Forensic Advantage Discovery Packet

Released Information

Regarding:	MQ20-1001 2
Requested:	4/3/2021 FA 8:30:01 AM
Packet:	Lab Report Only (PDF)
	Results of Laboratory Analysis

Table of Contents:

Laboratory Report-Released-(17614975).pdf 1

Laboratory Report-Released-(17614975).pdf

Additional Files:

The following files were included separately from the packet document:

20-14548

10011

STATE OF MICHIGAN
DEPARTMENT OF STATE POLICE
FORENSIC SCIENCE DIVISION
Grand Rapids Forensic Laboratory
720 Fuller Ave NE
Grand Rapids, MI 49503
(616) 242-6650
FAX (616) 242-6682

LABORATORY REPORT

Laboratory No.	:	MQ20-1001	Record No.	:	2
Investigating Ofcr.	:	Steven Wallenius	Date Received	:	January 15, 2021
Agency	:	MSP Gladstone	Time Received	:	2:01 p.m.
Agency No.	:	84-2521-20	Date Completed	:	March 22, 2021

Nature of Offense:

1100-1 - Sexual Assault CSC 1st

Victim(s):

[redacted]

Suspect(s):

Aker, Dustin Thomas

Evidence:

MQ20-1001-1De.1	vulvar swabs - fraction 1 (KBBBZ.1)
MQ20-1001-1De.2	vulvar swabs - fraction 2 (KBBBZ.2)
MQ20-1001-1He	left breast (ESBEQ)
MQ20-1001-1Ada	[redacted]-buccal (KBBDG)

Results of Examination:

DNA recovered from the above submitted sample(s) was processed using the polymerase chain reaction (PCR), autosomal short tandem repeats (STRs), and the PowerPlex Fusion System. When applicable, these profiles were evaluated using STRmix, a probabilistic genotyping software application.

Interpretations:

A DNA profile was obtained from item MQ20-1001-1Ada ([redacted]-buccal) that is sufficient for comparison purposes.

84-3521-20

1001

This report contains the conclusions, opinions, and/or interpretations of the laboratory analyst whose signature appears on this report. This analyst is qualified by education, training, and experience to perform this analysis and does so as part of his or her regular duties. The analysis was conducted in an MSP laboratory accredited under the ANAB International testing program since February 16, 2017. The relevant supporting data upon which the expert opinion or inference was made are available for review/inspection.
Report Issued: April 3, 2021

Interpretation of item MQ20-1001-1De.1 (vulvar swabs - fraction 1) was performed assuming that the DNA profile originated from one individual that genetically types as female.

- The DNA profile is consistent with item MQ20-1001-1Ada ([redacted]-buccal), which is expected to have contributed to item MQ20-1001-1De.1 (vulvar swabs - fraction 1). No foreign DNA types were observed.

The DNA profile obtained from item MQ20-1001-1De.2 (vulvar swabs - fraction 2) is consistent with multiple contributors, at least one of which genetically types as male.

- Item MQ20-1001-1Ada ([redacted]buccal) is expected to have contributed to item MQ20-1001-1De.2 (vulvar swabs - fraction 2).

- This profile is suitable for comparisons upon receipt of reference samples from possible additional contributors.

The DNA profile obtained from item MQ20-1001-1He (left breast) is consistent with multiple contributors, at least one of which genetically types as male.

- Item MQ20-1001-1Ada ([redacted]-buccal) is expected to have contributed to item MQ20-1001-1He (left breast).

- This profile is suitable for comparisons upon receipt of reference samples from possible additional contributors.

Remarks:

A DNA profile, that genetically types as male, from item MQ20-1001-1De.2 (vulvar swabs - fraction 2) was entered into the COmbined DNA Index System (CODIS). This profile will be searched indefinitely and at regular intervals at the local, state, and national levels as defined by eligibility requirements and profile suitability.

A DNA profile from item MQ20-1001-1He (left breast) was entered into the COmbined DNA Index System (CODIS). This profile will be searched indefinitely and at regular intervals at the local, state, and national levels as defined by eligibility requirements and profile suitability.

Please submit a known buccal swab collected from potential contributors to this case to be used for further analysis and comparisons.

Other staff members have processed evidence associated with this report, in addition to the reporting analyst.

A positive control associated with this case did not perform as expected. It did not affect the interpretation of the results.

84-2521-20

1001 1

Disposition of Evidence:

All remaining evidence and extracts will be returned to the submitting agency. Samples, or portions thereof, that have been retained for DNA may have been consumed in analysis.

Ann M Hunt

Ann Hunt
Forensic Scientist
Biology Unit
email: HuntA3@michigan.gov

March 22, 2021

84-20-1001

Forensic Advantage Discovery Packet

Released Information

Regarding:	MQ20-1001 3
Requested:	6/30/2021 7:30:06 AM FA
Packet:	Lab Report Only (PDF)
	Results of Laboratory Analysis

Table of Contents:

Laboratory Report-Released-(17628763).pdf 1

Laboratory Report-Released-(17628763).pdf

Additional Files:

The following files were included separately from the packet document:

10011 - 24-SE-18

STATE OF MICHIGAN
DEPARTMENT OF STATE POLICE
FORENSIC SCIENCE DIVISION
Grand Rapids Forensic Laboratory
2290 4 Mile Road NW
Grand Rapids, MI 49544
(616) 242-6650
FAX (616) 242-6682

LABORATORY REPORT

Laboratory No.	:	MQ20-1001	Record No.	:	3
Investigating Ofcr.	:	Steven Wallenius	Date Received	:	April 14, 2021
Agency	:	MSP Gladstone	Time Received	:	4:36 p.m.
Agency No.	:	84-2521-20	Date Completed	:	May 25, 2021

Nature of Offense:

1100-1 - Sexual Assault CSC 1st

Victim(s):

[redacted]

Suspect(s):

Aker, Dustin Thomas

Evidence:

MQ20-1001-1De.2	vulvar swabs - fraction 2 (KBBBZ.2) (previously analyzed record 2)
MQ20-1001-1He	left breast (ESBEQ) (previously analyzed record 2)
MQ20-1001-1Ada	[redacted] buccal (KBBDG) (previously analyzed record 2)
MQ20-1001-2A1	Dustin Aker – buccal*
MQ20-1001-2A1e	Dustin Aker - Known Buccal (TK372)

*Note: Samples, or portions thereof, have been retained for DNA analysis.

Results of Examination:

DNA recovered from the above submitted sample(s) was processed using the polymerase chain reaction (PCR), autosomal short tandem repeats (STRs), and the PowerPlex Fusion System. When applicable, these profiles were evaluated using STRmix, a probabilistic genotyping software application.

04-1456-h8

10011

This report contains the conclusions, opinions, and/or interpretations of the laboratory analyst whose signature appears on this report. This analyst is qualified by education, training, and experience to perform this analysis and does so as part of his or her regular duties. The analysis was conducted in an MSP laboratory accredited under the ANAB International testing program since February 16, 2017. The relevant supporting data upon which the expert opinion or inference was made are available for review/inspection.
Report Issued: June 30, 2021

Interpretations:

A DNA profile was obtained from item MQ20-1001-2A1e (Dustin Aker - Known Buccal) that is sufficient for comparison purposes.

Interpretation of item MQ20-1001-1De.2 (vulvar swabs - fraction 2) was performed assuming that the DNA profile originated from two individuals, at least one of which genetically types as male. Item MQ20-1001-1Ada [redacted]buccal) is expected to have contributed to item MQ20-1001-1De.2 (vulvar swabs - fraction 2).

Hypotheses:	H_1: MQ20-1001-1Ada ([redacted] and MQ20-1001-2A1e (Dustin Aker) H_2: MQ20-1001-1Ada [redacted] and one unrelated, unknown contributor
Results:	Based on the DNA typing results obtained from the vulvar swabs - fraction 2, it is approximately 20 octillion times more likely if it originated from [redacted] and Dustin Aker than if it originated from [redacted] and one unrelated, unknown contributor.
Verbal Scale:	This analysis provides very strong support that Dustin Aker is a contributor to the vulvar swabs - fraction 2.

Interpretation of item MQ20-1001-1He (left breast) was performed assuming that the DNA profile originated from four individuals, at least one of which genetically types as male. Item MQ20-1001-1Ada ([redacted]-buccal) is expected to have contributed to item MQ20-1001-1He (left breast).

Hypotheses:	H_1: MQ20-1001-1Ada [redacted], MQ20-1001-2A1e (Dustin Aker), and two unrelated, unknown contributors H_2: MQ20-1001-1Ada [redacted] and three unrelated, unknown contributors
Results:	Based on the DNA typing results obtained from the left breast, it is approximately 500 million times more likely if it originated from [redacted] Dustin Aker and two unrelated, unknown contributors than if it originated from [redacted] and three unrelated, unknown contributors.
Verbal Scale:	This analysis provides very strong support that Dustin Aker is a contributor to the left breast.

Remarks:

The propositions were formed from the information available to the undersigned at the time of analysis. If this information changes or if other propositions should be considered, the analyst is able to undertake them if instructed with sufficient time.

02-1458 h8

10011

The magnitude of the likelihood ratio relates to the degree of support provided by the evidence under the tested hypotheses and assumptions. The qualitative statement for a comparison of the evidentiary typing results to a person of interest is based on the following table:

Likelihood Ratio	Qualitative Equivalent
0	Exclusion
1	Uninformative
2 to 99	Limited Support
100 to 9,999	Moderate Support
10,000 to 999,999	Strong Support
1,000,000 and greater	Very Strong Support

Please submit a known buccal swab collected from potential contributors to this case to be used for further analysis and comparisons.

Other staff members have processed evidence associated with this report, in addition to the reporting analyst.

Biology processing was conducted on 4/19/21 at the Marquette Forensic Laboratory.

DNA processing was conducted on 5/7/21 at the Lansing Forensic Laboratory.

Disposition of Evidence:

All remaining evidence and extracts will be returned to the submitting agency. Samples, or portions thereof, that have been retained for DNA may have been consumed in analysis.

Ann M Hunt

Ann Hunt
Forensic Scientist
Biology Unit
email: HuntA3@michigan.gov

May 25, 2021

84-1458-20

10011

Forensic Advantage Discovery Packet

Released Information

Regarding:	MQ20-1001 4
Requested:	4/30/2021 FA 12:15:01 PM
Packet:	Lab Report Only (PDF)
	Results of Laboratory Analysis

Table of Contents:

Laboratory Report-Released-(17621155).pdf 1

Laboratory Report-Released-(17621155).pdf

Additional Files:

The following files were included separately from the packet document:

STATE OF MICHIGAN
DEPARTMENT OF STATE POLICE
BIOMETRICS AND IDENTIFICATION DIVISION
Lansing Forensic Laboratory
7320 N. Canal Rd
Lansing, MI 48913
(517) 284-3491
FAX (517) 636-4468

NOTICE OF CODIS ASSOCIATION

Laboratory No.	:	MQ20-1001	Record No.	:	4
Investigating Ofcr.	:	Steven Wallenius	Date Received	:	April 21, 2021
Agency	:	Michigan Department of State Police	Time Received	:	11:28 a.m.
Agency No.	:	84-2521-20	Date Completed	:	April 21, 2021

INVESTIGATIVE INFORMATION ONLY

The following information contained in this report is to be regarded as Investigative Information. Any identification made in this report must be verified by the **submission of a new biological sample from the below listed individual to the Biology Unit at the local Michigan State Police Forensic Laboratory.** This sample must be submitted directly to the Biology Unit with a completed FSD-007 (Laboratory Examination Request) form.

Nature of Offense:
1100-1 - Sexual Assault CSC 1st

Victim(s):
[redacted]

Results of Search:
DNA Database Specimen to Case Association

A search of the COmbined DNA Index System (CODIS) database resulted in a moderate stringency association between item MQ20-1001-1DE.2 (vulvar swabs - fraction 2) and DNA database specimen number MI10-000728. This is deemed investigative information.

The DNA database specimen information is:

DNA Database Specimen Number: MI10-000728
DNA Database Specimen Name: DUSTIN T. AKER
DNA Database Specimen SID: 2950835M
DNA Database Specimen FBI/UCN: 554133PC1
Date of Birth: [redacted]

The genetic profile for this individual was confirmed by reanalysis using the polymerase chain reaction (PCR) and the Promega PowerPlex® Fusion System.

Request for Additional Samples:
It is required that a new biological sample be obtained from the alleged suspect to confirm this reported association. With the examination of the new biological sample, comparisons will be made to the evidentiary sample and statistical population estimates will be available.

Additional Information:
The dates of laboratory activities, including the date of sample receipt to the CODIS laboratory, for the

This report contains the conclusions, opinions, and/or interpretations of the laboratory analyst whose signature appears on this report. This analyst is qualified by education, training, and experience to perform this analysis and does so as part of his or her regular duties. The analysis was conducted in an MSP laboratory accredited under the ANAB International testing program since February 16, 2017. The relevant supporting data upon which the expert opinion or inference was made are available for review/inspection.
Report Issued: April 30, 2021

sample listed on this report are available as part of the case file. The contact information for the agency submitting evidence to the crime laboratory is available upon request.

John MacDonough
Forensic Scientist
CODIS Section
email: macdonoughj@michigan.gov

April 21, 2021

cc: Ann Hunt, Joel Schultze

84-3721-28

10011

This report contains the conclusions, opinions, and/or interpretations of the laboratory analyst whose signature appears on this report. This analyst is qualified by education, training, and experience to perform this analysis and does so as part of his or her regular duties. The analysis was conducted in an MSP laboratory accredited under the ANAB International testing program since February 16, 2017. The relevant supporting data upon which the expert opinion or inference was made are available for review/inspection.

Forensic Advantage Discovery Packet

Released Information

Regarding:	MQ20-1001 5
Requested:	3/21/2022 11:45:08 AM FA
Packet:	Lab Report Only (PDF)
	Results of Laboratory Analysis

Table of Contents:

Laboratory Report-Released-(17690082).pdf 1

Laboratory Report-Released-(17690082).pdf

Additional Files:

The following files were included separately from the packet document:

20-KSL-48

D0041

STATE OF MICHIGAN
DEPARTMENT OF STATE POLICE
Biometrics and Identification Division
Lansing Forensic Laboratory
7320 N. Canal Rd
Lansing, MI 48913
(517) 284-3491
FAX (517) 636-4468

NOTICE OF CODIS ASSOCIATION

Laboratory No.	:	MQ20-1001	Record No.	:	5
Investigating Ofcr.	:	Steven Wallenius	Date Received	:	March 18, 2022
Agency	:	Michigan Department of State Police	Time Received	:	8:45 a.m.
Agency No.	:	84-2521-20	Date Completed	:	March 18, 2022

INVESTIGATIVE INFORMATION ONLY

The following information contained in this report is to be regarded as Investigative Information. Any identification made in this report must be verified by the **submission of a new biological sample from the below listed individual to the biology unit at the local Michigan State Police Forensic Laboratory.** This sample must be submitted directly to the biology unit with a completed FSD-007 (Laboratory Examination Request) form.

Nature of Offense:
1100-1 - Sexual Assault CSC 1st

Victim(s):
[redacted]

Results of Search:
DNA Database Specimen to Case Association

A search of the COmbined DNA Index System (CODIS) database resulted in a moderate stringency association between item MQ20-1001-1HE (left breast) and DNA database specimen number MI22-001374. This is deemed investigative information.

The DNA database specimen information is:

DNA Database Specimen Number: MI22-001374
DNA Database Specimen Name: SYDNEY ANN HORVATH
DNA Database Specimen SID: 4570843K
DNA Database Specimen FBI/UCN: 412275TD2
Date of Birth: [redacted]

The genetic profile for this individual was confirmed by reanalysis using the polymerase chain reaction (PCR) and the Promega PowerPlex® Fusion System.

Request for Additional Samples:
It is required that a new biological sample be obtained from the alleged suspect to confirm this reported association. With the examination of the new biological sample, comparisons will be made to the evidentiary sample and statistical population estimates will be available.

Additional Information:
The dates of laboratory activities, including the date of sample receipt to the CODIS laboratory, for the

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Report Issued: March 21, 2022

sample listed on this report are available as part of the case file. The contact information for the agency submitting evidence to the crime laboratory is available upon request.

John MacDonough
Forensic Scientist
CODIS Section
email: macdonoughj@michigan.gov

March 18, 2022

cc: Kirk DeLeeuw, Joel Schultze

10011 08-KESE-28