



**August 14, 2020**

**Division of Criminal Justice Services  
Virtual Meeting<sup>1</sup>**

**10:02 AM - 11:21 AM**

**DRAFT MEETING MINUTES**

**DNA Subcommittee Members in Attendance:**

Frederick Bieber, Ph.D.  
Allison Eastman, Ph.D.  
Katherine Gettings, Ph.D.  
Kenneth Kidd, Ph.D.  
Jenifer Smith, Ph.D.  
Amanda Sozer, Ph.D.  
Bruce Weir, Ph.D.

**DCJS Staff in Attendance:**

Jill Dooley  
Natasha Harvin-Locklear  
Shelley Palmer  
Jackalynne Vimislik

Dr. Weir opened the meeting by explaining that each member of the Subcommittee was in attendance via the web conference from their own locations. He noted that all members of the Subcommittee were present.

*Approximate  
video times*

00:00:00 –  
00:02:48

Dr. Weir then asked for a motion to approve the agenda which was made by Dr. Bieber, seconded by Dr. Eastman and approved unanimously.

00:02:48 –  
00:04:19

The Chair then asked Subcommittee members for questions or comments on the minutes from the May 1, 2020 Subcommittee meeting. Dr. Eastman suggested an edit to amend a typographical error. Dr. Gettings made a motion to accept the minutes with the mentioned edit, Dr Kidd seconded the motion and it was approved with six votes for, and one abstention (Bieber).

00:04:19 –  
00:06:42

<sup>1</sup> Due to the Coronavirus (COVID-19), and pursuant to Governor Cuomo's Executive Order 202.1, issued on March 12, 2020, suspending the Open Meetings Law and authorizing the attendance of meetings telephonically or other similar service.

Next, the Subcommittee reviewed Accreditation/Laboratory updates from the Erie County Central Police Services Forensic Laboratory, Monroe County Crime Laboratory, and Westchester County Division of Forensic Sciences. Additionally, the Chair requested a motion that a letter be sent to personnel noted in the notification from Westchester County; thanking them for their service and congratulating them on their retirement. The motion was made by Dr. Eastman, seconded by Dr. Bieber, and approved unanimously.

00:06:42 –  
00:11:41

The Chair then moved to Old Business. A verbal update was provided on the Partial Match program, Familial Search program, and CODIS Bulletins. Then a review and discussion of the updated draft changes to the Partial Match, Familial Search, New York State Regulations, and Implementation Plan took place. A motion was made by Dr. Smith to send a binding recommendation to the NYS Commission on Forensic Science approving the suggested changes. The motion was seconded by Dr. Bieber, and approved unanimously.

00:11:41 –  
00:34:15

Under New Business, OFS Director Dr. Jill Dooley provided Subcommittee members with an update regarding laboratory assessments. Members then reviewed and discussed a letter submitted by the NYS Biology Technical Working Group (TWG) regarding STRMix. TWG members, laboratory personnel, and STRMix creator Dr. John Buckleton were available for comment.

00:34:15 –  
00:45:00

The Subcommittee then reviewed Laboratory Disclosures from the Nassau County Division of Forensic Sciences, Onondaga County Center for Forensic Sciences, and New York State Police Crime Laboratory. Members of the laboratories were available to answer questions as needed.

00:45:00 –  
01:17:47

The Chair stated that the next meeting of the Subcommittee will be take place virtually on November 6, 2020. A motion to adjourn was made by Dr. Kidd, seconded by Dr. Bieber, and approved unanimously.

01:17:46 –  
01:20:10

**Note: Video of the meeting is available at <https://www.youtube.com/user/nyspublicsafety>**

# THE FBI QUALITY ASSURANCE STANDARDS

## AUDIT FOR

### FORENSIC DNA TESTING LABORATORIES

IN ACCORDANCE WITH THE QUALITY ASSURANCE STANDARDS  
FOR FORENSIC DNA TESTING LABORATORIES  
EFFECTIVE JULY 1, 2020

An Audit of: Erie County Central Police Services Forensics Laboratory

Address of Laboratory: 45 Elm Street Buffalo, New York 14203

Dates of Audit: September 9-11, 2020 (VIRTUAL EXTERNAL QAS AUDIT approved by NDIS Custodian August 6, 2020)

Type of Audit: External ☒ Internal ☐

Was the audit done in conjunction with an accreditation assessment? Yes ☐ or No ☒

Revision Date of Guidance Document referenced 7/1/2020

Are there findings associated with this audit? Yes ☐ or No ☒

Audit Team: Deedra Hughes

Michelle Burns [Click here to enter name of auditor.](#)

[Click here to enter name of auditor.](#)

[Click here to enter name of auditor.](#)

[Click here to enter name of auditor.](#)

[Click here to enter name of auditor.](#)

[Click here to enter name of auditor.](#)

[Click here to enter name of auditor.](#)

[Click here to enter name of auditor.](#)

[Click here to enter name of auditor.](#)

#### For Laboratory:

Date Final Audit Report Received: [Click here to enter a date](#)

Date Audit Documentation Sent to NDIS: [Click here to enter a date](#) or N/A ☐

## **FORENSIC QAS AUDIT DOCUMENT**

### **INTRODUCTION**

The DNA Identification Act of 1994 required the formation of a panel of distinguished professionals, from the public and private sectors, to address issues relevant to forensic DNA applications. This panel, known as the DNA Advisory Board (DAB), first convened in 1995. The mission of the DAB was to develop and implement quality assurance standards for use by forensic DNA testing laboratories. The scope was quickly expanded to include forensic DNA databasing laboratories as well. The DAB fulfilled its statutory responsibilities, recommending separate documents detailing quality assurance standards for both forensic and databasing applications. The "Quality Assurance Standards for Forensic DNA Testing Laboratories" and the "Quality Assurance Standards for Convicted Offender DNA Databasing Laboratories" were issued by the Director of the Federal Bureau of Investigation in October 1998 and April 1999, respectively. The "Quality Assurance Standards for Forensic DNA Testing Laboratories" and the retitled "Quality Assurance Standards for DNA Databasing Laboratories" have become benchmarks for assessing the quality practices and performances of DNA laboratories throughout the country. When the Federal DNA Advisory Board's statutory term expired, it transferred responsibility for recommending revisions of these Quality Assurance Standards to the Scientific Working Group on DNA Analysis Methods (SWGDM).

The DNA Identification Act of 1994 also required that the FBI Laboratory ensure that all DNA laboratories that receive federal grant funds or participate in the National DNA Index System (NDIS) demonstrate compliance with the FBI's Quality Assurance Standards (QAS). A laboratory's documentation of compliance with the QAS is measured through an accreditation/audit process. Such accreditation inspections or audits are performed by forensic scientists, either internal or external to the laboratory, and are intended to evaluate and document compliance with established standards.

Since the issuance of the original QAS, the FBI Laboratory recognized that a uniform interpretation guide would minimize interpretation variability among auditors. For the initial QAS, the FBI Laboratory developed, in collaboration with inspection and accreditation agencies and other interested stakeholders, audit documents for assessing compliance with the required Forensic and Databasing Standards. Previous Audit Documents contained a checklist for assessing compliance with each standard and additional discussion sections with interpretation guidance for laboratories and auditors.

With the 2020 QAS revisions, the QAS discussion sections for the Forensic and Databasing Standards, formerly part of the Audit Documents, have been transitioned into the QAS Guidance Document. The Guidance Document clarifies standards, as



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needed, and provides additional guidance to assist the laboratory and auditors in determining compliance.

**The Forensic and Databasing QAS and QAS Guidance Document will take effect on January 1, 2020 and are not to be applied retroactively. The Forensic and Databasing QAS are the primary resource for the definitions and quality assurance standards and take precedence over the QAS Guidance Document which should be consulted only for additional clarification as a secondary resource.**

The Forensic and Databasing Audit Documents now contain only the checklists for assessing compliance with each standard. In this Audit Document, the rating system for assessing the laboratory with respect to each standard contains the choices of "Yes" or "No", and, where appropriate, "Not Applicable (N/A)." In Appendix A, the findings associated with the audit will be detailed and summarized by the auditor, with an area available for response to such findings by the laboratory. Notes or comments, including observations and recommendations, are better suited to be mentioned during the exit briefing with laboratory personnel or in a separate letter/memorandum to the laboratory so that these comments are not confused with comments relating to a finding or an explanation of why a particular standard is not applicable.

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## **Instructions to Audit Team**

Thank you for participating in this important process intended to evaluate compliance with minimum standards for a quality program for performing forensic DNA analysis.

Starting with audits conducted in accordance with the Quality Assurance Standards effective July 1, 2009, separate Audit Documents are used for forensic and databasing laboratories. If a laboratory performs both functions, each Audit Document must be completed and submitted to the laboratory at the conclusion of the audit process.

Once an external audit has been scheduled, the laboratory being audited should provide the audit team with the Checklist contained on the following pages as soon as possible. The Lead Auditor shall also request a certification (contained in Appendix C) from each auditor on the team and provide them to the laboratory prior to the beginning of the audit. The Lead Auditor shall review the checklist completed by the laboratory and the laboratory shall review the Appendix C for each auditor to ensure that the audit team contains the appropriate number of members to audit the laboratory and that the team members possess the necessary expertise required to audit that laboratory. An auditor or his or her employer who has a contractual relationship (exclusive of audits) with the laboratory being audited shall disclose this fact and recuse himself or herself from performing the audit. The laboratory shall review the auditors' certifications for any potential conflicts of interest.

As a general rule, compliance with a standard is assessed through a review of the laboratory's documentation and interviews with laboratory staff. Documents may be in hard copy, electronic or a combination of both formats. Certificates of qualifications shall not be considered documentation of compliance with these standards. Laboratory personnel's compliance with these standards shall be documented by the auditor(s) in Appendix D. A review of case reports for the laboratory shall include a number of case files randomly selected for each DNA analyst. As appropriate, a minimum of three to five cases per DNA analyst should be reviewed.

When conducting an audit, please keep in mind the following general guidelines:

- Potential issues concerning compliance should be directed to the laboratory's designated points of contact.
- Comments on the laboratory's operations should be reserved for the audit document if a "No" or "N/A" is marked and/or the exit interview with laboratory management; comments should not be made to laboratory staff.
- Contested or contentious issues should be brought to the attention of your Lead Auditor for follow-up, as necessary.

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As a general rule,

- Issues deemed minor by the audit team that are addressed during the course of an audit (for example: date or position revisions of a laboratory's organizational chart) may be determined by the auditor to satisfy a non-compliance so that a "Yes" is marked for that standard.
- Non-compliance with a standard identified by the laboratory prior to the audit should be assessed by the audit team for adequate documentation and/or corrective action. If determined to have been appropriately addressed, the auditor may mark the corresponding standard as "Yes".
- Comments should not be included for standards marked "Yes".
- Comments shall be included for standards marked "No" or "N/A".
  - For a standard marked "No", the comment shall describe the non-compliance with sufficient detail so that the laboratory can develop an appropriate corrective action for compliance.
  - For a standard marked "N/A", the comment shall describe why that standard is not applicable to that laboratory.

For additional information pertaining to the interpretation of each standard refer to the QAS Guidance Document. Questions concerning this Audit Document or a specific standard should be directed to the FBI's Combined DNA Index System (CODIS) Unit at [QAS@fbi.gov](mailto:QAS@fbi.gov)

After the audit is completed, the Lead Auditor or auditor(s) briefs DNA laboratory management and the DNA technical leader regarding the results. This briefing should verbally detail specific findings (non-compliances) and observations (general comments and/or recommendations), as well as recognize commendable performances. The written report should be prepared by the Lead Auditor and/or auditor(s) and sent to the laboratory within 30 days of the audit. The Audit Document Report consists of the completed Audit Document Checklist, with any areas of non-compliance listed under the Findings Section of Appendix A. All findings of non-compliance must be clearly identified and referenced to the appropriate standard.

**Recommendations shall not be included in the Audit Document Report. Notes or comments, including observations and recommendations are better suited to be mentioned during the exit briefing with laboratory personnel or in a separate letter/memorandum to the laboratory so that these comments are not confused with comments relating to a finding of non-compliance or an explanation of why a particular standard is not applicable.**

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## General Laboratory Information

For an External Audit, to be completed by the laboratory and provided to the audit team prior to the on-site visit.

1. Name of Laboratory: Erie County Central Police Services Forensics Laboratory
2. Jurisdiction: Other    If Other: County
3. Uses a Vendor Laboratory: ☐ Yes ☒ No  
If Yes, [Click here to enter Vendor Laboratory\(ies\)](#)
4. Uses contract employees: ☐ Yes ☒ No
5. NDIS Participant: ☒ Yes ☐ No  
If No, applying for NDIS Participation: ☐ Yes ☐ No
6. Technologies Used: (Choose those that apply)  
☒ Autosomal STR   ☒ Y STR   ☐ Mito   ☐ SNP  
☐ Other: [Click here to enter text.](#)  
☐ Other: [Click here to enter text.](#)
7. Test Typing Kits Used: Power Plex Fusion 5C and Powerplex Y23
8. Platform Instrument Models Used: ABI 3500 Genetic Analyzer
9. Validations requiring review under Std 15: ☒ Yes ☐ No
10. Staff (to include contract employees)
  - a. Total # of qualified DNA Analysts/Technical Reviewers: 12
    - i. # of DNA Analysts requiring review under Std 15: 3
  - b. # of DNA Technicians: 0
  - c. # of Laboratory Support Personnel: 0
  - d. DNA Technical Leader: Thomas Grill
    - i. On Site: ☒ Yes ☐ No
    - ii. Hired or Appointed since last external audit: ☐ Yes ☒ No
  - e. Casework CODIS Administrator: Kristen Betker
    - i. Hired or Appointed since last external audit: ☐ Yes ☒ No
11. Date of Last Audit: 11/15/2019
  - a. ☐ External ☒ Internal
  - b. If Internal, Date of Last External Audit: 6/11/2018
  - c. Revision Date of Audit Guidance Document Used: 9/1/2011
12. Uses an Expert System: ☐ Yes ☒ No
  - a. Name & Version of Expert System: [Click here to enter text.](#)
  - b. Test Kit and Instrument: [Click here to enter text.](#)
  - c. Version of Data Collection: [Click here to enter text.](#)
13. Uses a Rapid DNA System: ☐ Yes ☒ No
  - a. Name of Rapid DNA System and Instrument: [Click here to enter text.](#)
  - b. Typing Kit and Cartridge: [Click here to enter text.](#)
  - c. System Software: [Click here to enter text.](#)

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d. Expert System Software: [Click here to enter text.](#)

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**Standard 1. Scope**

No Auditable Requirements

**Standard 2. Definitions**

No Auditable Requirements

**Standard 3. Quality Assurance Program**

		Yes	No	N/A
<b>3.1</b>	Does the laboratory have, follow, and maintain a documented quality system:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Is the quality system appropriate to the testing activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b. Is the quality system equivalent to or more stringent than what is required by these Standards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b> To successfully satisfy Standard 3.1, compliance must be demonstrated with all of the substandards of Standard 3.1.1.				
<b>3.1.1</b>	Is the quality system documented in a manual that includes or references the following elements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.1</b>	Goals and objectives?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.2</b>	Organization and management?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.3</b>	Personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.4</b>	Training?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.5</b>	Facilities and evidence control?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.6</b>	Validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.7</b>	Analytical procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.8</b>	Equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.9</b>	Reports?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.10</b>	Review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.11</b>	Proficiency testing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.12</b>	Corrective action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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<b>3.1.1.13</b>	Audits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.14</b>	Professional Development?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.1.15</b>	Outsourcing Ownership?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.1.2</b>	Does the laboratory maintain and have available on-site any documents referenced within the quality manual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>3.2</b>	Does the laboratory have and follow a policy regarding document retention that specifically addresses:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Proficiency tests? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	b. Corrective action? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	c. Audits? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	d. Training records? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	e. Continuing education? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	f. Case files? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	g. Court testimony monitoring? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
<b>3.3</b>	Does the laboratory perform annual review of its DNA quality system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Is the review independent of the audit required by Standard 15?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b. Is the review completed under the direction of the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	c. Is the review approved by the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3.4</b>	Does the laboratory annually review case files determined by the technical leader to be a representative sample of the cases worked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Is the review independent of an external audit required by Standard 15?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b. Is the scope of the review defined prior to each annual review and approved by the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**



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**Standard 4. Organization and Management**

	Yes	No	N/A
<b>4.1</b> Does the laboratory have:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.1</b> A managerial staff with the authority and resources needed to discharge its duties and meet the requirements of the Standards in this document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.2</b> A technical leader who is accountable for the technical operations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Have at least one technical leader in a multi-laboratory system?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4.1.3</b> A casework CODIS administrator who is accountable for CODIS on-site at each individual laboratory facility using CODIS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.1.4</b> At least two full-time employees who are qualified DNA analysts?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.5</b> Documentation that specifies the responsibility, authority, and interrelation of all personnel who manage, perform, or verify work affecting the validity of the DNA analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.6</b> A documented contingency plan that is approved by laboratory management if the technical leader position is vacated or if the number of qualified DNA analysts falls below the two full-time analyst requirement?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. If applicable, did the laboratory follow the documented contingency plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>NOTE:</b> For an NDIS participating lab, refer to Appendix B for the Contingency Plan Notification Form.			
<b>4.2</b> Does the laboratory define whether the date of hire/appointment/promotion or date of qualification will be used by the laboratory for determining the applicable QAS version for education, experience and training requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**

**Standard 4.1.2.a is marked N/A because the laboratory is not a multi-laboratory system.**

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**Standard 4.1.6.a is marked N/A because the laboratory has not had a vacant technical leader position since their last external assessment.**

**Standard 5. Personnel**

		Yes	No	N/A
<b>5.1</b>	Do laboratory personnel have the education, training, and experience commensurate with the examination and testimony provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b>	<i>To successfully satisfy Standard 5.1, compliance must be demonstrated with all of the substandards of Standard 5.</i>			
<b>5.1.1</b>	Does the laboratory have written job descriptions for all personnel to include responsibilities, duties, and skills?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.1.2</b>	Does the laboratory maintain records on the relevant qualifications, training, skills, and experience of all technical personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		Yes	No	N/A
<b>5.2</b>	Is the technical leader a full-time employee of the laboratory or multi-laboratory system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b>	<i>To successfully satisfy Standard 5.2, compliance must be demonstrated with all of the substandards of Standard 5.2.</i>			
<b>NOTE:</b>	<i>Standard 5.2 and Standards 5.2.1 through 5.2.4 may be marked "Yes" for a TL who has been reviewed and memorialized in at least 2 prior external audit documents.</i>			
<b>5.2.1</b>	Does the technical leader of the laboratory meet or exceed the following degree/educational requirements or have a waiver as allowed for in 5.2.1.4?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>The substandards of Standards 5.2.1 through 5.2.1.3 will be marked "N/A" for a TL who has a waiver as allowed for in 5.2.1.4</i>			
	a. A master's degree in a biology-, chemistry-, or forensic science-related area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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b. Twelve semester hours or equivalent credit hours including a combination of graduate and undergraduate coursework or classes covering the following subject areas:		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1. Biochemistry?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
2. Genetics?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
3. Molecular biology?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
4. Statistics / population genetics?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
5.2.1.1 Of the 12 semester or equivalent credit hours required, do they include at least one graduate-level course registering 3 or more semester or equivalent credit hours?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.2.1.2 Do each of the specific subject areas listed in Standard 5.2.1 constitute an integral component of any coursework used to demonstrate compliance with this Standard?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.2.1.3 For individuals who have completed coursework with titles other than those listed in Standard 5.2.1, have they successfully demonstrated compliance with this Standard through a combination of pertinent materials such as a syllabus, letter from the instructor, or other documentation that supports the course content?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.2.1.4 If the degree requirements of Standard 5.2.1 are not met, does the technical leader possess a waiver from the American Society of Crime Laboratory Directors (ASCLD)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
5.2.2	Does the technical leader meet or exceed one of the following minimum experience requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a.	If the technical leader was appointed prior to July 1, 2009, does the technical leader have three years of forensic DNA laboratory experience obtained at a laboratory where forensic DNA testing was conducted for the identification and evaluation of biological evidence in criminal matters?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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- b. If the technical leader was appointed on or after July 1, 2009, does the technical leader have a minimum of three years human DNA experience (current or previous) as a qualified analyst on forensic samples? ☒ ☐ ☐

**NOTE:** *Standards 5.2.3 and 5.2.4 may be marked "N/A" if the technical leader has been in the position for less than one year.*

- 5.2.3** If the technical leader was appointed on or after July 1, 2020, was the technical leader a currently or previously qualified analyst in each technology or have documented training in each technology utilized in the laboratory within one year of appointment? ☐ ☐ ☒

- 5.2.4** Has the technical leader successfully completed the FBI-sponsored auditor training within one year of appointment? ☒ ☐ ☐

- |   | Yes                                 | No                       | N/A |
|---|-------------------------------------|--------------------------|-----|
| <b>5.2.5</b> Does the technical leader of the laboratory have the following authority and minimum responsibilities:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>5.2.5.1</b> Oversee the technical operations of the laboratory?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>5.2.5.2</b> Authority to initiate, suspend, and resume DNA analytical operations for the laboratory or an individual?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>5.2.5.3</b> Evaluate and approve of all validations and new or modified methods used by the laboratory?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>5.2.5.4</b> Review the training records for newly qualified analysts, technicians and technical reviewers and approve their qualifications prior to independent casework analysis and review, verify, and approve the academic transcripts for newly qualified analysts and technical reviewers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>5.2.5.5</b> Approve the technical specifications for outsourcing agreements?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>5.2.5.6</b> Review internal and external DNA audit documents and, if applicable, approve corrective action(s)?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>5.2.5.7</b> Review annually the procedures of the laboratory?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |

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**5.2.5.8** Review and approve the training, quality assurance, and proficiency testing programs in the laboratory? ☒ ☐

**5.2.5.9** Review potential conflicts of interest when contract employees are employed by multiple NDIS participating and/or vendor laboratories? ☒ ☐

		Yes	No	N/A
<b>5.2.6</b>	Is the technical leader accessible to the laboratory to provide on-site, telephonic, or electronic consultation as needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. If the technical leader oversees a system of separate laboratories, has the technical leader conducted and documented semi-annual on-site visits of each of the laboratories?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>NOTE:</b>	<i>Standards 5.2.7, 5.2.7.1 and 5.2.7.2 may be marked "N/A" if the technical leader has been in the position for less than one year.</i>			
<b>5.2.7</b>	Has a newly appointed technical leader documented a review of the following within one year of appointment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>5.2.7.1</b> Validation studies and analytical procedures currently used by the laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>5.2.7.2</b> Educational qualifications and training records of currently qualified analysts and technical reviewers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Yes	No	N/A
<b>5.3</b>	Is the casework CODIS administrator an employee of the laboratory and does he or she meet the following qualifications?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**NOTE:** *For an audit of a vendor laboratory, Standard 5.3 and all of its substandards will be marked "N/A".*

**NOTE:** *To successfully satisfy Standard 5.3, compliance must be demonstrated with all of the substandards of Standard 5.3.1 through 5.3.3.*

**NOTE:** *Standard 5.3 and Standards 5.3.1 through 5.3.3 may be marked "Yes" if the casework CODIS administrator has*

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*been reviewed and memorialized in at least 2 prior external audit documents.*

**NOTE:** *Standard 5.3.1 shall be marked "Yes" if the casework CODIS administrator was appointed prior to July 1, 2020.*

**5.3.1** Does the casework CODIS administrator meet or exceed the degree and educational requirements in Standard 5.4? ☒ ☐ ☐

**NOTE:** *Standard 5.3.2 shall be marked "Yes" if the CODIS administrator was appointed prior to July 1, 2009.*

**5.3.2** Is the casework CODIS administrator a current or previously qualified analyst with documented mixture interpretation training? ☒ ☐ ☐

**NOTE:** *Standard 5.3.3 a may be marked "N/A" if the casework CODIS administrator has been in the position for less than six months. Standard 5.3.3 and 5.3.3 b may be marked "N/A" if the casework CODIS administrator has been in the position for less than one year.*

**5.3.3** Has the casework CODIS administrator successfully completed the following training requirements? ☒ ☐ ☐

a. FBI-sponsored CODIS software training within six months of appointment, if not previously completed such training? ☒ ☐ ☐

b. FBI DNA auditor training within one year of appointment, if not previously completed such training? ☒ ☐ ☐

**Yes No N/A**

**5.3.4** Is the casework CODIS administrator responsible for the following: ☒ ☐ ☐

**5.3.4.1** Administer the laboratory's local CODIS network? ☒ ☐ ☐

**5.3.4.2** Schedule and document the CODIS computer training of casework analysts? ☒ ☐ ☐

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- |                |   |                                     |                          |                                     |
|----------------|---|-------------------------------------|--------------------------|-------------------------------------|
| <b>5.3.4.3</b> | Ensure that the security of data stored in CODIS is in accordance with state and/or federal law and NDIS operational procedures?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>5.3.4.4</b> | Ensure that the quality of data stored in CODIS is in accordance with state and/or federal law and NDIS operational procedures?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>5.3.4.5</b> | Ensure that matches are dispositioned in accordance with NDIS operational procedures?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>5.3.5</b>   | Is the casework CODIS administrator authorized to terminate an analyst's or the laboratory's participation in CODIS until the reliability and security of the computer data can be assured if an issue with the data is identified? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>5.3.6</b>   | If the casework CODIS administrator position has been unoccupied since the last audit, has the laboratory refrained from uploading new DNA profiles to NDIS during the vacancy?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Yes      No      N/A**

- |            |  |                                     |                          |  |
|------------|--|-------------------------------------|--------------------------|--|
| <b>5.4</b> | Is each analyst an employee or contract employee of the laboratory and does he or she meet or exceed the following qualifications? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |  |
|------------|--|-------------------------------------|--------------------------|--|

**NOTE:** *To successfully satisfy Standard 5.4, compliance must be demonstrated with all of the substandards of Standards 5.4.1 through 5.4.2.*

**NOTE:** *Complete Standards 5.4.1 through 5.4.2 for analysts under review. Standard 5.4 and Standards 5.4.1 through 5.4.2 may be marked "Yes" if all analysts have been reviewed and memorialized in at least 2 prior external audit documents.*

- |              |   |   |                             |                          |
|--------------|---|---|-----------------------------|--------------------------|
| <b>5.4.1</b> | Does each analyst reviewed meet or exceed the following degree and educational requirements:                    | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/> |
|              | a. B.A./B.S. or advanced degree or its equivalent in a biology-, chemistry-, or forensic science- related area? | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/> |
|              | b. College coursework covering the subject areas of:  | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/> |
|              | 1. Biochemistry?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                          |

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2. Genetics?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
3. Molecular biology?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
c. For analysts hired/appointed/promoted or qualified (as defined by the laboratory per Standard 4.2) prior to July 1, 2020, college coursework or training that covers the subject areas of statistics and/or population genetics as it applies to forensic DNA analysis? <i>or</i> For analysts hired/appointed/promoted or qualified (as defined by the Laboratory per Standard 4.2) on or after July 1, 2020, successful completion of coursework covering statistics and/or population genetics?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.4.1.1</b> Does each of the specific subject areas listed in Standard 5.4.1 constitute an integral component of any coursework used to demonstrate compliance with this Standard?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.4.1.2</b> For analysts appointed or hired on or after July 1, 2009, do the required subject areas of biochemistry, genetics, and molecular biology consist of nine or more cumulative semester or equivalent hours?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.4.1.3</b> For individuals who have completed coursework with titles other than those listed in Standard 5.4.1, has compliance with this Standard been demonstrated through a combination of pertinent materials such as a syllabus, letter from the instructor, or other documentation that supports the course content, and has the technical leader approved compliance with this Standard?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.4.2</b> Does each analyst have six months of forensic human DNA laboratory experience?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. Has each analyst successfully completed the laboratory's required training?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>Yes</b>		<b>No</b>	<b>N/A</b>
<b>5.5</b> Is each technical reviewer an employee or contract employee of the laboratory and meet the education and experience requirements of Standard 5.4?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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**NOTE:** *To successfully satisfy Standard 5.5, compliance must be demonstrated with Standards 5.5.1 and 5.5.2.*

**NOTE:** *Complete Standards 5.5.1 through 5.5.2 for technical reviewers under review. For qualified analysts under review that are authorized to conduct technical reviews, Standards 5.5 through 5.5.2 will be marked "Yes" if compliance with Standard 5.4 was demonstrated.*

**5.5.1** Is each technical reviewer a current or previously qualified analyst? ☒ ☐ ☐

**5.5.2** Has each technical reviewer successfully completed documented training? ☒ ☐ ☐

		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>5.6</b>	Is each technician an employee or contract employee of the laboratory and successfully completed laboratory's documented training program?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>5.7</b>	Has the technical leader verified and approved the education, to include a review of academic transcripts, of each analyst and technical reviewer?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Comment**

**Standard 5.2.1.4 is marked N/A because the Technical Leader does not possess a waiver from the American Society of Crime Laboratory Directors (ASCLD).**

**Standard 5.2.2.a is marked N/A because the Technical Leader was appointed after to July 1, 2009.**

**Standard 5.2.3 is marked N/A because the Technical Leader was appointed prior to July 1, 2020.**

**Standard 5.2.6.a is marked N/A because Technical Leader does not oversee multiple labs.**

**Standards 5.2.7, 5.2.7.1 and 5.2.7.2 are marked N/A because the Technical Leader is not newly appointed to the position.**

**Standard 5.3.6 is marked N/A because the casework CODIS Administrator position of the laboratory has not been vacant since the last external audit.**

**Standard 5.6 is marked N/A because the laboratory does not employ technicians.**

**Standard 6. Training**

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		Yes	No	N/A
<b>6.1</b>	Does the laboratory have a training program documented in a training manual for qualifying all analyst(s) and technician(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b>	<i>To successfully satisfy Standard 6.1, compliance must be demonstrated with all of the substandards of Standards 6.1.</i>			
	Does the laboratory's training program:			
<b>6.1.1</b>	Address all DNA analytical, interpretation, and/or statistical procedures used in the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>6.1.2</b>	Include practical exercises encompassing the examination of a range of samples routinely encountered in casework?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>6.1.3</b>	Teach and assess the technical skills and knowledge required to perform DNA analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>6.1.3.1</b> Does the laboratory's training program for analysts include the skills and knowledge required to conduct a technical review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>6.1.4</b>	Include an assessment of oral communication skills and/or a mock court exercise?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>6.1.5</b>	Include requirements for competency testing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		Yes	No	N/A
<b>6.2</b>	Did the technical leader approve any modifications to an analyst's, technical reviewer's, technician's, or laboratory support personnel's required training based on a documented assessment of the individual's previous training and experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>6.3</b>	Prior to participating in independent casework, did all analysts and technicians, regardless of previous experience, successfully complete competency testing covering the routine DNA methods, interpretation, and/or statistical procedures to be used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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**NOTE:** Complete Standards 6.3.1 through 6.3.2 for analysts under review and technicians that completed the training program since the last external audit. Standards 6.3 through 6.3.2 may be marked "Yes" if all analysts have been reviewed and memorialized in at least 2 prior external audit documents and no technicians have completed training since the last external audit.

**6.3.1** Did the competency testing for a new analyst include a practical component, and written and/or oral components? ☒ ☐ ☐

**6.3.2** Did the competency testing for a new technician include a practical component? ☐ ☐ ☒

**6.4** For an analyst or technician (currently or previously qualified within the laboratory) to be qualified in a new or additional method:

Did the laboratory teach and assess the technical skills and knowledge required to perform the additional method? ☒ ☐ ☐

**6.4.1** Before the use of a new or additional method on forensic samples or casework reference samples: ☒ ☐ ☐

a. Did the analyst and/or technician successfully complete competency testing to the extent of his/her participation in casework analyses? ☒ ☐ ☐

b. Did the competency testing include a practical component? ☒ ☐ ☐

**6.5** For an analyst (currently or previously qualified within the laboratory) to be qualified to interpret data and generate reports for a new or additional technology, typing test kit, platform, or interpretation software:

Did the laboratory teach and assess the technical skills and knowledge required to interpret data, reach conclusions, and generate reports using the additional technology, typing test kit, platform, or interpretation software? ☐ ☐ ☒

**6.5.1** Before the use of a new or additional technology, typing test kit, platform or interpretation software on forensic samples or casework reference samples: ☐ ☐ ☒

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a.	Did the analyst successfully complete competency testing using the additional technology, typing test kit, platform or interpretation software to the extent of his/her participation in casework analyses?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b.	Did the competency testing include a practical component?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
 <b>NOTE:</b> <i>Standard 6.6 may be marked "N/A" for a laboratory that does not have individuals that solely conduct technical reviews.</i>				
<b>6.6</b>	Did a technical reviewer, who is not currently qualified as an analyst in the laboratory, receive training on the case notes, data analysis, interpretation, and reporting criteria for any method, technology, typing test kit, platform, or interpretation software or the legacy technology, typing test kit, platform and/or interpretation software on which they were not previously qualified as an analyst in the laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>6.6.1</b>	Did the technical reviewer successfully complete competency testing before completing a technical review of data and/or reports using the additional method, technology, typing test kit, platform or interpretation software used in casework analyses?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>6.6.1.1</b>	For a contract technical reviewer conducting reviews for an NDIS participating laboratory, was the competency testing administered by the NDIS participating laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
 <b>NOTE:</b> <i>Standards 6.7 through 6.8 may be marked "N/A" for a laboratory that does not reinterpret legacy data.</i>				
<b>6.7</b>	For an analyst to be qualified in reinterpretation of legacy data, for which they were not previously qualified within the laboratory, did the analyst demonstrate the technical skills and knowledge required to interpret data, reach conclusions, and generate reports in the legacy technology, typing test kit, and/or platform?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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**6.7.1** Did the analyst successfully complete competency testing in the legacy technology, typing test kit, and/or platform to the extent of his/her participation in casework analyses? ☒ ☐ ☐

a. Did the competency testing include practical components of reinterpretation? ☒ ☐ ☐

**6.8** Does the laboratory have and follow procedures for maintaining or reestablishing the technical skills and knowledge of analysts and technical reviewers who reinterpret legacy data for which they are qualified or previously qualified and whose external proficiency testing does not include a legacy technology, typing test kit or platform? ☒ ☐ ☐

**6.8.1** Does the technical leader review the documentation of an analyst's or technical reviewer's maintenance or reestablishment of the technical skills and knowledge and authorize the analyst or technical reviewer to reinterpret legacy data for no more than a two year period? ☒ ☐ ☐

		Yes	No	N/A
<b>6.9</b>	Does the technical leader review the training records for each analyst, technician, and/or technical reviewer and approve his/her qualifications prior to independent casework responsibilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<b>6.10</b>	Are each analyst, technician, and/or technical reviewer authorized to independently perform the assigned job responsibilities and the date(s) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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<b>6.11</b>	Do laboratory support personnel have documented training specific to their job function(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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<b>6.12</b>	Does the laboratory have and follow a policy for addressing retraining of personnel when necessary?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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a.	Is the technical leader responsible for evaluating the need for and assessing the extent of retraining and approving the retraining plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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**NOTE:** *Standard 6.12.1 will also be completed for any individual on extended leave for a period that takes them out of the proficiency test cycle.*

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- |               |   |                                     |                          |                                     |
|---------------|---|-------------------------------------|--------------------------|-------------------------------------|
| <b>6.12.1</b> | Did the individual successfully complete competency testing prior to his/her return to participation in casework analyses?                | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| a.            | Did the competency testing include a practical component?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>6.13</b>   | Does the laboratory maintain records on the training, including successful completion of competency testing, of the laboratory personnel? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |

**Comment**

Standard 6.2 is marked N/A because no modified training programs were completed.

Standard 6.3.2 is marked N/A because the laboratory does not employ technicians.

Standard 6.5 and sub-standards are marked N/A because analysts were not qualified to interpret data and generate reports for a new or additional technology, typing test kit, platform or interpretation software.

Standards 6.6 and 6.6.1 are marked N/A because the laboratory does not have individuals that solely performs technical reviews.

Standard 6.6.1.1 is marked N/A because there are no contract technical reviewers.

Standard 6.11 is marked N/A because the laboratory does not have support personnel.

Standards 6.12.1 and 6.12.1.a are marked N/A because the laboratory has not had any staff on extended leave since their last external QAS assessment.

**Standard 7. Facilities and Evidence Control**

- |   |   | Yes                                 | No                       | N/A |
|---|---|-------------------------------------|--------------------------|-----|
| <b>7.1</b>  | Does the laboratory physical space ensure the integrity of the analyses and the evidence? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>NOTE:</b> To successfully satisfy Standard 7.1, the laboratory must demonstrate compliance with all of the substandards of Standard 7.1. |   |                                     |                          |     |
| <b>7.1.1</b>  | Does the laboratory have secure, controlled access areas for evidence storage?            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |

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- |              |  |                                     |                          |                                     |
|--------------|--|-------------------------------------|--------------------------|-------------------------------------|
| <b>7.1.2</b> | Except as provided in Standard 7.1.3.1, are techniques performed prior to polymerase chain reaction (PCR) amplification, such as evidence examinations, DNA extractions, and PCR setup, conducted at separate times or in separate spaces from each another? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| <b>7.1.3</b> | Except as provided in Standard 7.1.3.1, is amplified DNA product, including real-time PCR, generated, processed, and maintained in a room(s) separate from the evidence examination, DNA extractions, and PCR-setup areas?                                   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
|              | a. Are the doors between rooms containing amplified DNA and other areas closed at all times except for passage?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
|              | <b>7.1.3.1</b> Is a Rapid DNA instrument/System used for processing casework reference samples maintained in rooms outside of evidence examination areas or those containing amplified DNA?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>7.2</b>   | Does the laboratory have and follow written procedures for laboratory security?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| <b>7.2.1</b> | Is access to the laboratory controlled and limited in a manner that prevents access to the operational areas by unauthorized personnel?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
|              | a. Do all exterior entrance/exit points have security control that limits entry and access into the operational areas?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
|              | b. Is the distribution of all keys, combinations, and other security devices, documented and limited to the personnel designated by laboratory management?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
|              |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
| <b>7.3</b>   | Does the laboratory have and follow a documented evidence control program to ensure the integrity of physical evidence?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
|              | <b>NOTE:</b> <i>To successfully satisfy Standard 7.3, the laboratory must demonstrate compliance with all of the substandards of Standard 7.3.</i>   |                                     |                          |                                     |
| <b>7.3.1</b> | For evidence and sample identification:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
|              | a. Is all evidence marked with a unique identifier on the evidence package?  |                                     |                          |                                     |

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Yes ☒ No ☐

b. Does the laboratory clearly define what constitutes evidence and what constitutes work product?

Yes ☒ No ☐

c. Does the laboratory have and follow a method to distinguish each sample throughout processing?

Yes ☒ No ☐

**7.3.2** Does the laboratory document and maintain a chain of custody, in written, printed, or electronic format, for all evidence, to include the following? ☒ ☐

a. Signature, initials, or the electronic equivalent of each individual receiving or transferring the evidence?

Yes ☒ No ☐

b. The corresponding date for each transfer?

Yes ☒ No ☐

c. Evidentiary item(s) transferred?

Yes ☒ No ☐

**7.3.3** Does the laboratory have and follow procedures for handling and preserving the evidence and work product designed to minimize loss, contamination, and/or deleterious change of evidence and work product? ☒ ☐

**7.3.3.1** Does the laboratory have and follow procedures for securing evidence and work product in progress? ☒ ☐

**7.3.3.2** Does the laboratory have and follow procedures for properly sealing evidence? ☒ ☐

		Yes	No	N/A
<b>7.4</b>	Does the laboratory have a policy on sample consumption?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>7.4.1</b>	Does the laboratory retain or return a portion of the evidence sample and/or extract, where possible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>7.5</b>	Does the laboratory have and follow documented policies for the disposition of evidence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**

**Standard 7.1.3.1 is marked N/A because the laboratory does not have a Rapid DNA instrument/system.**



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## Standard 8. Validation

	Yes	No	N/A
<b>8.1</b> Does the laboratory use validated methods for DNA analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**NOTE:** To successfully satisfy Standard 8.1, the laboratory must demonstrate compliance with all of the substandards of Standard 8.

	Yes	No	N/A
<b>NOTE:</b> Standards 8.2 and 8.3 and all of the substandards may be marked "N/A" if there are no validations to review since the last external audit. Ensure Standard 8.3.3 is "N/A" prior to marking all Standards of 8.3 as "N/A".			

<b>8.2</b> Have developmental validation studies preceded the use of any new methods implemented for forensic DNA analysis since the last external audit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<b>8.2.1</b> For all validations under review: Have developmental validation studies been performed and documented to include, where applicable:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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a. Characterization of the genetic marker?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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b. Species specificity?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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c. Sensitivity studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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d. Stability studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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e. Case-type samples?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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f. Population studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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g. Mixture studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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h. Precision and accuracy studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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i. PCR-based studies to include?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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1. Reaction conditions?

Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
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2. Assessment of differential and preferential amplification?

Yes ☐ No ☐

3. Effects of multiplexing?

Yes ☐ No ☐

4. Assessment of appropriate controls?

Yes ☐ No ☐

5. Product detection studies?

Yes ☐ No ☐

**8.2.2** Are peer-reviewed publication(s) of the underlying scientific principle(s) of a method available?

☒ ☐ ☐

**Yes No N/A**

**8.3** Except as provided in Standard 8.3.1.1, have internal validation of all manual and robotic methods been conducted by each laboratory?

☒ ☐ ☐

a. Were the appropriate sample number and type to demonstrate the reliability and potential limitations of the method used?

☒ ☐ ☐

**NOTE:** To successfully satisfy Standard 8.3, the laboratory must demonstrate compliance with all of the substandards of Standard 8.3.

**8.3.1** Have internal validation studies included, as applicable:

☒ ☐ ☐

1. Known and non-probative evidence samples or mock evidence samples?

Yes ☒ No ☐ N/A ☐

2. Precision and Accuracy studies?

Yes ☒ No ☐ N/A ☐

3. Sensitivity and stochastic studies?

Yes ☒ No ☐ N/A ☐

4. Mixture studies?

Yes ☒ No ☐ N/A ☐

5. Contamination assessment studies?

Yes ☒ No ☐ N/A ☐

**8.3.1.1** For multi-laboratory systems:

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a.	Are the summaries of all shared validation data available at each site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b.	Has each laboratory in a multi-laboratory system completed, documented, and maintained applicable site-specific studies:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1. Precision studies?				
	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>			
2. Sensitivity studies?				
	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>			
3. Contamination assessment studies?				
	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>			
<b>8.3.2</b>	Have quality assurance parameters and interpretation guidelines been defined pursuant to internal validation? Including, as applicable:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a.	Guidelines for mixture interpretation?			
	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>			
b.	Application of appropriate statistical calculations?			
	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>			
<b>8.3.2.1</b>	Do mixture interpretation validation studies include:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a.	A range of the number of contributors?			
	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>			
b.	A range of template amounts?			
	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>			
c.	Mixture ratios expected to be interpreted in casework?			
	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>			
<b>8.3.3</b>	If a laboratory has had a change in platform instrument model or typing test kit (or laboratory assembled equivalent), have internal validation studies been performed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>8.3.4</b>	Have internal validation studies been documented and summarized?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a.	Were internal validation studies reviewed and approved by the laboratory's technical leader prior to implementation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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		Yes	No	N/A
<b>8.4</b>	Have newly validated DNA methods (from amplification through characterization), typing test kit, or platform instrument model been checked against an appropriate and available certified reference material (or sample made traceable to the certified reference material) prior to the implementation of the method?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>8.5</b>	Have modified procedures been evaluated by comparison with the original procedures using similar DNA samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Was the evaluation documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Was the evaluation reviewed and approved by the technical leader prior to the implementation of the modified procedure into casework applications?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>8.6</b>	Were Rapid DNA instruments used for modified Rapid DNA analysis on casework reference samples validated in accordance with Standard 8?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>8.7</b>	Have NDIS approved Rapid DNA Systems undergone a performance check prior to use on casework reference samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

		Yes	No	N/A
<b>8.8</b>	Is new software or new modules of existing software and modifications to software evaluated to assess the suitability of the software for its intended use in the laboratory and to determine the necessity of validation studies or software testing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Is the evaluation documented and does it include the determination of which studies will and will not be conducted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**NOTE:** *Standards 8.8.1 through Standards 8.8.2 and all of the substandards may be marked "N/A" if there are no software validations to review since the last external audit.*

<b>8.8.1</b>	Is new software or new modules of existing software that are used as a component of instrumentation, for the analysis and/or interpretation of DNA data, or for statistical calculations subject to developmental validation prior to implementation in forensic DNA analysis?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>8.8.1.1</b>	With the exception of legally protected information, are the underlying scientific	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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principle(s) utilized by software with an impact on the analytical process, interpretation, or statistical calculations publicly available for review or published in a peer-reviewed scientific journal?

**8.8.1.2** Do the developmental software validation studies for new software or new modules of existing software used as a component of instrumentation include, at a minimum: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

**8.8.1.3** Do the developmental software validation studies for new software or new modules of existing software for the analysis and/or interpretation of DNA data include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Accuracy studies (as applicable)?

Yes ☐ No ☐ N/A ☒

d. Precision studies (as applicable)?

Yes ☐ No ☐ N/A ☒

e. Sensitivity studies (as applicable)?

Yes ☐ No ☐ N/A ☒

f. Specificity studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.1.4** Do the developmental software validation studies for new software or new modules of existing software for statistical calculations include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

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Yes ☐ No ☐

c. Accuracy studies (as applicable)?

Yes ☐ No ☐ N/A ☒

d. Precision studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.2**

Is new software or new modules of existing software that are used as a component of instrumentation, for the analysis and/or interpretation of DNA data, or for statistical calculations subject to internal validation specific to the laboratory's intended use prior to implementation in forensic DNA analysis?

**Yes No N/A**

☐ ☐ ☒

**8.8.2.1** Do the internal software validation studies for new software or new modules of existing software used as a component of instrumentation include:

☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

**8.8.2.2** Do the internal software validation studies for new software or new modules of existing software for the analysis and/or interpretation of DNA data include:

☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Precision and accuracy studies (as applicable)?

Yes ☐ No ☐ N/A ☒

d. Sensitivity studies (as applicable)

Yes ☐ No ☐ N/A ☒

e. Specificity studies (as applicable)?

Yes ☐ No ☐ N/A ☒

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**8.8.2.3** Do the internal software validation studies for new software or new modules of existing software for statistical calculations include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Precision and accuracy studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.2.4** Does software that does not impact the analytical process, interpretation, or statistical calculations undergo, at a minimum, a functional test? ☐ ☐ ☒

**Yes No N/A**

**NOTE:** Standards 8.8.3 and all of the substandards may be marked "N/A" if there are no modifications to software since the last external audit.

**8.8.3** Are any modifications to software as described in Standards 8.8.1 and 8.8.2 evaluated to determine if the modifications result in major or minor revisions to the software? ☒ ☐ ☐

**8.8.3.1** Are any major revisions to software used as a component of instrumentation validated prior to implementation, to include: ☒ ☐ ☐

a. Functional testing?

Yes ☒ No ☐

b. Reliability testing?

Yes ☒ No ☐

c. Regression testing?

Yes ☒ No ☐

**8.8.3.2** Are any major revisions to software used for the analysis and/or interpretation of DNA data validated prior to implementation, to include: ☒ ☐ ☐

a. Functional testing?

Yes ☒ No ☐

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b. Reliability testing?

Yes ☒ No ☐

c. Regression testing?

Yes ☒ No ☐

d. Precision and accuracy studies (as applicable)?

Yes ☒ No ☐ N/A ☐

e. Sensitivity studies (as applicable)?

Yes ☒ No ☐ N/A ☐

f. Specificity studies (as applicable)?

Yes ☒ No ☐ N/A ☐

**8.8.3.3** Are any major revisions to software used for ☒ ☐ ☐  
statistical calculations validated prior to  
implementation, to include:

a. Functional testing?

Yes ☒ No ☐

b. Reliability testing?

Yes ☒ No ☐

c. Regression testing?

Yes ☒ No ☐

d. Precision and accuracy studies (as applicable)?

Yes ☒ No ☐ N/A ☐

**8.8.3.4** Do any minor revisions to software that does not ☒ ☐ ☐  
impact the analytical process, interpretation, or  
statistical calculations undergo, at a minimum, a  
functional test?

**8.8.4** For multi-laboratory systems:

a. Are the summaries of shared software validation and software testing data available at each site?

**Yes No N/A**

☐ ☐ ☒

b. Has each laboratory in a multi-laboratory system completed, documented, and maintained applicable site-specific reliability testing?

☐ ☐ ☒

☐ ☐ ☒

**8.8.5** Is all software validation and testing documented and ☒ ☐ ☐



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reviewed and approved by the technical leader prior to implementation?

	Yes	No	N/A
<b>8.9</b> Are developmental validation studies, internal validation studies, modified procedure evaluations, and software testing, including the documented approval of the technical leader, available for review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Comment**

Standard 8.2.1 and all sub-standards are marked N/A because the laboratory has not conducted developmental validations since the last external audit.

Standard 8.3.1.1 and all sub-standards are marked N/A because the lab is not a multi-lab system.

Standards 8.3.2.a and 8.3.2.b are marked N/A because the lab has not done internal validations impacting mixture interpretation or statistical calculations.

Standard 8.3.2.1 and all sub-standards are marked N/A because the lab has not conducted any mixture interpretation validation studies.

Standard 8.3.3 is marked N/A because the lab has not had a change in platform instrument model or typing test kit.

Standard 8.4 is marked N/A because there were no newly validated DNA methods since the last external audit.

Standards 8.6 and 8.7 are marked N/A because the lab does not utilize a Rapid DNA System.

Standards 8.8.1 through 8.8.2 and all sub-standards are marked N/A because the lab has not validated any new software or software modules.

Standard 8.8.4 and all sub-standards are marked N/A because the laboratory is not a multi laboratory system.

**Standard 9. Analytical Procedures**

	Yes	No	N/A
<b>9.1</b> Does the laboratory have and follow written analytical procedures supported by the internal validations and approved by the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b> To successfully satisfy Standard 9.1, the laboratory must demonstrate compliance with all of the substandards of Standard 9.1.			
<b>9.1.1</b> Does the laboratory have and follow a documented standard operating procedure for each analytical method	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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used?

- a. Do the analytical procedures include the appropriate analytical controls required for DNA analysis and data interpretation? ☒ ☐

**Yes No N/A**

- 9.2** Does the laboratory use reagents that are suitable for the methods employed? ☒ ☐

**NOTE:** To successfully satisfy Standard 9.2, the laboratory must demonstrate compliance with all of the substandards of Standard 9.2.

- 9.2.1** Does the laboratory have written procedures for documenting commercial reagents and for the formulation of in-house reagents? ☒ ☐

- 9.2.2** Are commercial reagents labeled with: ☒ ☐ ☐

- a. The identity of the reagent?

Yes ☒ No ☐

- b. The expiration date as provided by the manufacturer or as determined by the laboratory?

Yes ☒ No ☐

- 9.2.3** Are in-house reagents labeled with: ☒ ☐ ☐

- a. The identity of the reagent?

Yes ☒ No ☐

- b. The date of the preparation and/or expiration?

Yes ☒ No ☐

- c. The identity of the individual preparing the reagent?

Yes ☒ No ☐

**Yes No N/A**

- 9.3** Does the laboratory identify critical reagents and evaluate them prior to use in casework? ☒ ☐

- 9.3.1** Has the laboratory identified and evaluated the following: ☒ ☐ ☐

- a. Test kits (or systems) for performing quantification?

Yes ☒ No ☐ N/A ☐

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b. Test kits (or systems) for performing amplification?

Yes ☒ No ☐ N/A ☐

**9.3.2** If not tested as test kit components under Standard 9.3.1, has the laboratory identified and evaluated the following: ☐ ☐ ☒

a. Thermostable DNA polymerase?

Yes ☐ No ☐ N/A ☒

b. Primer sets?

Yes ☐ No ☐ N/A ☒

c. Allelic ladders used for genetic analysis?

Yes ☐ No ☐ N/A ☒

**9.3.3** Has the laboratory identified and evaluated Rapid DNA cartridges? ☐ ☐ ☒

**9.3.4** Has the laboratory identified and evaluated other laboratory defined critical reagents? ☒ ☐ ☐

**Yes No N/A**

**9.4** Except as provided in Standard 9.4.1, does the laboratory quantify or otherwise calculate the amount of human DNA in forensic samples prior to nuclear DNA amplification? ☒ ☐ ☐

**9.4.1** If quantification of human DNA for casework reference samples is not performed, does the laboratory have a validated system demonstrated to reliably yield successful DNA amplification and typing without prior quantification? ☐ ☐ ☒

**9.5** With all analytical procedures except Rapid DNA instruments/Systems used to analyze casework reference samples pursuant to Standards 9.7 and 9.8, does the laboratory monitor the analytical procedures using appropriate controls and standards? ☒ ☐

**NOTE:** *The use of Rapid DNA instruments/Systems to analyze casework reference samples is pursuant to Standards 9.7 and/or 9.8.*

**9.5.1** Are reagent blank controls associated with each extraction set being analyzed as follows: ☒ ☐

**9.5.1.1** Extracted concurrently and treated with the most sensitive conditions as the samples? ☒ ☐

**9.5.1.2** Are the reagent blanks amplified using: ☒ ☐

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a. The same typing test kit as the sample(s)?

Yes ☒ No ☐

b. The same instrument model as the sample(s)?

Yes ☒ No ☐

c. The same sensitivity conditions as required by the sample(s) containing the least amount of DNA?

Yes ☒ No ☐

**9.5.1.3** Are the reagent blanks typed using:

☒ ☐

a. The same instrument model as the sample(s)?

Yes ☒ No ☐

b. The same injection conditions as the sample(s)?

Yes ☒ No ☐

c. The most sensitive volume conditions of the extraction set?

Yes ☒ No ☐

**9.5.2** When quantification is used, are standards used?

☒ ☐ ☐

a. If a virtual or external standard curve is utilized, is a calibrator run concurrently with the samples?

☐ ☐ ☒

**9.5.3** Are the positive and negative amplification controls associated with the samples being typed amplified concurrently using the same typing test kit and on the same instrument as the samples?

☒ ☐

**9.5.3.1** Except as provided in 9.5.4.1, are the positive and negative amplification controls associated with the samples typed?

☒ ☐

**9.5.4** For laboratories performing sequencing, are positive and negative sequencing controls concurrently sequenced using the same typing test kit on the same instrument as the samples?

☐ ☐ ☒

**9.5.4.1** If the positive amplification control is not used as the positive sequencing control, does the laboratory have and follow procedures for the evaluation of the positive amplification control?

☐ ☐ ☒

**9.5.5** Are allelic ladders and internal size standards used for PCR-based systems?

☒ ☐ ☐

**Yes No N/A**

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<b>9.6</b>	Does the laboratory have and follow written guidelines for the interpretation of data that are based on and supported by internal validation studies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Does the laboratory:			
<b>9.6.1</b>	Have criteria to evaluate quantification standards, internal size standards, allelic ladders, and analytical controls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.6.2</b>	Have criteria for the interpretation of non-allelic peaks/signal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.6.3</b>	Have criteria for the interpretation of allelic peaks/signal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.6.4</b>	Define the thresholds used for interpretation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	As appropriate to the interpretation model utilized, does the laboratory establish the following thresholds:			
	<b>9.6.4.1</b> Analytical Threshold?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>9.6.4.2</b> Stochastic Threshold?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.6.5</b>	Define criteria for uninterpretable data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.6.6</b>	Have and follow procedures for mixture interpretation to include the following:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Assessment of the number of contributors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Separation of contributors (e.g. major versus minor)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Criteria for deducing potential contributors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>9.7</b>	For modified Rapid DNA analysis, does the laboratory:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.7.1</b>	Have and follow written guidelines for the manual interpretation of data?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>9.7.1.1</b> Does the laboratory verify that the internal size standard and allelic ladder results meet the laboratory's interpretation guidelines?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.7.2</b>	Have and follow procedures to address the use of positive sample controls and negative sample controls?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.8</b>	For Rapid DNA analysis, does the laboratory have and follow procedures to address the use of positive sample controls and negative sample controls?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.8.1</b>	Does the Rapid DNA cartridge include an internal size standard with each sample?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>9.9</b>	Does the laboratory define criteria for the formulation of inclusionary, exclusionary, and inconclusive	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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conclusions?

- |               |   |                                     |                          |                          |
|---------------|---|-------------------------------------|--------------------------|--------------------------|
| <b>9.10</b>   | Does the laboratory have and follow procedures for statistical calculations and the reporting of results and conclusions that address the following:                                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| <b>9.10.1</b> | The assumptions that can be made when formulating conclusions?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| <b>9.10.2</b> | Performing statistical analysis in support of any inclusion that is determined to be relevant in the context of the case?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| <b>9.10.3</b> | Documenting of the genetic loci and assumptions used for statistical calculations, at a minimum, in the case notes?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| <b>9.10.4</b> | Not using uninterpretable data in statistical calculations?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| <b>9.10.5</b> | The approaches to performing statistical calculations?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
|               | <b>9.10.5.1</b> For autosomal STR typing, does the procedure address:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|               | a. Homozygous and heterozygous typing results?  |                                     |                          |                          |
|               | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>   |                                     |                          |                          |
|               | b. Multiple locus profiles?   |                                     |                          |                          |
|               | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>   |                                     |                          |                          |
|               | c. Mixtures?  |                                     |                          |                          |
|               | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>   |                                     |                          |                          |
|               | d. Minimum allele frequencies?  |                                     |                          |                          |
|               | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>   |                                     |                          |                          |
|               | e. Where appropriate, biological relationships?   |                                     |                          |                          |
|               | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>  |                                     |                          |                          |
|               | <b>9.10.5.2</b> For lineage marker testing, does the procedure address parameters specific for the applicable lineage marker statistical calculations?                                | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|               | <b>9.10.5.3</b> Does the laboratory use loci that are shown to be in Hardy-Weinberg equilibrium and statistically unlinked, when using the product rule for statistical calculations? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>9.10.6</b> | The source of the population database(s) used in any statistical calculations?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| <b>9.10.7</b> | The criteria for source attribution declarations, when applicable?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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		Yes	No	N/A
9.11	Does the laboratory have and follow a procedure to address the reinterpretation of legacy data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9.12	Does the laboratory have and follow a procedure for the detection and control of contamination?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9.12.1	Does the laboratory have and follow procedures for cleaning and decontaminating facilities and equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**

**Standards 9.3.2. 9.3.2.a, 9.3.2.b and 9.3.2.c are marked N/A because the lab does not utilize the listed components outside a test kit.**

**Standard 9.3.3 is marked N/A because the lab does not use a Rapid DNA system.**

**Standard 9.4.1 is marked N/A because the lab quantifies reference samples.**

**Standard 9.5.2.a is marked N/A because the lab does not use a virtual or external standard curve.**

**Standards 9.5.4 and 9.5.4.1 are marked N/A because the lab does not perform sequencing.**

**Standard 9.7 and all sub-standards are marked N/A because the lab does not perform modified Rapid DNA analysis.**

**Standards 9.8 and 9.8.1 are marked N/A because the lab does not perform Rapid DNA analysis.**

**Standard 10. Equipment Calibration and Maintenance**

		Yes	No	N/A
10.1	Does the laboratory use equipment that is suitable for the methods employed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b> To successfully satisfy Standard 10.1, the laboratory must demonstrate compliance with all of the substandards of Standard 10.				
10.2	Does the laboratory identify critical equipment or instruments and have and follow a program to ensure they are maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10.2.1	At a minimum, are the following identified as critical:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10.2.1.1	Handheld mechanical pipettes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.2.1.2	A thermometer traceable to national or international standard(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.2.1.3	Incubator/Heat block, used in analytical procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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<b>10.2.1.4</b>	Robotic systems?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.2.1.5</b>	Thermal cycler, including quantitative-PCR?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.6</b>	Thermal cycler temperature verification system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.7</b>	Electrophoresis detection systems, including Genetic Analyzers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.8</b>	Rapid DNA instruments/Systems?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.2.1.9</b>	Any additional instruments or equipment that produce DNA typing results?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>10.3</b>	Does the laboratory have procedures for conducting performance checks and evaluating results of critical equipment or instruments?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>10.3.1</b>	Does the laboratory performance check new critical equipment or instruments, not requiring validation, before use in casework analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Does the laboratory performance check each additional critical instrument, of the same instrument model validated for use in the laboratory, prior to use in casework analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>Equipment or instruments that require validation will be assessed under Standard 8.</i>			
<b>10.3.2</b>	Are the following critical equipment or instruments performance-checked at least annually:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>10.3.2.1</b>	Handheld mechanical pipettes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.2</b>	Incubator/Heat block, used in analytical procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.3</b>	Robotic systems?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.3.2.4</b>	Thermal cycler, including quantitative-PCR?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.5</b>	Thermal cycler temperature verification system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.6</b>	Electrophoresis detection systems, including Genetic Analyzers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.7</b>	Any additional instruments or equipment that produce DNA typing results?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>



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<b>10.3.2.8</b>	Other critical equipment or instruments defined by the laboratory as needing annual performance check?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3</b>	Are the following critical equipment or instruments performance-checked after repair or service:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>10.3.3.1</b>	Robotic systems?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.3.3.2</b>	Thermal cycler, including quantitative-PCR?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3.3</b>	Electrophoresis detection systems, including Genetic Analyzers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3.4</b>	Rapid DNA instruments/Systems?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.3.3.5</b>	Any additional instruments or equipment that produce DNA typing results?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.3.3.6</b>	Other critical equipment or instruments defined by the laboratory as needing performance check after repair or service?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.4</b>	Are Rapid DNA instruments/Systems performance-checked upon installation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.3.5</b>	Are Rapid DNA instruments/Systems performance-checked if the Rapid DNA instrument remains idle longer than the period recommended in the instrument specifications or as established by the laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>10.4</b>	Does the laboratory maintain documentation of maintenance, service, repair, and performance checks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**

**Standards 10.2.1.4, 10.3.2.3, and 10.3.3.1 are marked N/A because the lab does not use a robotic system.**

**Standards 10.2.1.8 and 10.3.3.4 are marked N/A because the lab does not use a Rapid DNA instrument/system.**

**Standards 10.2.1.9, 10.3.2.7, and 10.3.3.5 are marked N/A because the lab does not use any additional instruments to produce typing results.**

**Standards 10.3.4 and 10.3.5 are marked N/A because the lab does not use a Rapid DNA instrument/system.**

**Standard 11. Reports**

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	Yes	No	N/A
<b>11.1</b> Does the laboratory have and follow written procedures for taking and maintaining casework notes to support the conclusions drawn in laboratory reports?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Does the laboratory maintain all analytical documentation generated by technicians and/or analysts related to case analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Does the laboratory retain, in written, printed, or electronic format, sufficient documentation for each technical analysis to support the report conclusions such that another qualified individual can evaluate what was done and interpret the data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Yes	No	N/A
<b>11.2</b> Do casework reports include the following elements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.1</b> Case identifier?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.2</b> Description of evidence examined and identification of samples tested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.3</b> Technology used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.4</b> Loci, sequence region, or amplification system(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.5</b> Results and/or conclusions for each forensic sample tested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.6</b> A quantitative or qualitative interpretative statement to support all inclusions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.7</b> Date of the report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.8</b> Disposition of evidence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.9</b> Signature and title, or equivalent identification, of the person accepting responsibility for the content of the report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	Yes	No	N/A
<b>11.3</b> Does the laboratory maintain the confidentiality of reports, case files, DNA records, and databases, except as otherwise provided by applicable state or federal law?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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**NOTE:** *To successfully satisfy Standard 11.3, the laboratory must demonstrate compliance with all of the substandards of Standard 11.3.*

- |               |   |                                     |                          |
|---------------|---|-------------------------------------|--------------------------|
| <b>11.3.1</b> | Does the laboratory have and follow policies and/or procedures to ensure the privacy of reports, case files, DNA records, and databases?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>11.3.2</b> | Does the laboratory have and follow policies and/or procedures for the release of reports, case files, DNA records, and databases in accordance with applicable state or federal law? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>11.3.3</b> | Does the laboratory have and follow policies and/or procedures for the release of personally identifiable information in accordance with applicable state and federal law?            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Comment**

**Standard 12. Review**

- |               |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
|---------------|--|-------------------------------------|--------------------------|------------|
| <b>12.1</b>   | Does the laboratory have and follow a procedure to conduct and document technical and administrative reviews of all case files and reports to ensure that conclusions and supporting data are reasonable and within the constraints of scientific knowledge? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.1.1</b> | Are all technical reviews conducted by an analyst or technical reviewer that is qualified in the method, technology, typing test kit, platform, and interpretation software being reviewed?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
|               |  |                                     |                          |            |
|               |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
| <b>12.2</b>   | Does the laboratory document the completion of the technical review of forensic casework, and does it include the following elements:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.2.1</b> | A review of all case notes, all worksheets, and the electronic data (or printouts of such data) supporting the results and/or conclusions?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |

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<b>12.2.2</b>	A review of all analytical controls, internal size standards, and allelic ladders to verify that the expected results were obtained, except when using an NDIS approved Rapid DNA System on casework reference samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.2.3</b>	A review of all DNA types to verify that they are supported by the raw or analyzed data (electropherograms or images), except when using an NDIS approved Rapid DNA System on casework reference samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.2.4</b>	A review of all data to verify conclusions (i.e., inclusions, exclusions, inconclusive) are in compliance with laboratory guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.2.5</b>	A review of statistical analysis, if applicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.2.6</b>	A review of the final report's content to verify compliance with Standard 11.2 and that the results and/or conclusions are supported by the data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.2.7</b>	Verification that all profiles entered into CODIS are eligible, have the correct DNA types, and correct specimen category?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>12.2.7.1</b>	Prior to upload to SDIS, entry of a DNA profile into a searchable category of SDIS, or search of SDIS, were the following criteria verified by two concordant assessments by a qualified analyst or technical reviewer:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Eligibility for CODIS?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	b. Correct DNA types?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	c. Appropriate specimen category?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>12.3</b>	Does the laboratory document the completion of the administrative review and does it include the following elements, any or all of which may be included within the technical review process:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.3.1</b>	A review of the case file and final report for clerical accuracy and compliance with Standard 11.2?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.3.2</b>	A review of the chain of custody and disposition of evidence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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		Yes	No	N/A
<b>12.4</b>	Does the laboratory have and follow policy and/or procedure to address unresolved discrepant conclusions between analysts and reviewer(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**NOTE:** Standard 12.5 shall be marked "N/A" for non-NDIS participating laboratories.

<b>12.5</b>	Does the laboratory have and follow a documented procedure for the verification and resolution of database matches?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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**Comment**

### Standard 13. Proficiency Testing

		Yes	No	N/A
<b>13.1</b>	Do analysts, technical reviewers, technicians, and other personnel designated by the technical leader undergo semi-annual external proficiency testing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.1</b>	Are analysts proficiency tested in each technology at least once per calendar year?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.1.1</b>	Has the typing of all CODIS core loci or CODIS core sequence ranges been attempted for each technology performed at least once per calendar year?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.2</b>	Are analysts proficiency tested in each typing test kit at least once per calendar year?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.2.1</b>	Are analysts that are qualified to perform modified Rapid DNA analysis externally proficiency tested on the interpretation of data generated by each Rapid DNA instrument model for each PCR STR typing test kit at least once per calendar year?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>13.1.3</b>	Are individuals that perform analytical procedures on forensic samples or casework reference samples proficiency tested on at least one method in each methodology at least once per calendar year?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.4</b>	Except as provided in Standard 13.1.4.1, is each external proficiency test assigned to and completed by one analyst?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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**13.1.4.1** If technicians and/or a team approach is used for casework examinations, has each analyst been assigned a proficiency test to complete the interpretation and report the results? ☐ ☐ ☒

**NOTE:** *Standard 13.1.5 and the substandards may be marked "N/A" for a laboratory that does not have individuals that solely conduct technical reviews.*

**13.1.5** Are individuals whose sole responsibility is technical review proficiency tested in the technical review of each technology and typing test kit at least once per calendar year? ☐ ☐ ☒

**13.1.5.1** Does the proficiency testing cover the CODIS core loci or CODIS core sequence ranges attempted for each technology at least once per calendar year? ☐ ☐ ☒

**13.1.5.2** Are technical reviewers qualified to review modified Rapid DNA analysis externally proficiency tested on the technical review of data generated by a Rapid DNA instrument model for each PCR STR typing test kit at least once per year? ☐ ☐ ☒

**13.1.5.3** If the technical reviewer is a contract employee conducting technical review for an NDIS participating laboratory, is the proficiency testing administered by an NDIS participating laboratory and reviewed and approved by the technical leader of the NDIS participating laboratory for which the technical reviewer is conducting reviews? ☐ ☐ ☒

**13.1.6** Have newly qualified individuals undergone semi-annual external proficiency testing within eight months of the date of their authorization? ☒ ☐ ☐

	Yes	No	N/A
<b>13.2</b> Does the laboratory use an external proficiency test provider that is accredited to the current applicable standard of the International Organization for Standardization and is the applicable test included on the proficiency test provider's scope of accreditation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Is the external proficiency testing an open proficiency testing program and is it submitted to the proficiency testing provider in order to be included in the provider's published external summary report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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<b>13.3</b>	For purposes of tracking compliance with the proficiency testing requirements, does the laboratory define and consistently use the date that the proficiency test is performed as the received date, assigned date, submitted date, or the due date?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>13.4</b>	Are the following records maintained by the laboratory for proficiency tests:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.1</b>	The test set identifier?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.2</b>	Identity of the analyst, and other participants, if applicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.3</b>	Date of analysis and completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.4</b>	Copies of all data and notes supporting the conclusions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.5</b>	The proficiency test results?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.6</b>	Any discrepancies noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.7</b>	Corrective actions taken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>13.5</b>	Does the laboratory evaluate proficiency test results? At a minimum, are the following criteria included in the evaluation of proficiency test results:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.5.1</b>	Are all reported genotypes, phenotypes, and/or sequences correct or incorrect according to consensus results or are compliant with the laboratory's interpretation guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.5.2</b>	Are inclusions and exclusions correct or incorrect?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.5.3</b>	Are all reported uninterpretable results and/or inconclusive conclusions compliant with written laboratory guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.5.3.1</b>	Has the technical leader reviewed any inconclusive conclusion for compliance with laboratory guidelines?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>13.5.4</b>	Have all final reports been graded as satisfactory or unsatisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.5.4.1</b>	Have all discrepancies/errors and subsequent corrective actions, as applicable, been documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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		Yes	No	N/A
<b>13.6</b>	Have the following been informed of the results of the proficiency test:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.6.1</b>	The proficiency test participant(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.6.2</b>	The technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.6.3</b>	The casework CODIS administrator in the event of non-administrative discrepancies that affect the typing results and/or conclusions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Comment**

**Standard 13.1.2.1 is marked N/A because the lab does not perform Rapid DNA analysis.**

**Standard 13.1.4.1 is marked N/A because the lab does not use a team approach or technicians for casework examinations.**

**Standard 13.1.5 and all sub-standards are marked N/A because the lab does not employ individuals whose sole responsibility is technical review.**

**Standard 13.5.3.1 is marked N/A because no inconclusive conclusions were reported on proficiency tests.**

**Standard 13.5.4.1 is marked N/A because no discrepancies/errors were noted on proficiency tests.**

**Standard 13.6.3 is marked N/A because there were no non-administrative discrepancies.**

**Standard 14. Corrective Action**

		Yes	No	N/A
<b>14.1</b>	Does the laboratory have and follow a policy and/or procedure to address nonconformities detected in casework analysis, proficiency tests, testimony, and audits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Does the laboratory policy and/or procedure define when a nonconformity requires documentation and/or a corrective action plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>14.1.1</b>	Are corrective action plans documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		Yes	No	N/A



**FORENSIC QAS AUDIT DOCUMENT for Erie County Central Police Services Forensics Laboratory**

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- 14.2** Does the laboratory's documented corrective action plan include the following? ☐ ☐ ☒
- a. The identification (when possible) of the cause(s) of the nonconformity?  
Yes ☐ No ☐ N/A ☒
- b. The corrective actions taken with time frames (where applicable)?  
Yes ☐ No ☐ N/A ☒
- c. Preventative measures taken (where applicable) to minimize its reoccurrence?  
Yes ☐ No ☐ N/A ☒
- 14.2.1** Are corrective action plans approved by the technical leader prior to implementation? ☐ ☐ ☒
- 14.2.2** Is the casework CODIS administrator notified when the nonconformity impacts DNA records entered into CODIS? ☐ ☐ ☒

**Comment**

**Standards 14.1.1, 14.2, 14.2.a, 14.2.b, 14.2.c, 14.2.1, 14.2.2 are marked N/A because the laboratory has not had any corrective actions since the last external audit. No corrective actions reviewed during this audit.**

**Standard 15. Audits**

- |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>               |
|---|-------------------------------------|--------------------------|--------------------------|
| <b>15.1</b> Has the laboratory been audited annually in accordance with the Quality Assurance Standards for Forensic DNA Testing Laboratories?                | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| a. Have the annual audits occurred every calendar year at least six months and no more than 18 months apart?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>15.2</b> Has an external audit been conducted at least once every two years?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| a. Was the external audit conducted by one or more auditor(s) who has successfully completed the FBI's DNA auditor training course from a second agency(ies)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**FORENSIC QAS AUDIT DOCUMENT** for Erie County Central Police Services Forensics Laboratory

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- b. Was at least one auditor a current or former analyst previously qualified in the laboratory's current DNA technologies and platforms? ☒ ☐ ☐

**NOTE:** Auditor(s) and their applicable qualifications will be documented in Appendix C.

- 15.2.1** Has the laboratory maintained audit documentation of those analysts, technical reviewers, casework CODIS administrator(s), and technical leader(s) that have had their education, experience, and training qualifications evaluated and approved during two successive, separate external audits? ☒ ☐ ☐

**NOTE:** Approval of an individual's education, experience, and training qualifications shall be documented in Appendix D.

- 15.2.1.1** As of July 1, 2020, has the laboratory maintained audit documentation of those individuals that have had their additional qualification in an additional technology(ies), typing test kit(s), or platform(s) evaluated and approved during one external audit? ☒ ☐ ☐

- 15.2.2** Has the laboratory maintained the audit documentation for validation studies previously evaluated and approved during one external audit? ☒ ☐ ☐

**NOTE:** Approved validation studies shall be documented in Appendix E.

- 15.3** For internal audits, was the internal audit conducted by an audit team with at least one auditor(s) who has successfully completed the FBI's DNA auditor training course? ☒ ☐ ☐

- a. Was at least one audit team member a current or former analyst previously qualified in the laboratory's current DNA technologies and platforms? ☒ ☐ ☐

**NOTE:** Auditor team member(s) and their applicable qualifications will be documented in Appendix C.

- |  | Yes                                 | No                       | N/A |
|--|-------------------------------------|--------------------------|-----|
| <b>15.4</b> Have the internal and/or external audits performed pursuant to Standard 15.1 been conducted using the FBI DNA Quality Assurance Standards Audit Document in effect at that time? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |

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- |               |   |                                     |                          |                          |
|---------------|---|-------------------------------------|--------------------------|--------------------------|
| <b>15.5</b>   | Have internal and external DNA audit documentation and, if applicable, corrective action(s) been reviewed by the technical leader to ensure that findings, if any, were appropriately addressed and has the review been documented? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>15.5.1</b> | Have internal and external audit documentation, and if applicable, corrective action(s) been provided to the casework CODIS administrator?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>15.5.2</b> | For NDIS participating laboratories, did the laboratory provide all external audit documentation and laboratory responses to the FBI within 30 days of the laboratory's receipt of the audit document or report?                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>15.6</b>   | Are previous internal and external audit documents retained and available for inspection during subsequent audits?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**Comments**

**Standard 16. Professional Development**

- |               |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
|---------------|---|-------------------------------------|--------------------------|------------|
| <b>16.1</b>   | Does the laboratory have and follow a documented program to ensure that technical qualifications are maintained through participation in continuing education?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>16.1.1</b> | Does the technical leader, casework CODIS administrator, and each analyst and technical reviewer stay abreast of topics relevant to the field of forensic DNA analysis by having documented attendance at seminars, courses, professional meetings, or documented lectures or classes in relevant subject areas for a minimum of eight cumulative hours each calendar year? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
|               | <b>16.1.1.1</b> Have continuing education hours been documented?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |

**NOTE:** *Attendance at regional, national, or international, conferences with content including topics relevant to the field of forensic DNA analysis shall be deemed to provide a minimum of eight hours of continuing education.*

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<b>16.1.1.2</b>	Has the laboratory maintained documentation of attendance through a mechanism such as certificates, attendance lists, or travel documentation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>16.1.1.3</b>	With the exception of a regional, national, or international conference, has the laboratory maintained documentation of content through a mechanism such as agenda/syllabus, record of presentation content, or curriculum vitae of the presenter?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>16.1.1.4</b>	Has continuing education based on multimedia or internet delivery received approval of the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>16.1.2</b>	Does the laboratory have and follow a program approved by the technical leader for the annual review of scientific literature that documents the analysts' ongoing reading of scientific literature?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>16.1.2.1</b>	Does the laboratory maintain or have physical or electronic access to a collection of current books, reviewed journals, or other literature applicable to DNA analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>16.2</b>	Does the laboratory have and follow a program that documents the annual review of the testimony of each analyst?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>16.2.1</b>	Does this program define elements and mechanisms for testimony review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>16.2.2</b>	Is the testimony review documented and provided to the testifying individual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>16.2.2.1</b>	Are any deficiencies and subsequent corrective actions, as applicable, documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Comment**

**Standard 16.2.2.1 is marked N/A because no deficiencies were identified.**

**STANDARD 17. Outsourcing Ownership**

**Yes No N/A**

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**17.1** Has the vendor laboratory complied with the FBI Quality Assurance Standards for Forensic DNA Testing Laboratories and the accreditation requirements of federal law? ☐ ☐ ☒

**NOTE:** For a vendor laboratory, Standards 17.1.1, 17.2, 17.2.2, and Standards 17.3 and 17.4 and their substandards shall be marked "N/A."

**NOTE:** For an NDIS participating laboratory, if a contract for outsourcing is in place or outsourcing is occurring without a contractual agreement, Standard 17 must be assessed even if no samples were outsourced.

**NOTE:** For an NDIS participating laboratory, Standard 17 may be marked "N/A" if the NDIS participating laboratory has not outsourced any DNA-related services for the purposes of taking ownership in the scope of the audit.

**17.1.1** Has the NDIS participating laboratory that outsources to a vendor laboratory acquired the following documentation from the vendor laboratory, and has this documentation been reviewed by the NDIS participating laboratory's technical leader for: ☐ ☐ ☒

a. Compliance with the FBI Quality Assurance Standards for Forensic DNA Testing Laboratories?

Yes ☐ No ☐

b. Compliance with the accreditation requirements of federal law?

Yes ☐ No ☐

**17.2** Except as provided in Standard 17.2.1 and 17.2.2, since the laboratory's last external audit, did the NDIS participating laboratory's technical leader approve the technical specifications of the outsourcing agreement before it was awarded? ☐ ☐ ☒

**17.2.1** For a vendor laboratory that is performing forensic DNA analysis on behalf of a law enforcement agency or other entity for the purposes of ownership by an NDIS participating laboratory, was documented approval obtained by the vendor laboratory from the appropriate NDIS participating laboratory's technical leader prior to the initiation of analysis? ☐ ☐ ☒

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**17.2.2** For the rare instances where the NDIS participating laboratory is requested to take ownership and no outsourcing agreement exists between either the law enforcement agency, the vendor laboratory or that NDIS participating laboratory, prior to acceptance of ownership of product(s) of forensic DNA analyses from the vendor laboratory has the following been documented by the requested NDIS participating laboratory's technical leader:

☐ ☐ ☒

**17.2.2.1** Approval of the casework CODIS administrator and written permission from the NDIS Custodian for any scenario that involves CODIS entry or searching?

☐ ☐ ☒

**17.2.2.2** Approval of the technical specifications of testing?

☐ ☐ ☒

**17.2.2.3** Review of the documentation of an on-site visit that has occurred within 18 months of the conducted analysis or conduct an on-site visit of the vendor laboratory within 18 months of the conducted analysis?

☐ ☐ ☒

**Yes No N/A**

**17.3** Does the NDIS participating laboratory have and follow a procedure to verify the integrity of the DNA data received for the purposes of taking ownership of DNA data from a vendor laboratory?

☐ ☐ ☒

**17.3.1** Prior to the search of DNA data in SDIS, did an analyst, casework CODIS administrator, or technical reviewer employed by an NDIS participating laboratory review the DNA data to verify specimen eligibility and the correct specimen category for entry into CODIS?

☐ ☐ ☒

**17.3.2** Prior to the upload of DNA data generated by the vendor laboratory to SDIS or the reporting of search results, did an NDIS participating laboratory perform an ownership review of the vendor laboratory's data?

☐ ☐ ☒

a. Was the ownership review performed by an analyst or technical reviewer employed by an NDIS participating laboratory who is qualified in the technology, platform, and typing test kit used to generate the data and who participates in an NDIS laboratory's proficiency testing program?

☐ ☐ ☒

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- |                   |  |                          |                          |                                     |
|-------------------|--|--------------------------|--------------------------|-------------------------------------|
| <b>17.3.2.1</b>   | If the proficiency testing is administered by another NDIS participating laboratory, has the participation in an NDIS participating laboratory's proficiency testing program been reviewed and approved by the technical leader of the NDIS participating laboratory for which the reviewer is conducting ownership reviews? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.3</b>     | Except as provided in Standard 17.3.4, does the ownership review include the following elements:   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.3.1</b>   | A review of all DNA types of which the NDIS participating laboratory will take ownership to verify that they are supported by the raw and/or analyzed data (electropherograms or images)?  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.3.2</b>   | A review of all associated analytical controls, internal size standards and allelic ladders to verify that the expected results were obtained?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.3.3</b>   | A review of the final report (if provided) to verify that the results/conclusions are supported by the data?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.3.4</b>   | For samples to be entered into CODIS, verification of the DNA types, eligibility, and the correct specimen category?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.3.4.1</b> | Is verification of eligibility performed by a current CODIS user?  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.4</b>     | For an NDIS participating laboratory that outsources to a vendor laboratory performing Rapid DNA analysis on casework reference samples using an NDIS approved Rapid DNA System, does the ownership review for data generated by the Rapid DNA System include:   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.4.1</b>   | A review of the final report (if provided) to verify that the results/conclusions are supported by the Rapid DNA System data?  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.4.2</b>   | For samples to be entered into CODIS, verification of the eligibility and the correct specimen category?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.4.2.1</b> | Is verification of eligibility performed by a current CODIS user?  | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.4.3</b>   | A review of the data associated with applicable Rapid DNA System performance checks?   | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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		Yes	No	N/A
<b>17.4</b>	Does the NDIS participating laboratory or multi-laboratory system outsourcing DNA sample(s) to a vendor laboratory or accepting ownership of DNA data from a vendor laboratory have and follow a procedure to perform an on-site visit(s) of the vendor laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>NOTE:</b>	<i>An on-site visit is not required when only technical review services are being provided.</i>			
	Does the procedure to perform an on-site visit include, at a minimum:			
<b>17.4.1</b>	A documented initial on-site visit, to assess the vendor laboratory's ability to perform analysis on outsourced casework, prior to the vendor laboratory's beginning of casework analysis for the NDIS laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>17.4.1.1</b>	Has the on-site visit been performed by the technical leader or designated employee of an NDIS participating laboratory who is a qualified or previously qualified analyst in the technology, platform and typing test kit used to generate the DNA data or has an on-site visit coordinated by a designated FBI employee been evaluated and approved by the NDIS participating laboratory's technical leader?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>17.4.2</b>	An annual on-site visit if the NDIS participating laboratory's outsourcing agreement extends beyond one year?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
a.	Did an annual on-site visit occur every calendar year, with each visit at least six months but no more than 18 months apart?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>17.4.2.1</b>	If an on-site visit conducted by another NDIS participating laboratory using the same technology, platform and typing test kit used to generate the DNA data or coordinated by a designated FBI employee was accepted, did the technical leader of the NDIS participating laboratory document the review and approval of that on-site visit?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Comments**

**Standard 17 and all substandards are marked N/A because the laboratory has not outsourced since the last external audit.**



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Laboratory

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Laboratory

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**Appendix A: Findings and Responses**

To be completed by the audit team (Findings) and laboratory (Responses).

Auditors shall reference any standard found to be in non-compliance in the Findings below. Following the standard, a detailed description of the non-compliance shall be provided.

Comments and/or recommendations shall **not** be included in Appendix A.

Additional pages may be attached, as needed.

**Findings:**

No Findings

**Responses:**

**FORENSIC QAS AUDIT DOCUMENT for** Erie County Central Police Services Forensics Laboratory

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**Appendix B: Contingency Plan Notification Form**

To be completed by the NDIS participating laboratory in the event of:

1. A vacancy in the technical leader position when there is no qualified individual available to serve as the technical leader.
2. The number of qualified analysts falls below two full-time employees who are qualified analysts.

This form shall be used to document various actions relating to the laboratory's contingency plan. In accordance with the FBI Quality Assurance Standards and the NDIS Operational Procedures Manual, the FBI's NDIS Custodian shall be notified of such vacancy within 5 days and provided with the laboratory's contingency plan within 14 days of the vacancy.

Date technical leader position vacated or number of qualified analysts fell below two full-time employees:	
Date NDIS Custodian and, if applicable, State CODIS Administrator Notified: (must be within 5 days of the vacancy)	
Date contingency plan submitted to the FBI: (must be within 14 days of the vacancy)	
Date FBI approval received:	

Contingency plan attached:

FBI conditions for approval attached, if applicable:

Date new casework/database analysis initiated:

Laboratory:

Signed by: \_\_\_\_\_  
(Name and Signature of Person Completing Form)

Date: \_\_\_\_\_

## **Appendix C – Audit Team Self-Verification for QAS Audits**

To be completed by each auditor/audit team member who will be conducting a QAS audit and/or completing the QAS Audit Document.

For external audits, return to the laboratory prior to the scheduled audit date.

For internal audits, maintain in the laboratory's files.

Name: Deedra Hughes

Employer: Mississippi Forensics Laboratory

Title or Position: Assistant Director/CODIS Administrator

Qualifications:

A. Completed FBI DNA Auditor Course:           X Yes           ☐ No

If yes: (*Required for all external auditors*)

Year (If multiple, list at least the most recent.): 2020, 2009, 2004

B. Current or Previously Qualified DNA Analyst:           X Yes           ☐ No

If yes:

1. Was the qualification as a Casework and/or Database Analyst?

Enter the qualifying laboratory(ies).

(If multiple, list at least the most recent for each applicable category.)

X Casework: Mississippi Forensics Laboratory

X Database: Mississippi Forensics Laboratory

2. Technologies Currently or Previously Qualified In (e.g., STR, mtDNA):

STR and YSTR

3. Platforms Currently or Previously Qualified In (e.g., Gel based, CE):

Capillary Electrophoresis

---

**I verify that:**

**The information contained above is correct; and**

**I have read the *Instructions to Audit Team* contained in the applicable Audit Document; and**

**For External Audits, I understand the requirements of Standard 15.2 and**

**I have no conflicts of interest with the laboratory being audited.**

Signed By \_\_\_\_\_

Date \_\_\_\_\_

08/19/2020

## **Appendix C – Audit Team Self-Verification for QAS Audits**

To be completed by each auditor/audit team member who will be conducting a QAS audit and/or completing the QAS Audit Document.

For external audits, return to the laboratory prior to the scheduled audit date.

For internal audits, maintain in the laboratory's files.

Name: Michelle Burns

Employer: Wisconsin Division of Forensic Science

Title or Position: DNA Analyst - Advanced

Qualifications:

A. Completed FBI DNA Auditor Course: ☒ Yes ☐ No

If yes: (Required for all external auditors)

Year (If multiple, list at least the most recent.): 2020

B. Current or Previously Qualified DNA Analyst: ☒ Yes ☐ No

If yes:

1. Was the qualification as a Casework and/or Database Analyst? Enter the qualifying laboratory(ies).

(If multiple, list at least the most recent for each applicable category.)

☒ Casework: Wisconsin State Crime Lab, Bode Technology

☐ Database: [Click here to enter qualifying laboratory.](#)

2. Technologies Currently or Previously Qualified In (e.g., STR, mtDNA):  
STR (STRmix), YSTR

3. Platforms Currently or Previously Qualified In (e.g., Gel based, CE):  
CE

---

**I verify that:**

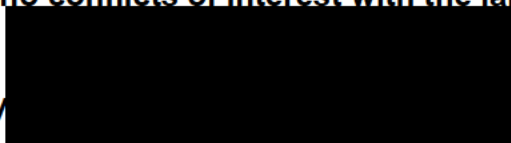
**The information contained above is correct; and**

**I have read the *Instructions to Audit Team* contained in the applicable Audit Document; and**

**For External Audits, I understand the requirements of Standard 15.2 and**

**I have no conflicts of interest with the laboratory being audited.**

**Signed By**



**Date** 08/18/2020

**FORENSIC QAS AUDIT DOCUMENT** for Erie County Central Police Services Forensics Laboratory

**Dates of Audit:** September 9-11, 2020 (VIRTUAL EXTERNAL QAS AUDIT approved by NDIS Custodian August 6, 2020)

**Appendix D – Personnel Meeting Minimum Education, Experience, and Training Qualifications As Assessed By External Audit**

To be completed by the audit team. In accordance with Standards 15.2.1 and 15.2.1.1, this form shall be used to document the evaluation and approval of analysts, technical reviewers, casework CODIS administrators and technical leaders during an external audit. **Such personnel shall be assessed in accordance with the applicable Quality Assurance Standards for Forensic DNA Testing Laboratories (QAS)<sup>1</sup> in effect at the time of their hire/appointment or qualification<sup>2</sup>.** Analysts, technical reviewers, casework CODIS administrators and technical leaders who have previously undergone two successive external audit reviews in his/her current role and those reviews have been captured in the corresponding external audit documents do not need to be continuously captured in Appendix D.

**Section 1** is for documenting personnel who are receiving the **first** external audit approval of their education, experience, and the initial training qualifications in this external audit.

**Section 2** is for documenting personnel who are receiving the **second successive** external audit approval of their education, experience, and the initial training qualifications in this external audit.

**Section 3** is for documenting personnel whose **additional training** in new technologies, typing test kits, and/or platforms is receiving external audit approval in this external audit.

---

**Section 1. The following personnel have been evaluated and approved for the first time as meeting the education, experience, and initial training qualifications required under QAS Standard 5.1:**

Analysts/Technical Reviewers <sup>3</sup>	Casework CODIS Administrator	Technical Leader
Chandra Thompson Victoria Williamson		

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<sup>1</sup> Applicable Quality Assurance Standards for Forensic DNA Testing Laboratories may include those that took effect in 2004, 2009 2011, and 2019.

<sup>2</sup> As defined by the laboratory in accordance with Standard 4.2.

<sup>3</sup> For individuals whose initial training qualification in the laboratory is for Technical Review only (i.e., is not currently or previously qualified as an analyst in the laboratory for which they are performing technical reviews), indicate these individuals as “TR only” in the table.

**FORENSIC QAS AUDIT DOCUMENT for Erie County Central Police Services Forensics Laboratory**

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**Section 2. The following personnel have been previously evaluated once in their current role and are receiving the second successive external audit approval of their education, experience, and initial training qualifications required under QAS Standard 5.1:**

Analysts/Technical Reviewers <sup>3</sup>	Casework CODIS Administrator	Technical Leader
Alison Kraus		

---

**Section 3. The training of Analyst(s)/Technical Reviewer(s) in additional technologies, typing test kits, platforms, and interpretation software for the following personnel have been evaluated and are receiving external audit approval required under QAS Standards 6.5 through 6.6: [please include the technology, typing test kit, or platform]**

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**Appendix E: Approved Validations**

This form may be used to document the evaluation and approval of validations by the external audit team according to **Standard 8**; this documentation to be maintained by the audited laboratory to comply with **Standard 15.2.2**. Modified procedure evaluations and software testing reviewed during the audit will also be listed below.

Validations reviewed during an external audit but not approved in their entirety may be listed in this Appendix with a notation of the study(ies) requiring additional review and approval in order for the validation to be approved.

---

To be completed by the external audit team:

Were new developmental and/or internal validations evaluated during this audit?

Yes ☒

No ☐

List of validations approved during this audit:

PowerQuant

List of modified procedure evaluations reviewed during this audit:

Minimum Amplification Concentration

2 week PowerQuant Standards Verification

YHRD Verification

List of software testing reviewed during this audit:

3500 Data Collection Software v4.0

GeneMapper v1.6

STRmix v2.7



# THE FBI QUALITY ASSURANCE STANDARDS

## AUDIT FOR

### FORENSIC DNA TESTING LABORATORIES

IN ACCORDANCE WITH THE QUALITY ASSURANCE STANDARDS  
FOR FORENSIC DNA TESTING LABORATORIES  
EFFECTIVE JULY 1, 2020

An Audit of: Monroe County Crime Laboratory

Address of Laboratory: 85 West Broad Street, Rochester NY 14614

Dates of Audit: September 21-24, 2020 (VIRTUAL EXTERNAL QAS AUDIT approved by NDIS Custodian Aug 6, 2020)

Type of Audit: External ☒ Internal ☐

Was the audit done in conjunction with an accreditation assessment? Yes ☐ or No ☒

Revision Date of Guidance Document referenced 7/1/2020

Are there findings associated with this audit? Yes ☐ or No ☒

Audit Team: Stewart Raley

Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.

Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.

#### For Laboratory:

Date Final Audit Report Received: Click here to enter a date **October 13, 2020** 

Date Audit Documentation Sent to NDIS: Click here to enter a date or N/A ☐

### **Appendix C – Audit Team Self-Verification for QAS Audits**

To be completed by each auditor/audit team member who will be conducting a QAS audit and/or completing the QAS Audit Document.

For external audits, return to the laboratory prior to the scheduled audit date.

For internal audits, maintain in the laboratory's files.

Name: Stewart Raley

Employer: Arizona Department Of Public Safety

Title or Position: Supervising Forensic Scientist

**Qualifications:**

A. Completed FBI DNA Auditor Course: ☒ Yes ☐ No

If yes: *(Required for all external auditors)*

Year (If multiple, list at least the most recent.): 2003, 2020

B. Current or Previously Qualified DNA Analyst: ☒ Yes ☐ No

If yes:

1. Was the qualification as a Casework and/or Database Analyst?

Enter the qualifying laboratory(ies).

(If multiple, list at least the most recent for each applicable category.)

☒ **Casework:** North Louisiana Crime Lab, AZDPS Crime Lab

☐ **Database:** Click here to enter qualifying laboratory.

2. Technologies Currently or Previously Qualified In (e.g., STR, mtDNA):  
mtDNA, STR, YSTR

3. Platforms Currently or Previously Qualified In (e.g., Gel based, CE):  
Gel Based, CE

---

**I verify that:**

**The information contained above is correct; and**

**I have read the *Instructions to Audit Team* contained in the applicable Audit Document; and**

**For External Audits, I understand the requirements of Standard 15.2 and I have no conflicts of interest with the laboratory being audited.**

Signed By



Date

8/19/2020

# THE FBI QUALITY ASSURANCE STANDARDS

## AUDIT FOR

### FORENSIC DNA TESTING LABORATORIES

IN ACCORDANCE WITH THE QUALITY ASSURANCE STANDARDS  
FOR FORENSIC DNA TESTING LABORATORIES  
EFFECTIVE JULY 1, 2020

An Audit of: Monroe County Crime Laboratory

Address of Laboratory: 85 West Broad Street, Rochester NY 14614

Dates of Audit: September 21-24, 2020 (VIRTUAL EXTERNAL QAS AUDIT approved by NDIS Custodian Aug 6, 2020)

Type of Audit: External ☒ Internal ☐

Was the audit done in conjunction with an accreditation assessment? Yes ☐ or No ☒

Revision Date of Guidance Document referenced 7/1/2020

Are there findings associated with this audit? Yes ☐ or No ☒

Audit Team: Stewart Raley

Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.  
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Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.

**For Laboratory:**

Date Final Audit Report Received: Click here to enter a date

Date Audit Documentation Sent to NDIS: Click here to enter a date or N/A ☐

## **FORENSIC QAS AUDIT DOCUMENT**

### **INTRODUCTION**

The DNA Identification Act of 1994 required the formation of a panel of distinguished professionals, from the public and private sectors, to address issues relevant to forensic DNA applications. This panel, known as the DNA Advisory Board (DAB), first convened in 1995. The mission of the DAB was to develop and implement quality assurance standards for use by forensic DNA testing laboratories. The scope was quickly expanded to include forensic DNA databasing laboratories as well. The DAB fulfilled its statutory responsibilities, recommending separate documents detailing quality assurance standards for both forensic and databasing applications. The "Quality Assurance Standards for Forensic DNA Testing Laboratories" and the "Quality Assurance Standards for Convicted Offender DNA Databasing Laboratories" were issued by the Director of the Federal Bureau of Investigation in October 1998 and April 1999, respectively. The "Quality Assurance Standards for Forensic DNA Testing Laboratories" and the retitled "Quality Assurance Standards for DNA Databasing Laboratories" have become benchmarks for assessing the quality practices and performances of DNA laboratories throughout the country. When the Federal DNA Advisory Board's statutory term expired, it transferred responsibility for recommending revisions of these Quality Assurance Standards to the Scientific Working Group on DNA Analysis Methods (SWGDM).

The DNA Identification Act of 1994 also required that the FBI Laboratory ensure that all DNA laboratories that receive federal grant funds or participate in the National DNA Index System (NDIS) demonstrate compliance with the FBI's Quality Assurance Standards (QAS). A laboratory's documentation of compliance with the QAS is measured through an accreditation/audit process. Such accreditation inspections or audits are performed by forensic scientists, either internal or external to the laboratory, and are intended to evaluate and document compliance with established standards.

Since the issuance of the original QAS, the FBI Laboratory recognized that a uniform interpretation guide would minimize interpretation variability among auditors. For the initial QAS, the FBI Laboratory developed, in collaboration with inspection and accreditation agencies and other interested stakeholders, audit documents for assessing compliance with the required Forensic and Databasing Standards. Previous Audit Documents contained a checklist for assessing compliance with each standard and additional discussion sections with interpretation guidance for laboratories and auditors.

With the 2020 QAS revisions, the QAS discussion sections for the Forensic and Databasing Standards, formerly part of the Audit Documents, have been transitioned into the QAS Guidance Document. The Guidance Document clarifies standards, as needed, and provides additional guidance to assist the laboratory and auditors in determining compliance.

**FORENSIC QAS AUDIT DOCUMENT for Monroe County Crime Laboratory**

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**The Forensic and Databasing QAS and QAS Guidance Document will take effect on January 1, 2020 and are not to be applied retroactively. The Forensic and Databasing QAS are the primary resource for the definitions and quality assurance standards and take precedence over the QAS Guidance Document which should be consulted only for additional clarification as a secondary resource.**

The Forensic and Databasing Audit Documents now contain only the checklists for assessing compliance with each standard. In this Audit Document, the rating system for assessing the laboratory with respect to each standard contains the choices of "Yes" or "No", and, where appropriate, "Not Applicable (N/A)." In Appendix A, the findings associated with the audit will be detailed and summarized by the auditor, with an area available for response to such findings by the laboratory. Notes or comments, including observations and recommendations, are better suited to be mentioned during the exit briefing with laboratory personnel or in a separate letter/memorandum to the laboratory so that these comments are not confused with comments relating to a finding or an explanation of why a particular standard is not applicable.

## **Instructions to Audit Team**

Thank you for participating in this important process intended to evaluate compliance with minimum standards for a quality program for performing forensic DNA analysis.

Starting with audits conducted in accordance with the Quality Assurance Standards effective July 1, 2009, separate Audit Documents are used for forensic and databasing laboratories. If a laboratory performs both functions, each Audit Document must be completed and submitted to the laboratory at the conclusion of the audit process.

Once an external audit has been scheduled, the laboratory being audited should provide the audit team with the Checklist contained on the following pages as soon as possible. The Lead Auditor shall also request a certification (contained in Appendix C) from each auditor on the team and provide them to the laboratory prior to the beginning of the audit. The Lead Auditor shall review the checklist completed by the laboratory and the laboratory shall review the Appendix C for each auditor to ensure that the audit team contains the appropriate number of members to audit the laboratory and that the team members possess the necessary expertise required to audit that laboratory. An auditor or his or her employer who has a contractual relationship (exclusive of audits) with the laboratory being audited shall disclose this fact and recuse himself or herself from performing the audit. The laboratory shall review the auditors' certifications for any potential conflicts of interest.

As a general rule, compliance with a standard is assessed through a review of the laboratory's documentation and interviews with laboratory staff. Documents may be in hard copy, electronic or a combination of both formats. Certificates of qualifications shall not be considered documentation of compliance with these standards. Laboratory personnel's compliance with these standards shall be documented by the auditor(s) in Appendix D. A review of case reports for the laboratory shall include a number of case files randomly selected for each DNA analyst. As appropriate, a minimum of three to five cases per DNA analyst should be reviewed.

When conducting an audit, please keep in mind the following general guidelines:

- Potential issues concerning compliance should be directed to the laboratory's designated points of contact.
- Comments on the laboratory's operations should be reserved for the audit document if a "No" or "N/A" is marked and/or the exit interview with laboratory management; comments should not be made to laboratory staff.
- Contested or contentious issues should be brought to the attention of your Lead Auditor for follow-up, as necessary.

**FORENSIC QAS AUDIT DOCUMENT for Monroe County Crime Laboratory**

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As a general rule,

- Issues deemed minor by the audit team that are addressed during the course of an audit (for example: date or position revisions of a laboratory's organizational chart) may be determined by the auditor to satisfy a non-compliance so that a "Yes" is marked for that standard.
- Non-compliance with a standard identified by the laboratory prior to the audit should be assessed by the audit team for adequate documentation and/or corrective action. If determined to have been appropriately addressed, the auditor may mark the corresponding standard as "Yes".
- Comments should not be included for standards marked "Yes".
- Comments shall be included for standards marked "No" or "N/A".
  - For a standard marked "No", the comment shall describe the non-compliance with sufficient detail so that the laboratory can develop an appropriate corrective action for compliance.
  - For a standard marked "N/A", the comment shall describe why that standard is not applicable to that laboratory.

For additional information pertaining to the interpretation of each standard refer to the QAS Guidance Document. Questions concerning this Audit Document or a specific standard should be directed to the FBI's Combined DNA Index System (CODIS) Unit at [QAS@fbi.gov](mailto:QAS@fbi.gov)

After the audit is completed, the Lead Auditor or auditor(s) briefs DNA laboratory management and the DNA technical leader regarding the results. This briefing should verbally detail specific findings (non-compliances) and observations (general comments and/or recommendations), as well as recognize commendable performances. The written report should be prepared by the Lead Auditor and/or auditor(s) and sent to the laboratory within 30 days of the audit. The Audit Document Report consists of the completed Audit Document Checklist, with any areas of non-compliance listed under the Findings Section of Appendix A. All findings of non-compliance must be clearly identified and referenced to the appropriate standard.

**Recommendations shall not be included in the Audit Document Report. Notes or comments, including observations and recommendations are better suited to be mentioned during the exit briefing with laboratory personnel or in a separate letter/memorandum to the laboratory so that these comments are not confused with comments relating to a finding of non-compliance or an explanation of why a particular standard is not applicable.**

## FORENSIC QAS AUDIT DOCUMENT for Monroe County Crime Laboratory

**Dates of Audit:** September 21-24, 2020 (VIRTUAL EXTERNAL QAS AUDIT approved by NDIS Custodian Aug 6, 2020)

### General Laboratory Information

For an External Audit, to be completed by the laboratory and provided to the audit team prior to the on-site visit.

1. Name of Laboratory: Monroe County Crime Laboratory
2. Jurisdiction: Regional      If Other: [Click here to explain.](#)
3. Uses a Vendor Laboratory: ☒ Yes ☐ No  
If Yes, Bode Technology
4. Uses contract employees: ☐ Yes ☒ No
5. NDIS Participant: ☒ Yes ☐ No  
If No, applying for NDIS Participation: ☐ Yes ☐ No
6. Technologies Used: (Choose those that apply)  
☒ Autosomal STR   ☒ Y STR   ☐ Mito   ☐ SNP  
☐ Other: [Click here to enter text.](#)  
☐ Other: [Click here to enter text.](#)
7. Test Typing Kits Used: GlobalFiler, Yfiler Plus
8. Platform Instrument Models Used: 3500 Genetic Analyzer
9. Validations requiring review under Std 15: ☒ Yes ☐ No
10. Staff (to include contract employees)
  - a. Total # of qualified DNA Analysts/Technical Reviewers: 11
    - i. # of DNA Analysts requiring review under Std 15: 7
  - b. # of DNA Technicians: 0
  - c. # of Laboratory Support Personnel: 0
  - d. DNA Technical Leader: Gail Conklin
    - i. On Site: ☒ Yes ☐ No
    - ii. Hired or Appointed since last external audit: ☒ Yes ☐ No
  - e. Casework CODIS Administrator: Gail Conklin
    - i. Hired or Appointed since last external audit: ☐ Yes ☒ No
11. Date of Last Audit: 5/27/2019
  - a. ☐ External ☒ Internal
  - b. If Internal, Date of Last External Audit: 4/16/2018
  - c. Revision Date of Audit Guidance Document Used: 9/1/2011
12. Uses an Expert System: ☐ Yes ☒ No
  - a. Name & Version of Expert System: [Click here to enter text.](#)
  - b. Test Kit and Instrument: [Click here to enter text.](#)
  - c. Version of Data Collection: [Click here to enter text.](#)
13. Uses a Rapid DNA System: ☐ Yes ☒ No
  - a. Name of Rapid DNA System and Instrument: [Click here to enter text.](#)
  - b. Typing Kit and Cartridge: [Click here to enter text.](#)
  - c. System Software: [Click here to enter text.](#)
  - d. Expert System Software: [Click here to enter text.](#)



**FORENSIC QAS AUDIT DOCUMENT for** Monroe County Crime Laboratory

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**Standard 1. Scope**

No Auditable Requirements

**Standard 2. Definitions**

No Auditable Requirements

**Standard 3. Quality Assurance Program**

		Yes	No	N/A
3.1	Does the laboratory have, follow, and maintain a documented quality system:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Is the quality system appropriate to the testing activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b. Is the quality system equivalent to or more stringent than what is required by these Standards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b> To successfully satisfy Standard 3.1, compliance must be demonstrated with all of the substandards of Standard 3.1.1.				
3.1.1	Is the quality system documented in a manual that includes or references the following elements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.1	Goals and objectives?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.2	Organization and management?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.3	Personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.4	Training?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.5	Facilities and evidence control?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.6	Validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.7	Analytical procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.8	Equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.9	Reports?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.10	Review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.11	Proficiency testing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.12	Corrective action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**FORENSIC QAS AUDIT DOCUMENT for Monroe County Crime Laboratory****Dates of Audit:** September 21-24, 2020 (VIRTUAL EXTERNAL QAS AUDIT approved by NDIS Custodian Aug 6, 2020)

3.1.1.13	Audits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.14	Professional Development?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.15	Outsourcing Ownership?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.2	Does the laboratory maintain and have available on-site any documents referenced within the quality manual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
3.2	Does the laboratory have and follow a policy regarding document retention that specifically addresses:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a.	Proficiency tests?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
b.	Corrective action?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
c.	Audits?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
d.	Training records?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
e.	Continuing education?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
f.	Case files?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
g.	Court testimony monitoring?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
3.3	Does the laboratory perform annual review of its DNA quality system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a.	Is the review independent of the audit required by Standard 15?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b.	Is the review completed under the direction of the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c.	Is the review approved by the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.4	Does the laboratory annually review case files determined by the technical leader to be a representative sample of the cases worked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a.	Is the review independent of an external audit required by Standard 15?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b.	Is the scope of the review defined prior to each annual review and approved by the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**

**FORENSIC QAS AUDIT DOCUMENT for Monroe County Crime Laboratory**

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**Standard 4. Organization and Management**

	Yes	No	N/A
<b>4.1</b> Does the laboratory have:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.1</b> A managerial staff with the authority and resources needed to discharge its duties and meet the requirements of the Standards in this document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.2</b> A technical leader who is accountable for the technical operations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Have at least one technical leader in a multi - laboratory system?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4.1.3</b> A casework CODIS administrator who is accountable for CODIS on-site at each individual laboratory facility using CODIS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.1.4</b> At least two full-time employees who are qualified DNA analysts?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.5</b> Documentation that specifies the responsibility, authority, and interrelation of all personnel who manage, perform, or verify work affecting the validity of the DNA analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.6</b> A documented contingency plan that is approved by laboratory management if the technical leader position is vacated or if the number of qualified DNA analysts falls below the two full-time analyst requirement?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. If applicable, did the laboratory follow the documented contingency plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>NOTE:</b> For an NDIS participating lab, refer to Appendix B for the Contingency Plan Notification Form.			
<b>4.2</b> Does the laboratory define whether the date of hire/appointment/promotion or date of qualification will be used by the laboratory for determining the applicable QAS version for education, experience and training requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**

**4.1.2.a marked N/A because the laboratory is not a part of a multi-laboratory system.**

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**4.1.6.a marked N/A because the technical leader position was not vacated nor did the number of qualified DNA analysts fall below two full-time analysts since last on-site audit.**

**Standard 5. Personnel**

		Yes	No	N/A
<b>5.1</b>	Do laboratory personnel have the education, training, and experience commensurate with the examination and testimony provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b>	<i>To successfully satisfy Standard 5.1, compliance must be demonstrated with all of the substandards of Standard 5.</i>			
<b>5.1.1</b>	Does the laboratory have written job descriptions for all personnel to include responsibilities, duties, and skills?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.1.2</b>	Does the laboratory maintain records on the relevant qualifications, training, skills, and experience of all technical personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		Yes	No	N/A
<b>5.2</b>	Is the technical leader a full-time employee of the laboratory or multi-laboratory system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b>	<i>To successfully satisfy Standard 5.2, compliance must be demonstrated with all of the substandards of Standard 5.2.</i>			
<b>NOTE:</b>	<i>Standard 5.2 and Standards 5.2.1 through 5.2.4 may be marked "Yes" for a TL who has been reviewed and memorialized in at least 2 prior external audit documents.</i>			
<b>5.2.1</b>	Does the technical leader of the laboratory meet or exceed the following degree/educational requirements or have a waiver as allowed for in 5.2.1.4?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>The substandards of Standards 5.2.1 through 5.2.1.3 will be marked "N/A" for a TL who has a waiver as allowed for in 5.2.1.4</i>			
	a. A master's degree in a biology-, chemistry-, or forensic science-related area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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b. Twelve semester hours or equivalent credit hours including a combination of graduate and undergraduate coursework or classes covering the following subject areas:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1. Biochemistry?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
2. Genetics?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
3. Molecular biology?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
4. Statistics / population genetics?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>5.2.1.1</b> Of the 12 semester or equivalent credit hours required, do they include at least one graduate-level course registering 3 or more semester or equivalent credit hours?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.2.1.2</b> Do each of the specific subject areas listed in Standard 5.2.1 constitute an integral component of any coursework used to demonstrate compliance with this Standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.2.1.3</b> For individuals who have completed coursework with titles other than those listed in Standard 5.2.1, have they successfully demonstrated compliance with this Standard through a combination of pertinent materials such as a syllabus, letter from the instructor, or other documentation that supports the course content?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.2.1.4</b> If the degree requirements of Standard 5.2.1 are not met, does the technical leader possess a waiver from the American Society of Crime Laboratory Directors (ASCLD)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>5.2.2</b> Does the technical leader meet or exceed one of the following minimum experience requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. If the technical leader was appointed prior to July 1, 2009, does the technical leader have three years of forensic DNA laboratory experience obtained at a laboratory where forensic DNA testing was conducted for the identification and evaluation of biological evidence in criminal matters?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**FORENSIC QAS AUDIT DOCUMENT for Monroe County Crime Laboratory**

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- b. If the technical leader was appointed on or after July 1, 2009, does the technical leader have a minimum of three years human DNA experience (current or previous) as a qualified analyst on forensic samples? ☒ ☐ ☐

**NOTE:** *Standards 5.2.3 and 5.2.4 may be marked "N/A" if the technical leader has been in the position for less than one year.*

- 5.2.3** If the technical leader was appointed on or after July 1, 2020, was the technical leader a currently or previously qualified analyst in each technology or have documented training in each technology utilized in the laboratory within one year of appointment? ☐ ☐ ☒

- 5.2.4** Has the technical leader successfully completed the FBI-sponsored auditor training within one year of appointment? ☒ ☐ ☐

- |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
|---|-------------------------------------|--------------------------|------------|
| <b>5.2.5</b> Does the technical leader of the laboratory have the following authority and minimum responsibilities:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>5.2.5.1</b> Oversee the technical operations of the laboratory?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>5.2.5.2</b> Authority to initiate, suspend, and resume DNA analytical operations for the laboratory or an individual?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>5.2.5.3</b> Evaluate and approve of all validations and new or modified methods used by the laboratory?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>5.2.5.4</b> Review the training records for newly qualified analysts, technicians and technical reviewers and approve their qualifications prior to independent casework analysis and review, verify, and approve the academic transcripts for newly qualified analysts and technical reviewers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>5.2.5.5</b> Approve the technical specifications for outsourcing agreements?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>5.2.5.6</b> Review internal and external DNA audit documents and, if applicable, approve corrective action(s)?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>5.2.5.7</b> Review annually the procedures of the laboratory?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |

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**5.2.5.8** Review and approve the training, quality assurance, and proficiency testing programs in the laboratory? ☒ ☐

**5.2.5.9** Review potential conflicts of interest when contract employees are employed by multiple NDIS participating and/or vendor laboratories? ☒ ☐

	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>5.2.6</b> Is the technical leader accessible to the laboratory to provide on-site, telephonic, or electronic consultation as needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. If the technical leader oversees a system of separate laboratories, has the technical leader conducted and documented semi-annual on-site visits of each of the laboratories?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>NOTE:</b> Standards 5.2.7, 5.2.7.1 and 5.2.7.2 may be marked "N/A" if the technical leader has been in the position for less than one year.			
<b>5.2.7</b> Has a newly appointed technical leader documented a review of the following within one year of appointment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.2.7.1</b> Validation studies and analytical procedures currently used by the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.2.7.2</b> Educational qualifications and training records of currently qualified analysts and technical reviewers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>5.3</b> Is the casework CODIS administrator an employee of the laboratory and does he or she meet the following qualifications?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**NOTE:** For an audit of a vendor laboratory, Standard 5.3 and all of its substandards will be marked "N/A".

**NOTE:** To successfully satisfy Standard 5.3, compliance must be demonstrated with all of the substandards of Standard 5.3.1 through 5.3.3.

**NOTE:** Standard 5.3 and Standards 5.3.1 through 5.3.3 may be marked "Yes" if the casework CODIS administrator has been reviewed and memorialized in at least 2 prior external audit documents.



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**NOTE:** *Standard 5.3.1 shall be marked "Yes" if the casework CODIS administrator was appointed prior to July 1, 2020.*

**5.3.1** Does the casework CODIS administrator meet or exceed the degree and educational requirements in Standard 5.4? ☒ ☐ ☐

**NOTE:** *Standard 5.3.2 shall be marked "Yes" if the CODIS administrator was appointed prior to July 1, 2009.*

**5.3.2** Is the casework CODIS administrator a current or previously qualified analyst with documented mixture interpretation training? ☒ ☐ ☐

**NOTE:** *Standard 5.3.3 a may be marked "N/A" if the casework CODIS administrator has been in the position for less than six months. Standard 5.3.3 and 5.3.3 b may be marked "N/A" if the casework CODIS administrator has been in the position for less than one year.*

**5.3.3** Has the casework CODIS administrator successfully completed the following training requirements? ☒ ☐ ☐

a. FBI-sponsored CODIS software training within six months of appointment, if not previously completed such training? ☒ ☐ ☐

b. FBI DNA auditor training within one year of appointment, if not previously completed such training? ☒ ☐ ☐

**5.3.4** Is the casework CODIS administrator responsible for the following: **Yes** **No** **N/A**  
☒ ☐ ☐

**5.3.4.1** Administer the laboratory's local CODIS network? ☒ ☐ ☐

**5.3.4.2** Schedule and document the CODIS computer training of casework analysts? ☒ ☐ ☐

**5.3.4.3** Ensure that the security of data stored in CODIS is in accordance with state and/or federal law and NDIS operational procedures? ☒ ☐ ☐

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- |                |   |                                     |                          |                                     |
|----------------|---|-------------------------------------|--------------------------|-------------------------------------|
| <b>5.3.4.4</b> | Ensure that the quality of data stored in CODIS is in accordance with state and/or federal law and NDIS operational procedures?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>5.3.4.5</b> | Ensure that matches are dispositioned in accordance with NDIS operational procedures?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>5.3.5</b>   | Is the casework CODIS administrator authorized to terminate an analyst's or the laboratory's participation in CODIS until the reliability and security of the computer data can be assured if an issue with the data is identified? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>5.3.6</b>   | If the casework CODIS administrator position has been unoccupied since the last audit, has the laboratory refrained from uploading new DNA profiles to NDIS during the vacancy?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Yes      No      N/A**

- |            |  |                                     |                          |  |
|------------|--|-------------------------------------|--------------------------|--|
| <b>5.4</b> | Is each analyst an employee or contract employee of the laboratory and does he or she meet or exceed the following qualifications? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |  |
|------------|--|-------------------------------------|--------------------------|--|

**NOTE:** *To successfully satisfy Standard 5.4, compliance must be demonstrated with all of the substandards of Standards 5.4.1 through 5.4.2.*

**NOTE:** *Complete Standards 5.4.1 through 5.4.2 for analysts under review. Standard 5.4 and Standards 5.4.1 through 5.4.2 may be marked "Yes" if all analysts have been reviewed and memorialized in at least 2 prior external audit documents.*

- |              |  |   |                             |                          |
|--------------|--|---|-----------------------------|--------------------------|
| <b>5.4.1</b> | Does each analyst reviewed meet or exceed the following degree and educational requirements:                 | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/> |
| a.           | B.A./B.S. or advanced degree or its equivalent in a biology-, chemistry-, or forensic science- related area? | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/> |
| b.           | College coursework covering the subject areas of:  | <input checked="" type="checkbox"/>     | <input type="checkbox"/>    | <input type="checkbox"/> |
|              | 1. Biochemistry?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                          |
|              | 2. Genetics?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                          |
|              | 3. Molecular biology?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |                          |

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c.	For analysts hired/appointed/promoted or qualified (as defined by the laboratory per Standard 4.2) prior to July 1, 2020, college coursework or training that covers the subject areas of statistics and/or population genetics as it applies to forensic DNA analysis? <i>or</i> For analysts hired/appointed/promoted or qualified (as defined by the Laboratory per Standard 4.2) on or after July 1, 2020, successful completion of coursework covering statistics and/or population genetics?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.4.1.1</b>	Does each of the specific subject areas listed in Standard 5.4.1 constitute an integral component of any coursework used to demonstrate compliance with this Standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.4.1.2</b>	For analysts appointed or hired on or after July 1, 2009, do the required subject areas of biochemistry, genetics, and molecular biology consist of nine or more cumulative semester or equivalent hours?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.4.1.3</b>	For individuals who have completed coursework with titles other than those listed in Standard 5.4.1, has compliance with this Standard been demonstrated through a combination of pertinent materials such as a syllabus, letter from the instructor, or other documentation that supports the course content, and has the technical leader approved compliance with this Standard?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.4.2</b>	Does each analyst have six months of forensic human DNA laboratory experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a.	Has each analyst successfully completed the laboratory's required training?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>5.5</b>	Is each technical reviewer an employee or contract employee of the laboratory and meet the education and experience requirements of Standard 5.4?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>To successfully satisfy Standard 5.5, compliance must be demonstrated with Standards 5.5.1 and 5.5.2.</i>			

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**NOTE:** Complete Standards 5.5.1 through 5.5.2 for technical reviewers under review. For qualified analysts under review that are authorized to conduct technical reviews, Standards 5.5 through 5.5.2 will be marked "Yes" if compliance with Standard 5.4 was demonstrated.

**5.5.1** Is each technical reviewer a current or previously qualified analyst? ☒ ☐ ☐

**5.5.2** Has each technical reviewer successfully completed documented training? ☒ ☐ ☐

**Yes No N/A**

**5.6** Is each technician an employee or contract employee of the laboratory and successfully completed laboratory's documented training program? ☐ ☐ ☒

**Yes No N/A**

**5.7** Has the technical leader verified and approved the education, to include a review of academic transcripts, of each analyst and technical reviewer? ☒ ☐ ☐

**Comment**

**5.2.1.4 was marked N/A because technical leader meets the degree requirements of 5.2.1.**

**5.2.2.a and 5.2.3 were both marked N/A because the technical leader was appointed after July 1, 2009 and before July 1, 2020, respectively.**

**5.2.6.a was marked N/A because the laboratory is not a part of a multi-laboratory system.**

**5.3.6 was marked N/A because the CODIS administrator position has not been unoccupied since the last audit.**

**5.6 was marked N/A because the laboratory does not employ technicians.**

**Standard 6. Training**

**Yes No N/A**

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- 6.1** Does the laboratory have a training program documented in a training manual for qualifying all analyst(s) and technician(s)? ☒ ☐

**NOTE:** *To successfully satisfy Standard 6.1, compliance must be demonstrated with all of the substandards of Standards 6.1.*

Does the laboratory's training program:

- 6.1.1** Address all DNA analytical, interpretation, and/or statistical procedures used in the laboratory? ☒ ☐
- 6.1.2** Include practical exercises encompassing the examination of a range of samples routinely encountered in casework? ☒ ☐
- 6.1.3** Teach and assess the technical skills and knowledge required to perform DNA analysis? ☒ ☐
- 6.1.3.1** Does the laboratory's training program for analysts include the skills and knowledge required to conduct a technical review? ☒ ☐
- 6.1.4** Include an assessment of oral communication skills and/or a mock court exercise? ☒ ☐
- 6.1.5** Include requirements for competency testing? ☒ ☐

**Yes No N/A**

- 6.2** Did the technical leader approve any modifications to an analyst's, technical reviewer's, technician's, or laboratory support personnel's required training based on a documented assessment of the individual's previous training and experience? ☒ ☐ ☐
- 6.3** Prior to participating in independent casework, did all analysts and technicians, regardless of previous experience, successfully complete competency testing covering the routine DNA methods, interpretation, and/or statistical procedures to be used? ☒ ☐

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**NOTE:** Complete Standards 6.3.1 through 6.3.2 for analysts under review and technicians that completed the training program since the last external audit. Standards 6.3 through 6.3.2 may be marked "Yes" if all analysts have been reviewed and memorialized in at least 2 prior external audit documents and no technicians have completed training since the last external audit.

**6.3.1** Did the competency testing for a new analyst include a practical component, and written and/or oral components? ☒ ☐ ☐

**6.3.2** Did the competency testing for a new technician include a practical component? ☐ ☐ ☒

**6.4** For an analyst or technician (currently or previously qualified within the laboratory) to be qualified in a new or additional method:

Did the laboratory teach and assess the technical skills and knowledge required to perform the additional method? ☒ ☐ ☐

**6.4.1** Before the use of a new or additional method on forensic samples or casework reference samples: ☒ ☐ ☐

a. Did the analyst and/or technician successfully complete competency testing to the extent of his/her participation in casework analyses? ☒ ☐ ☐

b. Did the competency testing include a practical component? ☒ ☐ ☐

**6.5** For an analyst (currently or previously qualified within the laboratory) to be qualified to interpret data and generate reports for a new or additional technology, typing test kit, platform, or interpretation software:

Did the laboratory teach and assess the technical skills and knowledge required to interpret data, reach conclusions, and generate reports using the additional technology, typing test kit, platform, or interpretation software? ☒ ☐ ☐

**6.5.1** Before the use of a new or additional technology, typing test kit, platform or interpretation software on forensic samples or casework reference samples: ☒ ☐ ☐

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	a. Did the analyst successfully complete competency testing using the additional technology, typing test kit, platform or interpretation software to the extent of his/her participation in casework analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Did the competency testing include a practical component?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>NOTE:</b>	<i>Standard 6.6 may be marked "N/A" for a laboratory that does not have individuals that solely conduct technical reviews.</i>			
<b>6.6</b>	Did a technical reviewer, who is not currently qualified as an analyst in the laboratory, receive training on the case notes, data analysis, interpretation, and reporting criteria for any method, technology, typing test kit, platform, or interpretation software or the legacy technology, typing test kit, platform and/or interpretation software on which they were not previously qualified as an analyst in the laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>6.6.1</b>	Did the technical reviewer successfully complete competency testing before completing a technical review of data and/or reports using the additional method, technology, typing test kit, platform or interpretation software used in casework analyses?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>6.6.1.1</b>	For a contract technical reviewer conducting reviews for an NDIS participating laboratory, was the competency testing administered by the NDIS participating laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>NOTE:</b>	<i>Standards 6.7 through 6.8 may be marked "N/A" for a laboratory that does not reinterpret legacy data.</i>			
<b>6.7</b>	For an analyst to be qualified in reinterpretation of legacy data, for which they were not previously qualified within the laboratory, did the analyst demonstrate the technical skills and knowledge required to interpret data, reach conclusions, and generate reports in the legacy technology, typing test kit, and/or platform?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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**6.7.1** Did the analyst successfully complete competency testing in the legacy technology, typing test kit, and/or platform to the extent of his/her participation in casework analyses? ☐ ☐ ☒

a. Did the competency testing include practical components of reinterpretation? ☐ ☐ ☒

**6.8** Does the laboratory have and follow procedures for maintaining or reestablishing the technical skills and knowledge of analysts and technical reviewers who reinterpret legacy data for which they are qualified or previously qualified and whose external proficiency testing does not include a legacy technology, typing test kit or platform? ☐ ☐ ☒

**6.8.1** Does the technical leader review the documentation of an analyst's or technical reviewer's maintenance or reestablishment of the technical skills and knowledge and authorize the analyst or technical reviewer to reinterpret legacy data for no more than a two year period? ☐ ☐ ☒

		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>6.9</b>	Does the technical leader review the training records for each analyst, technician, and/or technical reviewer and approve his/her qualifications prior to independent casework responsibilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<b>6.10</b>	Are each analyst, technician, and/or technical reviewer authorized to independently perform the assigned job responsibilities and the date(s) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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<b>6.11</b>	Do laboratory support personnel have documented training specific to their job function(s)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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<b>6.12</b>	Does the laboratory have and follow a policy for addressing retraining of personnel when necessary?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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a.	Is the technical leader responsible for evaluating the need for and assessing the extent of retraining and approving the retraining plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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**NOTE:** *Standard 6.12.1 will also be completed for any individual on extended leave for a period that takes them out of the proficiency test cycle.*



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- |               |   |                                     |                          |                          |
|---------------|---|-------------------------------------|--------------------------|--------------------------|
| <b>6.12.1</b> | Did the individual successfully complete competency testing prior to his/her return to participation in casework analyses?                | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| a.            | Did the competency testing include a practical component?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>6.13</b>   | Does the laboratory maintain records on the training, including successful completion of competency testing, of the laboratory personnel? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |

**Comment**

**6.3.2 was marked N/A because the laboratory does not currently employ technicians.**

**6.6 and all of the substandards were marked N/A because the laboratory does not have individuals that solely conduct technical reviews.**

**6.7, 6.8 and all of the substandards were marked N/A because the laboratory does not interpret legacy data.**

**6.11 was marked N/A because the laboratory does not employ laboratory support personnel.**

**Standard 7. Facilities and Evidence Control**

- |  |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
|--|--|-------------------------------------|--------------------------|------------|
| <b>7.1</b>   | Does the laboratory physical space ensure the integrity of the analyses and the evidence?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>NOTE:</b> <i>To successfully satisfy Standard 7.1, the laboratory must demonstrate compliance with all of the substandards of Standard 7.1.</i> |  |                                     |                          |            |
| <b>7.1.1</b>   | Does the laboratory have secure, controlled access areas for evidence storage?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>7.1.2</b>   | Except as provided in Standard 7.1.3.1, are techniques performed prior to polymerase chain reaction (PCR) amplification, such as evidence examinations, DNA extractions, and PCR setup, conducted at separate times or in separate spaces from each another? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |

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<b>7.1.3</b>	Except as provided in Standard 7.1.3.1, is amplified DNA product, including real-time PCR, generated, processed, and maintained in a room(s) separate from the evidence examination, DNA extractions, and PCR-setup areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a.	Are the doors between rooms containing amplified DNA and other areas closed at all times except for passage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>7.1.3.1</b>	Is a Rapid DNA instrument/System used for processing casework reference samples maintained in rooms outside of evidence examination areas or those containing amplified DNA?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>7.2</b>	Does the laboratory have and follow written procedures for laboratory security?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>7.2.1</b>	Is access to the laboratory controlled and limited in a manner that prevents access to the operational areas by unauthorized personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a.	Do all exterior entrance/exit points have security control that limits entry and access into the operational areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b.	Is the distribution of all keys, combinations, and other security devices, documented and limited to the personnel designated by laboratory management?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>7.3</b>	Does the laboratory have and follow a documented evidence control program to ensure the integrity of physical evidence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b>	<i>To successfully satisfy Standard 7.3, the laboratory must demonstrate compliance with all of the substandards of Standard 7.3.</i>			
<b>7.3.1</b>	For evidence and sample identification:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a.	Is all evidence marked with a unique identifier on the evidence package?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
b.	Does the laboratory clearly define what constitutes evidence and what constitutes work product?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

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	c. Does the laboratory have and follow a method to distinguish each sample throughout processing?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>		
<b>7.3.2</b>	Does the laboratory document and maintain a chain of custody, in written, printed, or electronic format, for all evidence, to include the following:		<input checked="" type="checkbox"/>		<input type="checkbox"/>		
	a. Signature, initials, or the electronic equivalent of each individual receiving or transferring the evidence?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>		
	b. The corresponding date for each transfer?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>		
	c. Evidentiary item(s) transferred?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>		
<b>7.3.3</b>	Does the laboratory have and follow procedures for handling and preserving the evidence and work product designed to minimize loss, contamination, and/or deleterious change of evidence and work product?		<input checked="" type="checkbox"/>		<input type="checkbox"/>		
	<b>7.3.3.1</b> Does the laboratory have and follow procedures for securing evidence and work product in progress?		<input checked="" type="checkbox"/>		<input type="checkbox"/>		
	<b>7.3.3.2</b> Does the laboratory have and follow procedures for properly sealing evidence?		<input checked="" type="checkbox"/>		<input type="checkbox"/>		
		<b>Yes</b>		<b>No</b>		<b>N/A</b>	
<b>7.4</b>	Does the laboratory have a policy on sample consumption?		<input checked="" type="checkbox"/>		<input type="checkbox"/>		
<b>7.4.1</b>	Does the laboratory retain or return a portion of the evidence sample and/or extract, where possible?		<input checked="" type="checkbox"/>		<input type="checkbox"/>		
<b>7.5</b>	Does the laboratory have and follow documented policies for the disposition of evidence?		<input checked="" type="checkbox"/>		<input type="checkbox"/>		

**Comment**

**7.1.3.1 marked N/A because the laboratory does not use a Rapid DNA Instrument/System.**

**Standard 8. Validation**

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	Yes	No	N/A
<b>8.1</b> Does the laboratory use validated methods for DNA analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**NOTE:** To successfully satisfy Standard 8.1, the laboratory must demonstrate compliance with all of the substandards of Standard 8.

	Yes	No	N/A
<b>NOTE:</b> Standards 8.2 and 8.3 and all of the substandards may be marked "N/A" if there are no validations to review since the last external audit. Ensure Standard 8.3.3 is "N/A" prior to marking all Standards of 8.3 as "N/A".			

<b>8.2</b> Have developmental validation studies preceded the use of any new methods implemented for forensic DNA analysis since the last external audit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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<b>8.2.1</b> For all validations under review: Have developmental validation studies been performed and documented to include, where applicable:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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a. Characterization of the genetic marker?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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b. Species specificity?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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c. Sensitivity studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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d. Stability studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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e. Case-type samples?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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f. Population studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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g. Mixture studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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h. Precision and accuracy studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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i. PCR-based studies to include?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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1. Reaction conditions?

Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
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2. Assessment of differential and preferential amplification?

Yes	<input type="checkbox"/>	No	<input type="checkbox"/>
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3. Effects of multiplexing?

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Yes ☐ No ☐

4. Assessment of appropriate controls?

Yes ☐ No ☐

5. Product detection studies?

Yes ☐ No ☐

**8.2.2** Are peer-reviewed publication(s) of the underlying scientific principle(s) of a method available? ☒ ☐ ☐

**Yes No N/A**

**8.3** Except as provided in Standard 8.3.1.1, have internal validation of all manual and robotic methods been conducted by each laboratory? ☒ ☐ ☐

a. Were the appropriate sample number and type to demonstrate the reliability and potential limitations of the method used? ☒ ☐ ☐

**NOTE:** To successfully satisfy Standard 8.3, the laboratory must demonstrate compliance with all of the substandards of Standard 8.3.

**8.3.1** Have internal validation studies included, as applicable: ☒ ☐ ☐

1. Known and non-probative evidence samples or mock evidence samples?

Yes ☒ No ☐ N/A ☐

2. Precision and Accuracy studies?

Yes ☒ No ☐ N/A ☐

3. Sensitivity and stochastic studies?

Yes ☒ No ☐ N/A ☐

4. Mixture studies?

Yes ☒ No ☐ N/A ☐

5. Contamination assessment studies?

Yes ☒ No ☐ N/A ☐

**8.3.1.1** For multi-laboratory systems:

a. Are the summaries of all shared validation data available at each site? ☐ ☐ ☒

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b. Has each laboratory in a multi-laboratory system completed, documented, and maintained applicable site-specific studies:		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1. Precision studies?				
		Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
2. Sensitivity studies?				
		Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
3. Contamination assessment studies?				
		Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
<b>8.3.2</b>	Have quality assurance parameters and interpretation guidelines been defined pursuant to internal validation? Including, as applicable:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. Guidelines for mixture interpretation?				
		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
b. Application of appropriate statistical calculations?				
		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
<b>8.3.2.1</b>	Do mixture interpretation validation studies include:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. A range of the number of contributors?				
		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
b. A range of template amounts?				
		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
c. Mixture ratios expected to be interpreted in casework?				
		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
<b>8.3.3</b>	If a laboratory has had a change in platform instrument model or typing test kit (or laboratory assembled equivalent), have internal validation studies been performed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>8.3.4</b>	Have internal validation studies been documented and summarized?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. Were internal validation studies reviewed and approved by the laboratory's technical leader prior to implementation?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>

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**8.4** Have newly validated DNA methods (from amplification through characterization), typing test kit, or platform instrument model been checked against an appropriate and available certified reference material (or sample made traceable to the certified reference material) prior to the implementation of the method? ☒ ☐ ☐

**8.5** Have modified procedures been evaluated by comparison with the original procedures using similar DNA samples? ☒ ☐ ☐

a. Was the evaluation documented? ☒ ☐ ☐

b. Was the evaluation reviewed and approved by the technical leader prior to the implementation of the modified procedure into casework applications? ☒ ☐ ☐

**8.6** Were Rapid DNA instruments used for modified Rapid DNA analysis on casework reference samples validated in accordance with Standard 8? ☐ ☐ ☒

**8.7** Have NDIS approved Rapid DNA Systems undergone a performance check prior to use on casework reference samples? ☐ ☐ ☒

**8.8** Is new software or new modules of existing software and modifications to software evaluated to assess the suitability of the software for its intended use in the laboratory and to determine the necessity of validation studies or software testing? **Yes** **No** **N/A**  
☒ ☐ ☐

a. Is the evaluation documented and does it include the determination of which studies will and will not be conducted? ☐ ☐ ☒

**NOTE:** *Standards 8.8.1 through Standards 8.8.2 and all of the substandards may be marked "N/A" if there are no software validations to review since the last external audit.*

**8.8.1** Is new software or new modules of existing software that are used as a component of instrumentation, for the analysis and/or interpretation of DNA data, or for statistical calculations subject to developmental validation prior to implementation in forensic DNA analysis? ☒ ☐ ☐

**8.8.1.1** With the exception of legally protected information, are the underlying scientific principle(s) utilized by software with an impact on the analytical process, interpretation, or ☒ ☐ ☐

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statistical calculations publicly available for review or published in a peer-reviewed scientific journal?

**8.8.1.2** Do the developmental software validation studies for new software or new modules of existing software used as a component of instrumentation include, at a minimum: ☒ ☐ ☐

a. Functional testing?

Yes ☒ No ☐

b. Reliability testing?

Yes ☒ No ☐

**8.8.1.3** Do the developmental software validation studies for new software or new modules of existing software for the analysis and/or interpretation of DNA data include: ☒ ☐ ☐

a. Functional testing?

Yes ☒ No ☐

b. Reliability testing?

Yes ☒ No ☐

c. Accuracy studies (as applicable)?

Yes ☒ No ☐ N/A ☐

d. Precision studies (as applicable)?

Yes ☒ No ☐ N/A ☐

e. Sensitivity studies (as applicable)?

Yes ☒ No ☐ N/A ☐

f. Specificity studies (as applicable)?

Yes ☒ No ☐ N/A ☐

**8.8.1.4** Do the developmental software validation studies for new software or new modules of existing software for statistical calculations include: ☒ ☐ ☐

a. Functional testing?

Yes ☒ No ☐

b. Reliability testing?

Yes ☒ No ☐

c. Accuracy studies (as applicable)?



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Yes ☒ No ☐ N/A ☐

d. Precision studies (as applicable)?

Yes ☒ No ☐ N/A ☐

**8.8.2**

Is new software or new modules of existing software that are used as a component of instrumentation, for the analysis and/or interpretation of DNA data, or for statistical calculations subject to internal validation specific to the laboratory's intended use prior to implementation in forensic DNA analysis?

**Yes No N/A**

☒ ☐ ☐

**8.8.2.1** Do the internal software validation studies for new software or new modules of existing software used as a component of instrumentation include:

☒ ☐ ☐

a. Functional testing?

Yes ☒ No ☐

b. Reliability testing?

Yes ☒ No ☐

**8.8.2.2** Do the internal software validation studies for new software or new modules of existing software for the analysis and/or interpretation of DNA data include:

☒ ☐ ☐

a. Functional testing?

Yes ☒ No ☐

b. Reliability testing?

Yes ☒ No ☐

c. Precision and accuracy studies (as applicable)?

Yes ☒ No ☐ N/A ☐

d. Sensitivity studies (as applicable)

Yes ☒ No ☐ N/A ☐

e. Specificity studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.2.3** Do the internal software validation studies for new software or new modules of existing software for statistical calculations include:

☒ ☐ ☐

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a. Functional testing?

Yes ☒ No ☐

b. Reliability testing?

Yes ☒ No ☐

c. Precision and accuracy studies (as applicable)?

Yes ☒ No ☐ N/A ☐

**8.8.2.4** Does software that does not impact the analytical process, interpretation, or statistical calculations undergo, at a minimum, a functional test? ☐ ☐ ☒

**Yes No N/A**

**NOTE:** Standards 8.8.3 and all of the substandards may be marked "N/A" if there are no modifications to software since the last external audit.

**8.8.3** Are any modifications to software as described in Standards 8.8.1 and 8.8.2 evaluated to determine if the modifications result in major or minor revisions to the software? ☐ ☐ ☒

**8.8.3.1** Are any major revisions to software used as a component of instrumentation validated prior to implementation, to include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Regression testing?

Yes ☐ No ☐

**8.8.3.2** Are any major revisions to software used for the analysis and/or interpretation of DNA data validated prior to implementation, to include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Regression testing?

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Yes ☐ No ☐

d. Precision and accuracy studies (as applicable)?

Yes ☐ No ☐ N/A ☒

e. Sensitivity studies (as applicable)?

Yes ☐ No ☐ N/A ☒

f. Specificity studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.3.3** Are any major revisions to software used for statistical calculations validated prior to implementation, to include:

☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Regression testing?

Yes ☐ No ☐

d. Precision and accuracy studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.3.4** Do any minor revisions to software that does not impact the analytical process, interpretation, or statistical calculations undergo, at a minimum, a functional test?

☐ ☐ ☒**Yes No N/A**

**8.8.4** For multi-laboratory systems:

☐ ☐ ☒

a. Are the summaries of shared software validation and software testing data available at each site?

☐ ☐ ☒

b. Has each laboratory in a multi-laboratory system completed, documented, and maintained applicable site-specific reliability testing?

☐ ☐ ☒

**8.8.5** Is all software validation and testing documented and reviewed and approved by the technical leader prior to implementation?

☒ ☐ ☐**Yes No N/A**

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- 8.9** Are developmental validation studies, internal validation studies, modified procedure evaluations, and software testing, including the documented approval of the technical leader, available for review?

☒☐☐

### Comment

All validations reviewed were approved by the laboratory before July 1, 2020.

8.2.1 and all of the substandards were marked N/A because the lab has not performed its own developmental validation but relied on publications in journals.

8.3.1.1 and all of the substandards were marked N/A because the laboratory is not a part of a multi-laboratory system.

8.6 and 8.7 were marked N/A because the laboratory does not use a Rapid DNA Instrument/System.

8.8.a was marked N/A because all validations reviewed by the laboratory were approved prior to July 1, 2020.

8.8.2.2.e was marked N/A because specificity studies were not applicable to the internal validation of Applied Biosystems QuantStudio 5 Real-Time PCR System.

8.8.2.4 was marked N/A because the laboratory did not have a change in software that did not impact the analytical process, interpretation, or statistical calculations.

8.8.3 and all of the substandards were marked N/A because the laboratory had no modifications to software since the last external audit.

8.8.4 and all of the substandards were marked N/A because the laboratory is not a part of a multi-laboratory system.

## Standard 9. Analytical Procedures

- 9.1** Does the laboratory have and follow written analytical procedures supported by the internal validations and approved by the technical leader?

Yes

No

N/A

☒☐

**NOTE:** To successfully satisfy Standard 9.1, the laboratory must demonstrate compliance with all of the substandards of Standard 9.1.

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<b>9.1.1</b>	Does the laboratory have and follow a documented standard operating procedure for each analytical method used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Do the analytical procedures include the appropriate analytical controls required for DNA analysis and data interpretation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>9.2</b>	Does the laboratory use reagents that are suitable for the methods employed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>NOTE:</b> To successfully satisfy Standard 9.2, the laboratory must demonstrate compliance with all of the substandards of Standard 9.2.			
<b>9.2.1</b>	Does the laboratory have written procedures for documenting commercial reagents and for the formulation of in-house reagents?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.2.2</b>	Are commercial reagents labeled with:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. The identity of the reagent?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	b. The expiration date as provided by the manufacturer or as determined by the laboratory?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
<b>9.2.3</b>	Are in-house reagents labeled with:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. The identity of the reagent?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	b. The date of the preparation and/or expiration?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	c. The identity of the individual preparing the reagent?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>9.3</b>	Does the laboratory identify critical reagents and evaluate them prior to use in casework?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.3.1</b>	Has the laboratory identified and evaluated the following:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Test kits (or systems) for performing quantification?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>			

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b. Test kits (or systems) for performing amplification?

Yes ☒ No ☐ N/A ☐

**9.3.2** If not tested as test kit components under Standard 9.3.1, has the laboratory identified and evaluated the following: ☐ ☐ ☒

a. Thermostable DNA polymerase?

Yes ☐ No ☐ N/A ☒

b. Primer sets?

Yes ☐ No ☐ N/A ☒

c. Allelic ladders used for genetic analysis?

Yes ☐ No ☐ N/A ☒

**9.3.3** Has the laboratory identified and evaluated Rapid DNA cartridges? ☐ ☐ ☒

**9.3.4** Has the laboratory identified and evaluated other laboratory defined critical reagents? ☒ ☐ ☐

**Yes No N/A**

**9.4** Except as provided in Standard 9.4.1, does the laboratory quantify or otherwise calculate the amount of human DNA in forensic samples prior to nuclear DNA amplification? ☒ ☐ ☐

**9.4.1** If quantification of human DNA for casework reference samples is not performed, does the laboratory have a validated system demonstrated to reliably yield successful DNA amplification and typing without prior quantification? ☐ ☐ ☒

**9.5** With all analytical procedures except Rapid DNA instruments/Systems used to analyze casework reference samples pursuant to Standards 9.7 and 9.8, does the laboratory monitor the analytical procedures using appropriate controls and standards? ☒ ☐

**NOTE:** *The use of Rapid DNA instruments/Systems to analyze casework reference samples is pursuant to Standards 9.7 and/or 9.8.*

**9.5.1** Are reagent blank controls associated with each extraction set being analyzed as follows: ☒ ☐

**9.5.1.1** Extracted concurrently and treated with the most sensitive conditions as the samples? ☒ ☐

**9.5.1.2** Are the reagent blanks amplified using: ☒ ☐

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a. The same typing test kit as the sample(s)?

Yes ☒ No ☐

b. The same instrument model as the sample(s)?

Yes ☒ No ☐

c. The same sensitivity conditions as required by the sample(s) containing the least amount of DNA?

Yes ☒ No ☐

**9.5.1.3** Are the reagent blanks typed using:

☒ ☐

a. The same instrument model as the sample(s)?

Yes ☒ No ☐

b. The same injection conditions as the sample(s)?

Yes ☒ No ☐

c. The most sensitive volume conditions of the extraction set?

Yes ☒ No ☐

**9.5.2** When quantification is used, are standards used?

☒ ☐ ☐

a. If a virtual or external standard curve is utilized, is a calibrator run concurrently with the samples?

☒ ☐ ☐

**9.5.3** Are the positive and negative amplification controls associated with the samples being typed amplified concurrently using the same typing test kit and on the same instrument as the samples?

☒ ☐

**9.5.3.1** Except as provided in 9.5.4.1, are the positive and negative amplification controls associated with the samples typed?

☒ ☐

**9.5.4** For laboratories performing sequencing, are positive and negative sequencing controls concurrently sequenced using the same typing test kit on the same instrument as the samples?

☐ ☐ ☒

**9.5.4.1** If the positive amplification control is not used as the positive sequencing control, does the laboratory have and follow procedures for the evaluation of the positive amplification control?

☐ ☐ ☒

**9.5.5** Are allelic ladders and internal size standards used for PCR-based systems?

☒ ☐ ☐

**Yes No N/A**

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<b>9.6</b>	Does the laboratory have and follow written guidelines for the interpretation of data that are based on and supported by internal validation studies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Does the laboratory:				
<b>9.6.1</b>	Have criteria to evaluate quantification standards, internal size standards, allelic ladders, and analytical controls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.6.2</b>	Have criteria for the interpretation of non-allelic peaks/signal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.6.3</b>	Have criteria for the interpretation of allelic peaks/signal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.6.4</b>	Define the thresholds used for interpretation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	As appropriate to the interpretation model utilized, does the laboratory establish the following thresholds:			
	<b>9.6.4.1</b> Analytical Threshold?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>9.6.4.2</b> Stochastic Threshold?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.6.5</b>	Define criteria for uninterpretable data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.6.6</b>	Have and follow procedures for mixture interpretation to include the following:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Assessment of the number of contributors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Separation of contributors (e.g. major versus minor)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Criteria for deducing potential contributors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>9.7</b>	For modified Rapid DNA analysis, does the laboratory:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.7.1</b>	Have and follow written guidelines for the manual interpretation of data?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>9.7.1.1</b> Does the laboratory verify that the internal size standard and allelic ladder results meet the laboratory's interpretation guidelines?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.7.2</b>	Have and follow procedures to address the use of positive sample controls and negative sample controls?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.8</b>	For Rapid DNA analysis, does the laboratory have and follow procedures to address the use of positive sample controls and negative sample controls?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.8.1</b>	Does the Rapid DNA cartridge include an internal size standard with each sample?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>9.9</b>	Does the laboratory define criteria for the formulation of inclusionary, exclusionary, and inconclusive conclusions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



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- 9.10** Does the laboratory have and follow procedures for statistical calculations and the reporting of results and conclusions that address the following: ☒ ☐
- 9.10.1** The assumptions that can be made when formulating conclusions? ☒ ☐
- 9.10.2** Performing statistical analysis in support of any inclusion that is determined to be relevant in the context of the case? ☒ ☐
- 9.10.3** Documenting of the genetic loci and assumptions used for statistical calculations, at a minimum, in the case notes? ☒ ☐
- 9.10.4** Not using uninterpretable data in statistical calculations? ☒ ☐
- 9.10.5** The approaches to performing statistical calculations? ☒ ☐
- 9.10.5.1** For autosomal STR typing, does the procedure address: ☒ ☐ ☐
- a. Homozygous and heterozygous typing results?  
Yes ☒ No ☐
- b. Multiple locus profiles?  
Yes ☒ No ☐
- c. Mixtures?  
Yes ☐ No ☐
- d. Minimum allele frequencies?  
Yes ☒ No ☐
- e. Where appropriate, biological relationships?  
Yes ☒ No ☐ N/A ☐
- 9.10.5.2** For lineage marker testing, does the procedure address parameters specific for the applicable lineage marker statistical calculations? ☒ ☐ ☐
- 9.10.5.3** Does the laboratory use loci that are shown to be in Hardy-Weinberg equilibrium and statistically unlinked, when using the product rule for statistical calculations? ☒ ☐ ☐
- 9.10.6** The source of the population database(s) used in any statistical calculations? ☒ ☐
- 9.10.7** The criteria for source attribution declarations, when applicable? ☐ ☐ ☒

**Yes No N/A**

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- |               |   |                                     |                          |
|---------------|---|-------------------------------------|--------------------------|
| <b>9.11</b>   | Does the laboratory have and follow a procedure to address the reinterpretation of legacy data?           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>9.12</b>   | Does the laboratory have and follow a procedure for the detection and control of contamination?           | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>9.12.1</b> | Does the laboratory have and follow procedures for cleaning and decontaminating facilities and equipment? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Comment**

**9.3.2 and all of the substandards were marked N/A because the laboratory tests thermostable DNA polymerase, primer sets and allelic ladders used for genetic analysis as test kit components.**

**9.3.3 was marked N/A because the laboratory does not use a Rapid DNA Instrument/System.**

**9.4.1 was marked N/A because the laboratory performs human DNA quantification for casework reference samples.**

**9.5.4 and 9.5.4.1 were marked N/A because the laboratory does not perform DNA sequencing.**

**9.7, all of the 9.7 substandards, 9.8 and 9.8.1 were marked N/A because the laboratory does not use a Rapid DNA Instrument/System.**

**9.10.7 was marked N/A because the laboratory does not use source attributions.**

**Standard 10. Equipment Calibration and Maintenance**

- |   |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>               |
|---|---|-------------------------------------|--------------------------|--------------------------|
| <b>10.1</b>   | Does the laboratory use equipment that is suitable for the methods employed?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| <b>NOTE:</b> To successfully satisfy Standard 10.1, the laboratory must demonstrate compliance with all of the substandards of Standard 10. |   |                                     |                          |                          |
| <b>10.2</b>   | Does the laboratory identify critical equipment or instruments and have and follow a program to ensure they are maintained? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| <b>10.2.1</b>   | At a minimum, are the following identified as critical:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| <b>10.2.1.1</b>   | Handheld mechanical pipettes?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>10.2.1.2</b>   | A thermometer traceable to national or international standard(s)?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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<b>10.2.1.3</b>	Incubator/Heat block, used in analytical procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.4</b>	Robotic systems?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.5</b>	Thermal cycler, including quantitative-PCR?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.6</b>	Thermal cycler temperature verification system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.7</b>	Electrophoresis detection systems, including Genetic Analyzers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.8</b>	Rapid DNA instruments/Systems?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.2.1.9</b>	Any additional instruments or equipment that produce DNA typing results?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>10.3</b>	Does the laboratory have procedures for conducting performance checks and evaluating results of critical equipment or instruments?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>10.3.1</b>	Does the laboratory performance check new critical equipment or instruments, not requiring validation, before use in casework analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a.	Does the laboratory performance check each additional critical instrument, of the same instrument model validated for use in the laboratory, prior to use in casework analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>Equipment or instruments that require validation will be assessed under Standard 8.</i>			
<b>10.3.2</b>	Are the following critical equipment or instruments performance-checked at least annually:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>10.3.2.1</b>	Handheld mechanical pipettes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.2</b>	Incubator/Heat block, used in analytical procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.3</b>	Robotic systems?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.4</b>	Thermal cycler, including quantitative-PCR?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.5</b>	Thermal cycler temperature verification system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.6</b>	Electrophoresis detection systems, including Genetic Analyzers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.7</b>	Any additional instruments or equipment that produce DNA typing results?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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<b>10.3.2.8</b>	Other critical equipment or instruments defined by the laboratory as needing annual performance check?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3</b>	Are the following critical equipment or instruments performance-checked after repair or service:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>10.3.3.1</b>	Robotic systems?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3.2</b>	Thermal cycler, including quantitative-PCR?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3.3</b>	Electrophoresis detection systems, including Genetic Analyzers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3.4</b>	Rapid DNA instruments/Systems?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.3.3.5</b>	Any additional instruments or equipment that produce DNA typing results?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.3.3.6</b>	Other critical equipment or instruments defined by the laboratory as needing performance check after repair or service?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.4</b>	Are Rapid DNA instruments/Systems performance-checked upon installation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.3.5</b>	Are Rapid DNA instruments/Systems performance-checked if the Rapid DNA instrument remains idle longer than the period recommended in the instrument specifications or as established by the laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>10.4</b>	Does the laboratory maintain documentation of maintenance, service, repair, and performance checks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**

**10.2.1.8, 10.3.3.4, 10.3.4 and 10.3.5 were marked N/A because the laboratory does not use a Rapid DNA Instrument/System.**

**10.3.2.7 and 10.3.3.5 were marked N/A because the lab does not use any additional instruments or equipment that produce DNA typing results other than those listed in the other sub-standards of 10.3.2.**

**Standard 11. Reports**

**Yes      No      N/A**

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- 11.1** Does the laboratory have and follow written procedures for taking and maintaining casework notes to support the conclusions drawn in laboratory reports? ☒ ☐
- a. Does the laboratory maintain all analytical documentation generated by technicians and/or analysts related to case analyses? ☒ ☐
- b. Does the laboratory retain, in written, printed, or electronic format, sufficient documentation for each technical analysis to support the report conclusions such that another qualified individual can evaluate what was done and interpret the data? ☒ ☐

- |  | Yes                                 | No                       | N/A |
|--|-------------------------------------|--------------------------|-----|
| <b>11.2</b> Do casework reports include the following elements:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>11.2.1</b> Case identifier?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>11.2.2</b> Description of evidence examined and identification of samples tested?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>11.2.3</b> Technology used?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>11.2.4</b> Loci, sequence region, or amplification system(s)?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>11.2.5</b> Results and/or conclusions for each forensic sample tested?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>11.2.6</b> A quantitative or qualitative interpretative statement to support all inclusions?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>11.2.7</b> Date of the report?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>11.2.8</b> Disposition of evidence?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |
| <b>11.2.9</b> Signature and title, or equivalent identification, of the person accepting responsibility for the content of the report? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |

- |   | Yes                                 | No                       | N/A |
|---|-------------------------------------|--------------------------|-----|
| <b>11.3</b> Does the laboratory maintain the confidentiality of reports, case files, DNA records, and databases, except as otherwise provided by applicable state or federal law? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |     |

**NOTE:** To successfully satisfy Standard 11.3, the laboratory must demonstrate compliance with all of the substandards of Standard 11.3.

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- |               |   |                                     |                          |
|---------------|---|-------------------------------------|--------------------------|
| <b>11.3.1</b> | Does the laboratory have and follow policies and/or procedures to ensure the privacy of reports, case files, DNA records, and databases?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>11.3.2</b> | Does the laboratory have and follow policies and/or procedures for the release of reports, case files, DNA records, and databases in accordance with applicable state or federal law? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>11.3.3</b> | Does the laboratory have and follow policies and/or procedures for the release of personally identifiable information in accordance with applicable state and federal law?            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Comment**

**Standard 12. Review**

- |               |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
|---------------|--|-------------------------------------|--------------------------|------------|
| <b>12.1</b>   | Does the laboratory have and follow a procedure to conduct and document technical and administrative reviews of all case files and reports to ensure that conclusions and supporting data are reasonable and within the constraints of scientific knowledge? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.1.1</b> | Are all technical reviews conducted by an analyst or technical reviewer that is qualified in the method, technology, typing test kit, platform, and interpretation software being reviewed?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
|               |  |                                     |                          |            |
|               |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
| <b>12.2</b>   | Does the laboratory document the completion of the technical review of forensic casework, and does it include the following elements:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.2.1</b> | A review of all case notes, all worksheets, and the electronic data (or printouts of such data) supporting the results and/or conclusions?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.2.2</b> | A review of all analytical controls, internal size standards, and allelic ladders to verify that the expected results were obtained, except when using an NDIS approved Rapid DNA System on casework reference samples?                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |

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<b>12.2.3</b>	A review of all DNA types to verify that they are supported by the raw or analyzed data (electropherograms or images), except when using an NDIS approved Rapid DNA System on casework reference samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.2.4</b>	A review of all data to verify conclusions (i.e., inclusions, exclusions, inconclusive) are in compliance with laboratory guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.2.5</b>	A review of statistical analysis, if applicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.2.6</b>	A review of the final report's content to verify compliance with Standard 11.2 and that the results and/or conclusions are supported by the data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.2.7</b>	Verification that all profiles entered into CODIS are eligible, have the correct DNA types, and correct specimen category?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>12.2.7.1</b>	Prior to upload to SDIS, entry of a DNA profile into a searchable category of SDIS, or search of SDIS, were the following criteria verified by two concordant assessments by a qualified analyst or technical reviewer:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Eligibility for CODIS?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
	b. Correct DNA types?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
	c. Appropriate specimen category?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>12.3</b>	Does the laboratory document the completion of the administrative review and does it include the following elements, any or all of which may be included within the technical review process:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.3.1</b>	A review of the case file and final report for clerical accuracy and compliance with Standard 11.2?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.3.2</b>	A review of the chain of custody and disposition of evidence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>12.4</b>	Does the laboratory have and follow policy and/or procedure to address unresolved discrepant conclusions between analysts and reviewer(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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**NOTE:** *Standard 12.5 shall be marked "N/A" for non-NDIS participating laboratories.*

- 12.5** Does the laboratory have and follow a documented procedure for the verification and resolution of database matches? ☒ ☐ ☐

**Comment**

**Standard 13. Proficiency Testing**

- |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
|---|-------------------------------------|--------------------------|-------------------------------------|
| <b>13.1</b> Do analysts, technical reviewers, technicians, and other personnel designated by the technical leader undergo semi-annual external proficiency testing?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| <b>13.1.1</b> Are analysts proficiency tested in each technology at least once per calendar year?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| <b>13.1.1.1</b> Has the typing of all CODIS core loci or CODIS core sequence ranges been attempted for each technology performed at least once per calendar year?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| <b>13.1.2</b> Are analysts proficiency tested in each typing test kit at least once per calendar year?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| <b>13.1.2.1</b> Are analysts that are qualified to perform modified Rapid DNA analysis externally proficiency tested on the interpretation of data generated by each Rapid DNA instrument model for each PCR STR typing test kit at least once per calendar year? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>13.1.3</b> Are individuals that perform analytical procedures on forensic samples or casework reference samples proficiency tested on at least one method in each methodology at least once per calendar year?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| <b>13.1.4</b> Except as provided in Standard 13.1.4.1, is each external proficiency test assigned to and completed by one analyst?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                                     |
| <b>13.1.4.1</b> If technicians and/or a team approach is used for casework examinations, has each analyst been assigned a proficiency test to complete the interpretation and report the results?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

**NOTE:** *Standard 13.1.5 and the substandards may be marked "N/A" for a laboratory that does not have individuals that solely conduct technical reviews.*



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**13.1.5** Are individuals whose sole responsibility is technical review proficiency tested in the technical review of each technology and typing test kit at least once per calendar year? ☐ ☐ ☒

**13.1.5.1** Does the proficiency testing cover the CODIS core loci or CODIS core sequence ranges attempted for each technology at least once per calendar year? ☐ ☐ ☒

**13.1.5.2** Are technical reviewers qualified to review modified Rapid DNA analysis externally proficiency tested on the technical review of data generated by a Rapid DNA instrument model for each PCR STR typing test kit at least once per year? ☐ ☐ ☒

**13.1.5.3** If the technical reviewer is a contract employee conducting technical review for an NDIS participating laboratory, is the proficiency testing administered by an NDIS participating laboratory and reviewed and approved by the technical leader of the NDIS participating laboratory for which the technical reviewer is conducting reviews? ☐ ☐ ☒

**13.1.6** Have newly qualified individuals undergone semi-annual external proficiency testing within eight months of the date of their authorization? ☒ ☐ ☐

	<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>13.2</b> Does the laboratory use an external proficiency test provider that is accredited to the current applicable standard of the International Organization for Standardization and is the applicable test included on the proficiency test provider's scope of accreditation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. Is the external proficiency testing an open proficiency testing program and is it submitted to the proficiency testing provider in order to be included in the provider's published external summary report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**13.3** For purposes of tracking compliance with the proficiency testing requirements, does the laboratory define and consistently use the date that the proficiency test is performed as the received date, assigned date, submitted date, or the due date? ☒ ☐

**Yes No N/A**

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<b>13.4</b>	Are the following records maintained by the laboratory for proficiency tests:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.1</b>	The test set identifier?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.2</b>	Identity of the analyst, and other participants, if applicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.3</b>	Date of analysis and completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.4</b>	Copies of all data and notes supporting the conclusions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.5</b>	The proficiency test results?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.6</b>	Any discrepancies noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.7</b>	Corrective actions taken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>13.5</b>	Does the laboratory evaluate proficiency test results? At a minimum, are the following criteria included in the evaluation of proficiency test results:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.5.1</b>	Are all reported genotypes, phenotypes, and/or sequences correct or incorrect according to consensus results or are compliant with the laboratory's interpretation guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.5.2</b>	Are inclusions and exclusions correct or incorrect?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.5.3</b>	Are all reported uninterpretable results and/or inconclusive conclusions compliant with written laboratory guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.5.3.1</b>	Has the technical leader reviewed any inconclusive conclusion for compliance with laboratory guidelines?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>13.5.4</b>	Have all final reports been graded as satisfactory or unsatisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.5.4.1</b>	Have all discrepancies/errors and subsequent corrective actions, as applicable, been documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>13.6</b>	Have the following been informed of the results of the proficiency test:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.6.1</b>	The proficiency test participant(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.6.2</b>	The technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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**13.6.3** The casework CODIS administrator in the event of non-administrative discrepancies that affect the typing results and/or conclusions? ☐ ☐ ☒

**Comment**

**13.1.2.1** was marked N/A because the laboratory does not use a Rapid DNA Instrument/System.

**13.1.5** and all of the substandards were marked N/A because the laboratory does not have individuals that solely conduct technical reviews.

**13.5.3.1** was marked N/A because there were no inconclusive conclusions present in the reviewed proficiency tests.

**13.5.4.1** was marked N/A because there were no discrepancies/errors that resulted in corrective actions in the reviewed proficiency tests.

**13.6.3** was marked N/A because there were no non-administrative discrepancies that affected the typing results and/or conclusions in the reviewed proficiency tests.

**Standard 14. Corrective Action**

		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>14.1</b>	Does the laboratory have and follow a policy and/or procedure to address nonconformities detected in casework analysis, proficiency tests, testimony, and audits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Does the laboratory policy and/or procedure define when a nonconformity requires documentation and/or a corrective action plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>14.1.1</b>	Are corrective action plans documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>14.2</b>	Does the laboratory's documented corrective action plan include the following:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. The identification (when possible) of the cause(s) of the nonconformity?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>			

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- b. The corrective actions taken with time frames  
(where applicable)?

Yes ☒ No ☐ N/A ☐

- c. Preventative measures taken (where applicable) to  
minimize its reoccurrence?

Yes ☒ No ☐ N/A ☐

- |               |   |                                     |                          |                                     |
|---------------|---|-------------------------------------|--------------------------|-------------------------------------|
| <b>14.2.1</b> | Are corrective action plans approved by the technical leader prior to implementation?                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>14.2.2</b> | Is the casework CODIS administrator notified when the nonconformity impacts DNA records entered into CODIS? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Comment**

**14.2.2 was marked N/A because there were no non-conformities that impacted DNA records entered into CODIS in the reviewed corrective actions.**

**Standard 15. Audits**

- |             |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>               |
|-------------|---|-------------------------------------|--------------------------|--------------------------|
| <b>15.1</b> | Has the laboratory been audited annually in accordance with the Quality Assurance Standards for Forensic DNA Testing Laboratories?                            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|             | a. Have the annual audits occurred every calendar year at least six months and no more than 18 months apart?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>15.2</b> | Has an external audit been conducted at least once every two years?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|             | a. Was the external audit conducted by one or more auditor(s) who has successfully completed the FBI's DNA auditor training course from a second agency(ies)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
|             | b. Was at least one auditor a current or former analyst previously qualified in the laboratory's current DNA technologies and platforms?                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**NOTE:** Auditor(s) and their applicable qualifications will be documented in Appendix C.

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- 15.2.1** Has the laboratory maintained audit documentation of those analysts, technical reviewers, casework CODIS administrator(s), and technical leader(s) that have had their education, experience, and training qualifications evaluated and approved during two successive, separate external audits? ☒ ☐ ☐

**NOTE:** *Approval of an individual's education, experience, and training qualifications shall be documented in Appendix D.*

- 15.2.1.1** As of July 1, 2020, has the laboratory maintained audit documentation of those individuals that have had their additional qualification in an additional technology(ies), typing test kit(s), or platform(s) evaluated and approved during one external audit? ☒ ☐ ☐

- 15.2.2** Has the laboratory maintained the audit documentation for validation studies previously evaluated and approved during one external audit? ☒ ☐ ☐

**NOTE:** *Approved validation studies shall be documented in Appendix E.*

- 15.3** For internal audits, was the internal audit conducted by an audit team with at least one auditor(s) who has successfully completed the FBI's DNA auditor training course? ☒ ☐ ☐
- a. Was at least one audit team member a current or former analyst previously qualified in the laboratory's current DNA technologies and platforms? ☒ ☐ ☐

**NOTE:** *Auditor team member(s) and their applicable qualifications will be documented in Appendix C.*

- |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>               |
|---|-------------------------------------|--------------------------|--------------------------|
| <b>15.4</b> Have the internal and/or external audits performed pursuant to Standard 15.1 been conducted using the FBI DNA Quality Assurance Standards Audit Document in effect at that time?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |
| <b>15.5</b> Have internal and external DNA audit documentation and, if applicable, corrective action(s) been reviewed by the technical leader to ensure that findings, if any, were appropriately addressed and has the review been documented? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>15.5.1</b> Have internal and external audit documentation, and if applicable, corrective action(s) been provided to the casework CODIS administrator?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**FORENSIC QAS AUDIT DOCUMENT for Monroe County Crime Laboratory**

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- |               |  |                                     |                          |                          |
|---------------|--|-------------------------------------|--------------------------|--------------------------|
| <b>15.5.2</b> | For NDIS participating laboratories, did the laboratory provide all external audit documentation and laboratory responses to the FBI within 30 days of the laboratory's receipt of the audit document or report? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>15.6</b>   | Are previous internal and external audit documents retained and available for inspection during subsequent audits?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**Comments****Standard 16. Professional Development**

- |   | <b>Yes</b>  | <b>No</b> | <b>N/A</b> |
|---|---|-----------|------------|
| <b>16.1</b>   | Does the laboratory have and follow a documented program to ensure that technical qualifications are maintained through participation in continuing education?  |           |            |
| <b>16.1.1</b>   | Does the technical leader, casework CODIS administrator, and each analyst and technical reviewer stay abreast of topics relevant to the field of forensic DNA analysis by having documented attendance at seminars, courses, professional meetings, or documented lectures or classes in relevant subject areas for a minimum of eight cumulative hours each calendar year? |           |            |
| <b>16.1.1.1</b>   | Have continuing education hours been documented?  |           |            |
| <b>NOTE:</b> <i>Attendance at regional, national, or international, conferences with content including topics relevant to the field of forensic DNA analysis shall be deemed to provide a minimum of eight hours of continuing education.</i> |   |           |            |
| <b>16.1.1.2</b>   | Has the laboratory maintained documentation of attendance through a mechanism such as certificates, attendance lists, or travel documentation?  |           |            |
| <b>16.1.1.3</b>   | With the exception of a regional, national, or international conference, has the laboratory maintained documentation of content through a mechanism such as agenda/syllabus, record of presentation content, or curriculum vitae of the presenter?  |           |            |

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<b>16.1.1.4</b>	Has continuing education based on multimedia or internet delivery received approval of the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>16.1.2</b>	Does the laboratory have and follow a program approved by the technical leader for the annual review of scientific literature that documents the analysts' ongoing reading of scientific literature?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>16.1.2.1</b>	Does the laboratory maintain or have physical or electronic access to a collection of current books, reviewed journals, or other literature applicable to DNA analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>16.2</b>	Does the laboratory have and follow a program that documents the annual review of the testimony of each analyst?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>16.2.1</b>	Does this program define elements and mechanisms for testimony review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>16.2.2</b>	Is the testimony review documented and provided to the testifying individual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>16.2.2.1</b>	Are any deficiencies and subsequent corrective actions, as applicable, documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Comment**

**16.2.2.1 was marked N/A because there were no deficiencies and subsequent corrective actions resulting from analysts' testimonies.**

**STANDARD 17. Outsourcing Ownership**

		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>17.1</b>	Has the vendor laboratory complied with the FBI Quality Assurance Standards for Forensic DNA Testing Laboratories and the accreditation requirements of federal law?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b> For a vendor laboratory, Standards 17.1.1, 17.2, 17.2.2, and Standards 17.3 and 17.4 and their substandards shall be marked "N/A."				
<b>NOTE:</b> For an NDIS participating laboratory, if a contract for outsourcing is in place or outsourcing is occurring without a contractual agreement, Standard 17 must be assessed even if no samples were outsourced.				

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**NOTE:** For an NDIS participating laboratory, Standard 17 may be marked "N/A" if the NDIS participating laboratory has not outsourced any DNA-related services for the purposes of taking ownership in the scope of the audit.

- |               |   |  |
|---------------|---|--|
| <b>17.1.1</b> | Has the NDIS participating laboratory that outsources to a vendor laboratory acquired the following documentation from the vendor laboratory, and has this documentation been reviewed by the NDIS participating laboratory's technical leader for:<br>a. Compliance with the FBI Quality Assurance Standards for Forensic DNA Testing Laboratories?<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>b. Compliance with the accreditation requirements of federal law?<br>Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>   | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>  |
| <b>17.2</b>   | Except as provided in Standard 17.2.1 and 17.2.2, since the laboratory's last external audit, did the NDIS participating laboratory's technical leader approve the technical specifications of the outsourcing agreement before it was awarded?   | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>  |
| <b>17.2.1</b> | For a vendor laboratory that is performing forensic DNA analysis on behalf of a law enforcement agency or other entity for the purposes of ownership by an NDIS participating laboratory, was documented approval obtained by the vendor laboratory from the appropriate NDIS participating laboratory's technical leader prior to the initiation of analysis?  | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>  |
| <b>17.2.2</b> | For the rare instances where the NDIS participating laboratory is requested to take ownership and no outsourcing agreement exists between either the law enforcement agency, the vendor laboratory or that NDIS participating laboratory, prior to acceptance of ownership of product(s) of forensic DNA analyses from the vendor laboratory has the following been documented by the requested NDIS participating laboratory's technical leader:<br><b>17.2.2.1</b> Approval of the casework CODIS administrator and written permission from the NDIS Custodian for any scenario that involves CODIS entry or searching?<br><b>17.2.2.2</b> Approval of the technical specifications of testing? | <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/><br><input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> |



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<b>17.2.2.3</b>	Review of the documentation of an on-site visit that has occurred within 18 months of the conducted analysis or conduct an on-site visit of the vendor laboratory within 18 months of the conducted analysis?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>17.3</b>	Does the NDIS participating laboratory have and follow a procedure to verify the integrity of the DNA data received for the purposes of taking ownership of DNA data from a vendor laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.3.1</b>	Prior to the search of DNA data in SDIS, did an analyst, casework CODIS administrator, or technical reviewer employed by an NDIS participating laboratory review the DNA data to verify specimen eligibility and the correct specimen category for entry into CODIS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.3.2</b>	Prior to the upload of DNA data generated by the vendor laboratory to SDIS or the reporting of search results, did an NDIS participating laboratory perform an ownership review of the vendor laboratory's data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a.	Was the ownership review performed by an analyst or technical reviewer employed by an NDIS participating laboratory who is qualified in the technology, platform, and typing test kit used to generate the data and who participates in an NDIS laboratory's proficiency testing program?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.3.2.1</b>	If the proficiency testing is administered by another NDIS participating laboratory, has the participation in an NDIS participating laboratory's proficiency testing program been reviewed and approved by the technical leader of the NDIS participating laboratory for which the reviewer is conducting ownership reviews?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>17.3.3</b>	Except as provided in Standard 17.3.4, does the ownership review include the following elements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.3.3.1</b>	A review of all DNA types of which the NDIS participating laboratory will take ownership to verify that they are supported by the raw and/or analyzed data (electropherograms or images)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.3.3.2</b>	A review of all associated analytical controls, internal size standards and allelic ladders to verify that the expected results were obtained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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<b>17.3.3.3</b>	A review of the final report (if provided) to verify that the results/conclusions are supported by the data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.3.3.4</b>	For samples to be entered into CODIS, verification of the DNA types, eligibility, and the correct specimen category?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.3.3.4.1</b>	Is verification of eligibility performed by a current CODIS user?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.3.4</b>	For an NDIS participating laboratory that outsources to a vendor laboratory performing Rapid DNA analysis on casework reference samples using an NDIS approved Rapid DNA System, does the ownership review for data generated by the Rapid DNA System include:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>17.3.4.1</b>	A review of the final report (if provided) to verify that the results/conclusions are supported by the Rapid DNA System data?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>17.3.4.2</b>	For samples to be entered into CODIS, verification of the eligibility and the correct specimen category?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>17.3.4.2.1</b>	Is verification of eligibility performed by a current CODIS user?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>17.3.4.3</b>	A review of the data associated with applicable Rapid DNA System performance checks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>17.4</b>	Does the NDIS participating laboratory or multi-laboratory system outsourcing DNA sample(s) to a vendor laboratory or accepting ownership of DNA data from a vendor laboratory have and follow a procedure to perform an on-site visit(s) of the vendor laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>An on-site visit is not required when only technical review services are being provided.</i>			
	Does the procedure to perform an on-site visit include, at a minimum:			
<b>17.4.1</b>	A documented initial on-site visit, to assess the vendor laboratory's ability to perform analysis on outsourced casework, prior to the vendor laboratory's beginning of casework analysis for the NDIS laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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- |                 |  |                                     |                          |                                     |
|-----------------|--|-------------------------------------|--------------------------|-------------------------------------|
| <b>17.4.1.1</b> | Has the on-site visit been performed by the technical leader or designated employee of an NDIS participating laboratory who is a qualified or previously qualified analyst in the technology, platform and typing test kit used to generate the DNA data or has an on-site visit coordinated by a designated FBI employee been evaluated and approved by the NDIS participating laboratory's technical leader? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.4.2</b>   | An annual on-site visit if the NDIS participating laboratory's outsourcing agreement extends beyond one year?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| a.              | Did an annual on-site visit occur every calendar year, with each visit at least six months but no more than 18 months apart?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>17.4.2.1</b> | If an on-site visit conducted by another NDIS participating laboratory using the same technology, platform and typing test kit used to generate the DNA data or coordinated by a designated FBI employee was accepted, did the technical leader of the NDIS participating laboratory document the review and approval of that on-site visit?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

**Comments**

**17.2 was marked N/A because an outsourcing agreement has not been awarded since the last external audit.**

**17.2.1 was marked N/A because the vendor lab was performing forensic DNA analysis on behalf of the NDIS participating laboratory.**

**17.2.2 and all of the substandards were marked N/A because an outsourcing agreement existed between the vendor and NDIS laboratories.**

**17.3.2.1 was marked N/A because the analysts who perform the ownership reviews do not take proficiency tests administered by another NDIS laboratory.**

**17.3.4 and all of the substandards marked N/A because the laboratory does not outsource to a vendor laboratory that uses a Rapid DNA Instrument/System on the outsourced samples.**

**17.4.1 and 17.4.1.1 were marked N/A because the outsourcing agreement was awarded before the last external audit and was captured in that audit.**

**FORENSIC QAS AUDIT DOCUMENT for** Monroe County Crime Laboratory

**Dates of Audit:** September 21-24, 2020 (VIRTUAL EXTERNAL QAS AUDIT approved by NDIS Custodian Aug 6, 2020)

## **Appendix A: Findings and Responses**

To be completed by the audit team (Findings) and laboratory (Responses).

Auditors shall reference any standard found to be in non-compliance in the Findings below. Following the standard, a detailed description of the non-compliance shall be provided.

Comments and/or recommendations shall **not** be included in Appendix A.

Additional pages may be attached, as needed.

**Findings:**

None

**Responses:**

**FORENSIC QAS AUDIT DOCUMENT for Monroe County Crime Laboratory**

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**Appendix B: Contingency Plan Notification Form**

To be completed by the NDIS participating laboratory in the event of:

1. A vacancy in the technical leader position when there is no qualified individual available to serve as the technical leader.
2. The number of qualified analysts falls below two full-time employees who are qualified analysts.

This form shall be used to document various actions relating to the laboratory's contingency plan. In accordance with the FBI Quality Assurance Standards and the NDIS Operational Procedures Manual, the FBI's NDIS Custodian shall be notified of such vacancy within 5 days and provided with the laboratory's contingency plan within 14 days of the vacancy.

Date technical leader position vacated or number of qualified analysts fell below two full-time employees:	
Date NDIS Custodian and, if applicable, State CODIS Administrator Notified: (must be within 5 days of the vacancy)	
Date contingency plan submitted to the FBI: (must be within 14 days of the vacancy)	
Date FBI approval received:	

Contingency plan attached:

FBI conditions for approval attached, if applicable:

Date new casework/database analysis initiated:

Laboratory:

Signed by: \_\_\_\_\_  
(Name and Signature of Person Completing Form)

Date: \_\_\_\_\_

**FORENSIC QAS AUDIT DOCUMENT for Monroe County Crime Laboratory**  
**Dates of Audit:** September 21-23, 2020

**Appendix C – Audit Team Self-Verification for QAS Audits**

To be completed by each auditor/audit team member who will be conducting a QAS audit and/or completing the QAS Audit Document.  
For external audits, return to the laboratory prior to the scheduled audit date.  
For internal audits, maintain in the laboratory's files.

Name: Stewart Raley  
Employer: Arizona Department Of Public Safety  
Title or Position: Supervising Forensic Scientist

**Qualifications:**

- A. Completed FBI DNA Auditor Course: ☒ Yes ☐ No  
If yes: (Required for all external auditors)  
Year (If multiple, list at least the most recent.): 2003, 2020
- B. Current or Previously Qualified DNA Analyst: ☒ Yes ☐ No  
If yes:
1. Was the qualification as a Casework and/or Database Analyst?  
Enter the qualifying laboratory(ies).  
(If multiple, list at least the most recent for each applicable category.)  
☒ Casework: North Louisiana Crime Lab, AZDPS Crime Lab  
☐ Database: Click here to enter qualifying laboratory.
  2. Technologies Currently or Previously Qualified In (e.g., STR, mtDNA):  
mtDNA, STR, YSTR
  3. Platforms Currently or Previously Qualified In (e.g., Gel based, CE):  
Gel Based, CE

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**I verify that:**

**The information contained above is correct; and**  
**I have read the *Instructions to Audit Team* contained in the applicable Audit Document; and**  
**For External Audits, I understand the requirements of Standard 15.2 and**  
**I have no conflicts of interest with the laboratory being audited.**

Signed By



Date

8/19/2020

**FORENSIC QAS AUDIT DOCUMENT** for Monroe County Crime Laboratory

**Dates of Audit:** September 21-24, 2020 (VIRTUAL EXTERNAL QAS AUDIT approved by NDIS Custodian Aug 6, 2020)

**Appendix D – Personnel Meeting Minimum Education, Experience, and Training Qualifications As Assessed By External Audit**

To be completed by the audit team. In accordance with Standards 15.2.1 and 15.2.1.1, this form shall be used to document the evaluation and approval of analysts, technical reviewers, casework CODIS administrators and technical leaders during an external audit. **Such personnel shall be assessed in accordance with the applicable Quality Assurance Standards for Forensic DNA Testing Laboratories (QAS)<sup>1</sup> in effect at the time of their hire/appointment or qualification<sup>2</sup>.** Analysts, technical reviewers, casework CODIS administrators and technical leaders who have previously undergone two successive external audit reviews in his/her current role and those reviews have been captured in the corresponding external audit documents do not need to be continuously captured in Appendix D.

**Section 1** is for documenting personnel who are receiving the **first** external audit approval of their education, experience, and the initial training qualifications in this external audit.

**Section 2** is for documenting personnel who are receiving the **second successive** external audit approval of their education, experience, and the initial training qualifications in this external audit.

**Section 3** is for documenting personnel whose **additional training** in new technologies, typing test kits, and/or platforms is receiving external audit approval in this external audit.

---

**Section 1. The following personnel have been evaluated and approved for the first time as meeting the education, experience, and initial training qualifications required under QAS Standard 5.1:**

Analysts/Technical Reviewers <sup>3</sup>	Casework CODIS Administrator	Technical Leader
Dominique Boscarino* Colleen Murphy* Rebekah Pavia Nancy Scibetta Margaret Uebelacker John Varrone* *evaluated under the September 1, 2011 QAS	N/A	Gail Conklin*

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<sup>1</sup> Applicable Quality Assurance Standards for Forensic DNA Testing Laboratories may include those that took effect in 2004, 2009 2011, and 2019.

<sup>2</sup> As defined by the laboratory in accordance with Standard 4.2.

<sup>3</sup> For individuals whose initial training qualification in the laboratory is for Technical Review only (i.e., is not currently or previously qualified as an analyst in the laboratory for which they are performing technical reviews), indicate these individuals as “TR only” in the table.



**FORENSIC QAS AUDIT DOCUMENT for Monroe County Crime Laboratory**

**Dates of Audit:** September 21-24, 2020 (VIRTUAL EXTERNAL QAS AUDIT approved by NDIS Custodian Aug 6, 2020)

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**Section 2. The following personnel have been previously evaluated once in their current role and are receiving the second successive external audit approval of their education, experience, and initial training qualifications required under QAS Standard 5.1:**

Analysts/Technical Reviewers <sup>3</sup>	Casework CODIS Administrator	Technical Leader
Jody Haag (2018)* *evaluated under the September 1, 2011 QAS	N/A	N/A

---

**Section 3. The training of Analyst(s)/Technical Reviewer(s) in additional technologies, typing test kits, platforms, and interpretation software for the following personnel have been evaluated and are receiving external audit approval required under QAS Standards 6.5 through 6.6: [please include the technology, typing test kit, or platform]**

Ellyn Colquhoun - YFiler Plus  
Gail Conklin - YFiler Plus  
Jody Haag - YFiler Plus  
D. Elaine Hamilton - YFiler Plus  
George Kampo - YFiler Plus  
Mara Sommer - YFiler Plus  
Robert Visca - YFiler Plus

## **Appendix E: Approved Validations**

This form may be used to document the evaluation and approval of validations by the external audit team according to **Standard 8**; this documentation to be maintained by the audited laboratory to comply with **Standard 15.2.2**. Modified procedure evaluations and software testing reviewed during the audit will also be listed below.

Validations reviewed during an external audit but not approved in their entirety may be listed in this Appendix with a notation of the study(ies) requiring additional review and approval in order for the validation to be approved.

---

To be completed by the external audit team:

Were new developmental and/or internal validations evaluated during this audit?

Yes ☒

No ☐

List of validations approved during this audit:

Quantifiler Trio Validation

Applied Biosystems QS5 Real-Time PCR System SN 272521090 (Validation)

Applied Biosystems QS5 Real-Time PCR System SN 272521106 (PC)

Y-Screening Validation

Automate 3 SN PFX1704B1124 Performance Check

Automate 4 SN PFX1704B1121 Performance Check

ProFlex Thermal Cycler SN 297808470 Performance Check

Applied Biosystems GlobalFiler and 3500 System SN 24158-051 (PC)

YFiler Plus Validation

List of modified procedure evaluations reviewed during this audit:

N/A

List of software testing reviewed during this audit:

YHRD Performance Check

Received by OFS  
10/16/2020

# THE FBI QUALITY ASSURANCE STANDARDS

## AUDIT FOR

### FORENSIC DNA TESTING LABORATORIES

IN ACCORDANCE WITH THE QUALITY ASSURANCE STANDARDS  
FOR FORENSIC DNA TESTING LABORATORIES  
EFFECTIVE JULY 1, 2020

An Audit of: Onondaga County Center for Forensic Sciences Laboratory

Address of Laboratory: 100 Elizabeth Blackwell Street, Syracuse, NY 13210

Dates of Audit: September 21-23, 2020 VIRTUAL EXTERNAL QAS AUDIT approved by NDIS  
Custodian August 20, 2020)

Type of Audit: External ☒ Internal ☐

Was the audit done in conjunction with an accreditation assessment? Yes ☒ or No ☐

Revision Date of Guidance Document referenced 7/1/2020

Are there findings associated with this audit? Yes ☐ or No ☒

Audit Team: Caitlin Oliver

Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.  
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Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.  
Click here to enter name of auditor.

#### For Laboratory:

Date Final Audit Report Received: 10/12/2020

Date Audit Documentation Sent to NDIS: 10/16/2020 or N/A ☐

## **FORENSIC QAS AUDIT DOCUMENT**

### **INTRODUCTION**

The DNA Identification Act of 1994 required the formation of a panel of distinguished professionals, from the public and private sectors, to address issues relevant to forensic DNA applications. This panel, known as the DNA Advisory Board (DAB), first convened in 1995. The mission of the DAB was to develop and implement quality assurance standards for use by forensic DNA testing laboratories. The scope was quickly expanded to include forensic DNA databasing laboratories as well. The DAB fulfilled its statutory responsibilities, recommending separate documents detailing quality assurance standards for both forensic and databasing applications. The "Quality Assurance Standards for Forensic DNA Testing Laboratories" and the "Quality Assurance Standards for Convicted Offender DNA Databasing Laboratories" were issued by the Director of the Federal Bureau of Investigation in October 1998 and April 1999, respectively. The "Quality Assurance Standards for Forensic DNA Testing Laboratories" and the retitled "Quality Assurance Standards for DNA Databasing Laboratories" have become benchmarks for assessing the quality practices and performances of DNA laboratories throughout the country. When the Federal DNA Advisory Board's statutory term expired, it transferred responsibility for recommending revisions of these Quality Assurance Standards to the Scientific Working Group on DNA Analysis Methods (SWGDM).

The DNA Identification Act of 1994 also required that the FBI Laboratory ensure that all DNA laboratories that receive federal grant funds or participate in the National DNA Index System (NDIS) demonstrate compliance with the FBI's Quality Assurance Standards (QAS). A laboratory's documentation of compliance with the QAS is measured through an accreditation/audit process. Such accreditation inspections or audits are performed by forensic scientists, either internal or external to the laboratory, and are intended to evaluate and document compliance with established standards.

Since the issuance of the original QAS, the FBI Laboratory recognized that a uniform interpretation guide would minimize interpretation variability among auditors. For the initial QAS, the FBI Laboratory developed, in collaboration with inspection and accreditation agencies and other interested stakeholders, audit documents for assessing compliance with the required Forensic and Databasing Standards. Previous Audit Documents contained a checklist for assessing compliance with each standard and additional discussion sections with interpretation guidance for laboratories and auditors.

With the 2020 QAS revisions, the QAS discussion sections for the Forensic and Databasing Standards, formerly part of the Audit Documents, have been transitioned into the QAS Guidance Document. The Guidance Document clarifies standards, as needed, and provides additional guidance to assist the laboratory and auditors in determining compliance.

**FORENSIC QAS AUDIT DOCUMENT** for Onondaga County Center for Forensic Sciences Laboratory

**Dates of Audit:** September 21-23, 2020

**The Forensic and Databasing QAS and QAS Guidance Document will take effect on January 1, 2020 and are not to be applied retroactively. The Forensic and Databasing QAS are the primary resource for the definitions and quality assurance standards and take precedence over the QAS Guidance Document which should be consulted only for additional clarification as a secondary resource.**

The Forensic and Databasing Audit Documents now contain only the checklists for assessing compliance with each standard. In this Audit Document, the rating system for assessing the laboratory with respect to each standard contains the choices of "Yes" or "No", and, where appropriate, "Not Applicable (N/A)." In Appendix A, the findings associated with the audit will be detailed and summarized by the auditor, with an area available for response to such findings by the laboratory. Notes or comments, including observations and recommendations, are better suited to be mentioned during the exit briefing with laboratory personnel or in a separate letter/memorandum to the laboratory so that these comments are not confused with comments relating to a finding or an explanation of why a particular standard is not applicable.

**Dates of Audit:** September 21-23, 2020

## **Instructions to Audit Team**

Thank you for participating in this important process intended to evaluate compliance with minimum standards for a quality program for performing forensic DNA analysis.

Starting with audits conducted in accordance with the Quality Assurance Standards effective July 1, 2009, separate Audit Documents are used for forensic and databasing laboratories. If a laboratory performs both functions, each Audit Document must be completed and submitted to the laboratory at the conclusion of the audit process.

Once an external audit has been scheduled, the laboratory being audited should provide the audit team with the Checklist contained on the following pages as soon as possible. The Lead Auditor shall also request a certification (contained in Appendix C) from each auditor on the team and provide them to the laboratory prior to the beginning of the audit. The Lead Auditor shall review the checklist completed by the laboratory and the laboratory shall review the Appendix C for each auditor to ensure that the audit team contains the appropriate number of members to audit the laboratory and that the team members possess the necessary expertise required to audit that laboratory. An auditor or his or her employer who has a contractual relationship (exclusive of audits) with the laboratory being audited shall disclose this fact and recuse himself or herself from performing the audit. The laboratory shall review the auditors' certifications for any potential conflicts of interest.

As a general rule, compliance with a standard is assessed through a review of the laboratory's documentation and interviews with laboratory staff. Documents may be in hard copy, electronic or a combination of both formats. Certificates of qualifications shall not be considered documentation of compliance with these standards. Laboratory personnel's compliance with these standards shall be documented by the auditor(s) in Appendix D. A review of case reports for the laboratory shall include a number of case files randomly selected for each DNA analyst. As appropriate, a minimum of three to five cases per DNA analyst should be reviewed.

When conducting an audit, please keep in mind the following general guidelines:

- Potential issues concerning compliance should be directed to the laboratory's designated points of contact.
- Comments on the laboratory's operations should be reserved for the audit document if a "No" or "N/A" is marked and/or the exit interview with laboratory management; comments should not be made to laboratory staff.
- Contested or contentious issues should be brought to the attention of your Lead Auditor for follow-up, as necessary.

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As a general rule,

- Issues deemed minor by the audit team that are addressed during the course of an audit (for example: date or position revisions of a laboratory's organizational chart) may be determined by the auditor to satisfy a non-compliance so that a "Yes" is marked for that standard.
- Non-compliance with a standard identified by the laboratory prior to the audit should be assessed by the audit team for adequate documentation and/or corrective action. If determined to have been appropriately addressed, the auditor may mark the corresponding standard as "Yes".
- Comments should not be included for standards marked "Yes".
- Comments shall be included for standards marked "No" or "N/A".
  - For a standard marked "No", the comment shall describe the non-compliance with sufficient detail so that the laboratory can develop an appropriate corrective action for compliance.
  - For a standard marked "N/A", the comment shall describe why that standard is not applicable to that laboratory.

For additional information pertaining to the interpretation of each standard refer to the QAS Guidance Document. Questions concerning this Audit Document or a specific standard should be directed to the FBI's Combined DNA Index System (CODIS) Unit at [QAS@fbi.gov](mailto:QAS@fbi.gov)

After the audit is completed, the Lead Auditor or auditor(s) briefs DNA laboratory management and the DNA technical leader regarding the results. This briefing should verbally detail specific findings (non-compliances) and observations (general comments and/or recommendations), as well as recognize commendable performances. The written report should be prepared by the Lead Auditor and/or auditor(s) and sent to the laboratory within 30 days of the audit. The Audit Document Report consists of the completed Audit Document Checklist, with any areas of non-compliance listed under the Findings Section of Appendix A. All findings of non-compliance must be clearly identified and referenced to the appropriate standard.

**Recommendations shall not be included in the Audit Document Report. Notes or comments, including observations and recommendations are better suited to be mentioned during the exit briefing with laboratory personnel or in a separate letter/memorandum to the laboratory so that these comments are not confused with comments relating to a finding of non-compliance or an explanation of why a particular standard is not applicable.**

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## General Laboratory Information

For an External Audit, to be completed by the laboratory and provided to the audit team prior to the on-site visit.

1. Name of Laboratory: Onondaga County Center for Forensic Sciences Laboratory
2. Jurisdiction: Local    If Other: [Click here to explain.](#)
3. Uses a Vendor Laboratory: ☒ Yes ☐ No  
If Yes, Bode Technology
4. Uses contract employees: ☐ Yes ☒ No
5. NDIS Participant: ☒ Yes ☐ No  
If No, applying for NDIS Participation: ☐ Yes ☐ No
6. Technologies Used: (Choose those that apply)  
☒ Autosomal STR   ☒ Y STR   ☐ Mito   ☐ SNP  
☐ Other: [Click here to enter text.](#)  
☐ Other: [Click here to enter text.](#)
7. Test Typing Kits Used: Qiagen Investigator 24plex, Yfiler
8. Platform Instrument Models Used: AB 3500 Genetic Analyzer
9. Validations requiring review under Std 15: ☐ Yes ☒ No
10. Staff (to include contract employees)
  - a. Total # of qualified DNA Analysts/Technical Reviewers: 3
    - i. # of DNA Analysts requiring review under Std 15: 2
  - b. # of DNA Technicians: 0
  - c. # of Laboratory Support Personnel: 1
  - d. DNA Technical Leader: Sheila Gentile
    - i. On Site: ☒ Yes ☐ No
    - ii. Hired or Appointed since last external audit: ☐ Yes ☒ No
  - e. Casework CODIS Administrator: Amy Fairchild (Nestlerode)
    - i. Hired or Appointed since last external audit: ☐ Yes ☒ No
11. Date of Last Audit: 11/20/2019
  - a. ☐ External ☒ Internal
  - b. If Internal, Date of Last External Audit: 9/24/2018
  - c. Revision Date of Audit Guidance Document Used: 9/1/2011
12. Uses an Expert System: ☐ Yes ☒ No
  - a. Name & Version of Expert System: [Click here to enter text.](#)
  - b. Test Kit and Instrument: [Click here to enter text.](#)
  - c. Version of Data Collection: [Click here to enter text.](#)
13. Uses a Rapid DNA System: ☐ Yes ☒ No
  - a. Name of Rapid DNA System and Instrument: [Click here to enter text.](#)
  - b. Typing Kit and Cartridge: [Click here to enter text.](#)
  - c. System Software: [Click here to enter text.](#)
  - d. Expert System Software: [Click here to enter text.](#)



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**Standard 1. Scope**

No Auditable Requirements

**Standard 2. Definitions**

No Auditable Requirements

**Standard 3. Quality Assurance Program**

		Yes	No	N/A
3.1	Does the laboratory have, follow, and maintain a documented quality system:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Is the quality system appropriate to the testing activities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b. Is the quality system equivalent to or more stringent than what is required by these Standards?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b> To successfully satisfy Standard 3.1, compliance must be demonstrated with all of the substandards of Standard 3.1.1.				
3.1.1	Is the quality system documented in a manual that includes or references the following elements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.1	Goals and objectives?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.2	Organization and management?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.3	Personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.4	Training?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.5	Facilities and evidence control?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.6	Validation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.7	Analytical procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.8	Equipment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.9	Reports?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.10	Review?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.11	Proficiency testing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.1.1.12	Corrective action?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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<b>3.1.1.13</b>	Audits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>3.1.1.14</b>	Professional Development?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>3.1.1.15</b>	Outsourcing Ownership?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>3.1.2</b>	Does the laboratory maintain and have available on-site any documents referenced within the quality manual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b> <b>N/A</b>
<b>3.2</b>	Does the laboratory have and follow a policy regarding document retention that specifically addresses:	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a.	Proficiency tests?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
b.	Corrective action?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
c.	Audits?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
d.	Training records?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
e.	Continuing education?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
f.	Case files?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
g.	Court testimony monitoring?      Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		
<b>3.3</b>	Does the laboratory perform annual review of its DNA quality system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a.	Is the review independent of the audit required by Standard 15?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b.	Is the review completed under the direction of the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c.	Is the review approved by the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>3.4</b>	Does the laboratory annually review case files determined by the technical leader to be a representative sample of the cases worked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a.	Is the review independent of an external audit required by Standard 15?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b.	Is the scope of the review defined prior to each annual review and approved by the technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Comment**

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**Standard 4. Organization and Management**

		Yes	No	N/A
<b>4.1</b>	Does the laboratory have:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.1</b>	A managerial staff with the authority and resources needed to discharge its duties and meet the requirements of the Standards in this document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.2</b>	A technical leader who is accountable for the technical operations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Have at least one technical leader in a multi - laboratory system?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>4.1.3</b>	A casework CODIS administrator who is accountable for CODIS on-site at each individual laboratory facility using CODIS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>4.1.4</b>	At least two full-time employees who are qualified DNA analysts?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.5</b>	Documentation that specifies the responsibility, authority, and interrelation of all personnel who manage, perform, or verify work affecting the validity of the DNA analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>4.1.6</b>	A documented contingency plan that is approved by laboratory management if the technical leader position is vacated or if the number of qualified DNA analysts falls below the two full-time analyst requirement?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. If applicable, did the laboratory follow the documented contingency plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>NOTE:</b> For an NDIS participating lab, refer to Appendix B for the Contingency Plan Notification Form.				
<b>4.2</b>	Does the laboratory define whether the date of hire/appointment/promotion or date of qualification will be used by the laboratory for determining the applicable QAS version for education, experience and training requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**

**4.1.2.a marked N/A because laboratory isn't a multi-laboratory system.**

**4.1.6.a marked N/A because technical leader position hasn't been vacant since last external audit.**

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## Standard 5. Personnel

		Yes	No	N/A
<b>5.1</b>	Do laboratory personnel have the education, training, and experience commensurate with the examination and testimony provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b>	<i>To successfully satisfy Standard 5.1, compliance must be demonstrated with all of the substandards of Standard 5.</i>			
<b>5.1.1</b>	Does the laboratory have written job descriptions for all personnel to include responsibilities, duties, and skills?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.1.2</b>	Does the laboratory maintain records on the relevant qualifications, training, skills, and experience of all technical personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		Yes	No	N/A
<b>5.2</b>	Is the technical leader a full-time employee of the laboratory or multi-laboratory system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b>	<i>To successfully satisfy Standard 5.2, compliance must be demonstrated with all of the substandards of Standard 5.2.</i>			
<b>NOTE:</b>	<i>Standard 5.2 and Standards 5.2.1 through 5.2.4 may be marked "Yes" for a TL who has been reviewed and memorialized in at least 2 prior external audit documents.</i>			
<b>5.2.1</b>	Does the technical leader of the laboratory meet or exceed the following degree/educational requirements or have a waiver as allowed for in 5.2.1.4?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>The substandards of Standards 5.2.1 through 5.2.1.3 will be marked "N/A" for a TL who has a waiver as allowed for in 5.2.1.4</i>			
	a. A master's degree in a biology-, chemistry-, or forensic science-related area?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Twelve semester hours or equivalent credit hours including a combination of graduate and undergraduate coursework or classes covering the following subject areas:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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1. Biochemistry?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
2. Genetics?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
3. Molecular biology?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
4. Statistics / population genetics?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
<b>5.2.1.1</b> Of the 12 semester or equivalent credit hours required, do they include at least one graduate-level course registering 3 or more semester or equivalent credit hours?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.2.1.2</b> Do each of the specific subject areas listed in Standard 5.2.1 constitute an integral component of any coursework used to demonstrate compliance with this Standard?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.2.1.3</b> For individuals who have completed coursework with titles other than those listed in Standard 5.2.1, have they successfully demonstrated compliance with this Standard through a combination of pertinent materials such as a syllabus, letter from the instructor, or other documentation that supports the course content?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>5.2.1.4</b> If the degree requirements of Standard 5.2.1 are not met, does the technical leader possess a waiver from the American Society of Crime Laboratory Directors (ASCLD)?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>5.2.2</b> Does the technical leader meet or exceed one of the following minimum experience requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a. If the technical leader was appointed prior to July 1, 2009, does the technical leader have three years of forensic DNA laboratory experience obtained at a laboratory where forensic DNA testing was conducted for the identification and evaluation of biological evidence in criminal matters?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. If the technical leader was appointed on or after July 1, 2009, does the technical leader have a minimum of three years human DNA experience (current or previous) as a qualified analyst on forensic samples?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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**NOTE:** Standards 5.2.3 and 5.2.4 may be marked "N/A" if the technical leader has been in the position for less than one year.

<b>5.2.3</b>	If the technical leader was appointed on or after July 1, 2020, was the technical leader a currently or previously qualified analyst in each technology or have documented training in each technology utilized in the laboratory within one year of appointment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>5.2.4</b>	Has the technical leader successfully completed the FBI-sponsored auditor training within one year of appointment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>5.2.5</b>	Does the technical leader of the laboratory have the following authority and minimum responsibilities:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.2.5.1</b>	Oversee the technical operations of the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.2.5.2</b>	Authority to initiate, suspend, and resume DNA analytical operations for the laboratory or an individual?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.2.5.3</b>	Evaluate and approve of all validations and new or modified methods used by the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.2.5.4</b>	Review the training records for newly qualified analysts, technicians and technical reviewers and approve their qualifications prior to independent casework analysis and review, verify, and approve the academic transcripts for newly qualified analysts and technical reviewers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.2.5.5</b>	Approve the technical specifications for outsourcing agreements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.2.5.6</b>	Review internal and external DNA audit documents and, if applicable, approve corrective action(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.2.5.7</b>	Review annually the procedures of the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5.2.5.8</b>	Review and approve the training, quality assurance, and proficiency testing programs in the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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**5.2.5.9** Review potential conflicts of interest when contract employees are employed by multiple NDIS participating and/or vendor laboratories? ☒ ☐

		Yes	No	N/A
<b>5.2.6</b>	Is the technical leader accessible to the laboratory to provide on-site, telephonic, or electronic consultation as needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. If the technical leader oversees a system of separate laboratories, has the technical leader conducted and documented semi-annual on-site visits of each of the laboratories?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>NOTE:</b>	<i>Standards 5.2.7, 5.2.7.1 and 5.2.7.2 may be marked "N/A" if the technical leader has been in the position for less than one year.</i>			
<b>5.2.7</b>	Has a newly appointed technical leader documented a review of the following within one year of appointment?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>5.2.7.1</b> Validation studies and analytical procedures currently used by the laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>5.2.7.2</b> Educational qualifications and training records of currently qualified analysts and technical reviewers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

		Yes	No	N/A
<b>5.3</b>	Is the casework CODIS administrator an employee of the laboratory and does he or she meet the following qualifications?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**NOTE:** *For an audit of a vendor laboratory, Standard 5.3 and all of its substandards will be marked "N/A".*

**NOTE:** *To successfully satisfy Standard 5.3, compliance must be demonstrated with all of the substandards of Standard 5.3.1 through 5.3.3.*

**NOTE:** *Standard 5.3 and Standards 5.3.1 through 5.3.3 may be marked "Yes" if the casework CODIS administrator has been reviewed and memorialized in at least 2 prior external audit documents.*

**NOTE:** *Standard 5.3.1 shall be marked "Yes" if the casework CODIS administrator was appointed prior to July 1, 2020.*



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**5.3.1** Does the casework CODIS administrator meet or exceed the degree and educational requirements in Standard 5.4? ☒ ☐ ☐

**NOTE:** *Standard 5.3.2 shall be marked "Yes" if the CODIS administrator was appointed prior to July 1, 2009.*

**5.3.2** Is the casework CODIS administrator a current or previously qualified analyst with documented mixture interpretation training? ☒ ☐ ☐

**NOTE:** *Standard 5.3.3 a may be marked "N/A" if the casework CODIS administrator has been in the position for less than six months. Standard 5.3.3 and 5.3.3 b may be marked "N/A" if the casework CODIS administrator has been in the position for less than one year.*

**5.3.3** Has the casework CODIS administrator successfully completed the following training requirements? ☒ ☐ ☐

a. FBI-sponsored CODIS software training within six months of appointment, if not previously completed such training? ☒ ☐ ☐

b. FBI DNA auditor training within one year of appointment, if not previously completed such training? ☒ ☐ ☐

**Yes No N/A**

**5.3.4** Is the casework CODIS administrator responsible for the following: ☒ ☐ ☐

**5.3.4.1** Administer the laboratory's local CODIS network? ☒ ☐ ☐

**5.3.4.2** Schedule and document the CODIS computer training of casework analysts? ☒ ☐ ☐

**5.3.4.3** Ensure that the security of data stored in CODIS is in accordance with state and/or federal law and NDIS operational procedures? ☒ ☐ ☐

**5.3.4.4** Ensure that the quality of data stored in CODIS is in accordance with state and/or federal law and NDIS operational procedures? ☒ ☐ ☐

**5.3.4.5** Ensure that matches are dispositioned in accordance with NDIS operational procedures? ☒ ☐ ☐

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**5.3.5** Is the casework CODIS administrator authorized to terminate an analyst's or the laboratory's participation in CODIS until the reliability and security of the computer data can be assured if an issue with the data is identified? ☒ ☐ ☐

**5.3.6** If the casework CODIS administrator position has been unoccupied since the last audit, has the laboratory refrained from uploading new DNA profiles to NDIS during the vacancy? ☐ ☐ ☒

**Yes No N/A**

**5.4** Is each analyst an employee or contract employee of the laboratory and does he or she meet or exceed the following qualifications? ☒ ☐

**NOTE:** *To successfully satisfy Standard 5.4, compliance must be demonstrated with all of the substandards of Standards 5.4.1 through 5.4.2.*

**NOTE:** *Complete Standards 5.4.1 through 5.4.2 for analysts under review. Standard 5.4 and Standards 5.4.1 through 5.4.2 may be marked "Yes" if all analysts have been reviewed and memorialized in at least 2 prior external audit documents.*

**5.4.1** Does each analyst reviewed meet or exceed the following degree and educational requirements: ☒ ☐ ☐

a. B.A./B.S. or advanced degree or its equivalent in a biology-, chemistry-, or forensic science- related area? ☒ ☐ ☐

b. College coursework covering the subject areas of: ☒ ☐ ☐

1. Biochemistry? Yes ☒ No ☐

2. Genetics? Yes ☒ No ☐

3. Molecular biology? Yes ☒ No ☐

c. For analysts hired/appointed/promoted or qualified (as defined by the laboratory per Standard 4.2) prior to July 1, 2020, college coursework or training that covers the subject areas of statistics and/or population genetics as it applies to forensic DNA analysis? ☒ ☐ ☐

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For analysts hired/appointed/promoted or qualified (as defined by the Laboratory per Standard 4.2) on or after July 1, 2020, successful completion of coursework covering statistics and/or population genetics?

**5.4.1.1** Does each of the specific subject areas listed in Standard 5.4.1 constitute an integral component of any coursework used to demonstrate compliance with this Standard? ☒ ☐ ☐

**5.4.1.2** For analysts appointed or hired on or after July 1, 2009, do the required subject areas of biochemistry, genetics, and molecular biology consist of nine or more cumulative semester or equivalent hours? ☒ ☐ ☐

**5.4.1.3** For individuals who have completed coursework with titles other than those listed in Standard 5.4.1, has compliance with this Standard been demonstrated through a combination of pertinent materials such as a syllabus, letter from the instructor, or other documentation that supports the course content, and has the technical leader approved compliance with this Standard? ☒ ☐ ☐

**5.4.2** Does each analyst have six months of forensic human DNA laboratory experience? ☒ ☐ ☐

a. Has each analyst successfully completed the laboratory's required training? ☒ ☐ ☐

**Yes No N/A**

**5.5** Is each technical reviewer an employee or contract employee of the laboratory and meet the education and experience requirements of Standard 5.4? ☒ ☐ ☐

**NOTE:** *To successfully satisfy Standard 5.5, compliance must be demonstrated with Standards 5.5.1 and 5.5.2.*

**NOTE:** *Complete Standards 5.5.1 through 5.5.2 for technical reviewers under review. For qualified analysts under review that are authorized to conduct technical reviews, Standards 5.5 through 5.5.2 will be marked "Yes" if compliance with Standard 5.4 was demonstrated.*

**5.5.1** Is each technical reviewer a current or previously qualified analyst? ☒ ☐ ☐

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- |              |  |                                     |                          |                                     |
|--------------|--|-------------------------------------|--------------------------|-------------------------------------|
| <b>5.5.2</b> | Has each technical reviewer successfully completed documented training?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
|              |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
| <b>5.6</b>   | Is each technician an employee or contract employee of the laboratory and successfully completed laboratory's documented training program?         | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|              |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
| <b>5.7</b>   | Has the technical leader verified and approved the education, to include a review of academic transcripts, of each analyst and technical reviewer? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

**Comment**

5.2.1.4 marked N/A because technical leader has met all requirements of 5.2.1.  
5.2.2.a and 5.2.3 marked N/A because technical leader appointed after July 1, 2009 and before July 1, 2020.  
5.2.6.a marked N/A because laboratory is not part of a multi-laboratory system.  
5.3.6 marked N/A because the casework CODIS administrator position has not been unoccupied since the last audit.  
5.6 marked N/A because the laboratory does not employ any technicians or contract employees.

**Standard 6. Training**

- |              |  |                                     |                          |            |
|--------------|--|-------------------------------------|--------------------------|------------|
|              |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
| <b>6.1</b>   | Does the laboratory have a training program documented in a training manual for qualifying all analyst(s) and technician(s)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>NOTE:</b> | <i>To successfully satisfy Standard 6.1, compliance must be demonstrated with all of the substandards of Standards 6.1.</i>  |                                     |                          |            |
|              | Does the laboratory's training program:  |                                     |                          |            |
| <b>6.1.1</b> | Address all DNA analytical, interpretation, and/or statistical procedures used in the laboratory?                            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>6.1.2</b> | Include practical exercises encompassing the examination of a range of samples routinely encountered in casework?            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |

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- |                |  |                                     |                          |
|----------------|--|-------------------------------------|--------------------------|
| <b>6.1.3</b>   | Teach and assess the technical skills and knowledge required to perform DNA analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>6.1.3.1</b> | Does the laboratory's training program for analysts include the skills and knowledge required to conduct a technical review? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>6.1.4</b>   | Include an assessment of oral communication skills and/or a mock court exercise?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <b>6.1.5</b>   | Include requirements for competency testing?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**Yes      No      N/A**

- |            |   |                                     |                          |                          |
|------------|---|-------------------------------------|--------------------------|--------------------------|
| <b>6.2</b> | Did the technical leader approve any modifications to an analyst's, technical reviewer's, technician's, or laboratory support personnel's required training based on a documented assessment of the individual's previous training and experience?        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>6.3</b> | Prior to participating in independent casework, did all analysts and technicians, regardless of previous experience, successfully complete competency testing covering the routine DNA methods, interpretation, and/or statistical procedures to be used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |                          |

**NOTE:** Complete Standards 6.3.1 through 6.3.2 for analysts under review and technicians that completed the training program since the last external audit. Standards 6.3 through 6.3.2 may be marked "Yes" if all analysts have been reviewed and memorialized in at least 2 prior external audit documents and no technicians have completed training since the last external audit.

- |              |   |                                     |                          |                                     |
|--------------|---|-------------------------------------|--------------------------|-------------------------------------|
| <b>6.3.1</b> | Did the competency testing for a new analyst include a practical component, and written and/or oral components? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>6.3.2</b> | Did the competency testing for a new technician include a practical component?                                  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**Yes      No      N/A**

- |            |   |  |  |  |
|------------|---|--|--|--|
| <b>6.4</b> | For an analyst or technician (currently or previously qualified within the laboratory) to be qualified in a new or additional method: |  |  |  |
|------------|---|--|--|--|

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	Did the laboratory teach and assess the technical skills and knowledge required to perform the additional method?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>6.4.1</b>	Before the use of a new or additional method on forensic samples or casework reference samples:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Did the analyst and/or technician successfully complete competency testing to the extent of his/her participation in casework analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Did the competency testing include a practical component?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>6.5</b>	For an analyst (currently or previously qualified within the laboratory) to be qualified to interpret data and generate reports for a new or additional technology, typing test kit, platform, or interpretation software:			
	Did the laboratory teach and assess the technical skills and knowledge required to interpret data, reach conclusions, and generate reports using the additional technology, typing test kit, platform, or interpretation software?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>6.5.1</b>	Before the use of a new or additional technology, typing test kit, platform or interpretation software on forensic samples or casework reference samples:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Did the analyst successfully complete competency testing using the additional technology, typing test kit, platform or interpretation software to the extent of his/her participation in casework analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Did the competency testing include a practical component?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>NOTE:</b>	<i>Standard 6.6 may be marked "N/A" for a laboratory that does not have individuals that solely conduct technical reviews.</i>			
<b>6.6</b>	Did a technical reviewer, who is not currently qualified as an analyst in the laboratory, receive training on the case notes, data analysis, interpretation, and reporting criteria for any method, technology, typing test kit, platform, or interpretation software or the legacy technology, typing test kit, platform and/or interpretation software on which they were not previously qualified as an analyst in the laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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**6.6.1** Did the technical reviewer successfully complete competency testing before completing a technical review of data and/or reports using the additional method, technology, typing test kit, platform or interpretation software used in casework analyses? ☐ ☐ ☒

**6.6.1.1** For a contract technical reviewer conducting reviews for an NDIS participating laboratory, was the competency testing administered by the NDIS participating laboratory? ☐ ☐ ☒

**Yes No N/A**

**NOTE:** Standards 6.7 through 6.8 may be marked "N/A" for a laboratory that does not reinterpret legacy data.

**6.7** For an analyst to be qualified in reinterpretation of legacy data, for which they were not previously qualified within the laboratory, did the analyst demonstrate the technical skills and knowledge required to interpret data, reach conclusions, and generate reports in the legacy technology, typing test kit, and/or platform? ☐ ☐ ☒

**6.7.1** Did the analyst successfully complete competency testing in the legacy technology, typing test kit, and/or platform to the extent of his/her participation in casework analyses? ☐ ☐ ☒

a. Did the competency testing include practical components of reinterpretation? ☐ ☐ ☒

**6.8** Does the laboratory have and follow procedures for maintaining or reestablishing the technical skills and knowledge of analysts and technical reviewers who reinterpret legacy data for which they are qualified or previously qualified and whose external proficiency testing does not include a legacy technology, typing test kit or platform? ☒ ☐ ☐

**6.8.1** Does the technical leader review the documentation of an analyst's or technical reviewer's maintenance or reestablishment of the technical skills and knowledge and authorize the analyst or technical reviewer to reinterpret legacy data for no more than a two year period? ☒ ☐ ☐

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		Yes	No	N/A
<b>6.9</b>	Does the technical leader review the training records for each analyst, technician, and/or technical reviewer and approve his/her qualifications prior to independent casework responsibilities?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>6.10</b>	Are each analyst, technician, and/or technical reviewer authorized to independently perform the assigned job responsibilities and the date(s) documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>6.11</b>	Do laboratory support personnel have documented training specific to their job function(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>6.12</b>	Does the laboratory have and follow a policy for addressing retraining of personnel when necessary?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Is the technical leader responsible for evaluating the need for and assessing the extent of retraining and approving the retraining plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b>	<i>Standard 6.12.1 will also be completed for any individual on extended leave for a period that takes them out of the proficiency test cycle.</i>			
<b>6.12.1</b>	Did the individual successfully complete competency testing prior to his/her return to participation in casework analyses?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	a. Did the competency testing include a practical component?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>6.13</b>	Does the laboratory maintain records on the training, including successful completion of competency testing, of the laboratory personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**

**6.3.2 marked N/A because the laboratory does not employ any technicians.**

**6.6, 6.6.1, and 6.6.1.1 marked N/A because the laboratory does not have any individuals who conduct solely technical reviews.**

**6.7, 6.7.1, and 6.7.1.a marked N/A because no analyst that was not previously qualified interprets legacy data.**

**6.12.1 and 6.12.1.a marked N/A because one individual taken off casework has not returned to casework since the last audit.**

**Standard 7. Facilities and Evidence Control**



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		Yes	No	N/A
<b>7.1</b>	Does the laboratory physical space ensure the integrity of the analyses and the evidence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b> To successfully satisfy Standard 7.1, the laboratory must demonstrate compliance with all of the substandards of Standard 7.1.				
<b>7.1.1</b>	Does the laboratory have secure, controlled access areas for evidence storage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>7.1.2</b>	Except as provided in Standard 7.1.3.1, are techniques performed prior to polymerase chain reaction (PCR) amplification, such as evidence examinations, DNA extractions, and PCR setup, conducted at separate times or in separate spaces from each another?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>7.1.3</b>	Except as provided in Standard 7.1.3.1, is amplified DNA product, including real-time PCR, generated, processed, and maintained in a room(s) separate from the evidence examination, DNA extractions, and PCR-setup areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Are the doors between rooms containing amplified DNA and other areas closed at all times except for passage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>7.1.3.1</b> Is a Rapid DNA instrument/System used for processing casework reference samples maintained in rooms outside of evidence examination areas or those containing amplified DNA?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>7.2</b>	Does the laboratory have and follow written procedures for laboratory security?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>7.2.1</b>	Is access to the laboratory controlled and limited in a manner that prevents access to the operational areas by unauthorized personnel?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Do all exterior entrance/exit points have security control that limits entry and access into the operational areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b. Is the distribution of all keys, combinations, and other security devices, documented and limited to the personnel designated by laboratory management?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		Yes	No	N/A

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**7.3** Does the laboratory have and follow a documented evidence control program to ensure the integrity of physical evidence? ☒ ☐

**NOTE:** *To successfully satisfy Standard 7.3, the laboratory must demonstrate compliance with all of the substandards of Standard 7.3.*

**7.3.1** For evidence and sample identification: ☒ ☐

a. Is all evidence marked with a unique identifier on the evidence package?

Yes ☒ No ☐

b. Does the laboratory clearly define what constitutes evidence and what constitutes work product?

Yes ☒ No ☐

c. Does the laboratory have and follow a method to distinguish each sample throughout processing?

Yes ☒ No ☐

**7.3.2** Does the laboratory document and maintain a chain of custody, in written, printed, or electronic format, for all evidence, to include the following: ☒ ☐

a. Signature, initials, or the electronic equivalent of each individual receiving or transferring the evidence?

Yes ☒ No ☐

b. The corresponding date for each transfer?

Yes ☒ No ☐

c. Evidentiary item(s) transferred?

Yes ☒ No ☐

**7.3.3** Does the laboratory have and follow procedures for handling and preserving the evidence and work product designed to minimize loss, contamination, and/or deleterious change of evidence and work product? ☒ ☐

**7.3.3.1** Does the laboratory have and follow procedures for securing evidence and work product in progress? ☒ ☐

**7.3.3.2** Does the laboratory have and follow procedures for properly sealing evidence? ☒ ☐

**Yes No N/A**

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- 7.4** Does the laboratory have a policy on sample consumption? ☒ ☐
- 7.4.1** Does the laboratory retain or return a portion of the evidence sample and/or extract, where possible? ☒ ☐
- 7.5** Does the laboratory have and follow documented policies for the disposition of evidence? ☒ ☐

**Comment**

**7.1.3.1 marked N/A because the laboratory does not utilize rapid DNA instruments.**

**Standard 8. Validation**

- |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
|--|-------------------------------------|--------------------------|------------|
| <b>8.1</b> Does the laboratory use validated methods for DNA analyses? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |

**NOTE:** To successfully satisfy Standard 8.1, the laboratory must demonstrate compliance with all of the substandards of Standard 8.

- |  | <b>Yes</b> | <b>No</b> | <b>N/A</b> |
|--|------------|-----------|------------|
| <b>NOTE:</b> Standards 8.2 and 8.3 and all of the substandards may be marked "N/A" if there are no validations to review since the last external audit. Ensure Standard 8.3.3 is "N/A" prior to marking all Standards of 8.3 as "N/A". |            |           |            |

- |   |                          |                          |                                     |
|---|--------------------------|--------------------------|-------------------------------------|
| <b>8.2</b> Have developmental validation studies preceded the use of any new methods implemented for forensic DNA analysis since the last external audit? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|---|--------------------------|--------------------------|-------------------------------------|

- |  |                          |                          |                                     |
|--|--------------------------|--------------------------|-------------------------------------|
| <b>8.2.1</b> For all validations under review: Have developmental validation studies been performed and documented to include, where applicable: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|--|--------------------------|--------------------------|-------------------------------------|

a. Characterization of the genetic marker?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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b. Species specificity?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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c. Sensitivity studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
-------------------------	-----	--------------------------	----	--------------------------	-----	-------------------------------------

d. Stability studies?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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e. Case-type samples?	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input checked="" type="checkbox"/>
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f. Population studies? Yes ☐ No ☐ N/A ☒

g. Mixture studies? Yes ☐ No ☐ N/A ☒

h. Precision and accuracy studies? Yes ☐ No ☐ N/A ☒

i. PCR-based studies to include? Yes ☐ No ☐ N/A ☒

1. Reaction conditions?

Yes ☐ No ☐

2. Assessment of differential and preferential amplification?

Yes ☐ No ☐

3. Effects of multiplexing?

Yes ☐ No ☐

4. Assessment of appropriate controls?

Yes ☐ No ☐

5. Product detection studies?

Yes ☐ No ☐

**8.2.2** Are peer-reviewed publication(s) of the underlying scientific principle(s) of a method available? ☐ ☐ ☒

**8.3** Except as provided in Standard 8.3.1.1, have internal validation of all manual and robotic methods been conducted by each laboratory? **Yes** ☐ **No** ☐ **N/A** ☒

a. Were the appropriate sample number and type to demonstrate the reliability and potential limitations of the method used? ☐ ☐ ☒

**NOTE:** To successfully satisfy Standard 8.3, the laboratory must demonstrate compliance with all of the substandards of Standard 8.3.

**8.3.1** Have internal validation studies included, as applicable: ☐ ☐ ☒

1. Known and non-probative evidence samples or mock evidence samples?

Yes ☐ No ☐ N/A ☒

2. Precision and Accuracy studies?

Yes ☐ No ☐ N/A ☒

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3. Sensitivity and stochastic studies?

Yes ☐ No ☐ N/A ☒

4. Mixture studies?

Yes ☐ No ☐ N/A ☒

5. Contamination assessment studies?

Yes ☐ No ☐ N/A ☒

**8.3.1.1** For multi-laboratory systems:

- a. Are the summaries of all shared validation data available at each site? ☐ ☐ ☒
- b. Has each laboratory in a multi-laboratory system completed, documented, and maintained applicable site-specific studies: ☐ ☐ ☒

1. Precision studies?

Yes ☐ No ☐ N/A ☒

2. Sensitivity studies?

Yes ☐ No ☐ N/A ☒

3. Contamination assessment studies?

Yes ☐ No ☐ N/A ☒

**8.3.2** Have quality assurance parameters and interpretation guidelines been defined pursuant to internal validation? ☐ ☐ ☒  
Including, as applicable:

a. Guidelines for mixture interpretation?

Yes ☐ No ☐ N/A ☒

b. Application of appropriate statistical calculations?

Yes ☐ No ☐ N/A ☒

**8.3.2.1** Do mixture interpretation validation studies include: ☐ ☐ ☒

a. A range of the number of contributors?

Yes ☐ No ☐ N/A ☒

b. A range of template amounts?

Yes ☐ No ☐ N/A ☒

c. Mixture ratios expected to be interpreted in casework?

Yes ☐ No ☐ N/A ☒

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**8.3.3** If a laboratory has had a change in platform instrument model or typing test kit (or laboratory assembled equivalent), have internal validation studies been performed? ☐ ☐ ☒

**8.3.4** Have internal validation studies been documented and summarized? ☐ ☐ ☒

a. Were internal validation studies reviewed and approved by the laboratory's technical leader prior to implementation? ☐ ☐ ☒

**Yes No N/A**

**8.4** Have newly validated DNA methods (from amplification through characterization), typing test kit, or platform instrument model been checked against an appropriate and available certified reference material (or sample made traceable to the certified reference material) prior to the implementation of the method? ☐ ☐ ☒

**8.5** Have modified procedures been evaluated by comparison with the original procedures using similar DNA samples? ☒ ☐ ☐

a. Was the evaluation documented? ☒ ☐ ☐

b. Was the evaluation reviewed and approved by the technical leader prior to the implementation of the modified procedure into casework applications? ☒ ☐ ☐

**8.6** Were Rapid DNA instruments used for modified Rapid DNA analysis on casework reference samples validated in accordance with Standard 8? ☐ ☐ ☒

**8.7** Have NDIS approved Rapid DNA Systems undergone a performance check prior to use on casework reference samples? ☐ ☐ ☒

**Yes No N/A**

**8.8** Is new software or new modules of existing software and modifications to software evaluated to assess the suitability of the software for its intended use in the laboratory and to determine the necessity of validation studies or software testing? ☒ ☐ ☐

a. Is the evaluation documented and does it include the determination of which studies will and will not be conducted? ☒ ☐ ☐

**NOTE:** *Standards 8.8.1 through Standards 8.8.2 and all of the substandards may be marked "N/A" if there are no software validations to review since the last external*

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- 8.8.1** Is new software or new modules of existing software that are used as a component of instrumentation, for the analysis and/or interpretation of DNA data, or for statistical calculations subject to developmental validation prior to implementation in forensic DNA analysis? ☐ ☐ ☒
- 8.8.1.1** With the exception of legally protected information, are the underlying scientific principle(s) utilized by software with an impact on the analytical process, interpretation, or statistical calculations publicly available for review or published in a peer-reviewed scientific journal? ☐ ☐ ☒
- 8.8.1.2** Do the developmental software validation studies for new software or new modules of existing software used as a component of instrumentation include, at a minimum:
- a. Functional testing?  
Yes ☐ No ☐
- b. Reliability testing?  
Yes ☐ No ☐
- 8.8.1.3** Do the developmental software validation studies for new software or new modules of existing software for the analysis and/or interpretation of DNA data include:
- a. Functional testing?  
Yes ☐ No ☐
- b. Reliability testing?  
Yes ☐ No ☐
- c. Accuracy studies (as applicable)?  
Yes ☐ No ☐ N/A ☒
- d. Precision studies (as applicable)?  
Yes ☐ No ☐ N/A ☒
- e. Sensitivity studies (as applicable)?  
Yes ☐ No ☐ N/A ☒
- f. Specificity studies (as applicable)?

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Yes ☐ No ☐ N/A ☒

**8.8.1.4** Do the developmental software validation studies for new software or new modules of existing software for statistical calculations include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Accuracy studies (as applicable)?

Yes ☐ No ☐ N/A ☒

d. Precision studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.2**

Is new software or new modules of existing software that are used as a component of instrumentation, for the analysis and/or interpretation of DNA data, or for statistical calculations subject to internal validation specific to the laboratory's intended use prior to implementation in forensic DNA analysis?

**Yes No N/A**

☐ ☐ ☒

**8.8.2.1** Do the internal software validation studies for new software or new modules of existing software used as a component of instrumentation include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

**8.8.2.2** Do the internal software validation studies for new software or new modules of existing software for the analysis and/or interpretation of DNA data include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Precision and accuracy studies (as



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applicable)?

Yes ☐ No ☐ N/A ☒

d. Sensitivity studies (as applicable)

Yes ☐ No ☐ N/A ☒

e. Specificity studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.2.3** Do the internal software validation studies for new software or new modules of existing software for statistical calculations include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Precision and accuracy studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.2.4** Does software that does not impact the analytical process, interpretation, or statistical calculations undergo, at a minimum, a functional test? ☐ ☐ ☒

**Yes No N/A**

**NOTE:** Standards 8.8.3 and all of the substandards may be marked "N/A" if there are no modifications to software since the last external audit.

**8.8.3** Are any modifications to software as described in Standards 8.8.1 and 8.8.2 evaluated to determine if the modifications result in major or minor revisions to the software? ☐ ☐ ☒

**8.8.3.1** Are any major revisions to software used as a component of instrumentation validated prior to implementation, to include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Regression testing?

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Yes ☐ No ☐

**8.8.3.2** Are any major revisions to software used for the analysis and/or interpretation of DNA data validated prior to implementation, to include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Regression testing?

Yes ☐ No ☐

d. Precision and accuracy studies (as applicable)?

Yes ☐ No ☐ N/A ☒

e. Sensitivity studies (as applicable)?

Yes ☐ No ☐ N/A ☒

f. Specificity studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.3.3** Are any major revisions to software used for statistical calculations validated prior to implementation, to include: ☐ ☐ ☒

a. Functional testing?

Yes ☐ No ☐

b. Reliability testing?

Yes ☐ No ☐

c. Regression testing?

Yes ☐ No ☐

d. Precision and accuracy studies (as applicable)?

Yes ☐ No ☐ N/A ☒

**8.8.3.4** Do any minor revisions to software that does not impact the analytical process, interpretation, or statistical calculations undergo, at a minimum, a functional test? ☐ ☐ ☒

**Yes No N/A**

**8.8.4** For multi-laboratory systems: ☐ ☐ ☒

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- |              |  |                                     |                          |                                     |
|--------------|--|-------------------------------------|--------------------------|-------------------------------------|
| a.           | Are the summaries of shared software validation and software testing data available at each site?                                    | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| b.           | Has each laboratory in a multi-laboratory system completed, documented, and maintained applicable site-specific reliability testing? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>8.8.5</b> | Is all software validation and testing documented and reviewed and approved by the technical leader prior to implementation?         | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

- |            |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>               |
|------------|---|-------------------------------------|--------------------------|--------------------------|
| <b>8.9</b> | Are developmental validation studies, internal validation studies, modified procedure evaluations, and software testing, including the documented approval of the technical leader, available for review? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

**Comment**

**8.2, 8.3, and all sub-standards and 8.4 marked N/A because no new validations since last audit.**

**8.6 and 8.7 marked N/A because the laboratory does not utilize rapid DNA systems.**

**8.8.1 through 8.8.2, and all sub-standards marked N/A because the laboratory has not conducted any software validations since the last audit.**

**8.8.3 and all sub-standards marked N/A because laboratory has not conducted any modifications to software since the last audit.**

**8.8.4, 8.8.4.a, and 8.8.4.b marked N/A because laboratory is not a multi-laboratory system.**

**Standard 9. Analytical Procedures**

- |              |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
|--------------|--|-------------------------------------|--------------------------|------------|
| <b>9.1</b>   | Does the laboratory have and follow written analytical procedures supported by the internal validations and approved by the technical leader?      | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
|              | <b>NOTE:</b> <i>To successfully satisfy Standard 9.1, the laboratory must demonstrate compliance with all of the substandards of Standard 9.1.</i> |                                     |                          |            |
| <b>9.1.1</b> | Does the laboratory have and follow a documented standard operating procedure for each analytical method used?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |

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- a. Do the analytical procedures include the appropriate analytical controls required for DNA analysis and data interpretation? ☒ ☐

**Yes No N/A**

- 9.2** Does the laboratory use reagents that are suitable for the methods employed? ☒ ☐

**NOTE:** To successfully satisfy Standard 9.2, the laboratory must demonstrate compliance with all of the substandards of Standard 9.2.

- 9.2.1** Does the laboratory have written procedures for documenting commercial reagents and for the formulation of in-house reagents? ☒ ☐

- 9.2.2** Are commercial reagents labeled with: ☒ ☐ ☐

- a. The identity of the reagent?

Yes ☒ No ☐

- b. The expiration date as provided by the manufacturer or as determined by the laboratory?

Yes ☒ No ☐

- 9.2.3** Are in-house reagents labeled with: ☒ ☐ ☐

- a. The identity of the reagent?

Yes ☒ No ☐

- b. The date of the preparation and/or expiration?

Yes ☒ No ☐

- c. The identity of the individual preparing the reagent?

Yes ☒ No ☐

**Yes No N/A**

- 9.3** Does the laboratory identify critical reagents and evaluate them prior to use in casework? ☒ ☐

- 9.3.1** Has the laboratory identified and evaluated the following: ☒ ☐ ☐

- a. Test kits (or systems) for performing quantification?

Yes ☒ No ☐ N/A ☐

- b. Test kits (or systems) for performing amplification?

Yes ☒ No ☐ N/A ☐

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**9.3.2** If not tested as test kit components under Standard 9.3.1, has the laboratory identified and evaluated the following: ☐ ☐ ☒

a. Thermostable DNA polymerase?

Yes ☐ No ☐ N/A ☒

b. Primer sets?

Yes ☐ No ☐ N/A ☒

c. Allelic ladders used for genetic analysis?

Yes ☐ No ☐ N/A ☒

**9.3.3** Has the laboratory identified and evaluated Rapid DNA cartridges? ☐ ☐ ☒

**9.3.4** Has the laboratory identified and evaluated other laboratory defined critical reagents? ☒ ☐ ☐

**Yes No N/A**

**9.4** Except as provided in Standard 9.4.1, does the laboratory quantify or otherwise calculate the amount of human DNA in forensic samples prior to nuclear DNA amplification? ☒ ☐ ☐

**9.4.1** If quantification of human DNA for casework reference samples is not performed, does the laboratory have a validated system demonstrated to reliably yield successful DNA amplification and typing without prior quantification? ☐ ☐ ☒

**9.5** With all analytical procedures except Rapid DNA instruments/Systems used to analyze casework reference samples pursuant to Standards 9.7 and 9.8, does the laboratory monitor the analytical procedures using appropriate controls and standards? ☒ ☐

**NOTE:** *The use of Rapid DNA instruments/Systems to analyze casework reference samples is pursuant to Standards 9.7 and/or 9.8.*

**9.5.1** Are reagent blank controls associated with each extraction set being analyzed as follows: ☒ ☐

**9.5.1.1** Extracted concurrently and treated with the most sensitive conditions as the samples? ☒ ☐

**9.5.1.2** Are the reagent blanks amplified using: ☒ ☐

a. The same typing test kit as the sample(s)?

Yes ☒ No ☐

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b. The same instrument model as the sample(s)?

Yes ☒ No ☐

c. The same sensitivity conditions as required by the sample(s) containing the least amount of DNA?

Yes ☒ No ☐

**9.5.1.3** Are the reagent blanks typed using:

☒ ☐

a. The same instrument model as the sample(s)?

Yes ☒ No ☐

b. The same injection conditions as the sample(s)?

Yes ☒ No ☐

c. The most sensitive volume conditions of the extraction set?

Yes ☒ No ☐

**9.5.2** When quantification is used, are standards used?

☒ ☐ ☐

a. If a virtual or external standard curve is utilized, is a calibrator run concurrently with the samples?

☐ ☐ ☒

**9.5.3** Are the positive and negative amplification controls associated with the samples being typed amplified concurrently using the same typing test kit and on the same instrument as the samples?

☒ ☐

**9.5.3.1** Except as provided in 9.5.4.1, are the positive and negative amplification controls associated with the samples typed?

☒ ☐

**9.5.4** For laboratories performing sequencing, are positive and negative sequencing controls concurrently sequenced using the same typing test kit on the same instrument as the samples?

☐ ☐ ☒

**9.5.4.1** If the positive amplification control is not used as the positive sequencing control, does the laboratory have and follow procedures for the evaluation of the positive amplification control?

☐ ☐ ☒

**9.5.5** Are allelic ladders and internal size standards used for PCR-based systems?

☒ ☐ ☐

**Yes No N/A**

**9.6** Does the laboratory have and follow written guidelines for the interpretation of data that are based on and supported by internal validation studies?

☒ ☐

Does the laboratory:

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<b>9.6.1</b>	Have criteria to evaluate quantification standards, internal size standards, allelic ladders, and analytical controls?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.6.2</b>	Have criteria for the interpretation of non-allelic peaks/signal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.6.3</b>	Have criteria for the interpretation of allelic peaks/signal?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.6.4</b>	Define the thresholds used for interpretation? As appropriate to the interpretation model utilized, does the laboratory establish the following thresholds:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.6.4.1</b>	Analytical Threshold?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.6.4.2</b>	Stochastic Threshold?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.6.5</b>	Define criteria for uninterpretable data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.6.6</b>	Have and follow procedures for mixture interpretation to include the following:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Assessment of the number of contributors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Separation of contributors (e.g. major versus minor)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c. Criteria for deducing potential contributors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>9.7</b>	For modified Rapid DNA analysis, does the laboratory:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.7.1</b>	Have and follow written guidelines for the manual interpretation of data?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.7.1.1</b>	Does the laboratory verify that the internal size standard and allelic ladder results meet the laboratory's interpretation guidelines?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.7.2</b>	Have and follow procedures to address the use of positive sample controls and negative sample controls?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.8</b>	For Rapid DNA analysis, does the laboratory have and follow procedures to address the use of positive sample controls and negative sample controls?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>9.8.1</b>	Does the Rapid DNA cartridge include an internal size standard with each sample?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>9.9</b>	Does the laboratory define criteria for the formulation of inclusionary, exclusionary, and inconclusive conclusions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.10</b>	Does the laboratory have and follow procedures for statistical calculations and the reporting of results and conclusions that address the following:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.10.1</b>	The assumptions that can be made when formulating	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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conclusions?

<b>9.10.2</b>	Performing statistical analysis in support of any inclusion that is determined to be relevant in the context of the case?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.10.3</b>	Documenting of the genetic loci and assumptions used for statistical calculations, at a minimum, in the case notes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.10.4</b>	Not using uninterpretable data in statistical calculations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.10.5</b>	The approaches to performing statistical calculations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.10.5.1</b>	For autosomal STR typing, does the procedure address:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Homozygous and heterozygous typing results?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	b. Multiple locus profiles?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	c. Mixtures?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	d. Minimum allele frequencies?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
	e. Where appropriate, biological relationships?			
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>			
<b>9.10.5.2</b>	For lineage marker testing, does the procedure address parameters specific for the applicable lineage marker statistical calculations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.10.5.3</b>	Does the laboratory use loci that are shown to be in Hardy-Weinberg equilibrium and statistically unlinked, when using the product rule for statistical calculations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>9.10.6</b>	The source of the population database(s) used in any statistical calculations?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.10.7</b>	The criteria for source attribution declarations, when applicable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>9.11</b>	Does the laboratory have and follow a procedure to address the reinterpretation of legacy data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9.12</b>	Does the laboratory have and follow a procedure for the detection and control of contamination?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



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**9.12.1** Does the laboratory have and follow procedures for cleaning and decontaminating facilities and equipment? ☒ ☐

**Comment**

**9.3.2.a-c** marked N/A because laboratory uses commercial test kits.

**9.3.3** marked N/A because laboratory does not use rapid DNA systems.

**9.4.1** marked N/A because standard 9.4 requirements are met.

**9.5.2.a** marked N/A because laboratory uses standards during quantification.

**9.5.4** and **9.5.4.1** marked N/A because the laboratory does not perform sequencing.

**9.7**, **9.7.1**, **9.7.1.1**, and **9.7.2** marked N/A because laboratory does not perform modified rapid DNA analysis.

**9.8** and **9.8.1** marked N/A because laboratory does not perform rapid DNA analysis.

**9.10.7** marked N/A because laboratory does not make source attribution statements.

**Standard 10. Equipment Calibration and Maintenance**

	Yes	No	N/A
<b>10.1</b> Does the laboratory use equipment that is suitable for the methods employed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b> To successfully satisfy Standard 10.1, the laboratory must demonstrate compliance with all of the substandards of Standard 10.			
<b>10.2</b> Does the laboratory identify critical equipment or instruments and have and follow a program to ensure they are maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>10.2.1</b> At a minimum, are the following identified as critical:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>10.2.1.1</b> Handheld mechanical pipettes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.2</b> A thermometer traceable to national or international standard(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.3</b> Incubator/Heat block, used in analytical procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.4</b> Robotic systems?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.5</b> Thermal cycler, including quantitative-PCR?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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<b>10.2.1.6</b>	Thermal cycler temperature verification system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.7</b>	Electrophoresis detection systems, including Genetic Analyzers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.2.1.8</b>	Rapid DNA instruments/Systems?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.2.1.9</b>	Any additional instruments or equipment that produce DNA typing results?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>10.3</b>	Does the laboratory have procedures for conducting performance checks and evaluating results of critical equipment or instruments?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>10.3.1</b>	Does the laboratory performance check new critical equipment or instruments, not requiring validation, before use in casework analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Does the laboratory performance check each additional critical instrument, of the same instrument model validated for use in the laboratory, prior to use in casework analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>Equipment or instruments that require validation will be assessed under Standard 8.</i>			
<b>10.3.2</b>	Are the following critical equipment or instruments performance-checked at least annually:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>10.3.2.1</b>	Handheld mechanical pipettes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.2</b>	Incubator/Heat block, used in analytical procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.3</b>	Robotic systems?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.4</b>	Thermal cycler, including quantitative-PCR?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.5</b>	Thermal cycler temperature verification system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.6</b>	Electrophoresis detection systems, including Genetic Analyzers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.7</b>	Any additional instruments or equipment that produce DNA typing results?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.2.8</b>	Other critical equipment or instruments defined by the laboratory as needing annual performance check?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3</b>	Are the following critical equipment or instruments performance-checked after repair or service:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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<b>10.3.3.1</b>	Robotic systems?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3.2</b>	Thermal cycler, including quantitative-PCR?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3.3</b>	Electrophoresis detection systems, including Genetic Analyzers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3.4</b>	Rapid DNA instruments/Systems?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.3.3.5</b>	Any additional instruments or equipment that produce DNA typing results?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.3.6</b>	Other critical equipment or instruments defined by the laboratory as needing performance check after repair or service?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>10.3.4</b>	Are Rapid DNA instruments/Systems performance-checked upon installation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>10.3.5</b>	Are Rapid DNA instruments/Systems performance-checked if the Rapid DNA instrument remains idle longer than the period recommended in the instrument specifications or as established by the laboratory?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>10.4</b>	Does the laboratory maintain documentation of maintenance, service, repair, and performance checks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**Comment**

**10.2.1.8, 10.3.3.4, 10.3.4, and 10.3.5 marked N/A because laboratory does not use rapid DNA instruments.**

**Standard 11. Reports**

		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>11.1</b>	Does the laboratory have and follow written procedures for taking and maintaining casework notes to support the conclusions drawn in laboratory reports?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
a.	Does the laboratory maintain all analytical documentation generated by technicians and/or analysts related to case analyses?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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- b. Does the laboratory retain, in written, printed, or electronic format, sufficient documentation for each technical analysis to support the report conclusions such that another qualified individual can evaluate what was done and interpret the data? ☒ ☐

	Yes	No	N/A
<b>11.2</b> Do casework reports include the following elements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.1</b> Case identifier?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.2</b> Description of evidence examined and identification of samples tested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.3</b> Technology used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.4</b> Loci, sequence region, or amplification system(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.5</b> Results and/or conclusions for each forensic sample tested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.6</b> A quantitative or qualitative interpretative statement to support all inclusions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.7</b> Date of the report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.8</b> Disposition of evidence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.2.9</b> Signature and title, or equivalent identification, of the person accepting responsibility for the content of the report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

	Yes	No	N/A
<b>11.3</b> Does the laboratory maintain the confidentiality of reports, case files, DNA records, and databases, except as otherwise provided by applicable state or federal law?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

**NOTE:** To successfully satisfy Standard 11.3, the laboratory must demonstrate compliance with all of the substandards of Standard 11.3.

<b>11.3.1</b> Does the laboratory have and follow policies and/or procedures to ensure the privacy of reports, case files, DNA records, and databases?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>11.3.2</b> Does the laboratory have and follow policies and/or procedures for the release of reports, case files, DNA records, and databases in accordance with applicable state or federal law?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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- 11.3.3** Does the laboratory have and follow policies and/or procedures for the release of personally identifiable information in accordance with applicable state and federal law? ☒ ☐

**Comment**

**Standard 12. Review**

- |  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
|--|-------------------------------------|--------------------------|------------|
| <b>12.1</b> Does the laboratory have and follow a procedure to conduct and document technical and administrative reviews of all case files and reports to ensure that conclusions and supporting data are reasonable and within the constraints of scientific knowledge? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.1.1</b> Are all technical reviews conducted by an analyst or technical reviewer that is qualified in the method, technology, typing test kit, platform, and interpretation software being reviewed?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <br>   |                                     |                          |            |
|  | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b> |
| <b>12.2</b> Does the laboratory document the completion of the technical review of forensic casework, and does it include the following elements:  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.2.1</b> A review of all case notes, all worksheets, and the electronic data (or printouts of such data) supporting the results and/or conclusions?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.2.2</b> A review of all analytical controls, internal size standards, and allelic ladders to verify that the expected results were obtained, except when using an NDIS approved Rapid DNA System on casework reference samples?                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.2.3</b> A review of all DNA types to verify that they are supported by the raw or analyzed data (electropherograms or images), except when using an NDIS approved Rapid DNA System on casework reference samples?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.2.4</b> A review of all data to verify conclusions (i.e., inclusions, exclusions, inconclusive) are in compliance with laboratory guidelines?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |
| <b>12.2.5</b> A review of statistical analysis, if applicable?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> |            |

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<b>12.2.6</b>	A review of the final report's content to verify compliance with Standard 11.2 and that the results and/or conclusions are supported by the data?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.2.7</b>	Verification that all profiles entered into CODIS are eligible, have the correct DNA types, and correct specimen category?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>12.2.7.1</b>	Prior to upload to SDIS, entry of a DNA profile into a searchable category of SDIS, or search of SDIS, were the following criteria verified by two concordant assessments by a qualified analyst or technical reviewer:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. Eligibility for CODIS?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
b. Correct DNA types?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
c. Appropriate specimen category?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>12.3</b>	Does the laboratory document the completion of the administrative review and does it include the following elements, any or all of which may be included within the technical review process:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.3.1</b>	A review of the case file and final report for clerical accuracy and compliance with Standard 11.2?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>12.3.2</b>	A review of the chain of custody and disposition of evidence?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>12.4</b>	Does the laboratory have and follow policy and/or procedure to address unresolved discrepant conclusions between analysts and reviewer(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>NOTE:</b> Standard 12.5 shall be marked "N/A" for non-NDIS participating laboratories.				
<b>12.5</b>	Does the laboratory have and follow a documented procedure for the verification and resolution of database matches?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Comment**

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### Standard 13. Proficiency Testing

		Yes	No	N/A
<b>13.1</b>	Do analysts, technical reviewers, technicians, and other personnel designated by the technical leader undergo semi-annual external proficiency testing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.1</b>	Are analysts proficiency tested in each technology at least once per calendar year?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.1.1</b>	Has the typing of all CODIS core loci or CODIS core sequence ranges been attempted for each technology performed at least once per calendar year?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.2</b>	Are analysts proficiency tested in each typing test kit at least once per calendar year?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.2.1</b>	Are analysts that are qualified to perform modified Rapid DNA analysis externally proficiency tested on the interpretation of data generated by each Rapid DNA instrument model for each PCR STR typing test kit at least once per calendar year?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>13.1.3</b>	Are individuals that perform analytical procedures on forensic samples or casework reference samples proficiency tested on at least one method in each methodology at least once per calendar year?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.4</b>	Except as provided in Standard 13.1.4.1, is each external proficiency test assigned to and completed by one analyst?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.1.4.1</b>	If technicians and/or a team approach is used for casework examinations, has each analyst been assigned a proficiency test to complete the interpretation and report the results?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>NOTE:</b>	<i>Standard 13.1.5 and the substandards may be marked "N/A" for a laboratory that does not have individuals that solely conduct technical reviews.</i>			
<b>13.1.5</b>	Are individuals whose sole responsibility is technical review proficiency tested in the technical review of each technology and typing test kit at least once per calendar year?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>13.1.5.1</b>	Does the proficiency testing cover the CODIS core loci or CODIS core sequence ranges attempted for each technology at least once per calendar year?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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<b>13.1.5.2</b>	Are technical reviewers qualified to review modified Rapid DNA analysis externally proficiency tested on the technical review of data generated by a Rapid DNA instrument model for each PCR STR typing test kit at least once per year?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>13.1.5.3</b>	If the technical reviewer is a contract employee conducting technical review for an NDIS participating laboratory, is the proficiency testing administered by an NDIS participating laboratory and reviewed and approved by the technical leader of the NDIS participating laboratory for which the technical reviewer is conducting reviews?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>13.1.6</b>	Have newly qualified individuals undergone semi-annual external proficiency testing within eight months of the date of their authorization?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>13.2</b>	Does the laboratory use an external proficiency test provider that is accredited to the current applicable standard of the International Organization for Standardization and is the applicable test included on the proficiency test provider's scope of accreditation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Is the external proficiency testing an open proficiency testing program and is it submitted to the proficiency testing provider in order to be included in the provider's published external summary report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.3</b>	For purposes of tracking compliance with the proficiency testing requirements, does the laboratory define and consistently use the date that the proficiency test is performed as the received date, assigned date, submitted date, or the due date?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>13.4</b>	Are the following records maintained by the laboratory for proficiency tests:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.1</b>	The test set identifier?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.2</b>	Identity of the analyst, and other participants, if applicable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.3</b>	Date of analysis and completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>13.4.4</b>	Copies of all data and notes supporting the conclusions?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	



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	<b>13.4.5</b> The proficiency test results?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>13.4.6</b> Any discrepancies noted?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>13.4.7</b> Corrective actions taken?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>13.5</b>	Does the laboratory evaluate proficiency test results? At a minimum, are the following criteria included in the evaluation of proficiency test results:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>13.5.1</b> Are all reported genotypes, phenotypes, and/or sequences correct or incorrect according to consensus results or are compliant with the laboratory's interpretation guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>13.5.2</b> Are inclusions and exclusions correct or incorrect?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>13.5.3</b> Are all reported uninterpretable results and/or inconclusive conclusions compliant with written laboratory guidelines?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>13.5.3.1</b> Has the technical leader reviewed any inconclusive conclusion for compliance with laboratory guidelines?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>13.5.4</b> Have all final reports been graded as satisfactory or unsatisfactory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>13.5.4.1</b> Have all discrepancies/errors and subsequent corrective actions, as applicable, been documented?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>13.6</b>	Have the following been informed of the results of the proficiency test:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>13.6.1</b> The proficiency test participant(s)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>13.6.2</b> The technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	<b>13.6.3</b> The casework CODIS administrator in the event of non-administrative discrepancies that affect the typing results and/or conclusions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Comment**

**13.1.2.1 marked N/A because laboratory does not perform modified rapid DNA analysis.**

**13.1.4.1 marked N/A because laboratory does not use technicians or the team approach.**

**13.1.5 and sub-standards marked N/A because laboratory does not have analysts who solely conduct technical reviews.**

**13.5.3.1 marked N/A because no inconclusive results reported since last audit.**

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**13.5.4.1 and 13.6.3 marked N/A because no discrepancies or corrective actions taken since last audit.**

## Standard 14. Corrective Action

		Yes	No	N/A
<b>14.1</b>	Does the laboratory have and follow a policy and/or procedure to address nonconformities detected in casework analysis, proficiency tests, testimony, and audits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	a. Does the laboratory policy and/or procedure define when a nonconformity requires documentation and/or a corrective action plan?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>14.1.1</b>	Are corrective action plans documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Yes	No	N/A
<b>14.2</b>	Does the laboratory's documented corrective action plan include the following:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. The identification (when possible) of the cause(s) of the nonconformity?			
		Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
	b. The corrective actions taken with time frames (where applicable)?			
		Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
	c. Preventative measures taken (where applicable) to minimize its reoccurrence?			
		Yes	<input checked="" type="checkbox"/>	No <input type="checkbox"/> N/A <input type="checkbox"/>
<b>14.2.1</b>	Are corrective action plans approved by the technical leader prior to implementation?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>14.2.2</b>	Is the casework CODIS administrator notified when the nonconformity impacts DNA records entered into CODIS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Comment**

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**Standard 15. Audits**

		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>15.1</b>	Has the laboratory been audited annually in accordance with the Quality Assurance Standards for Forensic DNA Testing Laboratories?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Have the annual audits occurred every calendar year at least six months and no more than 18 months apart?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>15.2</b>	Has an external audit been conducted at least once every two years?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Was the external audit conducted by one or more auditor(s) who has successfully completed the FBI's DNA auditor training course from a second agency(ies)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b. Was at least one auditor a current or former analyst previously qualified in the laboratory's current DNA technologies and platforms?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>Auditor(s) and their applicable qualifications will be documented in Appendix C.</i>			
<b>15.2.1</b>	Has the laboratory maintained audit documentation of those analysts, technical reviewers, casework CODIS administrator(s), and technical leader(s) that have had their education, experience, and training qualifications evaluated and approved during two successive, separate external audits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>Approval of an individual's education, experience, and training qualifications shall be documented in Appendix D.</i>			
	<b>15.2.1.1</b> As of July 1, 2020, has the laboratory maintained audit documentation of those individuals that have had their additional qualification in an additional technology(ies), typing test kit(s), or platform(s) evaluated and approved during one external audit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>15.2.2</b>	Has the laboratory maintained the audit documentation for validation studies previously evaluated and approved during one external audit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>Approved validation studies shall be documented in Appendix E.</i>			
<b>15.3</b>	For internal audits, was the internal audit conducted by an audit team with at least one auditor(s) who has successfully completed the FBI's DNA auditor training course?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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- a. Was at least one audit team member a current or former analyst previously qualified in the laboratory's current DNA technologies and platforms? ☒ ☐ ☐

**NOTE:** Auditor team member(s) and their applicable qualifications will be documented in Appendix C.

		Yes	No	N/A
<b>15.4</b>	Have the internal and/or external audits performed pursuant to Standard 15.1 been conducted using the FBI DNA Quality Assurance Standards Audit Document in effect at that time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>15.5</b>	Have internal and external DNA audit documentation and, if applicable, corrective action(s) been reviewed by the technical leader to ensure that findings, if any, were appropriately addressed and has the review been documented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>15.5.1</b>	Have internal and external audit documentation, and if applicable, corrective action(s) been provided to the casework CODIS administrator?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>15.5.2</b>	For NDIS participating laboratories, did the laboratory provide all external audit documentation and laboratory responses to the FBI within 30 days of the laboratory's receipt of the audit document or report?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>15.6</b>	Are previous internal and external audit documents retained and available for inspection during subsequent audits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Comments**

**Standard 16. Professional Development**

		Yes	No	N/A
<b>16.1</b>	Does the laboratory have and follow a documented program to ensure that technical qualifications are maintained through participation in continuing education?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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**16.1.1** Does the technical leader, casework CODIS administrator, and each analyst and technical reviewer stay abreast of topics relevant to the field of forensic DNA analysis by having documented attendance at seminars, courses, professional meetings, or documented lectures or classes in relevant subject areas for a minimum of eight cumulative hours each calendar year? ☒ ☐

**16.1.1.1** Have continuing education hours been documented? ☒ ☐

**NOTE:** *Attendance at regional, national, or international, conferences with content including topics relevant to the field of forensic DNA analysis shall be deemed to provide a minimum of eight hours of continuing education.*

**16.1.1.2** Has the laboratory maintained documentation of attendance through a mechanism such as certificates, attendance lists, or travel documentation? ☒ ☐

**16.1.1.3** With the exception of a regional, national, or international conference, has the laboratory maintained documentation of content through a mechanism such as agenda/syllabus, record of presentation content, or curriculum vitae of the presenter? ☒ ☐ ☐

**16.1.1.4** Has continuing education based on multimedia or internet delivery received approval of the technical leader? ☒ ☐ ☐

**16.1.2** Does the laboratory have and follow a program approved by the technical leader for the annual review of scientific literature that documents the analysts' ongoing reading of scientific literature? ☒ ☐

**16.1.2.1** Does the laboratory maintain or have physical or electronic access to a collection of current books, reviewed journals, or other literature applicable to DNA analysis? ☒ ☐

**Yes No N/A**

**16.2** Does the laboratory have and follow a program that documents the annual review of the testimony of each analyst? ☒ ☐

**16.2.1** Does this program define elements and mechanisms for testimony review? ☒ ☐

**16.2.2** Is the testimony review documented and provided to the testifying individual? ☒ ☐ ☐

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**16.2.2.1** Are any deficiencies and subsequent corrective actions, as applicable, documented? ☒ ☐ ☐

**Comment**

**STANDARD 17. Outsourcing Ownership**

		Yes	No	N/A
<b>17.1</b>	Has the vendor laboratory complied with the FBI Quality Assurance Standards for Forensic DNA Testing Laboratories and the accreditation requirements of federal law?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>For a vendor laboratory, Standards 17.1.1, 17.2, 17.2.2, and Standards 17.3 and 17.4 and their substandards shall be marked "N/A."</i>			
<b>NOTE:</b>	<i>For an NDIS participating laboratory, if a contract for outsourcing is in place or outsourcing is occurring without a contractual agreement, Standard 17 must be assessed even if no samples were outsourced.</i>			
<b>NOTE:</b>	<i>For an NDIS participating laboratory, Standard 17 may be marked "N/A" if the NDIS participating laboratory has not outsourced any DNA-related services for the purposes of taking ownership in the scope of the audit.</i>			
<b>17.1.1</b>	Has the NDIS participating laboratory that outsources to a vendor laboratory acquired the following documentation from the vendor laboratory, and has this documentation been reviewed by the NDIS participating laboratory's technical leader for: a. Compliance with the FBI Quality Assurance Standards for Forensic DNA Testing Laboratories? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> b. Compliance with the accreditation requirements of federal law? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.2</b>	Except as provided in Standard 17.2.1 and 17.2.2, since the laboratory's last external audit, did the NDIS participating laboratory's technical leader approve the technical specifications of the outsourcing agreement before it was awarded?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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- |                 |   |                                     |                          |                                     |
|-----------------|---|-------------------------------------|--------------------------|-------------------------------------|
| <b>17.2.1</b>   | For a vendor laboratory that is performing forensic DNA analysis on behalf of a law enforcement agency or other entity for the purposes of ownership by an NDIS participating laboratory, was documented approval obtained by the vendor laboratory from the appropriate NDIS participating laboratory's technical leader prior to the initiation of analysis?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.2.2</b>   | For the rare instances where the NDIS participating laboratory is requested to take ownership and no outsourcing agreement exists between either the law enforcement agency, the vendor laboratory or that NDIS participating laboratory, prior to acceptance of ownership of product(s) of forensic DNA analyses from the vendor laboratory has the following been documented by the requested NDIS participating laboratory's technical leader: | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.2.2.1</b> | Approval of the casework CODIS administrator and written permission from the NDIS Custodian for any scenario that involves CODIS entry or searching?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.2.2.2</b> | Approval of the technical specifications of testing?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.2.2.3</b> | Review of the documentation of an on-site visit that has occurred within 18 months of the conducted analysis or conduct an on-site visit of the vendor laboratory within 18 months of the conducted analysis?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                 |   | <b>Yes</b>                          | <b>No</b>                | <b>N/A</b>                          |
| <b>17.3</b>     | Does the NDIS participating laboratory have and follow a procedure to verify the integrity of the DNA data received for the purposes of taking ownership of DNA data from a vendor laboratory?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>17.3.1</b>   | Prior to the search of DNA data in SDIS, did an analyst, casework CODIS administrator, or technical reviewer employed by an NDIS participating laboratory review the DNA data to verify specimen eligibility and the correct specimen category for entry into CODIS?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>17.3.2</b>   | Prior to the upload of DNA data generated by the vendor laboratory to SDIS or the reporting of search results, did an NDIS participating laboratory perform an ownership review of the vendor laboratory's data?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

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- |                   |  |                                     |                          |                                     |
|-------------------|--|-------------------------------------|--------------------------|-------------------------------------|
| a.                | Was the ownership review performed by an analyst or technical reviewer employed by an NDIS participating laboratory who is qualified in the technology, platform, and typing test kit used to generate the data and who participates in an NDIS laboratory's proficiency testing program?                                    | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>17.3.2.1</b>   | If the proficiency testing is administered by another NDIS participating laboratory, has the participation in an NDIS participating laboratory's proficiency testing program been reviewed and approved by the technical leader of the NDIS participating laboratory for which the reviewer is conducting ownership reviews? | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.3</b>     | Except as provided in Standard 17.3.4, does the ownership review include the following elements:   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>17.3.3.1</b>   | A review of all DNA types of which the NDIS participating laboratory will take ownership to verify that they are supported by the raw and/or analyzed data (electropherograms or images)?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>17.3.3.2</b>   | A review of all associated analytical controls, internal size standards and allelic ladders to verify that the expected results were obtained?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>17.3.3.3</b>   | A review of the final report (if provided) to verify that the results/conclusions are supported by the data?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>17.3.3.4</b>   | For samples to be entered into CODIS, verification of the DNA types, eligibility, and the correct specimen category?   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>17.3.3.4.1</b> | Is verification of eligibility performed by a current CODIS user?  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| <b>17.3.4</b>     | For an NDIS participating laboratory that outsources to a vendor laboratory performing Rapid DNA analysis on casework reference samples using an NDIS approved Rapid DNA System, does the ownership review for data generated by the Rapid DNA System include:   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.4.1</b>   | A review of the final report (if provided) to verify that the results/conclusions are supported by the Rapid DNA System data?  | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <b>17.3.4.2</b>   | For samples to be entered into CODIS, verification of the eligibility and the correct specimen category?   | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |



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	<b>17.3.4.2.1</b> Is verification of eligibility performed by a current CODIS user?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<b>17.3.4.3</b> A review of the data associated with applicable Rapid DNA System performance checks?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Yes</b>	<b>No</b>	<b>N/A</b>
<b>17.4</b>	Does the NDIS participating laboratory or multi-laboratory system outsourcing DNA sample(s) to a vendor laboratory or accepting ownership of DNA data from a vendor laboratory have and follow a procedure to perform an on-site visit(s) of the vendor laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>NOTE:</b>	<i>An on-site visit is not required when only technical review services are being provided.</i>			
	Does the procedure to perform an on-site visit include, at a minimum:			
<b>17.4.1</b>	A documented initial on-site visit, to assess the vendor laboratory's ability to perform analysis on outsourced casework, prior to the vendor laboratory's beginning of casework analysis for the NDIS laboratory?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>17.4.1.1</b> Has the on-site visit been performed by the technical leader or designated employee of an NDIS participating laboratory who is a qualified or previously qualified analyst in the technology, platform and typing test kit used to generate the DNA data or has an on-site visit coordinated by a designated FBI employee been evaluated and approved by the NDIS participating laboratory's technical leader?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>17.4.2</b>	An annual on-site visit if the NDIS participating laboratory's outsourcing agreement extends beyond one year?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a. Did an annual on-site visit occur every calendar year, with each visit at least six months but no more than 18 months apart?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<b>17.4.2.1</b> If an on-site visit conducted by another NDIS participating laboratory using the same technology, platform and typing test kit used to generate the DNA data or coordinated by a designated FBI employee was accepted, did the technical leader of the NDIS participating laboratory document the review and approval of that on-site visit?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**FORENSIC QAS AUDIT DOCUMENT** for Onondaga County Center for Forensic Sciences  
Laboratory

**Dates of Audit:** September 21-23, 2020

**Comments**

**17.2.1, 17.2.2, 17.2.2.1, 17.2.2.2 and 17.2.2.3 marked N/A because standard 17.2 requirements met.**

**17.3.2.1 marked N/A because analysts performing reviews are enrolled in this laboratory's proficiency testing program.**

**17.3.4, 17.3.4.1, 17.3.4.2, 17.3.4.2.1, and 17.3.4.3 marked N/A because laboratory does not outsource rapid DNA analysis.**

**Dates of Audit:** September 21-23, 2020

## **Appendix A: Findings and Responses**

To be completed by the audit team (Findings) and laboratory (Responses).

Auditors shall reference any standard found to be in non-compliance in the Findings below. Following the standard, a detailed description of the non-compliance shall be provided.

Comments and/or recommendations shall **not** be included in Appendix A.

Additional pages may be attached, as needed.

**Findings:**

None.

**Responses:**

**FORENSIC QAS AUDIT DOCUMENT** for Onondaga County Center for Forensic Sciences Laboratory

**Dates of Audit:** September 21-23, 2020

**Appendix B: Contingency Plan Notification Form**

To be completed by the NDIS participating laboratory in the event of:

1. A vacancy in the technical leader position when there is no qualified individual available to serve as the technical leader.
2. The number of qualified analysts falls below two full-time employees who are qualified analysts.

This form shall be used to document various actions relating to the laboratory's contingency plan. In accordance with the FBI Quality Assurance Standards and the NDIS Operational Procedures Manual, the FBI's NDIS Custodian shall be notified of such vacancy within 5 days and provided with the laboratory's contingency plan within 14 days of the vacancy.

Date technical leader position vacated or number of qualified analysts fell below two full-time employees:	
Date NDIS Custodian and, if applicable, State CODIS Administrator Notified: (must be within 5 days of the vacancy)	
Date contingency plan submitted to the FBI: (must be within 14 days of the vacancy)	
Date FBI approval received:	

Contingency plan attached:

FBI conditions for approval attached, if applicable:

Date new casework/database analysis initiated:

Laboratory:

Signed by: \_\_\_\_\_  
(Name and Signature of Person Completing Form)

Date: \_\_\_\_\_

**Dates of Audit:** September 21-23, 2020

## **Appendix C – Audit Team Self-Verification for QAS Audits**

To be completed by each auditor/audit team member who will be conducting a QAS audit and/or completing the QAS Audit Document.

For external audits, return to the laboratory prior to the scheduled audit date.

For internal audits, maintain in the laboratory's files.

**Name:** Caitlin Oliver

**Employer:** Bureau of Alcohol, Tobacco, Firearms, and Explosives

**Title or Position:** Forensic Biologist

**Qualifications:**

A. Completed FBI DNA Auditor Course: ☒ Yes ☐ No

If yes: (Required for all external auditors)

Year (If multiple, list at least the most recent.): 2020, 2014

B. Current or Previously Qualified DNA Analyst: ☒ Yes ☐ No

If yes:

1. Was the qualification as a Casework and/or Database Analyst?

Enter the qualifying laboratory(ies).

(If multiple, list at least the most recent for each applicable category.)

☒ **Casework:** Bureau of Alcohol, Tobacco, Firearms, and Explosives, Jefferson Parish Sheriff's Office Regional DNA Laboratory

☐ **Database:** Click here to enter qualifying laboratory.

2. Technologies Currently or Previously Qualified In (e.g., STR, mtDNA):

STR, Y-STR.

3. Platforms Currently or Previously Qualified In (e.g., Gel based, CE):

CE.

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**I verify that:**

**The information contained above is correct; and**

**I have read the *Instructions to Audit Team* contained in the applicable Audit Document; and**

**For External Audits, I understand the requirements of Standard 15.2 and**

**I have no conflicts of interest with the laboratory being audited.**

**Signature**



**Date** 9/27/20

**Dates of Audit:** September 21-23, 2020

**Appendix D – Personnel Meeting Minimum Education, Experience, and Training Qualifications As Assessed By External Audit**

To be completed by the audit team. In accordance with Standards 15.2.1 and 15.2.1.1, this form shall be used to document the evaluation and approval of analysts, technical reviewers, casework CODIS administrators and technical leaders during an external audit. **Such personnel shall be assessed in accordance with the applicable Quality Assurance Standards for Forensic DNA Testing Laboratories (QAS)<sup>1</sup> in effect at the time of their hire/appointment or qualification<sup>2</sup>.** Analysts, technical reviewers, casework CODIS administrators and technical leaders who have previously undergone two successive external audit reviews in his/her current role and those reviews have been captured in the corresponding external audit documents do not need to be continuously captured in Appendix D.

**Section 1** is for documenting personnel who are receiving the **first** external audit approval of their education, experience, and the initial training qualifications in this external audit.

**Section 2** is for documenting personnel who are receiving the **second successive** external audit approval of their education, experience, and the initial training qualifications in this external audit.

**Section 3** is for documenting personnel whose **additional training** in new technologies, typing test kits, and/or platforms is receiving external audit approval in this external audit.

---

**Section 1. The following personnel have been evaluated and approved for the first time as meeting the education, experience, and initial training qualifications required under QAS Standard 5.1:**

Analysts/Technical Reviewers <sup>3</sup>	Casework CODIS Administrator	Technical Leader

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<sup>1</sup> Applicable Quality Assurance Standards for Forensic DNA Testing Laboratories may include those that took effect in 2004, 2009 2011, and 2019.

<sup>2</sup> As defined by the laboratory in accordance with Standard 4.2.

<sup>3</sup> For individuals whose initial training qualification in the laboratory is for Technical Review only (i.e., is not currently or previously qualified as an analyst in the laboratory for which they are performing technical reviews), indicate these individuals as “TR only” in the table.

**Dates of Audit:** September 21-23, 2020

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**Section 2. The following personnel have been previously evaluated once in their current role and are receiving the second successive external audit approval of their education, experience, and initial training qualifications required under QAS Standard 5.1:**

Analysts/Technical Reviewers <sup>3</sup>	Casework CODIS Administrator	Technical Leader
	Amy Fairchild (Nestlerode)	Sheila Gentile

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**Section 3. The training of Analyst(s)/Technical Reviewer(s) in additional technologies, typing test kits, platforms, and interpretation software for the following personnel have been evaluated and are receiving external audit approval required under QAS Standards 6.5 through 6.6: [please include the technology, typing test kit, or platform]**

**Dates of Audit:** September 21-23, 2020

## **Appendix E: Approved Validations**

This form may be used to document the evaluation and approval of validations by the external audit team according to **Standard 8**; this documentation to be maintained by the audited laboratory to comply with **Standard 15.2.2**. Modified procedure evaluations and software testing reviewed during the audit will also be listed below.

Validations reviewed during an external audit but not approved in their entirety may be listed in this Appendix with a notation of the study(ies) requiring additional review and approval in order for the validation to be approved.

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To be completed by the external audit team:

Were new developmental and/or internal validations evaluated during this audit?

Yes ☐

No ☒

List of validations approved during this audit:

None.

List of modified procedure evaluations reviewed during this audit:

- Addendum to Internal Validation with Promega® PowerQuant™ System on the 7500 Real-Time PCR System- Full versus Half Volume Reactions
- Promega® Maxwell® FSC Instrument Verification
- MVac® System Collection Method
- BTO Threshold Adjustment

List of software testing reviewed during this audit:

None.



Received by OFS  
09/25/2020



## **Onondaga County Center for Forensic Sciences Laboratory**

2020 - 17025 - Reassessment

Prepared by Deedra Hughes

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Data collected on 2020-09-21

ANSI National Accreditation Board

United States

This assessment report summarizes the outcome of the recent accreditation activity. A separate document, the assessment plan, provides information on the type of activity (*e.g.*, reassessment, surveillance activity, scope extension), the date(s) of the activity, the assessment team members, the requirement documents and the scope by discipline that was assessed for each location. The assessment plan, together with this report, provides a complete picture of the accreditation activity.

The ANSI National Accreditation Board (ANAB) evaluated the competence of the forensic service provider and conformance with all applicable accreditation requirements for the scope of accreditation listed in the assessment plan. Objective evidence of implementation was assessed. The results of an assessment activity are based on a sample of records, locations, and personnel that were available at the time of the activity. Witnessing is an additional technique used in on-site activities.

#### REQUIREMENTS:

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories & ANAB ISO/IEC 17025:2017 Forensic Science Testing and Calibration Laboratories Accreditation Requirements (AR 3125) evaluated over the accreditation cycle are summarized in the following broad categories:

General requirements related to the forensic service provider's commitment to impartiality and confidentiality in its activities.

Structural requirements related to the range of activities, management structure, the authority, roles and responsibilities of personnel. Documented procedures which ensure a consistent application of activities and the validity of results.

Resource requirements related to the impartiality of personnel. Requirements for a training program, competency testing, authorizations and ongoing monitoring to ensure the competence of personnel. Facility and security suitability for activities. Records and procedures for equipment to ensure proper functioning and where applicable, establishment of metrological traceability. Requirements for externally provided products and services.

Process requirements related to the handling of test and calibration items in a manner to maintain the integrity of the item. Requirements for chain-of-custody of items to be tested and appropriate methods and procedures. Ensuring the required performance of the methods along with monitoring the validity of the results. Requirements to ensure results are supported by sufficient technical records and are reported accurately, clearly, unambiguously and objectively. Procedures for nonconforming work and a documented process for handling complaints. Requirements related to the laboratory information management system protection and integrity of data and information.

Management system requirements related to policies and objectives appropriate for the scope of activities. Requirements to control internal and external documents and records. Requirements to address risks and opportunities and timely, well-documented corrective actions. Requirements for an internal audit program and management reviews.

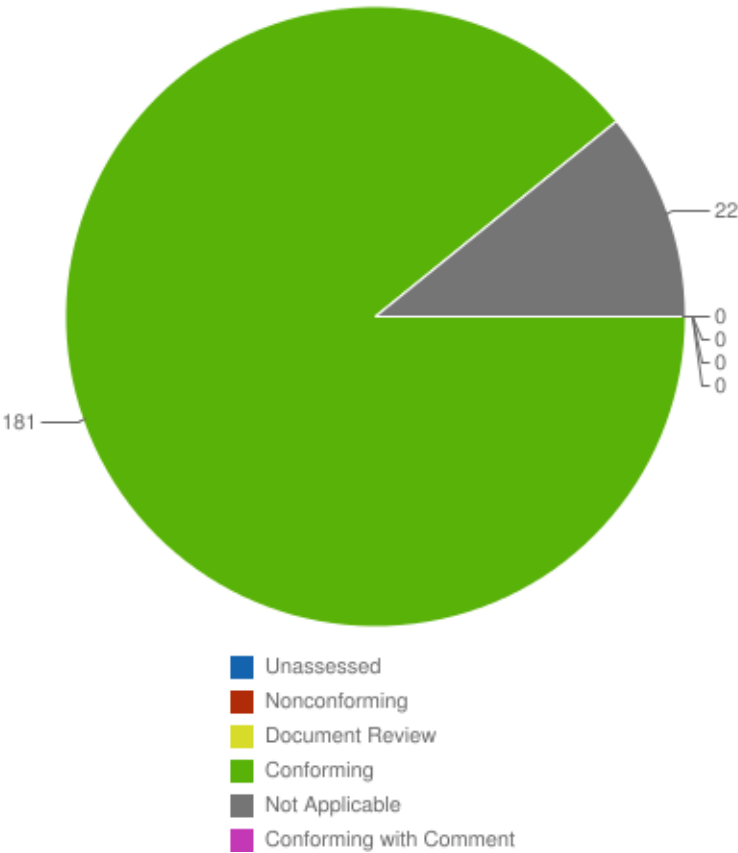
The accreditation activity also evaluates forensic science provider's conformance with their own management system requirements.

#### ASSESSMENT RESULT:

Based on the assessment techniques and sampling reviewed during the assessment activity, the assessment team found that the forensic service provider demonstrated competence to operate a management system that fulfills all applicable accreditation requirements, including those specified within their management system.

Any comments (opportunities for improvement) or nonconformities identified during this assessment activity are noted below. All nonconformities will be resolved prior to an accreditation decision by ANAB and a summary provided in a subsequent assessment activity report.

Summary of Comments



Audit Comments

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Received by OFS  
10/15/2020

October 12, 2020

Kathleen Corrado, Ph.D.  
Onondaga County Center for  
Forensic Sciences Laboratory  
100 Elizabeth Blackwell Street  
Syracuse, New York 13210

Dear Dr. Corrado,

Congratulations! On October 09, 2020 ANAB renewed your organization's accreditation in the Field of Forensic Testing. This decision was based upon the documentation provided in the assessment report and in accordance with the recommendation of the Lead Assessor. ANAB is satisfied that your organization has met or exceeded the accreditation requirements and requirements of your own documented management system.

Accredited forensic service providers are expected to maintain the standards which were required to achieve accreditation and conform to [ANAB Terms and Conditions for Accreditation](#). The principal means used to monitor ongoing conformance include surveillance activities, proficiency testing reports submitted by approved test providers, and disclosure of significant events and nonconformities. The results of these monitoring activities will be considered when confirming the continuation of accreditation between assessments.

The planned surveillance activity and reassessment schedule is listed below:

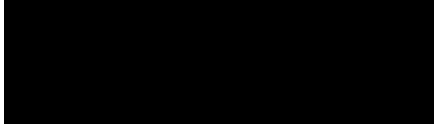
- |                  |                              |
|------------------|------------------------------|
| • September 2021 | Surveillance Document Review |
| • September 2022 | Surveillance Assessment      |
| • September 2023 | Surveillance Document Review |
| • September 2024 | Reassessment                 |

The provided ANAB accreditation symbol may be used to convey your accredited status. An accreditation symbol must not be used in any way which implies accreditation in any area outside of the scope of accreditation. If appropriate, the accreditation symbol may be used on your organization's website, reports, letterhead, business cards, and other official documents. Please refer to [PR 1018 Policy on Use of ANAB Accreditation Symbols and Claims of Accreditation Status](#) for all required information. This policy also provides information on your ability to use a combined mark that contains the ANAB accreditation symbol and the International Laboratory Accreditation Cooperation (ILAC) mark.

The report was provided to you during the assessment activity. An electronic version of accreditation documents is included with this letter. Printed versions of accreditation documents will be sent via common carrier.

Achieving accreditation is the result of an extensive commitment of resources and much preparation by the management and personnel of the entire organization. I commend the efforts of all who were involved in this achievement. On behalf of ANAB, I extend my sincere congratulations to you. If you have any questions or if ANAB might assist you in any way, please feel free to get in touch with us at [qualitymatters@anab.org](mailto:qualitymatters@anab.org).

Sincerely



Nita Bolz  
Sr. Manager of Accreditation  
ANSI National Accreditation Board

cc: Kathleen Hum, Quality Assurance Manager  
ANAB Office

Received by OFS  
10/14/2020



# CERTIFICATE OF ACCREDITATION

**The ANSI National Accreditation Board**

Hereby attests that

**Onondaga County Center for  
Forensic Sciences Laboratory**  
100 Elizabeth Blackwell Street, Syracuse, New York 13210 USA

Fulfills the requirements of

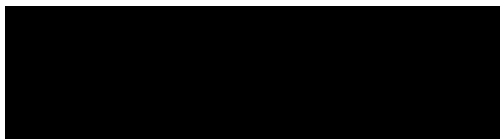
**ISO/IEC 17025:2017**  
**ANAB Forensic Testing & Calibration AR 3125:2019**  
**FBI Quality Assurance Standards for Forensic DNA Testing Laboratories:2020**

In the field of

**Forensic Testing**

This certificate is valid only when accompanied by a current scope of accreditation document.

The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).



Pamela L. Sale, Vice President, Forensics

Expiry Date: 31 January 2025  
Certificate Number: FT-0229





Received by OFS  
10/16/2020

**SCOPE OF ACCREDITATION TO:**  
**ISO/IEC 17025:2017**  
**ANAB Forensic Testing & Calibration AR 3125:2019**  
**FBI Quality Assurance Standards for Forensic DNA Testing Laboratories:2020**

**Onondaga County Center for Forensic Sciences Laboratory**

100 Elizabeth Blackwell Street  
Syracuse, New York 13210 USA

**FORENSIC TESTING**

Expiry Date: 31 January 2025

Certificate Number: FT-0229

<b>Discipline: Biology</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
DNA Profile Determination	Short Tandem Repeat (STR) Y-Short Tandem Repeat (Y-STR)	Capillary Electrophoresis
Individual Characteristic Database	DNA Profile	National DNA Index System (NDIS)
Physical Comparison	DNA Profile	Software Program
Qualitative Determination	Body Fluid Epithelial Cell	Chemical General Microscopy Immunoassay

<b>Discipline: Digital and Video/Imaging Technology and Analysis</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
Acquisition/Extraction	Digital Data	Software Program
Content Analysis	Digital Data	Software Program Visual

<b>Discipline: Fire Debris and Explosives</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
Qualitative Determination	Fire Debris	Gas Chromatography Mass Spectrometry

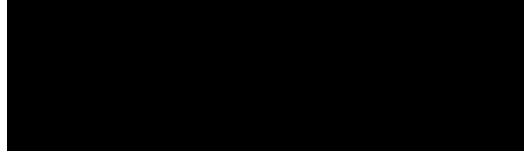
<b>Discipline: Firearms and Toolmarks</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
Distance Determination	Firearm Physical Item	Chemical General Microscopy Measuring Equipment
Function Evaluation	Firearm	Measuring Equipment Visual
Individual Characteristic Database	Ammunition	National Integrated Ballistic Information Network (NIBIN)
Physical Comparison	Ammunition	General Microscopy Visual
Product (Make/Model) Determination	Ammunition Firearm	General Microscopy Measuring Equipment Reference Collection
Serial Number Restoration	Physical Item	Chemical General Microscopy Magnetic Visual

<b>Discipline: Friction Ridge</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
Enhancement	Ridge Detail	Chemical Physical Software Program
Individual Characteristic Database	Ridge Detail	Next Generation Identification System (NGI)
Physical Comparison	Ridge Detail	Software Program Visual

<b>Discipline: Seized Drugs</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
Qualitative Determination	Botanical Liquid Solid	Chemical Gas Chromatography General Microscopy Infrared Spectroscopy Mass Spectrometry Raman Spectroscopy Visual
Quantitative Measurement	Solid	Gas Chromatography Mass Spectrometry
Weight Measurement	Botanical Liquid Solid	Balance



When published on a forensic service provider's Scope of Accreditation, ANAB has confirmed the competence required to develop and validate methods and perform on-going quality assurance for accredited activities. For a listed component/parameter, the forensic service provider may add or modify methods for activities without formal notice to ANAB for items and key equipment/technology listed. Contact the forensic service provider for information on the method utilized for accredited work.



Pamela L. Sale  
Vice President, Forensics

Received by OFS  
08/05/2020



## **Suffolk County Crime Laboratory**

2020 - 17025 - Off-site Review

Prepared by Jana Champion

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Data collected on 2020-08-01

ANSI National Accreditation Board

United States

This assessment report summarizes the outcome of the recent accreditation activity. A separate document, the assessment plan, provides information on the type of activity (*e.g.*, reassessment, surveillance activity, scope extension), the date(s) of the activity, the assessment team members, the requirement documents and the scope by discipline that was assessed for each location. The assessment plan, together with this report, provides a complete picture of the accreditation activity.

The ANSI National Accreditation Board (ANAB) evaluated the competence of the forensic service provider and conformance with all applicable accreditation requirements for the scope of accreditation listed in the assessment plan. Objective evidence of implementation was assessed. The results of an assessment activity are based on a sample of records, locations, and personnel that were available at the time of the activity. Witnessing is an additional technique used in on-site activities.

#### REQUIREMENTS:

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories & ANAB ISO/IEC 17025:2017 Forensic Science Testing and Calibration Laboratories Accreditation Requirements (AR 3125) evaluated over the accreditation cycle are summarized in the following broad categories:

General requirements related to the forensic service provider's commitment to impartiality and confidentiality in its activities.

Structural requirements related to the range of activities, management structure, the authority, roles and responsibilities of personnel. Documented procedures which ensure a consistent application of activities and the validity of results.

Resource requirements related to the impartiality of personnel. Requirements for a training program, competency testing, authorizations and ongoing monitoring to ensure the competence of personnel. Facility and security suitability for activities. Records and procedures for equipment to ensure proper functioning and where applicable, establishment of metrological traceability. Requirements for externally provided products and services.

Process requirements related to the handling of test and calibration items in a manner to maintain the integrity of the item. Requirements for chain-of-custody of items to be tested and appropriate methods and procedures. Ensuring the required performance of the methods along with monitoring the validity of the results. Requirements to ensure results are supported by sufficient technical records and are reported accurately, clearly, unambiguously and objectively. Procedures for nonconforming work and a documented process for handling complaints. Requirements related to the laboratory information management system protection and integrity of data and information.

Management system requirements related to policies and objectives appropriate for the scope of activities. Requirements to control internal and external documents and records. Requirements to address risks and opportunities and timely, well-documented corrective actions. Requirements for an internal audit program and management reviews.

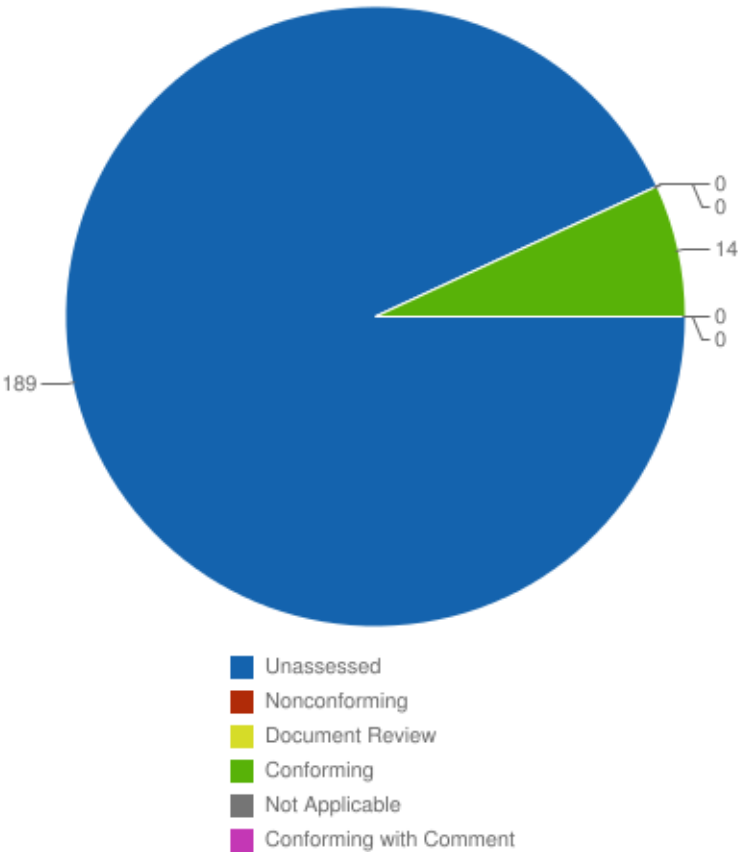
The accreditation activity also evaluates forensic science provider's conformance with their own management system requirements.

#### ASSESSMENT RESULT:

Based on the assessment techniques and sampling reviewed during the assessment activity, the assessment team found that the forensic service provider demonstrated competence to operate a management system that fulfills all applicable accreditation requirements, including those specified within their management system.

Any comments (opportunities for improvement) or nonconformities identified during this assessment activity are noted below. All nonconformities will be resolved prior to an accreditation decision by ANAB and a summary provided in a subsequent assessment activity report.

Summary of Comments



Audit Comments

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Received by OFS  
10/02/2020

October 2, 2020

Robert Genna  
Suffolk County Crime Laboratory  
725 Veterans Memorial Highway  
Hauppauge, New York 11788

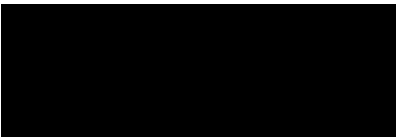
Dear Director Genna,

Congratulations, ANAB has approved the continuation of your organization's accreditation based upon the results of your recent surveillance activity. Continuation of accreditation is a formal acknowledgement that your organization continues to operate in conformance with accreditation requirements. The report was provided to you during the assessment activity.

The provided ANAB accreditation symbol may be used to convey your accredited status. An accreditation symbol must not be used in any way which implies accreditation in any area outside of the scope of accreditation. If appropriate, the accreditation symbol may be used on your organization's website, reports, letterhead, business cards, and other official documents. Please refer to [PR 1018 Policy on Use of ANAB Accreditation Symbols and Claims of Accreditation Status](#) for all required information. This policy also provides information on your ability to use a combined mark that contains the ANAB accreditation symbol and the International Laboratory Accreditation Cooperation (ILAC) mark.

The next assessment activity is scheduled to be a Reassessment in August 2021.

Thank you for your ongoing commitment to quality and the accreditation process.



Nita Bolz  
Senior Manager of Accreditation  
ANSI National Accreditation Board

cc: Constance Dinkel, Quality Manager  
ANAB Office

Received by OFS  
10/02/2020



# CERTIFICATE OF ACCREDITATION

**The ANSI National Accreditation Board**

Hereby attests that

**Suffolk County Crime Laboratory**  
**725 Veterans Memorial Highway, Hauppauge, New York 11788 USA**

Fulfills the requirements of

**ISO/IEC 17025:2017**

**ANAB Forensic Testing & Calibration AR 3125:2019**

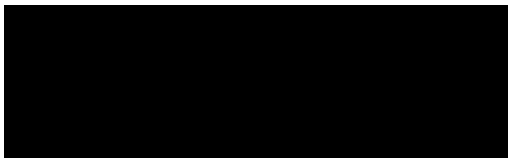
**FBI Quality Assurance Standards for Forensic DNA Testing Laboratories:2011**

In the field of

**Forensic Testing**

This certificate is valid only when accompanied by a current scope of accreditation document.

The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).



Expiry Date: 31 December 2021  
Certificate Number: FT-0219



**SCOPE OF ACCREDITATION TO:**  
**ISO/IEC 17025:2017**  
**ANAB Forensic Testing & Calibration AR 3125:2019**  
**FBI Quality Assurance Standards for Forensic DNA Testing Laboratories:2011**

**Suffolk County Crime Laboratory**

725 Veterans Memorial Highway  
Hauppauge, New York 11788 USA

**FORENSIC TESTING**

Expiry Date: 31 December 2021    Certificate Number: FT-0219

<b>Discipline: Biology</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
DNA Profile Determination	Short Tandem Repeat (STR) Y-Short Tandem Repeat (Y-STR)	Capillary Electrophoresis
Individual Characteristic Database	DNA Profile	National DNA Index System (NDIS)
Physical Comparison	DNA Profile	Software Program
Qualitative Determination	Body Fluid	Chemical General Microscopy Immunoassay

<b>Discipline: Bloodstain Pattern Analysis</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
Area of Convergence/Origin Determination	Stain	Imaging
Bloodstain Pattern Classification	Stain	Visual
Reconstruction	Inspection/Test Result Other Information Physical Item	Not Applicable

<b>Discipline: Document Examination</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
Chemical/Physical Comparison	Content Document Fractured Item Stamp Substrate	General Microscopy Infrared Spectroscopy Reference Collection Software Program Visual
Product (Make/Model) Determination	Ink	Visual
Recovery	Content Document	Electrostatic Detection Device Infrared Spectroscopy Software Program Ultraviolet Spectroscopy Visible Spectroscopy Visual

<b>Discipline: Fire Debris and Explosives</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
Qualitative Determination	Fire Debris	Gas Chromatography Mass Spectrometry

<b>Discipline: Firearms and Toolmarks</b>		
<b>Component/Parameter</b>	<b>Item</b>	<b>Key Equipment/Technology</b>
Distance Determination	Firearm Physical Item	Chemical General Microscopy Measuring Equipment
Function Evaluation	Firearm	Measuring Equipment Visual
Individual Characteristic Database	Ammunition	National Integrated Ballistic Information Network (NIBIN)
Physical Comparison	Ammunition Fractured Item Tool/Toolmark	General Microscopy Visual
Serial Number Restoration	Physical Item	Chemical General Microscopy Visual
Trajectory Determination	Inspection/Test Result Physical Item	Not Applicable



Discipline: Impressions		
Component/Parameter	Item	Key Equipment/Technology
Enhancement	Footwear Tire	Chemical Physical Software Program
Physical Comparison	Footwear Tire	Software Program Visual
Product (Make/Model) Determination	Footwear Tire	Reference Collection

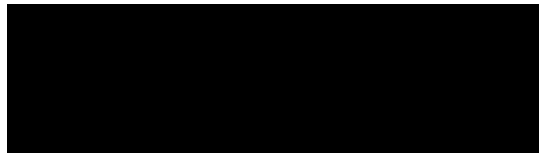
Discipline: Materials (Trace)		
Component/Parameter	Item	Key Equipment/Technology
Chemical/ Physical Comparison	Coating Fiber/Textile Fractured Item General Unknown Glass Hair Metal Polymer Tape	Energy Dispersive Spectroscopy Gas Chromatography General Microscopy Infrared Spectroscopy Mass Spectrometry Microspectrophotometry Refractometry Scanning Electron Microscopy X-ray Fluorescence Spectroscopy
Qualitative Determination	Coating Fiber/Textile Filament General Unknown Glass Gunshot Residue Hair Metal Polymer Tape	Energy Dispersive Spectroscopy Gas Chromatography General Microscopy Infrared Spectroscopy Mass Spectrometry Microspectrophotometry Refractometry Scanning Electron Microscopy X-ray Fluorescence Spectroscopy
Product (Make/Model) Determination	Paint	Reference Collection
Serial Number Restoration	Physical Item	Chemical General Visual

Discipline: Scene Investigation		
Component/Parameter	Item	Key Equipment/Technology
Field Sampling	Physical Item	Not Applicable
Enhancement	Physical Item	Chemical Physical
Qualitative Determination	Body Fluid	Chemical
Reconstruction	Inspection/Test Result	Not Applicable

	Other Information Physical Item Scene	
--	---	--

Discipline: Seized Drugs		
Component/Parameter	Item	Key Equipment/Technology
Qualitative Determination	Botanical Liquid Solid	Chemical Gas Chromatography General Microscopy Infrared Spectroscopy Mass Spectrometry Microcrystalline Raman Spectroscopy Thin-Layer Chromatography Visual
Quantitative Measurement	Botanical Liquid Solid	Liquid Chromatography
Weight Measurement	Botanical Liquid Solid	Balance

When published on a forensic service provider's Scope of Accreditation, ANAB has confirmed the competence required to develop and validate methods and perform on-going quality assurance for accredited activities. For a listed component/parameter, the forensic service provider may add or modify methods for activities without formal notice to ANAB for items and key equipment/technology listed. Contact the forensic service provider for information on the method utilized for accredited work.



Pamela L. Sale  
Vice President, Forensics

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10/19/2020



**Westchester County Department of Laboratories & Research  
Division of Forensic Science**

2020 - 17025T - Reassessment

Prepared by Amanda Julian

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Data collected on 2020-10-06

ANSI National Accreditation Board

United States

This assessment report summarizes the outcome of the recent accreditation activity. A separate document, the assessment plan, provides information on the type of activity (*e.g.*, reassessment, surveillance activity, scope extension), the date(s) of the activity, the assessment team members, the requirement documents and the scope by discipline that was assessed for each location. The assessment plan, together with this report, provides a complete picture of the accreditation activity.

The ANSI National Accreditation Board (ANAB) evaluated the competence of the forensic service provider and conformance with all applicable accreditation requirements for the scope of accreditation listed in the assessment plan. Objective evidence of implementation was assessed. The results of an assessment activity are based on a sample of records, locations, and personnel that were available at the time of the activity. Witnessing is an additional technique used in on-site activities.

#### REQUIREMENTS:

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories & ANAB ISO/IEC 17025:2017 Forensic Science Testing and Calibration Laboratories Accreditation Requirements (AR 3125) evaluated over the accreditation cycle are summarized in the following broad categories:

General requirements related to the forensic service provider's commitment to impartiality and confidentiality in its activities.

Structural requirements related to the range of activities, management structure, the authority, roles and responsibilities of personnel. Documented procedures which ensure a consistent application of activities and the validity of results.

Resource requirements related to the impartiality of personnel. Requirements for a training program, competency testing, authorizations and ongoing monitoring to ensure the competence of personnel. Facility and security suitability for activities. Records and procedures for equipment to ensure proper functioning and where applicable, establishment of metrological traceability. Requirements for externally provided products and services.

Process requirements related to the handling of test and calibration items in a manner to maintain the integrity of the item. Requirements for chain-of-custody of items to be tested and appropriate methods and procedures. Ensuring the required performance of the methods along with monitoring the validity of the results. Requirements to ensure results are supported by sufficient technical records and are reported accurately, clearly, unambiguously and objectively. Procedures for nonconforming work and a documented process for handling complaints. Requirements related to the laboratory information management system protection and integrity of data and information.

Management system requirements related to policies and objectives appropriate for the scope of activities. Requirements to control internal and external documents and records. Requirements to address risks and opportunities and timely, well-documented corrective actions. Requirements for an internal audit program and management reviews.

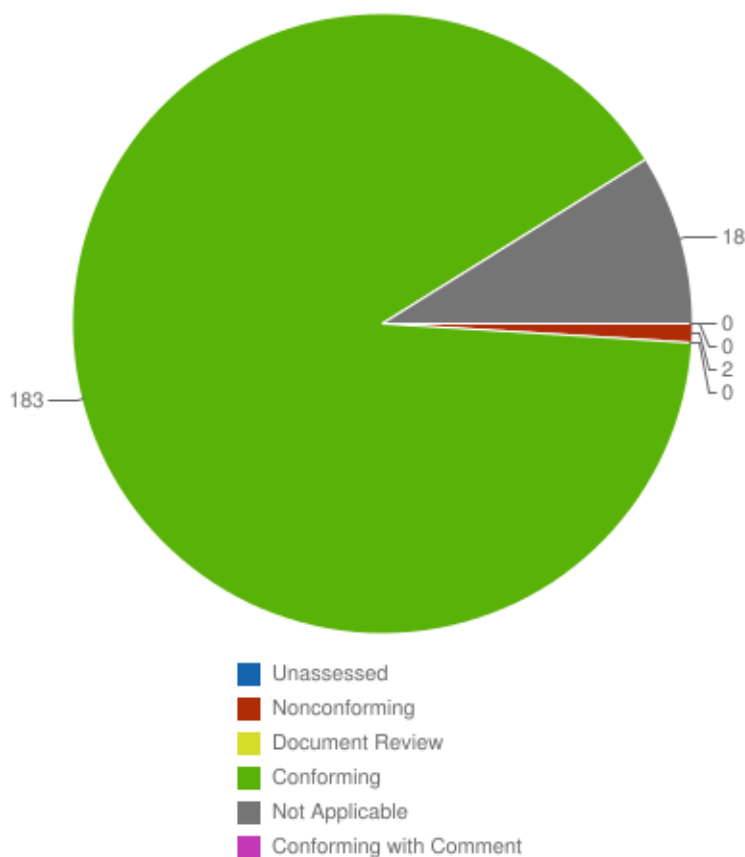
The accreditation activity also evaluates forensic science provider's conformance with their own management system requirements.

#### ASSESSMENT RESULT:

Based on the assessment techniques and sampling reviewed during the assessment activity, the assessment team found that the forensic service provider demonstrated competence to operate a management system that fulfills all applicable accreditation requirements, including those specified within their management system.

Any comments (opportunities for improvement) or nonconformities identified during this assessment activity are noted below. All nonconformities will be resolved prior to an accreditation decision by ANAB and a summary provided in a subsequent assessment activity report.

## Summary of Objective Evidence



## Audit Objective Evidence

### 7.7 Ensuring the validity of results

#### 7.7.2.1 ANAB Accreditation Requirement

**Nonconforming**

##### Requirement

Does the process for monitoring performance by comparison with results of other forensic service providers at a minimum:

- ensure successful completion of at least one proficiency test for each discipline prior to accreditation being granted in that discipline? and
- ensure each location on the scope of accreditation successfully completes, per calendar year, at least one proficiency test for each discipline in which accredited services are provided, with authorized release of the test results to ANAB from the test provider?

NOTE 1 Accreditation occurs in the discipline of Toxicology in both Calibration and Testing. The above requirements apply to the Testing scope of accreditation and Calibration scope of accreditation separately.

NOTE 2 For proficiency tests taken at the end of one calendar year, evaluation of successful completion can occur in the subsequent calendar year.

##### Nonconformity Resolution Workflow

No proficiency test for the Scene Investigation discipline was taken where test results were authorized for release to ANAB from a test provider in 2019.

Due Date & Responsible Party : Amanda Julian until 2020-12-08 (Nonconformity Resolution Workflow not completed)

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**Requirement**

To satisfy the proficiency test requirements in clauses 7.7.2.1.a) and b), did the forensic service provider:

- a) where available and appropriate for the work conducted, use a proficiency test provider that is accredited to ISO/IEC 17043 by an accreditation body that is a signatory to the APAC MRA or IAAC MLA and has the applicable proficiency test(s) on its scope of accreditation? or
- b) where not available or not appropriate for the work conducted, gain approval from ANAB for alternative means by which the laboratory's performance can be assessed? and
- c) submit results to the proficiency test provider, if applicable, on or before the agreed upon due date?

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**Nonconformity Resolution Workflow**

The proficiency test provider used in the Digital and Video/Imaging Technology and Analysis discipline is not accredited to ISO/IEC 17043 nor was approval sought from ANAB for alternative means to assess the laboratory's performance.

Due Date & Responsible Party : Amanda Julian until 2020-12-08 (Nonconformity Resolution Workflow not completed)