

Cuyahoga County Regional Forensic Science Laboratory
11001 Cedar Avenue, Cleveland, OH 44106



DNA LABORATORY EXAMINATION REPORT

Report Date:	11/08/2022	Victim's Name:	Da'Twuan Catchings
CCRFSL Case:	2022-004778	Agency Case:	2022-151034
Contact Person:	Detective Shane Bauhof	Submitting Agency:	CPD Homicide Unit
CCMEO Case:	IN2022-00993	Address:	1300 Ontario Street
Pathologist:	Dr. Thomas Gilson		Cleveland, OH 44113

Items 2, 3, 4, and 5 were transferred by Lisa Przepyszny of the Trace Evidence Unit on 5/31/2022.

Items 17 and 18 were received from Dr. Thomas Gilson of the Cuyahoga County Medical Examiners Office on 6/1/2022.

Items 22, 23, 24, 26, and 33 were submitted by Detective Cindy Pivarnik of the CPD Homicide Unit on 6/7/2022.

<u>Item</u>	<u>Sub-Item</u>	<u>Description</u>
2		Swab from the right hand fingernails of the victim
3		Swab from the left hand fingernails of the victim
4		Swabs from the knuckles and palm of the right hand of the victim
5		Swabs from the knuckles and palm of the left hand of the victim
17		Bloodstain card from Da'Twuan Catchings
18		Buccal swabs from Da'Twuan Catchings
22		<i>2 Swabs suspected touch DNA from firearm (Glock 19 serial #BTRS786)</i>
23		<i>(3) fired RP 9mm luger cartridge casings</i>
	23.1	Swab from casings (Marker #s 16-17, 20)
24		<i>(2) Swabs suspected touch DNA from firearm (Springfield Armory 9mm Serial# BA580558)</i>
26		<i>Tan extended magazine with suspected blood</i>
	26.1	Swabs from stained area of magazine
33		<i>(6) Spent 9mm cartridge casings</i>
	33.1	Swabs from casings (Marker #s 2-7)

If the evidence description is displayed in italics and/or quotation marks, it has been provided by the submitting agency.

DNA STR (Short Tandem Repeat) analysis:

DNA obtained from items 17, 22, 24, 26.1, and 33.1 was characterized through the Polymerase Chain Reaction (PCR) at the genetic loci Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, PentaE, D16S539, D18S51, D2S1338, CSF1PO, PentaD, TH01, vWA, D21S11, D7S820, D5S818, TPOX, DYS391, D8S1179, D12S391, D19S433, FGA, and D22S1045 using the Promega PowerPlex Fusion amplification system.



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Results and Conclusions:

The presumptive test indicated the presence of blood in item 26. No confirmatory testing was performed.

The DNA profile obtained from item 22 is a mixture. A likelihood ratio was calculated assuming item 22 contained DNA from three unknown contributors.

A match was identified between item 22 and Da'Twuan Catchings (item 17). This match is: 515 septillion times more probable than a coincidental match to an unrelated African American person, 18.3 octillion times more probable than a coincidental match to an unrelated Caucasian person, and 157 octillion times more probable than a coincidental match to an unrelated Hispanic person.

A likelihood ratio was calculated assuming item 22 contained DNA from Da'Twuan Catchings and two unknown contributors.

Due to insufficient genetic information, match support for DeCarlo Fields (CCRFSL Case #2022-005161 item 6) to item 22 is inconclusive.

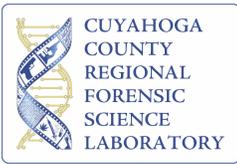
The DNA profile obtained from item 24 is a mixture. A likelihood ratio was calculated assuming item 24 contained DNA from three unknown contributors.

A match was identified between item 24 and Da'Twuan Catchings. This match is: 35.8 million times more probable than a coincidental match to an unrelated African American person, 56.5 million times more probable than a coincidental match to an unrelated Caucasian person, and 288 million times more probable than a coincidental match to an unrelated Hispanic person. No statistical support for a match was identified between item 24 and DeCarlo Fields.

The DNA profile obtained from item 26.1 is a single source of male origin. A likelihood ratio was calculated assuming item 26.1 contained DNA from one unknown contributor.

A match was identified between item 26.1 and Da'Twuan Catchings. This match is: 4.93 octillion times more probable than a coincidental match to an unrelated African American person, 1.04 nonillion times more probable than a coincidental match to an unrelated Caucasian person, and 5.25 nonillion times more probable than a coincidental match to an unrelated Hispanic person.

No statistical support for a match was identified between item 26.1 and DeCarlo Fields.



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The DNA profile obtained from item 33.1 is a single source of male origin. A likelihood ratio was calculated assuming item 33.1 contained DNA from one unknown contributor.

A match was identified between item 33.1 and Da'Twuan Catchings. This match is: 34.2 quintillion times more probable than a coincidental match to an unrelated African American person, 987 quintillion times more probable than a coincidental match to an unrelated Caucasian person, and 6.97 sextillion times more probable than a coincidental match to an unrelated Hispanic person.

No statistical support for a match was identified between item 33.1 and DeCarlo Fields.

Please refer to the DNA Laboratory Examination Report issued separately in CCRFSL Case #2022-005161 for item 6.

Items 23, 26, and 33 were transferred to the Firearm & Toolmark Unit.

Items 2, 3, 4, 5, 17, and 18 have been retained at the appropriate temperature in the laboratory.

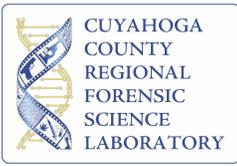
Analyst: Carey M. Baucher
Carey Baucher M.S.
Forensic Scientist

Technical Reviewer: Nasir Butt
Nasir Butt Ph.D.
DNA Technical Manager and Supervisor

Comments

The likelihood ratios were calculated using TrueAllele technology.

The genetic locus DYS391 was not used in statistical calculations.



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The NIST U.S. autosomal STR database was used for statistical calculations.

Chemical tests were used for body fluid identification indicated in this report.

Items not listed under the 'Results and Conclusion' section above were not tested.

Results and conclusions in this report include opinions and interpretations.

Please submit a buccal swab standard(s) for comparison purposes.

The remaining evidence and any sub-items created for subsequent testing, have been stored at the appropriate temperature in the laboratory and are ready to be picked up by the submitting agency.

All remaining DNA extracts (if any) will be maintained at the appropriate temperature in the laboratory.

All laboratory activities related to this case were completed between the date the evidence was received, as noted in this report, and the report's issue date. Specific activity dates are maintained in the case file for the case.

Results in this report relate only to the items tested and apply to the sample(s) as received.

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