



IDAHO STATE POLICE FORENSIC SERVICES

700 South Stratford Drive, Ste 125

Meridian, ID 83642-6202

Phone: (208) 884-7170

Fax: (208) 884-7197

FORENSIC DNA REPORT

Case Agency(s) : MOSCOW POLICE DEPARTMENT	Agency Case No(s).: 22-M09903	Laboratory Case No.: M2022-4843 XREF: M2022-4870
Date(s) of Offense: 11/13/2022	Investigating Officer(s): Dustin Blaker	Report No.: 4
Date Evidence Accepted: 11/16/2022, 11/18/2022	Analyst: Taylor Maichak	
<u>Case Name(s):</u> Suspect - JACK S DUCOEUR Subject - BETHANY G FUNKE Subject - DYLAN M MORTENSEN Victim - MADISON M MOGEN Victim - XANA A KERNODLE Victim - ETHAN J CHAPIN Victim - KAYLEE J GONCALVES		

EVIDENCE DESCRIPTION:

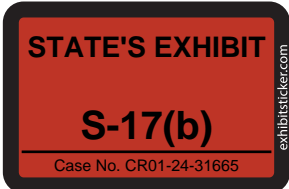
- Item 1.1: Swab of front strap of knife sheath
- Item 1.2: Swab of edges on handle portion of knife sheath
- Item 1.3: Swab of edges on blade portion of knife sheath
- Item 1.4: Swabs of stains on back of knife sheath
- Item 2: DNA Extracts from Items 1.1, 1.2, 1.3, and 1.4
- Item 5: Reference blood card from Ethan Chapin
- Item 8: Reference blood card from Xana Kernodle
- Item 11: Reference blood card from Madison Mogen
- Item 14: Reference blood card from Kaylee Goncalves
- Item 17: Reference oral swabs from Jack Ducoeur
- Item 18: Reference DNA sample from Bethany Funke
- Item 19: Reference DNA sample from Dylan Mortensen
- Item 20: DNA Extracts from Items 3, 4, 5, 6.1, 7.1, 8, 9.1, 10.1, 11, 12.1, 13.1, 14, 15.1, 16.1, 17, 18, and 19

CONCLUSIONS AND INTERPRETATIONS:

Deoxyribonucleic Acid (DNA) Analysis, employing the Polymerase Chain Reaction (PCR), was used to generate a Short Tandem Repeat (STR) profile from Items 1.1, 1.2, 1.3, 1.4, and a portion of Items 5, 8, 11, 14, 17, 18, and 19. ¹

FOOTNOTES

¹ Loci Examined: Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, Penta E, D16S539, D18S51, D2S1338, CSF1PO, Penta D, TH01, vWA, D21S11, D7S820, D5S818, TPOX, DYS391, D8S1179, D12S391, D19S433, FGA, and D22S1045.



The DNA profile obtained from Item 1.1 was determined to be from an unknown male. Ethan Chapin, Jack Ducoeur, John Showalter (See Item 1, M2022-4870, Report No. 1 issued 11/20/2022) and Cole Barenberg (See Item 2, M2022-4870, Report No. 1 issued 11/20/2022) are not the source of DNA on this item. This DNA profile was entered into the Combined DNA Index System (CODIS) to be routinely searched against the database. The case agency will be notified in the event of a profile match.

The DNA profile obtained from Item 1.4 indicates a mixture of DNA with a major profile, which matches that obtained from the known reference sample of Kaylee Goncalves. Assuming a two person mixture, this DNA profile is at least 757 septillion (7.57×10^{26}) times more likely to be seen if it were the result of a mixture of DNA from Kaylee Goncalves and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Madison Mogen is a potential contributor to the minor component of this mixture. Assuming a two person mixture, this DNA profile is at least 48.6 quintillion (4.86×10^{19}) times more likely to be seen if it were the result of a mixture of DNA from Madison Mogen and an unrelated, randomly selected individual than if it resulted from two unrelated individuals randomly selected from the general population.

Ethan Chapin, Xana Kernodle, Jack Ducoeur, Bethany Funke, Dylan Mortensen, John Showalter, and Cole Barenberg are excluded as contributors to this DNA mixture.

The partial DNA profile obtained from Item 1.2 indicates a mixture of DNA from three individuals, at least one of which is male. Due to the low level results and limited data, no comparisons can be made.

The partial DNA profile obtained from Item 1.3 indicates a mixture of DNA from at least two individuals, at least one of which is male. Due to the low level results and limited data, no comparisons can be made.

DISPOSITION OF EVIDENCE:

Items 1.1 and 1.4 were consumed during testing; however, DNA extract remains for these items. Items 1.2 and 1.3 and their DNA extracts were consumed during testing. Item 20 has been returned to the main laboratory evidence vault pending additional DNA analysis. All other items and the empty packaging for Items 1.1, 1.2, 1.3, and 1.4 have been returned to the main laboratory evidence vault for return to the submitting agency.

REMARKS:

The descriptions, conclusions and interpretations stated above apply to the sample(s) as received.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.



Taylor Maichak / Forensic Scientist

Issue Date: **11/20/2022**

Idaho State Police DNA Restitution

THIS IS NOT AN INVOICE

This is a request for restitution that may be granted by the court. If you are the subject associated with this report, this is not a bill, we are merely requesting that the court assign restitution if they deem it is appropriate.

As provided in Idaho Code 19-5506(7), the Idaho State Police requests restitution from the defendant(s), **JACK S DUCOEUR** in the amount of **\$2,000** in association with Laboratory Case No. **M2022-4843**. This amount is based upon the number of DNA analyses performed at a cost of \$500 each, not to exceed \$2,000. The amount requested reflects a portion of the costs incurred to the laboratory during the analysis.

Item	Cost
Item 1.1	\$500
Item 1.2	\$500
Item 1.3	\$500
Item 1.4	\$500
Item 5	---
Item 8	---
Item 11	---
Item 14	---
Item 17	---
Item 18	---
Item 19	---

Please present this restitution request form and a copy of the laboratory report to the court at the time of sentencing.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.



Taylor Maichak / Forensic Scientist

Please make checks payable to: Idaho State Police
Forensic Services
700 South Stratford
Meridian, Idaho 83642-6202

(Notice to subject of this report – restitution is paid through the court and they, in turn, will direct payment to Idaho State Police. Personal checks or money orders received by Idaho State Police will be returned.)

Thank you for your cooperation in this matter.

If you have any questions about the restitution, please contact:
Rylene Nowlin (Meridian Laboratory Manager)

TM

BIOLOGY ANALYSIS NOTES

Case: M2022-4843

Examiner: Taylor Maichak

Dates of analysis: 11/19/2022 to 11/20/2022

General Analysis

Item 11-Reference blood card from Madison Mogen

<u>Task/Test</u>	<u>Value</u>
Date of Analysis	11/19/2022
Seal	evidence tape
Initialed	Yes
Packaging	small manila envelope
Package Labeling	Mogen, Madison...blood card...22-M09903
Contents Description/Notes	bloodstain card labeled Mogen, Madison ~3mm ² to DNA repack, ets

Item 14-Reference blood card from Kaylee Goncalves

<u>Task/Test</u>	<u>Value</u>
Date of Analysis	11/19/2022
Seal	evidence tape
Initialed	Yes
Packaging	small manila envelope
Package Labeling	Goncalves, Kaylee...blood card...22-M09903
Contents Description/Notes	bloodstain card labeled Goncalves, Kaylee ~3mm ² to DNA repack, ets

Item 17-Reference oral swabs from Jack Ducoeur

<u>Task/Test</u>	<u>Value</u>
Date of Analysis	11/19/2022
Seal	evidence tape
Initialed	Yes
Packaging	white envelope
Package Labeling	DNA swab from Ducoeur...22-M09903 note: prelogged as "buccal swabs from Ducoeur", name entered into prelog as Jack Ducoeur
Contents Description/Notes	unlabeled swab box w/ 2 white swabs ~1/4 x 1 to DNA repack, ets

Item 18-Reference DNA sample from Bethany Funke

<u>Task/Test</u>	<u>Value</u>
Date of Analysis	11/19/2022
Seal	evidence tape
Initialed	Yes
Packaging	evidence envelope
Package Labeling	DNA swab from Bethany Funke...22-M09903
Contents Description/Notes	ets unlabeled w/ ets w/ card attached labeled Funke, Bethany w/ Qiagen EasiCollect Plus--has pink indicating FTA paper-removed from device for cutting ~5mm ² to DNA (very minimal white area on card) repack, ets

TKM

BIOLOGY ANALYSIS NOTES

Case: M2022-4843

Examiner: Taylor Maichak

Dates of analysis: 11/19/2022 to 11/20/2022

Item 19-Reference DNA sample from Dylan Mortensen

<u>Task/Test</u>	<u>Value</u>
Date of Analysis	11/19/2022
Seal	evidence tape
Initialed	Yes
Packaging	evidence envelope
Package Labeling	DNA swab Dylan Mortensen...22-M09903
Contents Description/Notes	ets unlabeled we w/ unlabeled swab packet w/ 1 white swab with plastic tube over tip ~1/4 to DNA repack, ets

Item 5-Reference blood card from Ethan Chapin

<u>Task/Test</u>	<u>Value</u>
Date of Analysis	11/19/2022
Seal	evidence tape
Initialed	Yes
Packaging	small manila envelope
Package Labeling	Chapin, Ethan...blood card...22-M09903
Contents Description/Notes	bloodstain card labeled Chapin, Ethan ~3mm ² to DNA repack, ets

Item 8-Reference blood card from Xana Kernodle

<u>Task/Test</u>	<u>Value</u>
Date of Analysis	11/19/2022
Seal	evidence tape
Initialed	Yes
Packaging	small manila envelope
Package Labeling	Kernodle, Xana...blood card...22-M09903
Contents Description/Notes	bloodstain card labeled Kernodle, Xana ~3mm ² to DNA repack, ets

Note: all cuttings taken by RLN 11/19/22

Notes reviewed and accepted by TKM on 11/20/22

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FORENSIC DNA REPORT

Case Agency(s) : ISP-INVESTIGATIONS D2	Agency Case No(s).: D22000030	Laboratory Case No.: M2022-4870 XREF: M2022-4843
Date(s) of Offense: 11/13/2022	Investigating Officer(s): Jeffery Talbott	Report No.: 1
Date Evidence Accepted: 11/18/2022	Analyst: Taylor Maichak	
Case Name(s): Subject - JOHN ROGERS SHOWALTER Subject - COLE DAVID BARENBERG		

EVIDENCE DESCRIPTION:

Item 1: Reference oral swabs from John Showalter

Item 2: Reference oral swabs from Cole Barenberg

Item 3: DNA extracts from Items 1 and 2

CONCLUSIONS AND INTERPRETATIONS:

Deoxyribonucleic Acid (DNA) Analysis, employing the Polymerase Chain Reaction (PCR), was used to generate a Short Tandem Repeat (STR) profile from a portion of Items 1 and 2. ¹

Male DNA profiles were developed from Items 1 and 2.

DISPOSITION OF EVIDENCE:

All items have been returned to the main laboratory evidence vault for return to the submitting agency.

FOOTNOTES

¹ Loci Examined: Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, Penta E, D16S539, D18S51, D2S1338, CSF1PO, Penta D, TH01, vWA, D21S11, D7S820, D5S818, TPOX, DYS391, D8S1179, D12S391, D19S433, FGA, and D22S1045.

REMARKS:

The descriptions, conclusions and interpretations stated above apply to the sample(s) as received.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.

Taylor Maichak / Forensic Scientist

Issue Date: **11/20/2022**

BIOLOGY ANALYSIS NOTES

Case: M2022-4870

Examiner: Taylor Maichak

Dates of analysis: 11/19/2022 to 11/20/2022

General Analysis

Item 1-Reference oral swabs from John Showalter

<u>Task/Test</u>	<u>Value</u>
Date of Analysis	11/19/2022
Seal	evidence tape
Initialed	Yes
Packaging	evidence envelope
Package Labeling	Buccal swabs from Showalter...Showalter, John R...D22000030
Contents Description/Notes	unlabeled paper swab packet w/2 white swabs ~1/4 x 1 to DNA repack, ets

Item 2-Reference oral swabs from Cole Barenberg

<u>Task/Test</u>	<u>Value</u>
Date of Analysis	11/19/2022
Seal	evidence tape
Initialed	Yes
Packaging	evidence envelope
Package Labeling	Buccal swab from Barenberg...Barenberg, Cole David...D22000030
Contents Description/Notes	unlabeled paper swab packet w/2 white swabs ~1/4 x 1 to DNA repack, ets

Note: all cuttings by RLN 11/19/22

Notes reviewed and accepted by TKM 11/20/2022



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FORENSIC DNA REPORT

Case Agency(s) : MOSCOW POLICE DEPARTMENT	Agency Case No(s).: 22-M09903	Laboratory Case No.: M2022-4843
Date(s) of Offense: 11/13/2022	Investigating Officer(s): Dustin Blaker	Report No.: 17
Date Evidence Accepted: 12/28/2022	Analyst: Taylor Maichak	
Case Name(s): Victim - MADISON M MOGEN Victim - XANA A KERNODLE Victim - ETHAN J CHAPIN Victim - KAYLEE J GONCALVES		

EVIDENCE DESCRIPTION:

- Item 79.1: Cutting from one band-aid from 127 Parkside Ave, Blakeslee, PA
- Item 80.1: Swab of black straw from 127 Parkside Ave, Blakeslee, PA
- Item 81.1: Swab of two pink earplugs from 127 Parkside Ave, Blakeslee, PA
- Item 82.1.1: Cutting from lollipop stick 1 from 127 Parkside Ave, Blakeslee, PA
- Item 82.2.1: Cutting from lollipop stick 2 from 127 Parkside Ave, Blakeslee, PA
- Item 83.1: Swab of stain on nail clippers from 127 Parkside Ave, Blakeslee, PA
- Item 86.1: Cutting from one flosser from 127 Parkside Ave, Blakeslee, PA
- Item 87.1: Cutting from one Q-tip style swab from 127 Parkside Ave, Blakeslee, PA
- Item 89.1: Swab of orange and pink straw from 127 Parkside Ave, Blakeslee, PA
- Item 93.1: Swab of Dunkin cup lid from 127 Parkside Ave, Blakeslee, PA
- Item 95.5.1: Swab of Bowl and Basket water bottle and cap from 127 Parkside Ave, Blakeslee, PA
- Item 95.9.1: Swab of Poland Spring water bottle and cap from 127 Parkside Ave, Blakeslee, PA
- Item 96.1: Swab of Bowl and Basket water bottle and cap from 127 Parkside Ave, Blakeslee, PA
- Item 97: DNA extracts from Items 79.1, 80.1, 81.1, 82.1.1, 82.2.1, 83.1, 86.1, 87.1, 89.1, 93.1, 95.5.1, 95.9.1, and 96.1

CONCLUSIONS AND INTERPRETATIONS:

Deoxyribonucleic Acid (DNA) Analysis, employing the Polymerase Chain Reaction (PCR), was used to generate a Short Tandem Repeat (STR) profile from Items 87.1, 89.1, 93.1, 95.9.1, and 96.1. ¹

The DNA profile obtained from Item 87.1 was determined to be from an unknown male (Male E).

Male E is not the source of DNA previously obtained from Item 1.1 (See Report No. 4 issued 11/20/2022).

FOOTNOTES

¹ Loci Examined: Amelogenin, D3S1358, D1S1656, D2S441, D10S1248, D13S317, Penta E, D16S539, D18S51, D2S1338, CSF1PO, Penta D, TH01, vWA, D21S11, D7S820, D5S818, TPOX, DYS391, D8S1179, D12S391, D19S433, FGA, and D22S1045.

Based upon evaluation of the DNA profile obtained from Item 87.1 (Male E) and that previously obtained from Item 1.1 (Male A), Male E cannot be excluded as being the biological father of Male A. The single parentage index for the loci examined is 19,070,000. At least 99.9998% of the male population would be expected to be excluded from the possibility of being the biological father of Male A.

The DNA profile obtained from Item 89.1 was determined to be a mixture of two individuals with a major female profile. This profile was not used for comparisons.

The partial DNA profile obtained from Item 93.1 is consistent with Male E.

The DNA profile obtained from Item 95.9.1 was determined to be a mixture of two individuals with a major male profile. This profile was not used for comparisons.

Due to insufficient quantity or degradation, only a partial DNA profile, consisting of three alleles, was obtained from Item 96.1. This profile was not used for comparisons.

Deoxyribonucleic Acid (DNA) extraction and quantification, employing real-time Polymerase Chain Reaction (PCR), were performed on Items 79.1, 80.1, 81.1, 82.1.1, 82.2.1, 83.1, 86.1, and 95.5.1.

A low level of male DNA was detected on Item 81.1; however, due to a high level of female DNA detected, no further testing was conducted on this item.

No male DNA was detected on Items 79.1, 82.1.1, 82.2.1, 83.1, and 86.1. No further testing was conducted on these items.

No DNA was detected on Items 80.1 and 95.5.1. No further testing was conducted on these items.

Further interpretation may be performed upon submission of a known reference sample from any relevant individual(s).

Additional comparisons will follow in a separate report.

DISPOSITION OF EVIDENCE:

Items 79.1, 80.1, 81.1, 82.1.1, 82.2.1, 83.1, 86.1, 87.1, and 95.5.1 were consumed during testing; however, DNA extract remains for these items. Items 89.1, 93.1, 95.9.1, and 96.1 and their DNA extracts were consumed during testing. All other items have been returned to the main laboratory evidence vault for return to the submitting agency.

REMARKS:

The descriptions, conclusions and interpretations stated above apply to the sample(s) as received.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.



Taylor Maichak / Forensic Scientist

Issue Date: **12/28/2022**



IDAHO STATE POLICE FORENSIC SERVICES

700 South Stratford Drive, Ste 125

Meridian, ID 83642-6202

Phone: (208) 884-7170

Fax: (208) 884-7197

FORENSIC DNA REPORT

Case Agency(s) : MOSCOW POLICE DEPARTMENT	Agency Case No(s).: 22-M09903	Laboratory Case No.: M2022-4843
Date(s) of Offense: 11/13/2022	Investigating Officer(s): Dustin Blaker	Report No.: 20
Date Evidence Accepted: 12/13/2022, 12/28/2022	Analyst: Taylor Maichak	
Case Name(s): Subject - REID E UPTMOR Subject - JONATHAN T EXCEEN Subject - MACKENZIE B GRIGGS Subject - SYRINGA RILEY Subject - CHASE M DIXON Subject - CALEB J JACOBSEN Subject - BRENNEN D CRAWFORD Subject - TYLER S YELK Subject - GEORGE SIMITJIS Victim - MADISON M MOGEN Victim - XANA A KERNODLE Victim - ETHAN J CHAPIN Victim - KAYLEE J GONCALVES		

EVIDENCE DESCRIPTION:

- Item 57: Reference oral swab from Reid Uptmor
- Item 58: Reference oral swabs from John Exceen
- Item 59: Reference oral swab from Mackenzie Griggs
- Item 60: Reference oral swab from Syringa Riley
- Item 61: Reference oral swabs from Chase Dixon
- Item 62: Reference oral swabs from Caleb Jacobsen
- Item 63: Reference oral swabs from Brennen Crawford
- Item 64: Reference oral swabs from Tyler Yelk
- Item 65: Reference oral swab from George Simitjis
- Item 66.1: Swab of lid areas on beer can from stairs
- Item 67.1: Gum in wrapper from backpack
- Item 67.2: Swab of handle loop on backpack
- Item 67.3: Swabs of left shoulder strap on backpack
- Item 67.4: Swabs of right shoulder strap on backpack
- Item 67.5: Swabs of fabric zipper pulls on backpack
- Item 68.1: Swab of lid areas on beer can #1 from vanity
- Item 69.1: Swab of lid areas on beer can #2 from vanity
- Item 70: DNA cuttings from Items 57 through 65, 66.1, 67.1 through 67.5, 68.1, and 69.1

CONCLUSIONS AND INTERPRETATIONS:

The DNA profile previously obtained from Item 1.4 (See Report 4, issued 11/20/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Male E (Item 87.1, See Report 17, issued 12/28/2022) is excluded as a contributor to this DNA mixture.

The DNA profile previously obtained from Item 6.1 (See Report 7, issued 11/23/2022) indicates a mixture of DNA. Assuming a two person mixture, Male E is excluded as a contributor to this DNA mixture.

The DNA profile previously obtained from Item 9.1 (See Report 7, issued 11/23/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Male E is excluded as a contributor to this DNA mixture.

The DNA profile previously obtained from Item 10.1 (See Report 7, issued 11/23/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Male E is excluded as a contributor to this DNA mixture.

The DNA profile previously obtained from Item 13.1 (See Report 7, issued 11/23/2022) indicates a mixture of DNA, assumed to be from three individuals, with a major profile. Based on the likelihood ratio result 0.0176, it is inconclusive whether Male E is a potential contributor to this DNA profile.

The DNA profile previously obtained from Item 23 (See Report 13, issued 12/17/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Male E is excluded as a contributor to this DNA mixture.

The DNA profile previously obtained from Item 30 (See Report 13, issued 12/17/2022) indicates a mixture of DNA, assumed to be from three individuals, with a major profile. Male E is not the source of the major male DNA profile from this item. Due to the low level results and limited data, no conclusions can be made regarding the minor contributors.

The DNA profiles previously obtained from Items 37.1 and 37.2 (See Report 13, issued 12/17/2022) were determined to be from the same unknown male. Male E is not the source of the DNA profiles from these items.

The partial DNA profile previously obtained from Item 40.1 (See Report 13, issued 12/17/2022) was determined to be from an unknown male. Male E is not the source of the DNA profile from this item.

The partial DNA profile previously obtained from Item 40.4 (See Report 13, issued 12/17/2022) indicates a mixture of DNA with a major profile. Assuming a two person mixture, Male E is not the source of the major male DNA profile from this item. Due to the low level results and limited data, no conclusions can be made regarding the minor contributor.

No DNA testing was performed on Items 57 through 65, 66.1, 67.1 through 67.5, 68.1, and 69.1 at this time.

DISPOSITION OF EVIDENCE:

All items have been returned to the submitting agency.

REMARKS:

The descriptions, conclusions and interpretations stated above apply to the sample(s) as received.

I declare under penalty of perjury pursuant to the law of the State of Idaho that the foregoing is true and correct.



Taylor Maichak / Forensic Scientist

Issue Date: **01/10/2023**

