



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: March 9, 2017
Valid To: May 15, 2019

Scope of Accreditation

Oil (Inorganic)

Acid Number - Oil (078)
O100.12; ASTM D974-14e2
TITRIMETRIC
Acid Number

Oil (Inorganic)

Colour - Oil (079)
O100.12; ASTM D1500-12
COLOR - COMPARATOR
Color

Oil (Inorganic)

Moisture - Oil (080)
O100.02; ASTM D1533-12
COULOMETRIC KARL FISHER TITRATION
Water

Oil (Inorganic)

Relative Density - Oil (077)
O100.12; ASTM D1298-12B
HYDROMETER
Relative Density

Oil (Organic)

Polychlorinated Biphenyls (PCB) - Oil (023)
T19; modified from EPA SW-846 8082A
GC/ECD
Aroclor 1242
Aroclor 1248

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Aroclor 1254
Aroclor 1260
Total PCB

Solids (Inorganic)

Anions - Leachate (003)
A5; EPA 1311 (LEACH) and modified from EPA SW-846 9056A (ANALYSIS)
IC - EXTRACTION
Fluoride
Nitrate
Nitrite

Solids (Inorganic)

Anions - Soil (004)
A5; modified from PA SW-846 9056 A
ION CHROMATOGRAPHY
Bromide
Chloride
Fluoride
Nitrate
Nitrite
Phosphate
Sulphate

Solids (Inorganic)

Conductivity - Soil (011)
T12; modified from SM 2510 B
CONDUCTIVITY METER (MANUAL)
Conductivity

Solids (Inorganic)

Cyanide - Leachate (053)
T43; EPA 1311 (LEACH) and modified from SM 4500-CN- (ANALYSIS)
COLORIMETRIC - EXTRACTION
Cyanide (WAD)

Solids (Inorganic)

Cyanide - Solids (013)
T43; modified from SM 4500-CN- O
COLORIMETRIC - DISTILLATION
Cyanide (Total)
Free Cyanide

Solids (Inorganic)

Hexavalent Chromium - Solids (016)
A83; EPA SW-846 3060A and SM 3500-CR B
COLORIMETRIC
Hexavalent chromium

Solids (Inorganic)

Hot Water Extractable Boron - Soil (051)
A13, A52; GUPTA, 1967, SOIL SCIENCE 103: 424-428
ICP/MS - EXTRACTION
Hot Water Extractable Boron

Solids (Inorganic)

Metals - Leachate (019)
A13; EPA 1311 (LEACH) and modified from EPA SW-846 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 - Soil (020)

A13, A52; modified from BC SALM and EPA SW-846 6020B

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

Solids (Inorganic)

pH - Solids (026)

T02; modified from O.REG. 153/04 and EPA SW-846 9045D

pH METER

pH

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Solids (Inorganic)

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

Solids (Organic)

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

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (028)
A59; CCME PHC TIER 1 METHOD, PUBLICATION #1310
GC/FID - EXTRACTION
F2: C10-C16
F3: C16-C34
F4: C34-C50

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (029)
A59; CCME PHC TIER 1 METHOD, PUBLICATION #1310
GRAVIMETRIC
F4: Gravimetric

Solids (Organic)

Petroleum Hydrocarbons (PHC) - Soil (067)
A127; CCME PHC TIER 1 METHOD, PUBLICATION #1310
GC/FID - STATIC HEADSPACE
F1: C6-C10

Solids (Organic)

Polychlorinated Biphenyls (PCB) - Solids (024)
T19; modified from EPA SW-846 8082A
GC/ECD - EXTRACTION
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
Total PCB

Solids (Organic)

Volatile Organic Compounds (VOC) - Leachate (039)
A14; EPA 1311 (LEACH) and modified from 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) - Soil (040)

A14; modified from EPA SW-846 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) - Leachate (043)
T19; EPA 1311 (LEACH) and modified from SW-846 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 SW-846 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

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

Water (Inorganic)

Colour - Water (010)
 A26; modified from SM 2120 C
 COLORIMETRIC
 True Colour

OSDWA †

Water (Inorganic)

Conductivity - Water (012)
 T12; modified from SM 2510 B
 CONDUCTIVITY METER (MANUAL)
 Conductivity (25°C)

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-
 COLORIMETRIC - DISTILLATION
 Cyanide (SAD)
 Cyanide (Total)
 Cyanide (WAD)
 Free Cyanide

OSDWA †

Water (Inorganic)

Dissolved and Total Metals - Water (015)
 A13; modified from EPA SW-846 6020B
 ICP/MS
 Aluminum
 Antimony
 Arsenic
 Barium
 Beryllium
 Bismuth
 Boron
 Cadmium
 Calcium
 Chromium
 Cobalt
 Copper
 Iron
 Lead
 Magnesium
 Manganese
 Mercury
 Molybdenum
 Nickel
 Potassium
 Selenium

OSDWA †

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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

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)

pH - Water (027)
T02; modified from SM 4500-H+ B
pH METER (MANUAL)
pH

OSDWA †

Water (Inorganic)

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

Water (Inorganic)

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

OSDWA †

Water (Inorganic)

Phosphate - Water (076)
A23; modified from ESS 310.2 and EPA 365.3
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

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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 (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 SW-846 6020B

ICP/MS - DIGESTION

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

OSDWA †

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Water (Inorganic) Turbidity - Water (038) A21; modified from SM 2130 B NEPHELOMETRY Turbidity	OSDWA †
Water (Microbiology) Coliforms - Water (009) A10; modified from MOE 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 MOE E3421 GC/MS - STATIC HEADSPACE Benzene Ethylbenzene m/p-xylene o-xylene Toluene	
Water (Organic) Petroleum Hydrocarbons (PHC) - Water (045) A59; MOE E3421 GC/FID - EXTRACTION F2: C10-C16 F3: C16-C34 F4: C34-C50	
Water (Organic) Petroleum Hydrocarbons (PHC) - Water (046) A59; MOE E3421 GRAVIMETRIC F4G: Gravimetric	
Water (Organic) Petroleum Hydrocarbons (PHC) - Water (059) A127; modified from MOE E3421 GC/FID - STATIC HEADSPACE F1: C6-C10	

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Water (Organic)

OSDWA †

Polychlorinated Biphenyls (PCB) - Water (025)

T19; modified from EPA SW-846 8082A

GC/ECD - EXTRACTION

Aroclor 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 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

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