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SCOPE OF ACCREDITATION

**RCMP Forensic Science & Identification Services
NATIONAL FORENSIC LABORATORY SERVICES - EDMONTON
15707-118 Ave.
Edmonton, AB
T5V 1B7**

Accredited Laboratory No. 337
(Conforms with requirements of ISO/IEC 17025:2017, RG-FORENSIC)

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CLIENTS SERVED:	Police officers, both RCMP and Municipal, in Alberta and other Provinces / Territories, as well as members of other Government Enforcement Agencies and the Courts.
FORENSICS DISCIPLINE(S):	Forensic Biology / DNA, Forensic Chemistry / Trace Evidence, Forensic Toxicology
PROGRAM SPECIALTY AREA:	Forensic
INITIAL ACCREDITATION:	2000-06-08
MOST RECENT ACCREDITATION:	2019-07-10
ACCREDITATION VALID TO:	2022-02-26

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SCC GROUP ACCREDITATION

This laboratory is a party to a SCC Group Accreditation with the following facilities in accordance with the SCC Accreditation Program Overview document section on Group Accreditation:



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- RCMP Forensic Science & Identification Services - NATIONAL FORENSIC LABORATORY SERVICES - VANCOUVER, Accredited Laboratory No. 395;
- RCMP Forensic Science & Identification Services - NATIONAL FORENSIC LABORATORY SERVICES - OTTAWA, Accredited Laboratory No. 435;
- RCMP Forensic Science & Identification Services - NATIONAL DNA DATA BANK, Accredited Laboratory No. 531;

FORENSICS

Forensic Biology / DNA

Description of Activities:

- Examination of evidentiary material for the presence of biological material, possible biological material and non-biological material;
- Nuclear STR DNA and Y-STR analysis of biological material recovered from evidentiary material, which included the extraction, purification and quantification of human and male DNA, the amplification of DNA and the resolution of DNA typing profiles using capillary electrophoreses;
- Interpretation of DNA typing results to establish associations between individuals and crime scene samples, as well as paternity/parentage and other relatedness relationships.

Techniques for which laboratory is accredited:

- a. Body fluid examination and identification using biochemical and/or microscopic procedures
- b. DNA extraction, purification, quantification, Polymerase Chain Reaction (PCR) amplification using autosomal STR and Y-STR Amplification Kits, and capillary electrophoresis
- c. Interpretation of DNA typing profiles
- d. Hair identification and determination of suitability for nuclear STR DNA typing
- e. Macroscopic and microscopic examination

Forensic Chemistry / Trace Evidence

Description of Activities:

- Examination and analysis of trace evidence (generally non-biological) material in questioned samples and comparison to known samples in order to:
 - identify the questioned material and/or
 - determine the likelihood of common origin with the known sample.
- Recognition, detection and identification of trace evidence (generally non-biological) such that the information can be used to aid in the investigation or reconstruction of events at a crime or accident scene.



Techniques for which laboratory is accredited:

- a. Sample preparation, extraction and/or separation and general chemical and physical tests
- b. Optical microscopy (microspectrophotometry, polarized light microscopy stereomicroscopy, and comparison light microscopy) and scanning electron microscopy with energy dispersive X-ray spectroscopy
- c. Gas chromatography and Pyrolysis gas chromatography coupled with mass spectrometry
- d. X-ray diffraction
- e. Fourier transformed infrared, Raman, and visible spectroscopy

Forensic Toxicology

Description of Activities:

The Toxicology Section carries out the following examinations/analyses:

- Body fluid and tissue screen and quantification for volatile substances including ethanol and Carbon Monoxide
- Body fluid and tissue screen and quantification for drugs and poisons
- Analysis of drugs, poisons and other toxic materials in or on clothing, food pharmaceuticals and miscellaneous exhibits
- Verifies the ethanol concentration of alcohol standard used in breath testing

Techniques for which laboratory is accredited:

- a. Immunoassay
- b. Macroscopic examination
- c. Sample preparation, extraction and general chemical and physical tests
- d. Ultra/High-performance liquid chromatography coupled with tandem mass spectrometry detection
- e. Gas chromatography coupled with nitrogen & phosphorus detection
- f. Gas chromatography coupled with flame ionization detection
- g. Gas chromatography coupled with mass spectrometry detection
- h. Ultra/High-performance liquid chromatography coupled with quadrupole time-of-flight mass spectrometry detection
- i. Ultra/High performance liquid chromatography coupled with diode array detection
- j. Ultraviolet/visible spectrophotometry



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Notes:

(ISO/IEC 17025:2017): General Requirements for the Competence of Testing and Calibration Laboratories

RG-Forensics: SCC Requirements and Guidance for the Accreditation for Forensic Testing Laboratories.

Elias Rafoul, Vice President
Accreditation Services

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Number of Forensic Techniques: 20
SCC 1003-15/405