

Agenda

- Laboratory turn around time
- Toxicology outsourcing to NMS
- Western Lab Renovations complete and new lab construction awaiting SCO.
- UNC School of Government MOA – 15 signed; 35 pending.
- Statutory Fees for State Crime Laboratory

Technical Operations

As of June 8, 2015:

- Down 34% from January 1, 2014
- Down 28% from June 1, 2014
- > 4,678 confirmed stop works and growing.

Average Turn Around Time


1. Average turn around time (TAT) - Average time from first evidence submitted to completion (in calendar days).
2. Average turn around time (TAT) of pending case records.

Laboratory Disciplines	1. TAT in Days As of 3/4/15	2. TAT in Days As of 6/15/15	Days Decreased
Drug Chemistry	668	397 (13 months)	271
Latent Evidence	428	381 (12.7 months)	47
Firearms	341	365 (12 months)	+24***
Body Fluid	687 (22.9 months)	230 (7 months)	457
DNA	687	550 (18 months)	137
Trace Evidence	202 (6.7 months)	190 (6.3 months)	12
Tox-BAC	637 (21.2 months)	162 (5.4 months)	475
Tox-BD	637	495 (16.5 months)	142
Tox-Combo	637	513 (17 months)	124
Computer Forensics	522	361 (12 months)	161

Toxicology Strategic Plan

- ~3,300 – Blood Drug(BD) – Need to outsource
- 6 in training (2 vacancies)
- Outsourcing to NMS (Total 698 cases x \$374 per case = \$261,052)
 - NCGA allocated \$250,000 (R) including testimony.
- Western Lab toxicology renovations
 - Final Instrumentation installation and performance verification in progress
 - Working Western cases from Raleigh.
- Stop Work Program- AOC and Forensic Advantage database interface.
 - > 4,678 confirmed stop works and growing.
- Testimony expense covered by DOJ

North Carolina State Crime Laboratory



6/26/2015 8

Quality Assurance

- Laboratory Director with science background
- Dual ISO/IEC 17025 Accreditation
- Each analyst individually certified
- DNA Quality Assurance Standards(QAS) Audit
- Forensic Science Advisory Board
- Lab Legal Counsel

6/26/2015 9

DUAL ACCREDITATION



The slide features two accreditation logos. On the left is the ASCLD logo, a circular emblem with 'AMERICAN SOCIETY OF CRIME LABORATORY DIRECTORS' around the perimeter, 'LABORATORY ACCREDITATION BOARD TESTING' in the center, and 'INTERNATIONAL' at the bottom. On the right is the ANAB logo, which includes a torch icon, the text 'ANAB ACCREDITED', 'ISO/IEC 17025', and 'FORENSIC TESTING LABORATORY'. The background is a light blue with a faint DNA double helix.

6/26/2015 10

Transparency & Awareness

- Forensic Advantage (Lab Information Management System) enhances transparency for users
- Tours of Laboratory Facilities for judicial and defense stakeholders
- Customer Feedback through formalized court reports & annual survey
- Communicate Lab Mission and Accomplishments

6/26/2015 11

Efficiency

- Lean Six Sigma Project
- Identification of resolved cases / analysis to be returned via Forensic Advantage
- Case management guidelines
- Robotic Technology
- RFP / Contract for private lab analysis
- Blood Alcohol analysis by hospitals
- Mandatory Overtime
- Training by contract vendor

6/26/2015 12





Collaboration

- Court Scheduling
- School of Government Crime Lab Working Group
– 17 recommendations; **15 signed, 19 ongoing, 16?**
- Training for Conference of District Attorneys & Defense Attorneys
- Local law enforcement / DA evidence submission training
- Judicial Education trainings with School of Government

6/26/2015 15

BIGGEST CHALLENGE:

- **ATTRITION AND NON COMPETITIVE FORENSIC SCIENTIST PAY**

JANUARY 1, 2010 – June 1, 2015

75 – Scientist Separations:

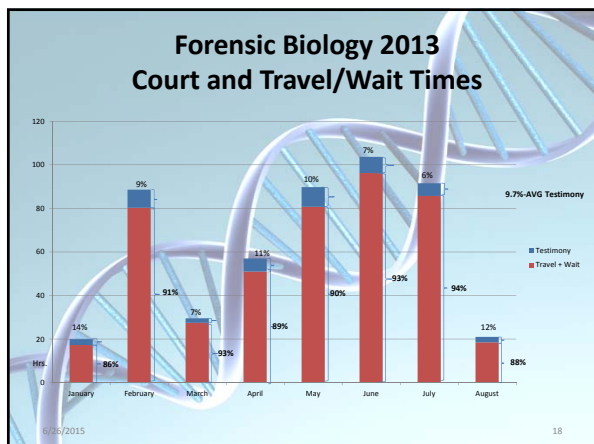
- 40 – “better employment” (53%)
- 8 -- retirement
- 16 -- no reason or “personal reasons”
- 11 -- miscellaneous reasons

6/26/2015 16

MELENDEZ-DIAZ V. MASSACHUSETTS

- **June, 2009—forensic scientists must present “live” testimony in criminal trials**
- **600% Toxicology Court Hours Increase in First Six Months**
- **FY 2013/14: 2,835 Court Hours = 70.86 Forty Hour Weeks**

6/26/2015 17



New Toxicology Lab



Update on New Western Laboratory

2014 Appropriations Act, § 36.12 (f) (1) :
\$15,400.000 "to finance the capital facility costs
of a Western Crime Lab"

36,031 Square Feet

48 Staff Members

751 Sq. Feet/Staff Member

Add Forensic Biology & Toxicology Services

Serve 36 counties

6/26/2015

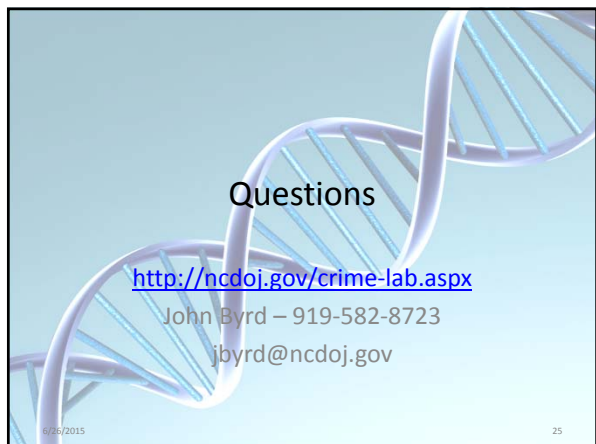
23

Architectural Rendering of New Western Regional Laboratory



6/26/2015

24

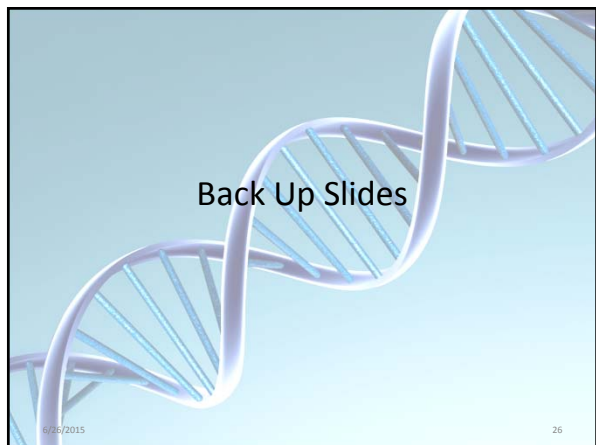


Questions

<http://ncdoj.gov/crime-lab.aspx>

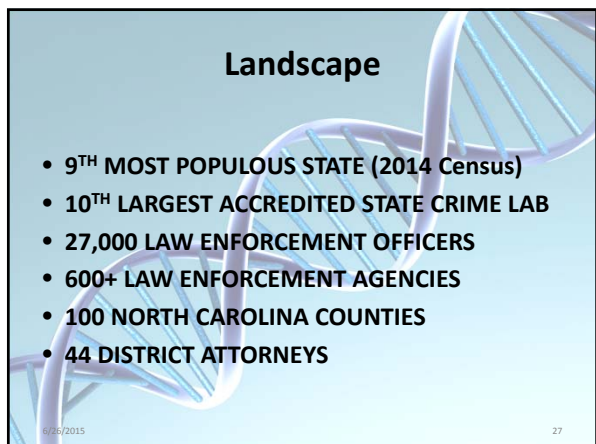
John Byrd – 919-582-8723
jbyrd@ncdoj.gov

6/26/2015 25



Back Up Slides

6/26/2015 26



Landscape

- **9TH MOST POPULOUS STATE (2014 Census)**
- **10TH LARGEST ACCREDITED STATE CRIME LAB**
- **27,000 LAW ENFORCEMENT OFFICERS**
- **600+ LAW ENFORCEMENT AGENCIES**
- **100 NORTH CAROLINA COUNTIES**
- **44 DISTRICT ATTORNEYS**

6/26/2015 27

FORENSIC ANALYSES CONDUCTED AT RALEIGH LABORATORY (STATEWIDE):

<ul style="list-style-type: none"> • DNA Database • Drug Chemistry • Firearm & Tool Marks • Forensic Biology • Latent Evidence • Toxicology • Trace Evidence 	<p>maintenance of State DNA Database</p> <p>controlled substances</p> <p>weapons, ammunition, unidentified markings</p> <p>blood, body fluids, DNA testing</p> <p>fingerprints, palm prints, footprints, footwear, tire impressions</p> <p>controlled substances; alcohol/drugs in blood/urine</p> <p>hair, fiber, glass, paint, headlight filaments, gunshot residue, explosives and fire debris</p>
---	---

6/26/2015 28

REGIONAL LABORATORIES

<p>FORENSIC ANALYSES CONDUCTED AT TRIAD LAB (12 COUNTIES):</p> <ul style="list-style-type: none"> • Drug Chemistry • Latent Evidence • Toxicology 	<p>FORENSIC ANALYSES CONDUCTED AT WESTERN LAB (32 COUNTIES):</p> <ul style="list-style-type: none"> • Drug Chemistry • Firearm & Tool Mark • Latent Evidence • Trace Evidence – (fire debris only)
---	---

6/26/2015 29

<p>Per analyst training cost to State:</p> <p>Assuming a 2 year Lab investment in employing, training & developing a new scientist and adding scientist salary & costs: \$114,625</p> <p>35 x \$114,625 =</p> <p style="font-size: large; font-weight: bold;">\$4,011,875</p>	<p>2013 NC DOJ Independent Salary Survey of Forensic Scientists:</p> <p style="font-size: small;">NCSCCL 16% "below the average minimum, maximum and survey total averages"</p> <p>HB 1093 requested:</p> <ul style="list-style-type: none"> • Proposal from House Committee on Judicial Efficiency and Effective Administration of Justice - Sponsored by Co-Chairs, Bipartisan 24 House Members • Provides a 10% Salary Increase • Supported by NC Sheriff's Ass'n., NC MADD, NC Forensic Science Advisory Board, NC Ass'n. of County Commissioners • Referred to House Appropriations Committee <p style="font-size: large; font-weight: bold;">\$992,237</p>
---	---

6/26/2015 30

ADDITIONAL CHALLENGES

- **LABWIDE CASE SUBMISSIONS**
FY 2009/10--2013/14: 181,023 case submissions
Average: 36,204.6 per year
- **TOO FEW FORENSIC PERSONNEL--**
FY 2013/14: 124 case working scientists**
- **EXTENSIVE OVERTIME--**
FY 2013-14: 7,776 hrs. (= 3.7 FTE @ 40 hrs./wk for 52 weeks);
\$318,401

6/26/2015 31

Toxicology

TOXICOLOGY CASE SUBMISSIONS

FY 2010/11 - 2013/14: Average 8,010 per yr.
36%--Western Lab Counties

TOO FEW TOXICOLOGISTS

FY 2013/14: 12 case working toxicologists
**July 1, 2013 Appropriations Act - 19 New Toxicologist Positions

6/26/2015 32

Western Laboratory Toxicology Renovation Update

- New Laboratory in 2 years
- Toxicology in Summer of 2015
- Renovated lab space from vacated office space
- Installation of lab bench work, chemical hoods and instrumentation -ongoing
- Toxicologists currently in training in Raleigh

6/26/2015 33

Forensic Biology

FORENSIC BIOLOGY CASE SUBMISSIONS

FY 2010/11 - 2013/14: Average—2,921 per yr.

2,337 (80%) were 1-20 Item cases
average 3.5 days or 28 hours to work

584 (20%) were 21+ items
(occasionally exceeding 100)
average 8 days or 64 hours to work

2,337 X 28 = 65,436 required work hrs
584 X 64 = 37,376
102,812 total required work hrs

TOO FEW DNA ANALYSTS

102,812 ÷ 2080 (52 weeks X 40 hours) = **49,4**

*Minimum number of scientists to complete work—
If analyzing evidence a full 40 hours every week—
not allowing for holidays, vacation, other duties,
lunch, potty breaks
or
COURT TESTIMONY.*

FY 2012/13: 24 case working DNA positions

****2014 Appropriations Act:
10 positions, effective Mar. 1, 2015,
"to establish a new Forensic Biology/DNA Unit at
the Western Regional Laboratory"**

6/26/2015 34

Appendix A: Architectural Rendering- New Western Crime Laboratory/Site Orientation view/ Floor Plan



Edneyville, NC



Larry T. Justus Western Justice Academy



North Carolina State Crime Laboratory – Western Regional Laboratory

Page 4
Scale: 1" = 40'
Project No.: 13087



RND
REGISTRATION NUMBER NC 004
R. T. HARRIS & ASSOCIATES, INC.

6/26/2015 35
