



CALA

Canadian Association for
Laboratory Accreditation Inc.

CALA Directory of Laboratories

Membership Number: 3751
Laboratory Name: Testmark Laboratories Ltd.
Parent Institution: Testmark Laboratories Ltd.
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Standard: Conforms with requirements of ISO/IEC 17025
Clients Served:
Revised On: September 12, 2019
Valid To: May 20, 2021

Scope of Accreditation

Oil (Inorganic)

Acid Number - Oil (078)
O100.6; modified from ASTM D974-14E2
TITRIMETRIC
Acid Number

Oil (Inorganic)

Colour - Oil (079)
O100.9; modified from ASTM D1500-12
COLOR - COMPARATOR
Colour

Oil (Inorganic)

Corrosive Sulfur - Oil (089)
O100.13; modified from ASTM D1275
VISUAL EXAMINATION
Corrosive Sulfur

Oil (Inorganic)

Dielectric Breakdown - Oil [Transformer] (082)
O100.4; ASTM D1816
DIELECTRIC TESTER
Dielectric Strength

Oil (Inorganic)

Dielectric Breakdown - Oil [Transformer] (083)
O100.3; ASTM D877-02
DIELECTRIC TESTER
Dielectric Strength

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Oil (Inorganic)

Interfacial Tension - Oil (090)

O100.5; modified from ASTM D971

TENSIOMETER

Interfacial Tension

Oil (Inorganic)

Metals - Oil (086)

O100.14; modified from ASTM D7151

ICP/OES

Aluminum

Arsenic

Barium

Beryllium

Boron

Cadmium

Calcium

Chromium

Copper

Iron

Lead

Magnesium

Manganese

Molybdenum

Nickel

Silicon

Silver

Sodium

Tin

Tungsten

Vanadium

Zinc

Oil (Inorganic)

Moisture - Oil (080)

O100.02; ASTM D1533-12

COULOMETRIC KARL FISHER TITRATION

Water

Oil (Inorganic)

Power Factor - Oil [Transformer] (088)

O100.7; ASTM D924

POWER DISSIPATION BRIDGE

Power Dissipation

Oil (Inorganic)

Relative Density - Oil (077)

O100.10; modified from ASTM D1298-12B

HYDROMETER

Relative Density

Oil (Inorganic)

Viscosity (40 degrees) - Oil (091)

O100.11; modified from ASTM D445

KINEMATIC VISCOMETER

Kinematic Viscosity

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Oil (Organic)

Dissolved Gases - Oil (081)

O100.1; modified from ASTM 3612

GC/FID

Acetylene

Carbon dioxide (CO₂)

Carbon monoxide (CO)

Ethane

Ethylene

Hydrogen

Methane

Nitrogen

Oxygen

Propane

Oil (Organic)

Furanic Compounds - Oil [Transformer] (084)

O100.8; modified from ASTM D5837

HPLC/UV - EXTRACTION

2-Acetylfuran

2-Furaldehyde

5-Hydroxymethoxyfurfural

5-Methylfurfural

furfuryl alcohol

Oil (Organic)

Inhibitors - Oil (085)

O100.16; ASTM D2668

FTIR

2,6-Di-tert-butyl-4methylphenol

Oil (Organic)

Polychlorinated Biphenyls (PCB) - Oil (023)

T19; modified from EPA 8082A

GC/ECD

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB

Solids (Inorganic)

Anions - Solids (003)

A5; modified from EPA 1311 (PREPARATION) and EPA 9056A (ANALYSIS)

IC - EXTRACTION

Fluoride

Nitrate

Nitrite

Solids (Inorganic)

Anions - Solids [Soil] (004)

A5; modified from EPA 9056A

ION CHROMATOGRAPHY

Bromide

Chloride

Fluoride

Nitrate-N

Nitrite

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Sulphate

Solids (Inorganic)

Cyanide - Solids (013)

T43; modified from SM 4500 CN- E
COLORIMETRIC - DISTILLATION

Free Cyanide
Total Cyanide

Solids (Inorganic)

Cyanide - Solids (053)

T43; modified from EPA 1311 (PREPARATION) and SM 4500-CN- E (ANALYSIS)
COLORIMETRIC - EXTRACTION

Cyanide (WAD)

Solids (Inorganic)

Hexavalent Chromium - Solids (016)

A83; EPA 3060A and SM 3500-CR B
COLORIMETRIC

Hexavalent Chromium

Solids (Inorganic)

Hot Water Extractable Boron - Solids [Soil] (051)

A13, A52; GUPTA, 1967, SOIL SCIENCE 103: 424-428
ICP/MS - EXTRACTION

Hot Water Extractable Boron

Solids (Inorganic)

Metals - Solids (019)

A13, A79; modified from EPA 1311 (PREPARATION) and EPA 6020B (ANALYSIS)
ICP/MS - EXTRACTION

Antimony
Arsenic
Barium
Beryllium
Boron
Cadmium
Chromium
Cobalt
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Uranium
Zinc

Solids (Inorganic)

Metals - Solids [Soil] (020)

A13, A52; modified from BC MOE LABORATORY MANUAL, SALM (PREPARATION) and EPA 6020B (ANALYSIS)

ICP/MS - DIGESTION

Aluminum
Antimony
Arsenic
Barium
Beryllium

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Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lanthanum
Lead
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Selenium
Silver
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Solids (Inorganic)

Redox Potential (ORP) - Solids [Soil] (047)
T06; modified from SM 2580
ION ELECTRODE - EXTRACTION
Redox Potential

Solids (Organic)

BTEX - Solids [Soil] (066)
A127; modified from EPA 524.3 and EPA 624
GC/MS - STATIC HEADSPACE
Benzene
Ethylbenzene
m,p-Xylene
o-Xylene
Toluene

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (028)
A59; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD, PUBLICATION #1310
GC/FID - EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (029)
A59; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD, PUBLICATION #1310
GRAVIMETRIC
F4: Gravimetric

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Solids (Organic)

Petroleum Hydrocarbons (PHC) - Solids [Soil] (067)

A127; CCME CWS PETROLEUM HYDROCARBONS IN SOIL - TIER 1 METHOD, PUBLICATION #1310

GC/FID - STATIC HEADSPACE

F1: C6-C10

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids (024)

T19; modified from EPA 8082A

GC/ECD - EXTRACTION

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids (039)

A14; modified from EPA 1311 (PREPARATION) and EPA 524.3 (ANALYSIS)

GC/MS - PURGE AND TRAP/EXTRACTION

1,1-Dichloroethylene

1,2-Dichlorobenzene

1,2-Dichloroethane

1,4-Dichlorobenzene

Benzene

Carbon tetrachloride

Chlorobenzene

Chloroethene (Vinyl chloride)

Chloroform

Dichloromethane

Methyl ethyl ketone

Methyl isobutyl ketone (MIBK)

Tetrachloroethylene

Trichloroethylene

Solids (Organic)

Volatile Organic Compounds (VOC) - Solids [Soil] (040)

A14; modified from EPA 8260B

GC/MS - PURGE AND TRAP

1,1-Dichloroethane

1,1-dichloroethylene

1,1,1-Trichloroethane

1,1,1,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,2,4-Trichlorobenzene

1,3-Dichlorobenzene

1,4-dichlorobenzene

Acetone (2-Propanone)

Benzene

Bromodichloromethane

Bromoform

Bromomethane

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Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroethene (Vinyl chloride)
Chloroform
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m,p-Xylene
Methyl Ethyl Ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
n-Hexane
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

Solids(Organic)

Polychlorinated Biphenyls (PCB) - Solids (043)
T19; modified from EPA 1311 (PREPARATION) and EPA 8082A (ANALYSIS)
GC/ECD - EXTRACTION
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB

Water (Inorganic)

Acidity - Water (001)
A24.0; modified from SM 2310 B
TITRIMETRIC
Acidity

Water (Inorganic)

Alkalinity - Water (062)
A1.0; modified from SM 2320 B
TITRIMETRIC (AUTOMATED)
Alkalinity (pH 4.5)

Water (Inorganic)

Alkalinity - Water (070)
A1.1; modified from EPA 310.2
COLORIMETRIC
Alkalinity (pH 4.5)

Water (Inorganic)

Ammonia - Water (071)
A42; modified from EPA 350.1
COLORIMETRIC
Ammonia

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| | |
|---|---------|
| Water (Inorganic) Anions - Water (005) A5; modified from EPA 9056A ION CHROMATOGRAPHY Bromide Chloride Fluoride Nitrate Nitrite Sulfate | OSDWA † |
| Water (Inorganic) Biochemical Oxygen Demand (BOD) - Water (006) A3; modified from SM 5210 B D.O. METER BOD (5 day) CBOD (5 day) Dissolved Oxygen (DO) | |
| Water (Inorganic) Carbon - Water (007) A55; modified from SM 5310 C IR/UV-DIGESTION Organic Carbon | OSDWA † |
| Water (Inorganic) Chemical Oxygen Demand (COD) - Water (008) T04; modified from SM 5220 C TITRIMETRIC COD | |
| Water (Inorganic) Colour - Water (010) A26; modified from SM 2120 C COLORIMETRIC True Colour | OSDWA † |
| Water (Inorganic) Conductivity - Water (054) A12; modified from SM 2510 B CONDUCTIVITY METER (AUTOMATED) Conductivity (25°C) | OSDWA † |
| Water (Inorganic) Cyanide - Water (014) T43; modified from SM 4500-CN- E COLORIMETRIC - DISTILLATION Cyanide (SAD) Cyanide (WAD) Free Cyanide Total Cyanide | |
| Water (Inorganic) Dissolved and Total Metals - Water (015) A13; modified from EPA 6020B ICP/MS Aluminum Antimony Arsenic | OSDWA † |

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Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Water (Inorganic)

Hexavalent Chromium - Water (017)
A83; modified from SM 3500-CR B
COLORIMETRIC
Hexavalent Chromium

OSDWA †

Water (Inorganic)

Nitrate plus Nitrite and Nitrite - Water (073)
A126; modified from EPA 353.1 and EPA 354.1
COLORIMETRIC
Nitrate plus Nitrite
Nitrite

Water (Inorganic)

Oil and Grease - Water (087)
A54; modified from EPA 1664
GRAVIMETRIC
Total Oil and Grease

Water (Inorganic)

pH - Water (056)
A2.0; modified from SM 4500-H+ B
pH METER (AUTOMATED)
pH

OSDWA †

Water (Inorganic)

Phenols - Water (030)
T38; modified from SM 5530
COLOR - DISTILLATION
Total Phenolics

OSDWA †

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| | |
|--|---------|
| Water (Inorganic) Phosphate - Water (076) A23; modified from EPA 365.3 and ESS 310.2 COLORIMETRIC - DIGESTION Phosphate Total Phosphorus | OSDWA † |
| Water (Inorganic) Reactive Silica - Water (033) A7; modified from EPA 366.0 COLORIMETRIC (AUTOMATED) Reactive Silica | OSDWA † |
| Water (Inorganic) Redox Potential (ORP) - Water (048) T06; modified from SM 2580 ION ELECTRODE Redox Potential | |
| Water (Inorganic) Solids - Water (034) A27; modified from SM 2540 C and SM 2540 D and SM 2540 G GRAVIMETRIC Total Dissolved Solids Total Solids (TS) Total Solids (TS) (calculation) Total Suspended Solids Volatile Suspended Solids | OSDWA † |
| Water (Inorganic) Sulphate - Water (074) A5.4; modified from EPA 375.4 TURBIDIMETRIC Sulfate | |
| Water (Inorganic) Total Kjeldahl Nitrogen (TKN) - Water (075) A58; EPA 351.2 and SM 4500-NORG D COLORIMETRIC - DIGESTION Total Kjeldahl Nitrogen | |
| Water (Inorganic) Total Metals - Water (049) A13, A52; modified from EPA 6020B ICP/MS - DIGESTION Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Cadmium Calcium Chromium Cobalt Copper Iron | OSDWA † |

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Lead
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Tin
Titanium
Uranium
Vanadium
Zinc

Water (Inorganic) OSDWA †
Turbidity - Water (038)
A21; modified from SM 2130 B
NEPHELOMETRY
Turbidity

Water (Inorganic) OSDWA †
UV Absorbance - Water (092)
A125; SM 5910 B
COLORIMETRIC
UV Absorbance
UV Transmittance

Water (Microbiology) OSDWA †
Coliforms - Water (009)
A10; modified from ON MOECC E3407
MEMBRANE FILTRATION (DC-AGAR)
Background Counts
Escherichia coli
Total Coliforms

Water (Microbiology)
Fecal (Thermotolerant) Coliforms - Water (072)
A10; modified from SM 9222 D
MEMBRANE FILTRATION (mFC) WITH ROSALIC ACID
Fecal (Thermotolerant) Coliforms

Water (Microbiology) OSDWA †
Heterotrophic Plate Count (HPC) - Water (018)
A68; modified from SM 9215 C
SPREAD PLATE
Heterotrophic Plate Count (HPC)

Water (Microbiology) OSDWA †
Microcystins - Water (093)
A88; ABRAXIS (ADDA)-DM ELISA INSTRUCTIONS
ELISA
Microcystins

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Water (Organic)

BTEX - Water (058)

A127; modified from ON MOECC E3421

GC/MS - STATIC HEADSPACE

Benzene

Ethylbenzene

m,p-Xylene

o-Xylene

Toluene

OSDWA †

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (045)

A59; modified from ON MOECC E3421

GC/FID - EXTRACTION

F2: C10-C16

F3: C16-C34

F4: C34-C50

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (046)

A59; modified from ON MOECC E3421

GRAVIMETRIC

F4: Gravimetric

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (059)

A127; modified from ON MOECC E3421

GC/FID - STATIC HEADSPACE

F1: C6-C10

OSDWA †

Water (Organic)

Polychlorinated Biphenyls (PCB) - Water (025)

T19; modified from EPA 8082A

GC/ECD - EXTRACTION

Aroclor 1242

Aroclor 1248

Aroclor 1254

Aroclor 1260

Total PCB

OSDWA †

Water (Organic)

Volatile Organic Compounds (VOC) - Water (041)

A14; modified from EPA 524.3

GC/MS - PURGE AND TRAP

1,1-Dichloroethane

1,1-dichloroethylene

1,1,1-Trichloroethane

1,1,1,2-Tetrachloroethane

1,1,2-Trichloroethane

1,1,2,2-Tetrachloroethane

1,2-dichlorobenzene

1,2-dichloroethane

1,2-Dichloropropane

1,2,4-Trichlorobenzene

1,3-Dichlorobenzene

1,4-dichlorobenzene

Acetone (2-Propanone)

Benzene

OSDWA †

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Bromodichloromethane
Bromoform
Bromomethane
Carbon tetrachloride
Chlorobenzene
Chlorodibromomethane
Chloroform
cis-1,2-Dichloroethylene
cis-1,3-Dichloropropene
Dichlorodifluoromethane
Dichloromethane
Ethylbenzene
Ethylene Dibromide
m,p-Xylene
Methyl Ethyl Ketone
Methyl isobutyl ketone (MIBK)
Methyl t-butyl ether
n-Hexane
o-Xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane
Vinyl chloride

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