



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: December 18, 2018
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
Color

Oil (Inorganic)

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

Oil (Inorganic)

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

Oil (Inorganic)

Dielectric Breakdown - Transformer Oil (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

TENSIO METER

Interfacial Tension

Oil (Inorganic)

Metals - Oil (086)

O100.14; modified from ASTM D7151

ICP/OES

Aluminum

Copper

Iron

Oil (Inorganic)

Moisture - Oil (080)

O100.02; ASTM D1533-12

COULOMETRIC KARL FISHER TITRATION

Water

Oil (Inorganic)

Power Factor - Transformer Oil (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

Oil (Organic)

Dissolved Gases - Oil (081)

O100.1; modified from ASTM 3612

GC/FID

Acetylene

Carbon dioxide

Carbon monoxide

Ethane

Ethylene

Hydrogen

Methane

Nitrogen

Oxygen

Propane

Oil (Organic)

Inhibitors - Oil (085)

O100.16; ASTM D2668

FTIR

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

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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

Sulphate

Solids (Inorganic)

Cyanide - Solids (013)

T43; modified from SM 4500 CN- E

COLORIMETRIC - DISTILLATION

Cyanide, Total

Free 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

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

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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

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

Chloroform

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Dichloromethane
Methyl ethyl ketone
Methyl isobutyl ketone (MIBK)
Tetrachloroethylene
Trichloroethylene
Vinyl chloride

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
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
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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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

Water (Inorganic)

Anions - Water (005)
A5; modified from EPA 9056A
ION CHROMATOGRAPHY
Bromide
Chloride
Fluoride
Nitrate
Nitrite
Sulfate

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

Water (Inorganic)

Carbon - Water (007)
A55; modified from SM 5310 C
IR/UV-DIGESTION
Organic Carbon

OSDWA †

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Water (Inorganic)

Chemical Oxygen Demand (COD) - Water (008)
T04; modified from SM 5220 C
TITRIMETRIC
COD

OSDWA †

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)

Water (Inorganic)

Cyanide - Water (014)
T43; modified from SM 4500-CN- E
COLORIMETRIC - DISTILLATION
Cyanide (SAD)
Cyanide, Total
Cyanide (WAD)
Free Cyanide

OSDWA †

Water (Inorganic)

Dissolved and Total Metals - Water (015)
A13; modified from EPA 6020B
ICP/MS
Aluminum
Antimony
Arsenic
Barium
Beryllium
Bismuth
Boron
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Mercury
Molybdenum
Nickel
Potassium
Selenium
Silver
Sodium
Strontium
Thallium
Tin

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Titanium
Uranium
Vanadium
Zinc

Water (Inorganic)

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

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 †

Water (Inorganic)

Phosphate - Water (076)
A23; modified from EPA 365.3 and ESS 310.2
COLORIMETRIC - DIGESTION
Phosphate
Total Phosphorus

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

OSDWA †

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Total Solids (Calculation)
Total Suspended Solids
Volatile Suspended Solids

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

OSDWA †

Aluminum
Antimony
Arsenic
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)

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

OSDWA †

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Water (Inorganic)

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

Water (Microbiology)

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

OSDWA †

Water (Microbiology)

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

Water (Microbiology)

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

OSDWA †

Water (Organic)

BTEX - Water (058)
A127; modified from ON MOECC E3421
GC/MS - STATIC HEADSPACE
Benzene
Ethylbenzene
m/p-xylene
o-xylene
Toluene

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
F4G: Gravimetric

Water (Organic)

Petroleum Hydrocarbons (PHC) - Water (059)
A127; modified from ON MOECC E3421
GC/FID - STATIC HEADSPACE
F1: C6-C10

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Water (Organic)

OSDWA †

Polychlorinated Biphenyls (PCB) - Water (025)

T19; modified from EPA 8082A
GC/ECD - EXTRACTIONAroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB**Water (Organic)**

OSDWA †

Volatile Organic Compounds (VOC) - Water (041)

A14; modified from EPA 524.3
GC/MS - PURGE AND TRAP1,1-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
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
Methyl t-butyl ether
n-Hexane
o-xylene
Styrene
Tetrachloroethylene
Toluene
trans-1,2-Dichloroethylene
trans-1,3-Dichloropropene
Trichloroethylene
Trichlorofluoromethane

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