## Asa Louis

WASHINGTON STATE PATROL TOXICOLOGY LABORATORY
2203 AIRPORT WAY SOUTH
SEATTLE WA 98134
(206) 262 6100
asa.louis@wsp.wa.gov

#### **WORK HISTORY**

**Washington State Patrol,** Seattle WA Forensic Scientist - Toxicology Jan 2003 - May 2005, May 2006 - present

Accession, extract and analyse forensic samples for presence of licit and illicit substances Report findings, testify in courts of law pertaining to findings, and as an Expert Witness Prepare, certify solutions used in the Breath Test Program and testify in courts of law pertaining to such Maintain instrumentation, develop and/or refine analytical methodologies Conduct "drinking labs" to investigate effects of alcohol on human performance Participate in "In Field Observation / Ride-along" program with police agencies

Mayo Clinic, Rochester MN Development Technologist May 2005 - May 2006

Update and improve existing methods, implement validated new technology Organize validation data, prepare data for peer review, presentation and/or publication Investigate, install and evaluate laboratory equipment Train laboratory staff in principles of new/modified methods

### Provincial Toxicology Centre, Port Coquitlam BC

Forensic Analyst Sep 1991 - Apr 1992, Jul 1996 - Dec 2002

Prepare, quantitatively and qualitatively analyse samples for abusive and non-abusive substances Report forensic and clinical results

Testify in court of law pertaining to findings

Maintain instrumentation, develop and/or refine analytical methodologies

Accession forensic and clinical samples

**ASL Laboratories**, Vancouver BC Section Co-ordinator, Purchaser May 1992 - Jun 1996

Co-ordinate daily activities of 3-4 staff members in the Extractable Hydrocarbons Group Prepare and quantify samples for organic compound content Accession samples for testing, sublet samples to support laboratories Purchase, receive and distribute material from suppliers Member of Emergency Spill Response Team

2017 Oct 18 1

## **ASA LOUIS**

#### **ACADEMIC HISTORY**

Post Baccalaureate Diploma Program - Environmental Toxicology

Simon Fraser University. Graduated: Apr 1992

**Bachelor of Science - Biochemistry** 

University of British Columbia. Graduated: Apr 1988

#### PROFESSIONAL AFFILIATIONS/ CERTIFICATIONS

Forensic Toxicology Specialist Certification (D-ABFT-FT) - 2010
International Association For Chemical Testing (IACT) - Member 2010
The American Academy of Forensic Sciences (AAFS) - Member 2010
The International Association of Forensic Toxicologists (TIAFT) - Member 2009
Society of Forensic Toxicologists (SOFT) - Member 2009
California Association of Toxicologists (CAT) - Associate Member 2009
Canadian Society of Forensic Science (CSFS) - General Member 2009

#### **PUBLICATIONS**

Louis A, Peterson BL, Couper FJ. XLR-11 and UR-144 in Washington State and State of Alaska Driving cases. J Anal Toxicol. 2014 Oct;38(3): 563-568

Louis A, Logan BK, Couper FJ. Contribution of Fruit Consumption to Ethanol Breath Measurement. Poster presentation - Society of Forensic Toxicologists Meeting, Phoenix AZ, Oct 2008

Louis A, Gordon AM, Logan BK, Indahl J, Fusaro, A. Death and Brain Injury from an Apparent Intentional Methomyl Poisoning. Platform presentation - ICADTS/TIAFT Meeting, Seattle WA, Aug 2007

Langman LJ, Kaliciak HK, Louis A. Death Attributed to Intravenous Oxycodone. Poster presentation - 55th Annual AAFS Meeting, Chicago II, Feb 2003

#### **PRESENTATIONS**

2017	DEA – Drug Effects on Human Performance. Seattle
2017	Pierce County Department of Assigned Council – THC General Overview. Tacoma
2017	WA TSRP – Toxicology and Marijuana Case Overview. Yakima
2016	WA Department of Licensing – Toxicology Laboratory Test Results. Tacoma
2016	WA Association of Prosecuting Attorneys – Uncertainty Levels and Mixed Alcohol and Marijuana
	DUI. Leavenworth
2015	Pierce County Department of Assigned Council - Defending DUI's: Blood Testing and the Effects
	of Alcohol and Drugs, DRE. Tacoma
2015	WA Association of Prosecuting Attorneys – Mixed Ethanol and THC DUI's. Leavenworth
2015	Pierce County Prosecuting Attorney – Toxicology Laboratory Overview . Tacoma
2013	WA State Association of Municipal Attorneys – Prosecuting a Drugged Driver. Walla Walla
2013	Seattle Police Department DRE school – Toxicology Laboratory Overview. Seattle

2017 Oct 18 2

# **ASA LOUIS**

#### RELATED SKILLS

Mass Selective Liquid Chromatography
High Turbulence Liquid Chromatography
Mass Selective Gas Chromatography
Gas Chromatography
High Pressure Liquid Chromatography
Radio-Immuno Assay Techniques
Colloidal Immuno Assay Techniques
Ultraviolet Spectrophotometry
Thin Layer Chromatography
Supercritical Fluid Extraction
Solid Phase Extraction Chromatography

#### **TRAINING**

2017	Calif. Assoc. Toxicologists – The Future Looks Green
2017	Advances in Forensic Analyses: When to Use GC-MS/MS, LC-MS/MS and HRMS
2017	SOFT/ACCENT – Assessment and Comparison of Vitreous Humor as an Alternative Matrix for
	Forensic Toxicology
2016	SOFT/ACCENT - Analysis of Parent Synthetic Cannabinoids in Blood and Urinary Metabolites by
	Liquid Chromatography Tandem Mass Spectrometry
2016	SOFT/ACCENT – Retrospective Analysis Synthetic Cannabinoid Metabolites in Urine of
	Individuals Suspected of Driving Impaired
2016	SOFT/ACCENT – Thermal Degradation of Synthetic Cathinones
2015	Calif. Assoc. Toxicologists – Z-Drugs Workshop
2015	UND School of Medicine - Death Investigation Advanced Topics
2015	UND School of Medicine - Death Investigation Cultural Competency
2015	UND School of Medicine - Death Investigation Basics
2015	UND School of Medicine - Death Investigation Mental Health First Aid
2014	AAFS - Designer Drug Detection in Forensic Toxicology: From Basic to Brilliant
2014	AAFS - Novel Psychoactive Substances: Pharmacology, Toxicology and Case Reports
2014	AAFS - Driving Under the Influence of Drugs
2014	LCGC Chromacadamy - Optimizing LC-MS Ionization Conditions pt 1
2013	RTI International - Fundamentals of Mass Spectrometry in Toxicology
2013	RTI International - Fundamentals of Chromatography used in Toxicology
2013	RTI International - Pills and Particles: Toxicology and Linking Trace Evidence
2013	The Evidence Conference - What Makes a Credible Witness
2013	West Virginia University - Perspectives in Expert Testimony
2012	U. of New Mexico - Sudden Death - Cause of Death Scenarios that Mimic One Another
2012	West Virginia University - Ethics in Forensic Sciences
2012	RTI International - Z Drugs on Demand
2012	RTI International - Fundamentals of Immunoassay Testing Used in Toxicology
2012	RTI International - Drug Facts: A DFSE Perspective
2011	Calif. Assoc. Toxicologists - Forensic Alcohol
2011	Midwest Forensic Research Center - Symposium on the Toxicology of DUID
2011	Washington State Patrol - Horizontal Gaze Nystagmus (Dr. K Citek)
2011	Siemens Webinar Series - Spice
2010	Washington State Patrol - Spice (J Messick, Anchorage Prosecutors Office)

2017 Oct 18 3

# Asa Louis

2008	Seattle Police Dept Advanced Roadside Impaired Driving Enforcement
2008	Soc. For. Toxicologists - The "Stimulating" Realm of Sympathomimetic Amines and Tryptamines
2008	Soc. For. Toxicologists - Applications of LC-MS in Human and Veterinary Toxicology
2008	Washington Traffic Safety Commission - DRE In-service Training
2007	Indiana University - The Effects of Drugs on Human Performance and Behaviour
2006	Mayo Clinic - Analyst Advanced Training (J Withers, Applied BioSystems)
2006	Mayo Clinic - Oral Fluids: Research and Applications (Dr. M Wagner, NH State Police)
2005	Mayo Clinic - Development Quality School
2004	Seattle Police Dept DUI Detection and Standardized Field Sobriety Testing (NHTSA)
2004	Northwest Assoc. For. Sci Marijuana: A Forensic Symposium
2004	Northwest Assoc. For. Sci Forensic Applications of LCMS
2004	Northwest Assoc. For. Sci GC/MSD maintenance
2003	Indiana University - Robert F Borkenstein course on Alcohol and Highway Safety
2003	Soc. For. Toxicologists - Principles of Sample Preparation
2003	Soc. For. Toxicologists - Practical Applications of LCMS in Routine Forensic Toxicology
2003	Washington State Patrol - Standard Field Sobriety Test Training (Refresher)
2003	Canadian Soc. For. Sci The A-Z of Marijuana
2003	Canadian Soc. For. Sci Rave On! Chemical Drugs and the Rave Culture
2003	Washington State Patrol - Blood Alcohol Analyst
2002	Pittsburgh Conference - Intermediate LC/MS Techniques
2002	Can. Comm. Epidemiology Network/ADIC - Methamphetamine Environmental Scan Summit
2000	UBC - Radionuclide Safety and Methodology
1997	Riverview Hospital - Transportation of Dangerous Goods - Biological
1995	ASL Labs - Transportation of Dangerous Goods - Chemical
1993	Hewlett-Packard - 5890 Troubleshooting and Maintenance
1992	ASL Labs - WHMIS
1992	Hewlett-Packard - HP Columns
1992	Greiner Rethell & Company - Expert Witness

2017 Oct 18