P B	No	Yes	No
SM 4500-P E	No	Yes	No

Parameter

Total Dissolved Phosphorus
Total Phosphorus

012 - Biochemical Oxygen Demand (BOD)

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: DISSOLVED OXYGEN METER (DO)

Preparation Method:

Lab Method ID(s): CA-TM-003, CE-TM-041

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5210 B	No	Yes	No
SM 5210 C	No	Yes	No

Parameter

BOD (5 day)
CBOD (5 day)
Ultimate Biochemical Oxygen Demand (BOD) (180 day)

014 - Rainbow Trout

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: LETHALITY

Preparation Method:

Lab Method ID(s): CE-TM-027

Method Reference	Modified From	Analytical Method	Preparation Method
EPS 1/RM/13	No	Yes	No
EPS 1/RM/9	No	Yes	No

Parameter

Single Concentration (96h)
Trout LC50 (96 h)

015 - Daphnia magna

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: LETHALITY

Preparation Method:

Lab Method ID(s): CE-TM-028

Method Reference	Modified From	Analytical Method	Preparation Method
EPS 1/RM/11	No	Yes	No
EPS 1/RM/14	No	Yes	No

Parameter

Daphnia LC50 (48 h)
Daphnia Single Concentration (48h)

021 - pH

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: PH METER

Preparation Method:

Lab Method ID(s): CE-TM-001

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-H+ B	No	Yes	No

Parameter

pH

022 - Ammonia

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: ION SELECTIVE ELECTRODE (ISE)

Preparation Method:

Lab Method ID(s): CE-TM-012

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-NH3 D	Yes	Yes	No

Parameter

Ammonia

023 - Phosphate

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: COLORIMETRIC

Preparation Method:

Lab Method ID(s): CE-TM-011

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-P E	Yes	Yes	No

Parameter
Phosphate

025 - Turbidity

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: NEPHELOMETRIC

Preparation Method:

Lab Method ID(s): CE-TM-032

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2130 B	No	Yes	No

Parameter
Turbidity

026 - Solids

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: GRAVIMETRIC

Preparation Method:

Lab Method ID(s): CA-TM-006, CE-TM-022

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2540 C	Yes	Yes	No
SM 2540 D	Yes	Yes	No
SM 2540 E	Yes	Yes	No

Parameter
Total Dissolved Solids
Total Suspended Solids
Volatile Suspended Solids

028 - Sulphide

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: COLORIMETRIC

Preparation Method:

Lab Method ID(s): CE-TM-024

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-S2- D	Yes	Yes	No

Parameter
Sulphide

042 - Heterotrophic Plate Count (HPC)

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: POUR PLATE

Preparation Method:

Lab Method ID(s): CE-TM-010

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9215 A	No	Yes	No
SM 9215 B	No	Yes	No

Parameter
Heterotrophic Plate Count (HPC)

044 - Fluoride

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: ION SELECTIVE ELECTRODE (ISE)

Preparation Method:

Lab Method ID(s): CE-TM-026

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-F- C	No	Yes	No

Parameter
Fluoride

049 - Coliforms

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: ENZYME SUBSTRATE - COLILERT

Preparation Method:

Lab Method ID(s): CA-TM-009

Method Reference	Modified From	Analytical Method	Preparation Method
SM 9223	Yes	Yes	No

Parameter

Escherichia coli (E. coli)
Fecal (Thermotolerant) Coliforms
Total Coliforms

050 - Rainbow Trout [pH Stabilization]

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: ACUTE LETHALITY (SURVIVAL)

Preparation Method:

Lab Method ID(s): CE-TM-035

Method Reference	Modified From	Analytical Method	Preparation Method
EPS 1/RM/13	No	Yes	No
EPS 1/RM/50	No	Yes	No

Parameter

Single Concentration (96h) - pH Stabilization
Trout LC50 (96h) - pH Stabilization

051 - Colour

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: SPECTROPHOTOMETRIC

Preparation Method:

Lab Method ID(s): CE-TM-37-00

Method Reference	Modified From	Analytical Method	Preparation Method
SM 2120 C	No	Yes	No

Parameter

True Colour

052 - Chemical Oxygen Demand (COD)

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: COLORIMETRIC

Preparation Method: DIGESTION

Lab Method ID(s): CA-TM-004

Method Reference	Modified From	Analytical Method	Preparation Method
SM 5220 D	Yes	Yes	No

Parameter

COD

053 - Particle Size Analysis (PSA)

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: HYDROMETER

Preparation Method:

Lab Method ID(s): CA-TM-005

Method Reference	Modified From	Analytical Method	Preparation Method
SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.3	No	Yes	No

Parameter

Percent Clay
Percent Sand
Percent Silt

054 - Chlorine

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: COLORIMETRIC

Preparation Method:

Lab Method ID(s): CA-TM-002-00

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500-CL- G	No	Yes	No

Parameter

Free Chlorine
Total Chlorine

055 - Hexavalent Chromium

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: COLORIMETRIC

Preparation Method: DIGESTION

Lab Method ID(s): CE-TM-043

Method Reference	Modified From	Analytical Method	Preparation Method
BC MOE LABORATORY MANUAL SECTION C	No	Yes	No
EPA 3060A	No	Yes	No
EPA 7196A	No	Yes	No

Parameter

Hexavalent Chromium

057 - Metals

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: ICP/OES

Preparation Method: SATURATED PASTE

Lab Method ID(s): CE-TM-051, CE-TM-052

Method Reference	Modified From	Analytical Method	Preparation Method
BC MOE LABORATORY MANUAL SECTION B	Yes	Yes	No
EPA 6010D	No	Yes	No
SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 15.2.1	No	Yes	No

Parameter

Boron

Calcium

Magnesium

Potassium

Sodium

058 - Metals

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: ICP/OES

Preparation Method: DIGESTION

Lab Method ID(s): CE-TM-050, CE-TM-052

Method Reference	Modified From	Analytical Method	Preparation Method
BC MOE LABORATORY MANUAL SECTION C	No	Yes	No
EPA 3050B	Yes	No	Yes
EPA 6010D	Yes	Yes	No

Parameter

Aluminum

Antimony

Arsenic

Barium

Beryllium

Bismuth

Boron

Cadmium

Calcium

Chromium

Cobalt

Copper

Iron

Lead

Lithium

Magnesium

Manganese

Mercury

Nickel

Phosphorus

Potassium

Selenium

Silver

Sodium

Strontium

Sulphur

Tellurium

Thallium

Thorium

Tin

Titanium

Tungsten

Uranium

Vanadium

Zinc

Zirconium

059 - pH

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: ELECTROMETRIC

Preparation Method:

Lab Method ID(s): CE-TM-044

Method Reference	Modified From	Analytical Method	Preparation Method
SM 4500 B	No	Yes	No
SM 4500 H+	No	Yes	No
SOIL SAMPLING & METHODS OF ANALYSIS, CARTER	No	No	Yes

Parameter

pH (1:2) soil:CaCl2

060 - Particle Size Analysis (PSA)

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: SEIVE

Preparation Method:

Lab Method ID(s): CE-TM-047

Method Reference	Modified From	Analytical Method	Preparation Method
SOIL SAMPLING & METHODS OF ANALYSIS, CARTER 55.4	No	Yes	No

Parameter

Particle Size

061 - Polyaromatic Hydrocarbons (PAH)

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: GC/MS

Preparation Method: EXTRACTION

Lab Method ID(s): CE-TM-049

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 3570	Yes	No	Yes
EPA 8270E	Yes	Yes	No

Parameter

1-Methylnaphthalene
2-Chloronaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(b,j)fluoranthene
Benzo(g,h,i)perylene
Benzo(j)fluoranthene
Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3 - cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Quinoline

062 - Petroleum Hydrocarbons (PHC)

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: GC/FID

Preparation Method: EXTRACTION

Lab Method ID(s): CE-TM-053

Method Reference	Modified From	Analytical Method	Preparation Method
CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD	No	Yes	No
EPA 8015C	No	Yes	No

Parameter

F2: C10-C16
F3: C16-C34
F4: C34-C50

064 - Volatile Hydrocarbons (VH)

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: GC/FID-PURGE AND TRAP

Preparation Method: 1:2 CACL2 EXTRACTION

Lab Method ID(s): CE-TM-045

Method Reference

CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD
BC MOE LABORATORY MANUAL SECTION D

Modified From	Analytical Method	Preparation Method
No	Yes	No
No	Yes	No

Parameter

F1: C6-C10
VH: C6-C10

065 - Volatile Organic Compounds (VOC)

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: GC/MS-PURGE AND TRAP

Preparation Method: EXTRACTION

Lab Method ID(s): CE-TM-048

Method Reference Modified From Analytical Method Preparation Method

EPA 5030C	No	No	Yes
EPA 8260D	No	Yes	No

Parameter

1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dibromoethane (Ethylene dibromide)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Butadiene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Butanone (Methyl ethyl ketone, MEK)
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
4-Chlorotoluene (p-Chlorotoluene)
4-Isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Acrylonitrile
Allyl chloride (3-chloropropene)
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Butylbenzene (n-Butylbenzene)
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Decane (n-Decane)
Dibromomethane
Dichlorofluoromethane (HCFC-21, Freon 21)
Dichloromethane
Ethyl acetate
Ethyl methacrylate (Ethyl-2-Methyl-2-Propenoate)

Parameter

Ethylbenzene
 Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)
 Hexachloroethane
 Hexane (n-Hexane)
 Isopropylbenzene (Cumene)
 m,p-Xylene
 Methacrylonitrile
 Methyl isobutyl ketone (MIBK)
 Methyl methacrylate
 Methyl tert-butyl ether (MTBE)
 Methylcyclohexane
 Naphthalene
 n-Propylbenzene
 o-Xylene
 sec-Butylbenzene ((1-Methylpropyl)benzene)
 Styrene
 tert-Butylbenzene
 Tetrachloroethylene
 Toluene
 trans-1,2-Dichloroethylene
 trans-1,3-Dichloropropene
 trans-1,4-Dichloro-2-butene
 Trichloroethylene
 Trichlorofluoromethane

066 - Metals

Field of Accreditation: Environmental**Matrix:** Water**Analytical Method:** ICP/OES**Preparation Method:****Lab Method ID(s):** CE-TM-052, CE-TM-054

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 6010D	Yes	Yes	No

Parameter

Aluminum
 Antimony
 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)
 Tellurium
 Thallium
 Thorium
 Tin
 Titanium
 Tungsten
 Uranium
 Vanadium
 Zinc
 Zirconium

067 - Volatile Organic Compounds (VOC)

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: GC/MS-PURGE AND TRAP

Preparation Method:

Lab Method ID(s): CE-TM-055

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 5030B	No	Yes	No
BC MOE LABORATORY MANUAL SECTION D	No	Yes	Yes
EPA 8260D	No	Yes	No

Parameter

1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethylene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropane
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dibromoethane (Ethylene dibromide)
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropane
1,3,5-Trimethylbenzene
1,3-Butadiene
1,3-Dichlorobenzene
1,3-Dichloropropane
1,4-Dichlorobenzene
2,2-Dichloropropane
2-Butanone (Methyl ethyl ketone, MEK)
2-Chlorotoluene
2-Hexanone (Methyl butyl ketone, MBK)
4-Chlorotoluene (p-Chlorotoluene)
4-Isopropyltoluene (p-Cymene)
Acetone (2-Propanone)
Acrylonitrile
Allyl chloride (3-chloropropene)
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform
Bromomethane
Butylbenzene (n-Butylbenzene)
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethane (Ethyl chloride)
Chloroethene (Vinyl chloride)
Chloroform
Chloromethane (Methyl chloride)
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Decane (n-Decane)
Dibromomethane
Dichlorodifluoromethane (CFC-12, Freon 12)
Dichloromethane
Ethyl acetate
Ethyl methacrylate (Ethyl-2-Methyl-2-Propenoate)
Ethylbenzene
Hexachlorobutadiene (1,1,2,3,4,4-Hexachloro-1,3-butadiene)
Hexachloroethane
Hexane (n-Hexane)
Isopropylbenzene (Cumene)
m,p-Xylene
Methacrylonitrile
Methyl isobutyl ketone (MIBK)
Methyl methacrylate
Methyl tert-butyl ether (MTBE)
Methylcyclohexane
Naphthalene

Parameter

n-Propylbenzene
o-Xylene
sec-Butylbenzene ((1-Methylpropyl)benzene)
Styrene
tert-Butylbenzene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Trichloroethylene
Trichlorofluoromethane

068 - Polyaromatic Hydrocarbons (PAH)

Field of Accreditation: Environmental**Matrix:** Water**Analytical Method:** GC/MS**Preparation Method:** EXTRACTION**Lab Method ID(s):** CE-TM-058

Method Reference	Modified From	Analytical Method	Preparation Method
EPA 3511	No	No	Yes
BC MOE LABORATORY MANUAL SECTION D	No	Yes	Yes
EPA 8270D	No	Yes	No

Parameter

1-Methylnaphthalene
2-Chloronaphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(b,j)fluoranthene
Benzo(g,h,i)perylene
Benzo(j)fluoranthene
Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3 - cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Quinoline

069 - Volatile Hydrocarbons (VH)

Field of Accreditation: Environmental**Matrix:** Water**Analytical Method:** GC/FID-PURGE AND TRAP**Preparation Method:****Lab Method ID(s):** CE-TM-056

Method Reference	Modified From	Analytical Method	Preparation Method
BC MOE LABORATORY MANUAL SECTION D	No	Yes	Yes
CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD	No	Yes	No

Parameter

F1: C6-C10
VH: C6-C10

070 - Petroleum Hydrocarbons (PHC)

Field of Accreditation: Environmental**Matrix:** Water**Analytical Method:** GC/FID**Preparation Method:** EXTRACTION**Lab Method ID(s):** CE-TM-057

Method Reference	Modified From	Analytical Method	Preparation Method
BC MOE LABORATORY MANUAL SECTION D	No	Yes	Yes
CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD	Yes	Yes	No
EPA 8015C	No	Yes	No

Parameter

F2: C10-C16

Parameter
F3: C16-C34
F4: C34-C50

071 - Extractable Petroleum Hydrocarbons (EPH)

Field of Accreditation: Environmental

Matrix: Water

Analytical Method: GC/FID

Preparation Method: EXTRACTION

Lab Method ID(s): CE-TM-057

Method Reference

BC MOE LABORATORY MANUAL SECTION D

CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

EPA 8015C

Modified From Analytical Method Preparation Method

No Yes Yes

Yes Yes No

No Yes No

Parameter

Extractable Petroleum Hydrocarbons (EPH): C10-C19

Extractable Petroleum Hydrocarbons (EPH): C10-C19 (sg)

Extractable Petroleum Hydrocarbons (EPH): C19-C32

Extractable Petroleum Hydrocarbons (EPH): C19-C32 (sg)

072 - Extractable Petroleum Hydrocarbons (EPH)

Field of Accreditation: Environmental

Matrix: Solids [Soil]

Analytical Method: GC/FID

Preparation Method: EXTRACTION

Lab Method ID(s): CE-TM-053

Method Reference

BC MOE LABORATORY MANUAL SECTION D

CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD

EPA 8015C

Modified From Analytical Method Preparation Method

No Yes Yes

Yes Yes No

No Yes No

Parameter

Extractable Petroleum Hydrocarbons (EPH): C10-C19

Extractable Petroleum Hydrocarbons (EPH): C10-C19 (sg)

Extractable Petroleum Hydrocarbons (EPH): C19-C32

Extractable Petroleum Hydrocarbons (EPH): C19-C32 (sg)

† "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).

The list of tests and measurement capabilities for which a laboratory is accredited can change at any time due to circumstances such as scope extensions, voluntary withdrawal of tests by the laboratory and suspension. Scopes are published by the CALA via the Internet at http://www.cala.ca/cala_directories.html