TESTING AND CALIBRATION LABORATORY ACCREDITATION PROGRAM (LAP)

Scope of Accreditation

Legal Name of Accredited Laboratory:	**PEI ANALYTICAL LABORATORIES (Government of Prince Edward Island)**
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SCC File Number:	15460
Accreditation Standard(s):	ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories
Fields of Testing:	Biological Chemical/Physical
Program Specialty Area:	Agriculture Inputs, Food, Animal Health and Plant Protection (AFAP) Environmental Testing (ET)
Initial Accreditation:	2002-01-15
Most Recent Accreditation:	2024-05-27
Accreditation Valid to:	2026-01-15

Remarque: La présente portée d'accréditation existe également en français, sous la forme d'un document distinct.
Note: This scope of accreditation is also available in French as a document issued separately.

ANIMAL AND PLANTS (AGRICULTURE)

Canada

Foods and Edible Products (Human and Animal Consumption):

Dairy Products

DML_01M	PetrifilmTM Aerobic Plate Count (PAC) in Raw and Processed Milk (SMEDP 6.040)
DML_02M	PetrifilmTM Coliform/*E.coli* Plate Count (PCC/HSCC,PEC) Method in Raw and Processed Milk (SMEDP 7.070, 7.072)
DML_08M	*Staphylococcus aureus* Count in Dairy Products Using Petrifilm (HPB-MFLP-21 July 2004)

Feeds

SFL_02M	Crude Protein (Nitrogen) in Animal Feed: Combustion Method (Modified AOAC 990.03)
SFL_03M	Mineral (Dry Ash) in Animal Feeds by ICP-OES (Modified AOAC 968.08) Boron Calcium Copper Iron Magnesium Manganese Phosphorus Potassium Salt (calculated from sodium) Sodium Zinc
SFL_04M	Total Ash in Forages and Mixed Rations (AOAC 942.05)
SFL_05M	Total Moisture in Forages and Mixed Rations Using Loss by Drying and in Whole Grains Using Moisture Meter (Modified AOAC 930.15. Plant, Soil and Water Reference Methods for the Western Region 1994. NFTA Method 2.1.4) Modified NFTA Method 2.1.2. Modified Forage Fiber Analyses. Goering, Van Soest. 1970. Moisture Meter Model 919 Operating Instructions, Labtronics, 1996.)
SFL_28M	Crude Fat in Animal Feeds by ANKOM XT15 (Extraction Method) (Modified ANKOM Technology Method 2, 01-30-09)

Unprocessed Milk:

Chemical Tests

DCL_01M	Fat, Protein, Lactose, Freezing Point, MUN BHB and Fatty Acid in Raw Milk using Milkoscan 7RM Infrared Analysis (IDF 141, FOSS 6007 Manual)
DCL_02M	Somatic Cell Count in Raw Milk Using Fossomatic (FOSS 6007 1937,Modified SMEDP 11.032)
DCL_03M	Added Water in Raw Milk Using FOSS Electric Milkoscan FT 7RM/Cryoscope 4C3/Cryotouch 20 (FOSS Manual 6007 4040, Modified SMEDP 15.032)
DML_04M	Antibiotics in Raw Milk Using Charm Tests for Beta Lactams, Cloxicillin, Sulfa and Tetracycline Drugs (Modified SMEDP 12.046 and Charm Sciences Inc.)

Microbiological Tests

DML_05M	Lab Pasteurization Count in Raw Milk Using PetrifilmTM Aerobic Plate Count Method (PAC) (SMEDP 8.030)
DML_06M	Preliminary Incubation Count in Raw Milk Using PetrifilmTM Aerobic Plate Count Method (PAC) (SMEDP 15th Ed.6.3)
DML_07M	Enumeration of Bacteria in Raw Milk Using Bactoscan FC (Bactoscan FC Type 73711 Operators Manual, Foss Electric)
DML_01M	See Dairy Products above
DML_02M	See Dairy Products above

ENVIRONMENTAL AND OCCUPATIONAL HEALTH AND SAFETY

Environmental:

Ash, Sludge and Soil/Sediment

SFL_22M	Water pH and SMP Buffer pH in Soil by pH Meter (Modified Laboratory Manual of Methods, Standards and Equipment, Section 2.0, 3.0.1996)
SFL_23M	Organic Matter in Soil by Combustion LECO Method Report: Plants and Soils 10cc Loop, 4/16/2019, CN 828 S/N:20014

SFL_24M	Nutrients in Soil by ICP-OES Using Mehlich 3 Extraction (Modified Laboratory Manual of Methods, Standards and Equipment, Section 5.0, 1996, Nutrients in Soil by Inductively Coupled Argon Plasma) Aluminum Boron Calcium Copper Iron Magnesium Manganese Phosphorus (P2O5) Potassium (K2O) Sodium Sulfur Zinc

Water (Inorganic)

WCL_01M	Alkalinity, Chloride and Nitrate-N + Nitrite-N (NO3-N +NO2-N) in Water by Flow Injection Analysis Colorimetry (Modified Lachat QuikChem: Alkalinity;10-303-31-1-A, Chloride; 10-117-07-1-A, Nitrate /Nitrite (NO3-/NO2-);10-107-04-1-J)
WCL_02M	Ammonia-N in Water by Flow Injection Analysis Colorimetry (Modified Lachat QuikChem 31-107-06-1-B.)
WCL_03M	Nitrate-N/Nitrite-N (Low Level) in Water by Flow Injection Analysis Colorimetry (Modified Lachat QuikChem 31-107-04-1-C)
WCL_04M	pH in Water by pH Meter (Modified EPA 150.0)
WCL_05M	Total Nitrogen in Water by In-Line Digestion Followed by Flow Injection Analysis Colorimetry (Modified Lachat QuikChem 31-107-04-3-B)

WCL_07M	Metals and Trace Elements in Water by ICP-OES (Modified EPA 200.15, SMEWW 2340B) Dissolved Aluminum Dissolved Antimony Dissolved Arsenic Dissolved Barium Dissolved Beryllium Dissolved Boron Dissolved Cadmium Dissolved Calcium Dissolved Chromium Dissolved Cobalt Dissolved Copper Dissolved Iron Dissolved Lead Dissolved Magnesium Dissolved Manganese Dissolved Molybdenum Dissolved Nickel Dissolved Phosphorus Dissolved Potassium Dissolved Selenium Dissolved Silver Dissolved Sodium Dissolved Strontium Dissolved Sulfate (calculated from Sulfur) Dissolved Thallium Dissolved Tin Dissolved Titanium Dissolved Vanadium Dissolved Zinc Hardness (as CaCO3)
WCL_08M	Total Phosphorus in Water by Flow Injection Analysis Colorimetry (Modified Lachat QuikChem 10-115-01-41-F)

WCL_09M	Metals and Trace Elements in Water by Inductively Coupled Plasma Mass Spectrometry (Modified EPA 200.8) Dissolved Aluminium Dissolved Antimony Dissolved Arsenic Dissolved Barium Dissolved Beryllium Dissolved Boron Dissolved Cadmium Dissolved Chromium Dissolved Cobalt Dissolved Copper Dissolved Iron Dissolved Lead Dissolved Manganese Dissolved Molybdenum Dissolved Nickel Dissolved Selenium Dissolved Silver Dissolved Strontium Dissolved Thallium Dissolved Tin Dissolved Titanium Dissolved Uranium Dissolved Vanadium Dissolved Zinc
WML_04M	Total Suspended Solids in Water by Filtration, Dried at 103-105ºC (Modified SMEWW 2540D)
WML_05M	Chlorophyll a in Water by Fluorometry (Modified SMEWW 10200H)
WML_06M	Chemical Oxygen Demand (COD) in Water by HACH DR 2000s Spectrophotometry (Modified HACH Method 8000)
WML_07M	Biochemical Oxygen Demand/Carbonaceous Biochemical Oxygen Demand (BOD/CBOD) - 5 Day in Water by D.O. Meter (Modified SMEWW 5210B)

Water (Microbiology)

WML_01M	Total Coliforms, *E.coli* in Water by Membrane Filtration Technique Using DC Agar (Modified OME E3407)
WML_02M	Heterotrophic Plate Count in Water by Spread Plate Count (Modified SMEWW 9215C)
WML_03M	*Pseudomonas aeruginosa* in Water by Membrane Filtration Technique (Modified SMEWW 9213E)
WML_09M	Faecal Coliforms in Water by MPN (A-1 Medium) (Modified SMEWW 9221E (2))
WML_11M	Heterotrophic Plate Count in Water by Membrane Filtration Method (Modified SMEWW 9215D)

Number of Scope Listings: 37

Notes:

ISO/IEC 17025: General Requirements for the Competence of Testing and Calibration Laboratories
AOAC: Association of Official Analytical Chemists
* **DML,** * **DCL,** * **SFL,** * **WCL,** * **WML:** In-house laboratory methods
EPA: Environmental Protection Agency, USA
OME: Ontario Ministry of Environment
SMEDP: Standard Methods for the Examination of Dairy Products, published by the American Public Health Association

SMEWW: Standard Methods for the Examination of Water and Wastewater, published jointly by the American Public Health Association (APHA), American Water Works Association (AWWA), and the Water Environment Federation (WEF)

* These test methods can be performed on-site as per RG-Lab.

This document forms part of the Certificate of Accreditation issued by the Standards Council of Canada (SCC). The original version is available in the Directory of Accredited Laboratories on the SCC website at www.scc.ca.

Elias Rafoul
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