







Central (Richmond)

Northern (Manassas)

Eastern (Norfolk)

Western (Roanoke)

DEPARTMENT OF FORENSIC SCIENCE UPDATE

Linda C. Jackson, Director Presented to the Forensic Science Board April 10, 2023



Groundbreaking



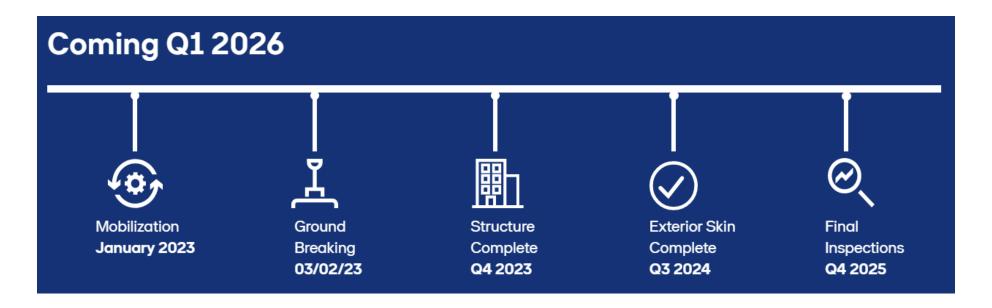




Central Laboratory Capital Project

Building updates available online

https://dfs.virginia.gov/regional-labs/new-central-laboratory-facility/



Training for Attorneys and Judges

- Sessions scheduled in-person at all 4 laboratories in 2023
 - Controlled Substances –
 Half-day, May 2023
 - DNA Full-day
 - No registration fee or CLE credits

https://dfs.virginia.gov/training/attorneys_judges/







Customer Working Group

- Planning Customer Working Group (CWG) meeting after General Assembly
 - Seek feedback from customers on evidence submission policies and services provided
 - Meeting scheduled for May 8, 2023
 - Latent Prints report wording
 - DNA allele tables



CERTIFICATE OF ACCREDITATION

The ANSI National Accreditation Board

Hereby attests that

Virginia Department of Forensic Science **Crime Laboratory System**

Fulfills the requirements of

ISO/IEC 17025:2017

ANAB Forensic Testing & Calibration AR 3125:2019

FBI Quality Assurance Standards for Forensic DNA Testing Laboratories: 2020 FBI Quality Assurance Standards for DNA Databasing Laboratories: 2020

In the field of

Forensic Testing & Calibration

This certificate is valid only when accompanied by a current scope of accreditation document. The current scopes of accreditation can be verified at www.anab.org.

Expiry Date: 30 September 2026 Certificate Numbers:

FT-0052 FT-0053

FT-0054

FC-0004









- Internal Audits conducted Feb. 21 March 23
- Surveillance Conformance Checklist submitted March 31
- Surveillance Document Review May 2023

- Certificates and Scopes are available on the DFS website: https://www.dfs.virginia.gov/aboutdfs/accreditation/accreditation-documentation/
- Current cycle expires September 30, 2026

Forensic Training

- 108th FSA Session graduated March 31, 2023
- First full session for the two newly hired Forensic Trainer Seniors

- Laboratory Capabilities and Updates April 18
- 109th FSA Session begins April 24





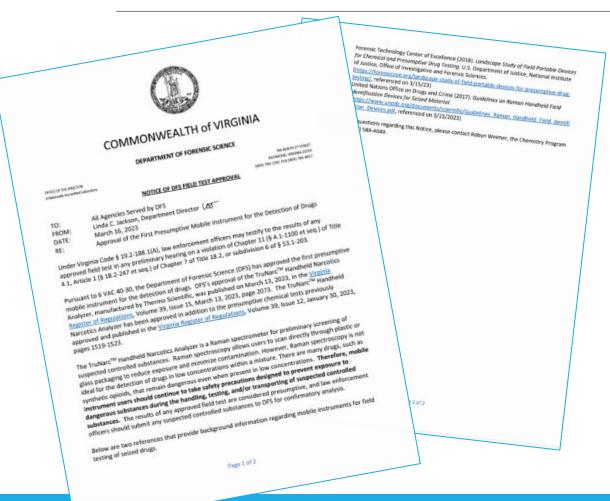
Field Test Regulation Update

6 VAC 40-30 Regulations for the Approval of Field Tests for Detection of Drugs

- Reevaluated previously approved presumptive chemical field tests, if requested by manufacturer, and new requests.
- Published updated list on January 30th in Virginia Register of Regulations, Vol 39 (Issue 12), pages 1519 – 1523.
- During that re-evaluation process, DFS received the first presumptive mobile instrument evaluation request.

First Approved Presumptive Mobile Instrument for Detection of Drugs





- Published on March 13th, in Virginia Register of Regulations Vol 39 (Issue 15), page 2073.
- Customer Notice issued along with safety concerns and references for additional information.



Staff Training

- Stress & Vicarious Trauma Training MindGen LLC
 - February May 2023, four virtual 45-minute sessions
- Supervisor Civility Training Karen Michael, PLC, Employment Law, Training & Consulting
- Updated training goals for 2023
 - Forensic Scientist/Toxicologist series 16 hours per year
 - Administration & Finance, HR, FLS V-VII 8 hours per year
 - General Administrative, FLS II/III 4 hours per year
 - E2917 Practice for Forensic Science Practitioner Training, Continuing Education, and Professional Development Programs



Post-Conviction Project

- Case files identified for review as part of project to be returned to State Records Center
- To be returned to investigating agency:
 - Evidence identified in case files
 - Dried sample extracts
- Podcast





Toxicology Updates

Outsourcing

- Will be evaluating OCME for outsourcing cases to private laboratory, currently Eastern and Western Districts
- Outsourcing is not utilized for implied consent DUI/DUID cases

DUI/DUID Testing Policy - January 1, 2023

- All DUI/DUID samples are now screened for a tetrahydrocannabinol metabolite and alcohol
- Additional drug screening is performed on samples with a BAC < 0.100%
- Updated THC method in validation process for confirmation and quantitation



Toxicology Staffing

Toxicologists

Lab	Qualified	In Training	In Recruit
Central	3	1	0
Eastern	2	1	0
Northern	2	1	1
Western	3	0	1

Forensic Scientists

Lab	Qualified	In Training	In Recruit
Central	9	1	0
Eastern	4	2	0
Northern	5	1	0
Western	4	1	2*

*Filled, starting 6/25/23

March OCME Completion Statistics

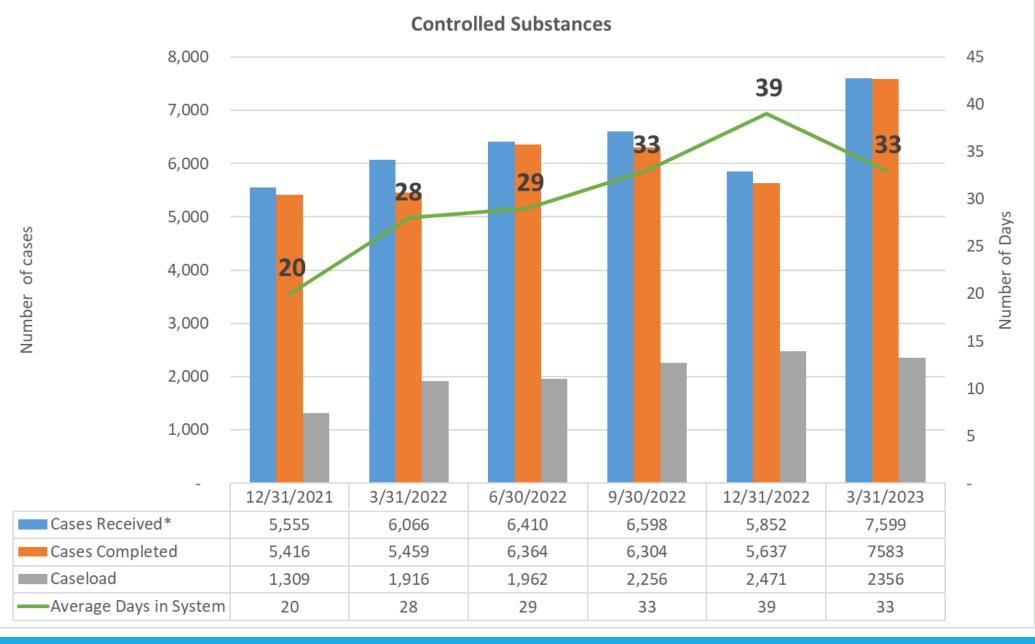
Cases Completed		С	E	N	W	Totals
Within 90 days	%	96	100	99	98	98
Within 60 days	%	72	86	78	73	77
Total Cases	#	217	145	100	49	511

Case Statistics

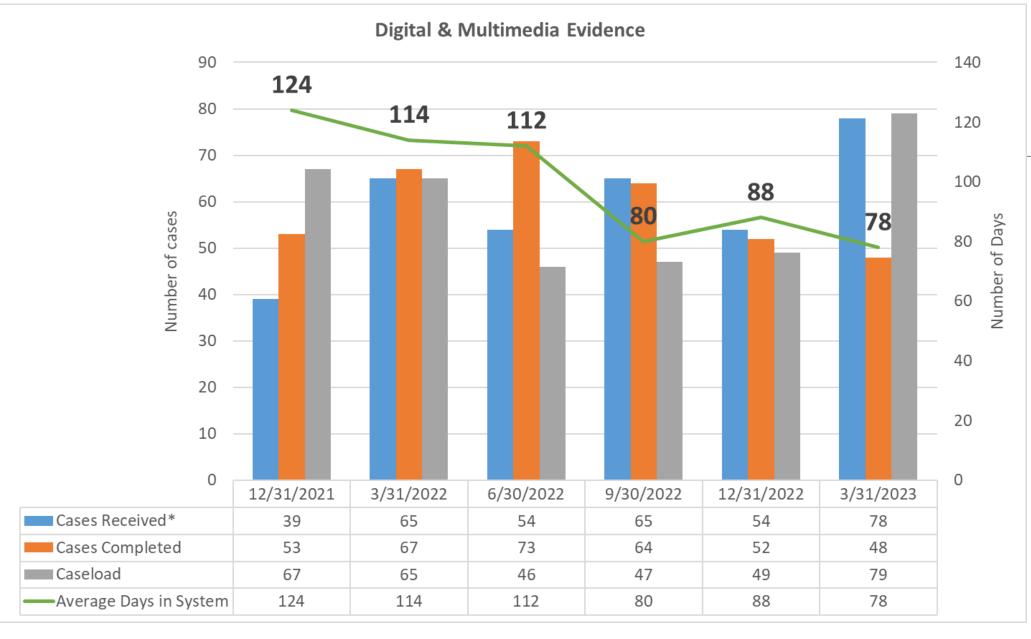


March Workload Statistics

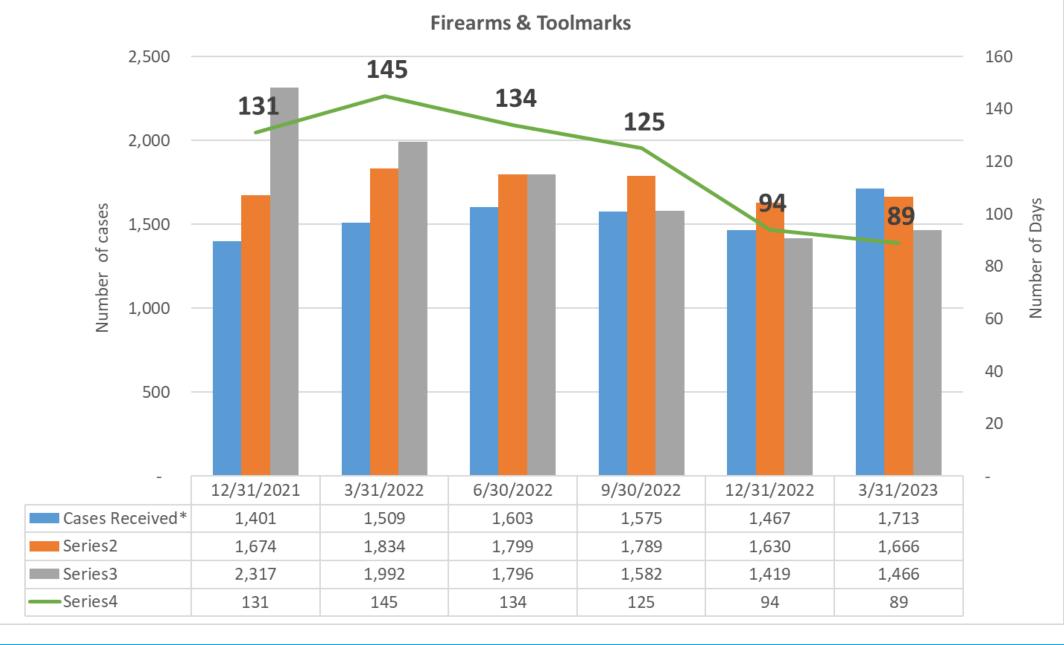
Section	Ending Backlog As of 3/31/2023	Average TAT (in days) March 2023	
Controlled Substances	2,355	29	
Digital & Multimedia Evidence	79	59	
Firearms & Toolmarks	1,466	85	
Forensic Biology (DNA)	2,623	200	
Latent Prints & Impressions	360	56	
Toxicology	1,592	52	
Trace Evidence	193	73	



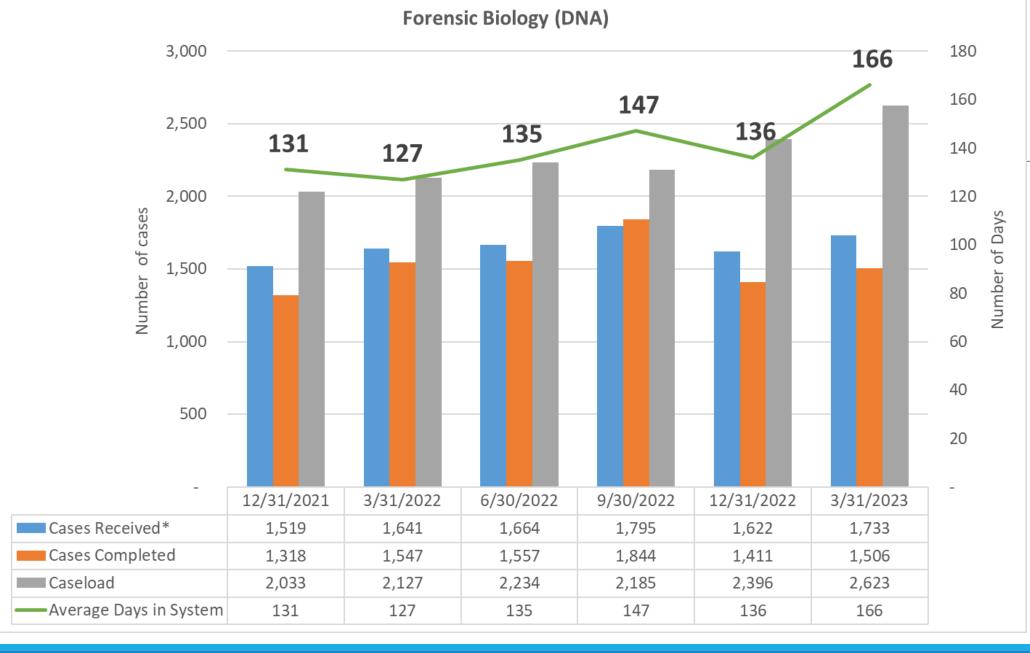




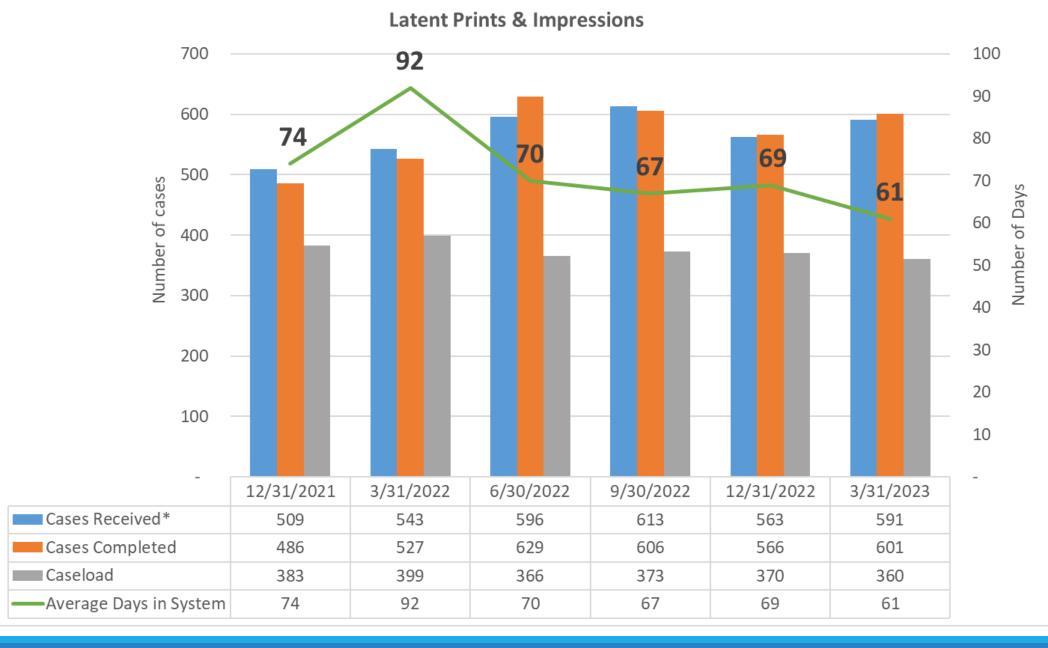




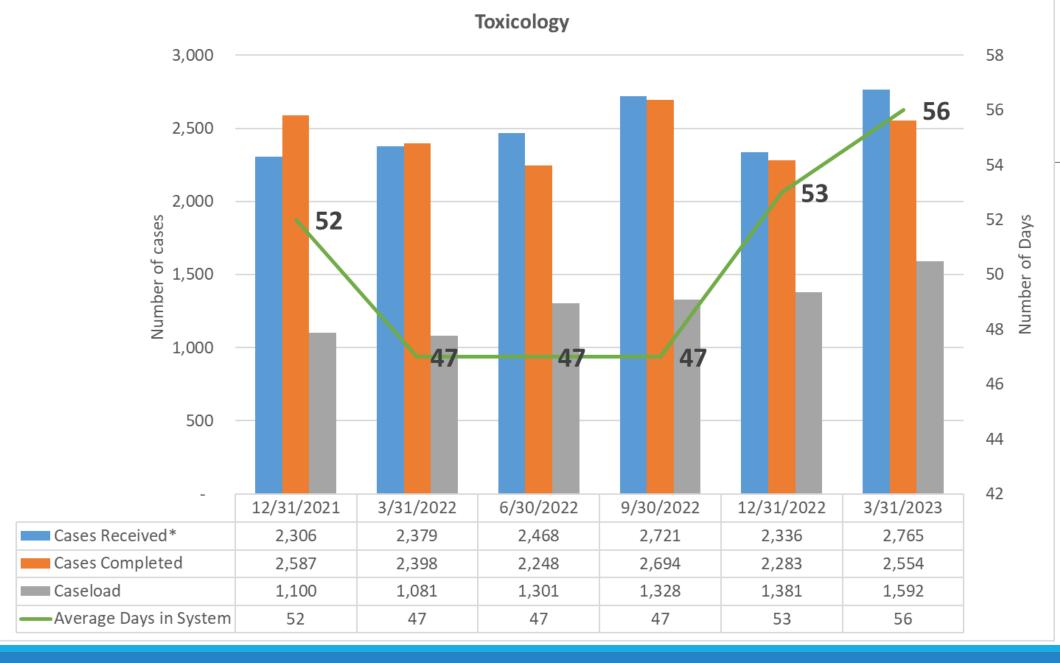




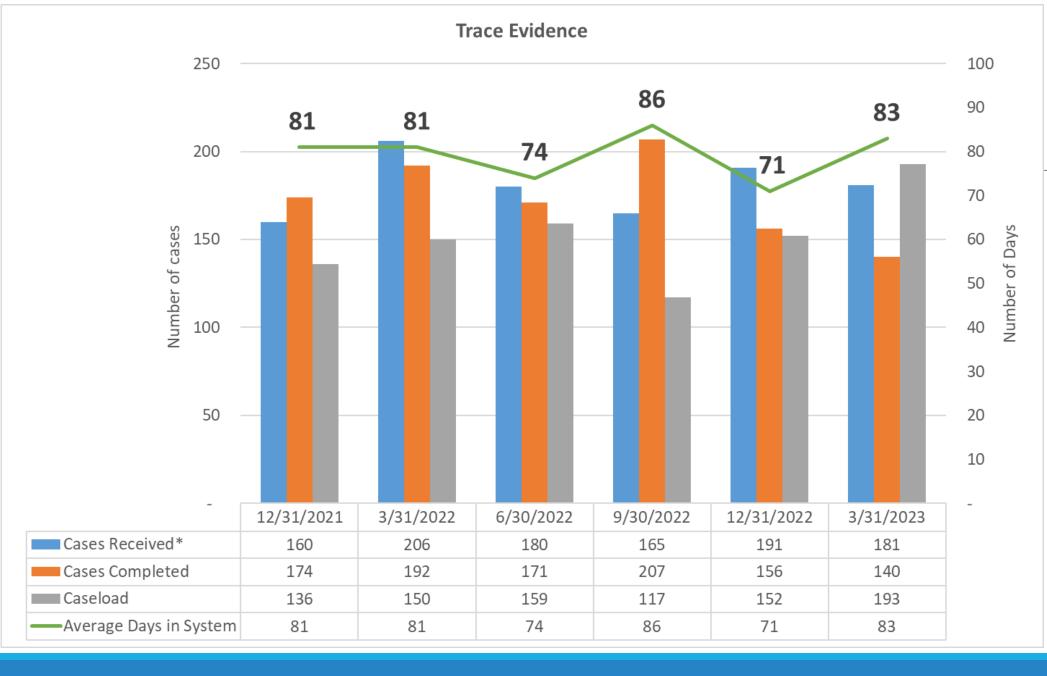














Budget and Resources



Governor's Introduced Budget

Department of Forensic Science

	Operating Budget Summary		Authorized Position Summary			
	General Fund	Nongeneral Fund	Personnel Cost	General Fund	Nongeneral Fund	Total Positions
2019 Appropriation	\$45,818,010	\$2,043,270	\$33,962,401	326.00	0.00	326.00
2020 Appropriation	\$50,014,798	\$2,259,770	\$34,918,472	326.00	2.00	328.00
2021 Appropriation	\$52,605,974	\$2,447,593	\$37,320,641	328.00	3.00	331.00
2022 Appropriation	\$53,325,654	\$2,438,930	\$37,737,079	331.00	4.00	335.00
2023 Appropriation	\$56,446,890	\$2,680,488	\$40,028,270	341.00	14.00	355.00
2023 Intro Changes	\$O	\$o	\$0	0.00	0.00	0.00
2023 Total	\$56,446,890	\$2,680,488	\$40,028,270	341.00	14.00	355.00
2024 Appropriation	\$55,639,990	\$2,680,488	\$40,125,846	341.00	14.00	355.00
2024 Intro Changes	\$634,406	\$O	\$524,336	6.00	0.00	6.00
2024 Total	\$56,274,396	\$2,680,488	\$40,650,182	347.00	14.00	361.00

Operating Budget Changes			
Introduced Budget Non-Technical Changes			
Convert part-time evidence receiving technician position to full-time status			
Provides one position and additional funding to convert a part-time evidence receiving technician position to full-time status. These positions maintain the chain of custody for evidence samples that are submitted to the Department.	General Fund Authorized Positions	\$0 0.00	\$49,167 1.00
Fund software subscription fees for cell phone investigative tools Appropriates funding to cover the cost of software used to unlock cell phones that may contain evidence related to criminal investigations.	General Fund	2023 \$0	<u>2024</u> \$107,770

Provide general fund support for Physical Evidence Recovery Kit (PERK) coord	inator position		
Provides general fund appropriation for a position that supports the agency's PERK tracking software. This position is currently supported by a federal grant that expires on September 30, 2023.	General Fund	<u>2023</u> \$0	<u>2024</u> \$77,585
Provide support for four biologist positions Funds four biologist positions to address workload issues in the forensic biology section. These positions screen evidence submitted to the Department for the presence of DNA and perform other preliminary analyses and reporting.	General Fund Authorized Positions	\$0 0.00	\$314,637 4.00
Provide laboratory specialist position to enable agency response to THC legisla	ition		
Provides funding for one forensic laboratory specialist position to address the analysis of tetrahydrocannabinol (THC) edibles, pursuant to potential legislation that may be introduced in the 2023 Session of the General Assembly.	General Fund Authorized Positions	\$0 0.00	\$85,247 1.00

Other pending budget amendments will be discussed in the Legislative Update

DMV Grant Applications Submitted – Full Board Approval Needed



FSB Chair and Vice Chair provided permission to apply for two DMV grants. Applications were submitted on February 27, 2023.

1. DFS Breath Alcohol (BA) Section - \$245,084, with an in-kind match requirement of 25%

DFS applied for funding to support reimbursement of travel costs for law enforcement officers traveling for breath alcohol training, continuing education for BA Section staff, and paperless processing for continuity of operations.

2. DFS Toxicology (TX) Section - \$469,753, with an in-kind/cash match requirement of 25%

DFS applied to the TREDS portion of the DMV Highway Safety Office for funding to support two parttime FLS II positions and six full-time FLS III positions to provide laboratory support and help reduce case turnaround times.



 BJA FY 2023 Formula DNA Capacity Enhancement for Backlog Reduction (CEBR) Program – application is due on April 26, 2023

The DFS Forensic Biology Section will apply for funding under this program in the amount of \$1,856,364, which is the amount allocated for Virginia. Funding will provide DNA staffing, continuing education, and supplies and/or equipment related to capacity enhancement and backlog reduction efforts in the Forensic Biology and DNA Data Bank Sections.



FY 2023 Paul Coverdell Forensic Science Improvement
 Grants Program – application is due May 31, 2023

The Department of Criminal Justice Services will apply for funding under this program on behalf of DFS and the OCME in the amount of \$535,074, which is the amount allocated for Virginia. Funding is typically divided evenly between DFS and the OCME.

DFS will utilize funding for continuing education for non-DNA scientific staff.



NIJ FY23 Research and Evaluation for the Testing and Interpretation of Physical Evidence in Publicly Funded Forensic Laboratories - applications due on May 3, 2023 - Biology Research Section for ~ \$159,865.

Title: Validating the Biomek i5 Workstation for Integrated Automated Casework Sample Processing and Improved Automated Processing of Sexual Assault Samples

Goals:

- 1. To internally validate current automation methods used in the DNA profiling pipeline on the Biomek NXP automation platform and the newly developed automated DNase-based Differential Extraction (DE) protocols for a replacement platform, the Biomek i5 automation workstation
- 2. Develop and optimize a new resin-based automated DE method, and if superior to the current manual and new DNase-based DE method, validate on the Biomek i5 workstation for integration into sexual assault casework processing



 NIJ FY23 Research and Evaluation for the Testing and Interpretation of Physical Evidence in Publicly Funded Forensic Laboratories – applications due on May 3, 2023

The DFS Chemistry Research Section will apply for funding under this program for two projects:

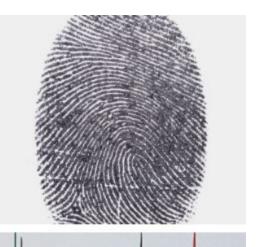
1. Funding will be requested in the amount of ~ \$407,328 for a three-year project, entitled *New Age Therapeutics: Development and Validation of an Analytical Workflow for the Analysis of Psychedelics in Biological Matrices,* to validate an analytical workflow including screening, confirmation, and quantitation of psychedelic compounds, such as psilocybin, and their metabolites in biological matrices. In addition to traditional validation experiments, extensive stability studies will be performed including long term specimen storage, in progress extraction stability, and extract stability.



- NIJ FY23 Research and Evaluation for the Testing and Interpretation
 of Physical Evidence in Publicly Funded Forensic Laboratories –
 applications due on May 3, 2023
 - 2. Funding will be requested in the amount of ~ \$354,576.72 for a two-year project, entitled *Pivoting Headspace Ethanol Analysis to Accommodate Modern Day Scenarios,* to validate two blood ethanol methods using nitrogen and hydrogen as carrier gases. Further, the study will evaluate critical sample preparation parameters including sample dilution for antemortem blood, postmortem blood, vitreous humor, liver, and urine. An evaluation of the effects of vial size, temperature, agitation, and vial pressurization will also be performed.

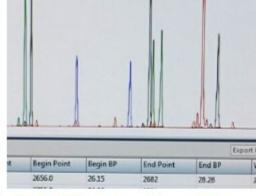


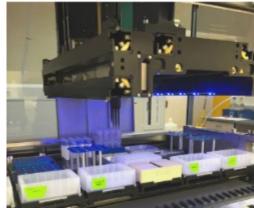
















Thank you!