

**Crime Laboratory Equipment Replacement**

**FY2021 Request: \$290,000**  
**Reference No: 45325**

**AP/AL:** Appropriation  
**Category:** Public Protection  
**Location:** Anchorage Areawide

**Project Type:** Renewal and Replacement  
**House District:** Anchorage Areawide (HD 12-28)

**Impact House District:** Anchorage Areawide (HD 12-28)

**Contact:** Kelly Howell

**Estimated Project Dates:** 07/01/2020 - 06/30/2025 **Contact Phone:** (907)269-5591

**Brief Summary and Statement of Need:**

The Alaska Scientific Crime Detection Laboratory (ASCDL) is the state’s only full-service, multi-disciplinary forensic service provider. The ASCDL serves all state and local law enforcement as well as regionally based federal and military law enforcement personnel. The mission of the ASCDL is to provide forensic testing services to Alaska communities in a timely manner, provide expert court testimony on lab results of tested evidence, and train law enforcement in proper evidence collection and preservation techniques. This project replaces essential outdated equipment necessary to meet the current and forecasted demands of forensic services in Alaska.

<b>Funding:</b>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>FY2026</u>	<u>Total</u>
1004 Gen Fund	\$290,000						\$290,000
<b>Total:</b>	\$290,000	\$0	\$0	\$0	\$0	\$0	\$290,000

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> Ongoing
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

**Operating & Maintenance Costs:**

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
<b>Totals:</b>	<b>0</b>	<b>0</b>

**Prior Funding History / Additional Information:**

Sec7 Ch43 SLA2010 P32 L28 SB230 \$86,000  
 Sec1 Ch15 SLA2009 P18 L28 SB75 \$50,000  
 Sec10 Ch29 SLA2008 P74 L18 SB221 \$100,000

Replace outdated essential laboratory equipment necessary to meet the current and forecasted demands of forensic services in Alaska.

**Project Description/Justification:**

The Alaska Scientific Crime Detection Laboratory (ASCDL) is the state’s only full-service, multi-disciplinary forensic service provider. The ASCDL serves all state and local law enforcement as well as regionally based federal and military law enforcement personnel.

The mission of the ASCDL is to provide forensic testing services to Alaska communities in a timely manner, provide expert court testimony on lab results of tested evidence, and train law enforcement in proper evidence collection and preservation techniques.

**Gas Chromatograph (GC) / Mass Spectrometer (MS)**

The ASCDL chemistry section provides seized drug and forensic alcohol analysis and requires the replacement of the following essential laboratory instrument:

The GC/MS machine is a combination of both the process of GC and MS to identify the elements of a compound. This machine combines the Gas Chromatography and Mass Spectrometry processes to identify the chemical composition of a compound. This machine is the original equipment purchased with the opening of the Crime Lab and is now aging out requiring replacement.

**Vacuum Metal Deposition Mid-Level (VDM) Chamber**

The ASCDL physical section provides latent fingerprint processing and analysis and is often asked by law enforcement to attempt to develop fingerprints on fired cartridge casings. This is nearly always unsuccessful using current development methods.

The VMD560C would enhance the capabilities of latent print processing in the laboratory and can be used on a variety of substrates that are normally considered difficult or not conducive to latent print recovery, including fired ammunition, fabrics, and leather items which could provide probative value in the case. Fired ammunition may be the most probative and problematic substrate for latent print recovery – VMD is the only validated, commercially available product to enhance the potential for recovering latent prints from this surface. VMD has also been successful when processing items that have been submerged in water or buried underground increasing the number latent prints found in these unusual cases. The VDM Chamber equipment will allow the SCDL to obtain crucial evidence and enhance laboratory services.

**Fiscal impact: \$290.0 GF**

- Gas Chromatograph/Mass Spectrometer: \$120.0 UGF
- Vacuum Metal Deposition Mid-Level Chamber: \$170.0 UGF