**Name: Debra Gillis Date of Last Update: 12/6/2023**

**Job Title: Forensic Scientist**

**Indicate all disciplines in which you currently perform testing or calibration work:**

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|  | **Seized Drugs** |  |  | **Blood Alcohol (Toxicology – Testing)** |
|  | **Biology** |  |  | **Firearms/Toolmarks** |
|  | **Latent Prints (Friction Ridge)** |  |  | **Crime Scene** |
|  | **Breath Alcohol (Toxicology - Calibration)** |  |  | **Impressions (Footwear)** |

**For each discipline checked in the table above, list all categories in which you perform work:**

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| Firearm Identification, Toolmark Identification, Muzzle-to-Target Distance Determination, Physical Matching, Serial Number Restoration, and Body Fluid Identification. |

**Education:** List all higher academic institutions attended (list high school only if no college degree has been attained)**.**

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| Institution | Dates Attended | Major | Degree Completed |
| University of AK-Anchorage | 08-81 to 05-86 | Chemistry | BS Chemistry w/Biochem Option |
| University of AK-Anchorage | 08-81 to 05-86 | Biology | BS Biological Sciences |

**Continuing Education:**  List formal coursework, conferences, workshops, in-service and other training received applicable to past and current forensic related positions.

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| Course Title | Source of Training | Date(s) of Training |
| USEPA Drinking Water Certification Officer Training | USEPA Laboratory in Cincinnati, OH – 5 days | 1999 |
| Photography, Digital Photography, and Video of Crime Scenes and Physical Evidence | AK State Crime Laboratory – Jim Wolfe – 8hrs | 2001 |
| Managing Property and Evidence in Law Enforcement Agencies | International Association for Property and Evidence, Inc, APD Training Center, Anch, AK – 15 hours | 2001 |
| Crime Scene Diagramming | AK State Crime Laboratory – 4 hrs | 2001 |
| Sexual Assault Evidence | AK State Crime Laboratory, Kristin Denning – 8 hrs | 2001 |
| Trace Evidence Collection | AK State Crime Laboratory, Kristin Denning – 4 hrs | 2002 |
| In-house Sexual Assault training | AK State Crime Laboratory, Biological Screening Personnel - 6 months | 2002 |
| Bloodstain Pattern Analysis Workshop | Utah Bureau of Forensic Sciences at AK State Crime Laboratory - 5 days | 2002 |
| DNA Evidence | AK State Crime Laboratory, Kristin Denning – 4 hrs | 2002 |
| Forensic Digital Imaging, Imaging Forensics | Imaging Forensics by George Reis at AK State Crime Laboratory - 3 days | 2003 |
| In-house Blood Screening training | AK State Crime Laboratory, Biological Screening Personnel - 4 months | 2003 |
| Arson Evidence | Donald Cuthbert of State of Alaska Fire Marshal at AK State Crime Laboratory - 4 hrs | 2003 |
| “A Seminar on How to be an Effective Witness in the Courtroom” | Valerie Van Brocklin, Law Enforcement Trainer at AK State Crime Laboratory – 8 hrs | 2003 |
| National Firearm Examiner's Academy, Phase I | Bureau of Alcohol, Tobacco, Firearms, and Explosives in Laurel, MD – 4 months | 2003 |
| National Firearm Examiner's Academy, Phase II | Bureau of Alcohol, Tobacco, Firearms, and Explosives in Laurel, MD – 15 weeks | 2003 |
| National Firearm Examiner's Academy, Phase III | Bureau of Alcohol, Tobacco, Firearms, and Explosives in Laurel, MD – 4 months | 2003 |
| National Firearm Examiner's Academy, Phase IV | Bureau of Alcohol, Tobacco, Firearms, and Explosives in Laurel, MD – 2 weeks | 2004 |
| Trace Evidence Collection | AK State Crime Laboratory, Kristin Denning – 4 hrs | 2002 |
| NIBIN Image Acquisition Training | Forensic Technologies in Largo, FL – 5 days | 2005 |
| Armorer’s courses | Kahr Arms, Hi-Point, Glock, Ruger, Remington | 2005, 2006, 2009 |
| AFTE Annual Training Seminars | Association of Firearm and Tool Mark Examiners | 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2019, 2022, 2023 |
| Forensic Video Examinations on the dTect System | Dorothy Stout (Ocean Systems) in Laurel, MD – 32 hrs | 2006 |
| Silencer Design | AFTE Annual Training Workshops | 2007 |
| Advanced Bloodstain Pattern Analysis | Bevel, Gardner and Assoc by Tom Bevel at AK State Crime Laboratory – 5 days | 2008 |
| Barrel Manufacturing | AFTE Annual Training Workshops | 2008 |
| Discharged Cartridge Case Marks | AFTE Annual Training Workshops | 2008 |
| Expert Witness Testimony Techniques | Ron Smith & Associates, Inc in Anch, AK - 2days | 2008 |
| Gunpowder and Gunshot Residue School | FBI by John Webb in Spokane, WA – 4 days | 2008 |
| Testifying as an Expert | AFTE Annual Training Workshops | 2010 |
| Contemporary Issues in Firearm Identification | AFTE Annual Training Workshops | 2010 |
| Hair Comparison training | On-line West Virginia University course and In-house training at AK State Crime Laboratory, Biological Screening Personnel - ~100 hrs | 2011 |
| Advanced Armorer’s Course Colt AR-15, M-16, M-4 rifles and carbines | Specialized Armament by Ken Elmore at APD Training Center – 8 hrs | 2011 |
| Magna Flux Serial Number Restoration | AFTE Annual Training Workshops | 2011 |
| Techniques in Double Casting | AFTE Annual Training Workshops | 2014 |
| Bloodstain Pattern Analysis I | Bevel, Gardner and Assoc by Ross Gardner and Tom Griffin, at AK State Crime Laboratory – 5 days | 2014 |
| Science in the Courtroom | Val Van Brocklin, AK State Crime Lab – 2 days | 2017 |
| ANAB Accreditation Preparation for Firearm Examiners | AFTE Annual Training Workshops | 2019 |
| ANAB Assessor Class | ANAB On-Line Web Training Workshop | 2021 |

**Testimony:** Complete the information below for testimony provided.

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| Discipline or Category of Testimony | Period of Time in Which Testimony Occurred | Approximate Number of Times Testified |
| Body Fluid Identification | 2003 - present | 39 |
| Firearm/Toolmark Identification | 2005 - present | 55 |

**Professional Affiliations:** List professional organizations of which you are or have been a member. Indicate any offices or other positions held and the date(s) of these activities.

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| Organization | Period of Membership | Offices or Positions Held/Dates |
| American Chemical Society | 1985-1990 | NA |
| Association of Firearm and Toolmark Examiners | 2005-2008 | Provisional Member |
| Association of Firearm and Toolmark Examiners | 2005-present | Regular and Lifetime Member |

**Employment History:** List all scientific or technical positions held, particularly those related to forensic science. **List current position first.**

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| **Job Title** | Forensic Scientist III | **Tenure** | Crim I (04-02 to 06-03), Crim II (06-03 to 06-05) Crim III (06-05 to present) |
| **Employer** | State of Alaska Scientific Crime Detection Laboratory | | |
| Provide a brief description of principal duties: | | | |
| Firearm Identification, Toolmark Identification, Muzzle-to-Target Distance Determination, Physical Matching, Serial Number Restoration, and Biological Fluid Screening.  Technical Lead of Firearm/Toolmark section since November 2016. | | | |

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| **Job Title** | Laboratory Technician | **Tenure** | July 2001 to April 2002 |
| **Employer** | State of Alaska Scientific Crime Detection Laboratory | | |
| Provide a brief description of principal duties: | | | |
| Evidence Custodian | | | |

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| **Job Title** | Chemist III | **Tenure** | January 1999 to June 2001 |
| **Employer** | State of Alaska Chemistry Laboratory | | |
| Provide a brief description of principal duties: | | | |
| Drinking Water (DW) Certification Officer.  Audited all in-state certified DW labs.  Monitored certified DW labs personnel, equipment, methods, MDLs, proficiency tests (PT), and Quality Assurance Manuals (QAM).  Ensured the continued certification of the SCL with the USEPA by scheduling PT samples, reviewing MDLs, and updating SOPs and the QAM.  Provided technical assistance to general public, labs, and agencies about the State of Alaska Drinking Water Program. | | | |

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| **Job Title** | Scientist IV | **Tenure** | November 1993 to December 1998 |
| **Employer** | Columbia Analytical Services | | |
| Provide a brief description of principal duties: | | | |
| Supervise the inorganic department; including metals, wet chemistry, microbiology, and TCLPs.  Responsible for workload distribution and tracking, reporting, reviewing data, training, quality control charting, SOPs, personnel reviews, sample dumping, and data analysis.  Primary operator of the Graphite Furnace and Mercury by Cold Vapor. | | | |

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| **Job Title** | Chemist | **Tenure** | June 1986 to April 1990; August 1991 to December 1992; April 1993 to November 1993 |
| **Employer** | Commercial Testing and Engineering | | |
| Provide a brief description of principal duties: | | | |
| Intermediate supervisor of the inorganic department; including metals, wet chemistry, microbiology, oil/grease, and TCLPs.  Perform distillations, digestions, colorimetric reactions, and run instrumentation (ICP, Graphite Furnace, and Flame AA). | | | |

**Other Qualifications:** List below all personal certifications identifying the issuing organization and the dates; all scientific publications and/or presentations you have authored or co-authored, research in which you are or have been involved, academic or other teaching positions you have held, and any other information which you consider relevant to your qualifications.

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| Taught Distance Determination module at the National Firearm Examiner’s Academy in Maryland in 2021, 2022, and 2023.  Assist when needed, as a secondary, on crime scenes (2001 to ~2008).  Assisted Robert Shem with workshops in A Simplified Protocol for the Examination of Materials that Possess Gunshot Discharge Products, at three AFTE Seminars (2005 - 40 students, 2006 - 20 students, and 2009 - 40 students)  Assisted instructing in the following classes offered by the State Crime Detection Laboratory: Trace Evidence Collection (4 hr class); Sexual Assault Evidence (8 hr class); and Vehicle Processing (8 hr class). (~2004-2005)  Laboratory Instructor for Chemistry 055 at the University of AK, Anchorage for fall semester of 1992 |