



The Commonwealth of Massachusetts
Department of State Police



CHARLES D. BAKER
GOVERNOR

Crime Laboratory

CHRISTOPHER S. MASON
COLONEL/SUPERINTENDENT

KARYN E. POLITO
LIEUTENANT GOVERNOR

124 Acton Street

R. SCOTT WARMINGTON
DEPUTY SUPERINTENDENT

TERRENCE M. REIDY
SECRETARY

Maynard, MA 01754

Telephone: (978) 451-3300 Facsimile: (978) 451-3320

CRIMINALISTICS REPORT

Laboratory Case Number: 22-03176

Report Date: October 03, 2022

Victim(s): N/A

Incident Number: 2022-110-0252

Suspect(s): Brendan Reilly

Town: Lexington

Report To: Trooper Christopher J. Murgo #4187, MSP Middlesex County Detective Unit

Report Cc: ADA Graham Van Epps, Middlesex County District Attorney's Office

GUNSHOT RESIDUE TESTING

The following materials were reviewed in the preparation of this report:

- The Commonwealth of Massachusetts Office of the Chief Medical Examiner Report of Autopsy for Decedent Brendan Michael Reilly by Dr. Maria Del Mar Capo-Martinez dated July 15, 2022.
- CD of photographs taken by Lt. Colleen Tanguay, Massachusetts State Police Crime Scene Services Section, at the autopsy of Brendan Michael Reilly on February 13, 2022.

Item Number and Evidence Description	Damage Analysis	Particulate Matter	Nitrite Confirmatory	GSR Distance Determination	Copper Confirmatory	Lead Confirmatory	Notes
Item 1-8 Damage area 1 on front right leg of shorts – Brendan Reilly	Holes	Not detected	Positive	Inconclusive	===	===	Testing included Holes A through F. GSR Distance Determination was inconclusive due to insufficient information needed to perform analysis.

Item Number and Evidence Description	Damage Analysis	Particulate Matter	Nitrite Confirmatory	GSR Distance Determination	Copper Confirmatory	Lead Confirmatory	Notes
Item 1-8 Damage area 2 on front left side, below waistband, of shorts – Brendan Reilly	Holes	Not detected	Positive	Inconclusive	===	===	Testing included Holes G and H. GSR Distance Determination was inconclusive due to insufficient information needed to perform analysis.
Item 1-8 Damage area 3 on back left leg of shorts – Brendan Reilly	Hole	Not detected	Positive	Inconclusive	===	===	GSR Distance Determination was inconclusive due to insufficient information needed to perform analysis.
Item 1-8 Damage area 4 on back center, below waistband, of shorts – Brendan Reilly	Holes	Not detected	Positive	Inconclusive	===	===	Testing included Holes I through T. GSR Distance Determination was inconclusive due to insufficient information needed to perform analysis.
Item 1-8 Damage area 5 on back right leg, below pocket, of shorts – Brendan Reilly	Holes	Not detected	Positive	Inconclusive	===	===	Testing included Holes U through Y. GSR Distance Determination was inconclusive due to insufficient information needed to perform analysis.
Item 1-9 Holes 1 and 2 on upper right chest of shirt – Brendan Reilly	Holes	Inconclusive	Positive	Within muzzle to target distance	===	===	Inconclusive due to insufficient information obtained from analysis. The maximum distance exceeds the capacity of the test firing apparatus. Residues were observed up to 108 inches.

Item Number and Evidence Description	Damage Analysis	Particulate Matter	Nitrite Confirmatory	GSR Distance Determination	Copper Confirmatory	Lead Confirmatory	Notes
Item 1-9 Hole 3 on front lower right side of shirt – Brendan Reilly	Hole	Not detected	Positive	Within muzzle to target distance	===	===	The maximum distance exceeds the capacity of the test firing apparatus. Residues were observed up to 108 inches.
Item 1-9 Hole 4 on back lower left side of shirt – Brendan Reilly	Hole	Inconclusive	Positive	Inconclusive	===	===	Particulate matter inconclusive due to insufficient information obtained from analysis. GSR Distance Determination was inconclusive due to insufficient information needed to perform analysis.
Item 1-9 Area A on back lower right side of shirt – Brendan Reilly	Holes	Inconclusive	Positive	Inconclusive	===	===	Testing included Holes 5 through 11. Particulate matter inconclusive due to insufficient information obtained from analysis. GSR Distance Determination was inconclusive due to insufficient information needed to perform analysis.

Positive = Testing for the residue listed was positive.

Negative = Testing for the residue listed was negative.

Inconclusive = See Notes.

=== Not examined at this time/Not Applicable

Damage Analysis = Damage, consistent with the type listed, was observed.

Particulate Matter = The area around the damage was microscopically examined for the presence of particulate matter. Particulate matter was/was not detected.

Particulate Matter Inconclusive = The detection of particulate matter was inconclusive due to insufficient information obtained from analysis.

Nitrite Confirmatory = A positive result confirms the presence of nitrites.

GSR Distance Determination = Contact/Near Contact = Gunshot residue (GSR) and/or physical effects consistent with a contact or near contact shot were found.

GSR Distance Determination = Weapon for comparison submitted = Gunshot residue (GSR) deposits were found. Accordingly, the garment was within the muzzle-to-target distance for this firearm when the shot was fired. Using the known weapon with ammunition similar to the questioned cartridges, this residue was not detected beyond the range listed.

GSR Distance Determination = Weapon for comparison not submitted = Gunshot residue (GSR) deposits were found. Accordingly, the garment was within the muzzle-to-target distance for this firearm when the shot was fired. However, without controlled test-fire simulations with the suspect weapon, the muzzle-to-target distance cannot be determined.

Copper Confirmatory = Wipe = Copper residues were found which are consistent with bullet wipe indicating the passage of a projectile through this item, forming the observed hole.

Lead Confirmatory = Wipe = Lead residues were found which are consistent with bullet wipe indicating the passage of a projectile through this item, forming the observed hole.

REPORT COMMENTS

Items selected for DNA analysis are listed in the enclosed Sample Summary Form.

Further analysis upon request. Comparative analysis requires the submission of appropriate standards.

Please direct all requests to the signed analyst at the number listed in the header of this report.

This report reflects the test results, conclusions, interpretations, and/or the findings of the analyst as indicated by the signature below. Reported results relate only to the items tested, sampled, certified, calibrated, or data processed. Information regarding any items which the laboratory collected or created and preserved for future testing is available upon request.



Stephanie J. Waite

Forensic Scientist III

Massachusetts State Police Crime Laboratory

This report was electronically signed using password protected software.

**Massachusetts State Police Crime Laboratory
Sample Summary Form**

Lab Number/Agency Number	22-03176 / 2022-110-0252	Analyst	Stephanie J. Waite	
Case Officer/Town	Trooper Christopher J. Murgo #4187/Lexington	DNA Standard Status		
County/DA point of contact	Middlesex County / ADA Graham Van Epps	Received	Requested	N/A
Victim(s)	N/A			x
Suspect(s)	Brendan Reilly	x		
Other (list type e.g. Consensual partner)				x

Please contact the Case Management Unit (CMU) at 978-451-3440 or email mspcicmu@mass.gov if the status of this case has changed, to request analysis, to request a complete list of items associated with this case or if you have any questions or concerns.

The samples included herein have been retained at the laboratory and are available for testing.

Samples selected for testing at this time will be marked (X) in the "Sample Selected for Analysis" field. No additional requests for analysis are needed for these samples.

Additional testing may proceed on the remaining samples upon request or evaluation in order to establish a forensic link between individuals and the crime. Direct all requests to the Case Management Unit.

DNA Analysis:

The DNA unit requires the submission of known DNA standards of individuals in the case in order to report a comparative analysis and to assist with the evaluation of the eligibility of casework DNA profiles for entry into CODIS.

Sample(s) may not be amenable for CODIS upload but suitable for comparative analysis.

Quantity limited sample (QLIM). The Case Management Unit will provide the prosecuting agency with additional documentation required to proceed with testing.

QLIM or BFT Only = The item(s) are of limited quantity. If screening for biological fluids is required on this item, DNA testing WILL NOT be available.

Hold = DNA analysis proceeding is dependent upon results from another unit.

Item Number	Sample Description	Sample Selected for Analysis	Analysis Type	Comments
3-1.2.1	sample of knife handle - on road, Burlington Street	x	EZ1	

Criminalistics Analysis:

Item Number	Sample Description	Analysis Type	Comments
3-1.1	trace material from knife on road, Burlington Street	Trace identification	