



SCOPE OF ACCREDITATION

Fish and Wildlife Forensic Branch (Government of Alberta)
7th Floor OS Longman Building 6909-116 Street
Edmonton, AB
T6H 4P2

Accredited Laboratory No. 900
(Conforms with requirements of ISO/IEC 17025:2005 and CAN-P-1578)

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CLIENTS SERVED:	Primarily the Alberta Fish and Wildlife Enforcement Branch. Others may be served on an <i>ad hoc</i> and <i>pro bono</i> basis.
FIELDS OF TESTING:	Forensic
PROGRAM SPECIALTY AREA:	Forensic
INITIAL ACCREDITATION DATE:	2019-08-13
MOST RECENT ACCREDITATION:	2019-08-03
ACCREDITATION VALID TO:	2023-08-13

FORENSICS

Forensic Biology / DNA

Description of Activities:

Forensic DNA analysis of fish and wildlife samples. This includes: exhibit collection, exhibit handling, sample collection, DNA extraction, PCR amplification of short tandem repeats STRs, capillary electrophoresis, analysis of results from STR analysis, and interpretation of STR results and reporting.

Techniques for which the laboratory is accredited:

1. STR-WTD Short Tandem Repeat Analysis for White-tailed Deer
2. STR-MLD Short Tandem Repeat Analysis for Mule Deer
3. STR-MOS Short Tandem Repeat Analysis for Moose
4. STR-ELK Short Tandem Repeat Analysis for Elk
5. STR-BHS Short Tandem Repeat Analysis for Bighorn Sheep
6. STR-GZB Short Tandem Repeat Analysis for Grizzly Bear



7. STR-BLB Short Tandem Repeat Analysis for Black Bear
8. STR-CGR Short Tandem Repeat Analysis for Cougar
9. STR-WAL Short Tandem Repeat Analysis for Walleye

All test methods share the following SOPs:

- Manual for collection and submission of evidence for forensic analysis
- Search Warrant Evidence Collection
- Receipt, Transfer, Disposition of Evidence and Notification of Results
- Exhibit Searching and Sampling
- DNA Extraction Using the KingFisherML
- DNA Quantification and Dilution
- QIAcube DNeasy Protocol for Extraction of DNA
- Qiagen DNeasy Manual Protocol for Extraction of DNA
- DNA Amplification using ABI TAQ Gold or Qiagen Multiplex PCR Kit
- Operation of 310 Genetic Analyzer for Fragment Analysis
- Interpretation Manual for Fragment Analysis
- Using GeneMarker Software to Analyze Microsatellite Data
- Use of Excel Calculators for Random Match Probabilities, Species Identification, Population Assignment, and Kinship
- Species Database Creation and Analysis
- Quality Control Testing and Records
- Report Writing for Fragment Analysis
- Elements of Complete Case Files
- Conducting Second Reviews for Fragment Analysis

The following documents are specific to the specified test methods:

- PCR Mastermix Form-Bear
- PCR Mastermix Form- Bighorn Sheep
- PCR Mastermix Form- Cougar
- PCR Mastermix Form-Deer
- PCR Mastermix Form- Elk
- PCR Mastermix Form- Moose
- PCR Mastermix Form- Walleye
- Bighorn Sheep RMP Calculator
- Black Bear RMP Calculator
- Grizzly Bear RMP Calculator
- Bear SPID Likelihood Ratio Calculator
- Mule Deer RMP Calculator
- White-tailed Deer RMP Calculator
- Deer SPID Likelihood Ratio Calculator
- Moose RMP Calculator
- Elk RMP Calculator
- Cougar RMP Calculator
- Walleye Population Assignment Calculator
- Bear Kinship Calculator



- Locus Info Sheet Bighorn Sheep
- Locus Info Sheet Black Bear
- Locus Info Sheet Cougar
- Locus Info Sheet Elk
- Locus Info Sheet Grizzly Bear
- Locus Info Sheet Mule Deer
- Locus Info Sheet Moose
- Locus Info Sheet Walleye
- Locus Info Sheet White-tailed Deer

Notes:

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

CAN-P-1578: Guidelines for the Accreditation of Forensic Testing Laboratories

Elias Rafoul, Vice President
Accreditation Services

Publication Date: 2020-06-02

Number of Forensic Techniques: 9
SCC 1003-15/1093