

Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

Laboratory Number S15-14003

Agency Case Number

2015-648

TEL: 651-793-2900 TTY: 651-242-6555 FAX: 651-793-2901

LABORATORY ANALYSIS REQUEST

BCA St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

Attn: SA Mike Phill

Hennepin **COUNTY:**

TELEPHONE: 651-793-1100

TYPE OF CASE:

Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 1

Section Involved

Estimated Due Date

Latent Prints

2/16/2016

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

PRINCIPALS:

1

Schwarze, Dustin Timothy Ringgenberg, Mark Douglas

Clark, Jamar Oneal

Date Of Birth	<u>Sex</u>	Type	Race
	M	S	\mathbf{C}
	M	S	C
5/3/1991	M	D	

Comments

SID#

ITEM DESCRIPTION OF EVIDENCE:

Item # In Container

Packaging and Type

One manila envelope containing evidence classified as

Melenwloccer

known major case prints

Source / Description

MCP's Jamar Clark

Submitted By

Received By

11/17/2015

16:11:32

Created by CST for Evidence from ME

Melissa Loren

Submission Date and Time



Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

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LABORATORY ANALYSIS REQUEST

BCA St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

Attn: SA Mike Phill

COUNTY: Hennepin
TELEPHONE: 651-793-1100

TYPE OF CASE:

Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 1

Section Involved

Estimated Due Date

Firearms

3/17/2016

Latent Prints

2/16/2016

Nuclear DNA

3/17/2016

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

Check for DNA and compare Bloodspatter on clothing Check for latent prints and compare Firearm function and comparison

PRINCIPALS:

Schwarze, D	ustin Timothy
Ringgenberg,	Mark Douglas
Clark, Jamar	Oneal

Date Of Birth	Sex	Type	Race
	M	S	C
	M	S	С
5/3/1991	M	D	

Comments

SID#

ITEM DESCRIPTION OF EVIDENCE:

	Item#	In Container	Packaging and Type	Source / Description
	3,		One brown paper bag containing evidence classified as a swabbing from Item	from EMT truck
	4		One manila envelope containing evidence classified as latent print lift(s)	from EMT truck
	5		One cardboard box containing evidence classified as a firearm	Smith & Wesson and magazine
	6		One manila envelope containing evidence classified as a magazine	from Smith & Wesson
	7.		One cardboard box containing evidence classified as a firearm	Sig Sauer
;	8		One manila envelope containing evidence classified as a magazine	from Sig Sauer
ç	•		One brown paper bag containing evidence classified as an item of evidence	Duty Belt from Mark Douglas Ringgenberg

10	One manila envelope containing evidence classified as cartridge(s)	from boulevard north of 1611 Plymouth
11	One manila envelope containing evidence classified as an item of evidence	handcuffs
12	One brown paper bag containing evidence classified as clothing	Jamar Oneal Clark
13	One manila envelope containing evidence classified as an item of evidence	cup
14	One manila envelope containing evidence classified as a swabbing from Item	Jamar Oneal Clark left and right hand

Submitted By

Received By

Carolle Dank

11/18/2015 15:47:21

SA Mike Phill

Carolle David

Submission Date and Time



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Attn: SA Mike Phill

COUNTY:

Hennepin

TELEPHONE: 651-793-1100

TYPE OF CASE:

Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 1

Section Involved

Estimated Due Date

Nuclear DNA

3/18/2016

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

For comparison

PRINCIPALS:

Schwarze, Dustin Timothy Ringgenberg, Mark Douglas

Clark, Jamar Oneal

Date Of Birth	
5/3/1991	

<u>Sex</u> **Type** Race S C M M S C M D

Comments

SID#

ITEM DESCRIPTION OF EVIDENCE:

<u>Item #</u>	In Container	Packaging and Type	Source / Description
15		One envelope containing evidence classified as a known DNA sample collection kit	Dustin Timothy Schwarze
16		One envelope containing evidence classified as a known DNA sample collection kit	Mark Douglas Ringgenberg

Carolle David

Submitted By

Received By

SA Mike Phill

Carolle David

11/19/2015

Submission Date and Time

11:38:59



Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

Laboratory Number S15-14003

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LABORATORY ANALYSIS REQUEST

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Attn: SA Mike Phill

COUNTY:

Hennepin

TELEPHONE: 651-793-1100

TYPE OF CASE:

Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 1

Section Involved

Estimated Due Date

Nuclear DNA

3/18/2016

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

PRINCIPALS:

Schwarze, Dustin Timothy Ringgenberg, Mark Douglas Clark, Jamar Oneal Sworski, Jeffrey Steven Conner, Chad Michael

Date Of Birth	<u>Sex</u>	Type	Race
	M	S	C
	M	S	С
5/3/1991	M	D	
	M	E	C
	M	Е	C

Comments

SID#

ITEM DESCRIPTION OF EVIDENCE:

Item#	In Container	Packaging and Type	Source / Description
17		One plastic bag containing evidence classified as a known DNA sample collection kit	Jeffrey Steven Sworski, Agency Item #2015-648/12.1
18		One plastic bag containing evidence classified as a known DNA sample collection kit	Chad Michael Conner, Agency Item #2015-648/12.2

Submitted By

Received By

Gules & Dormond

11/19/2015

13:29:17

Doug Henning

Julie Dornseif

Submission Date and Time

Minnesota Bureau of Criminal Apprehension

Proper	ty Release/Disposal F	eceipt				
Offense	Number: 2015-648/12		g, Doug (1361 / MRO ension)	- Homicide / Mi	nnesota Bureau of Criminal	
Item	Quantity	Description				
1	. 1	Known DNA from Offic	Known DNA from Officer Jeffrey Sworski			
2	1	Known DNA from Office	er Chad Michael Coni	ner		
State at	uthority to release or man	ner of disposition:				
AGENT	INVESTIGATION					
***************************************	a - Maria II da Garago II da G					

4 2 2						
<i>l hearb</i> y	certify that I have receive	nd the above listed pro	pperty			
Signatu	re June	nulbusey	D	ate Received	11/19/2015	
Name	Minnesota BCA Fore	ensic Laboratory - St. Pa	aul O	wner/For Own)	
Address	3				:	
City/Sta	te		R	eleased By	Henning, Doug (1361 / MRO - Homicide /	
					Minnesota Bureau of	
* (•			Criminal Apprehension)	
Telepho	ne		V	erified By	www.combonneg.gov.co.e.u.dy.co.b.delligico.d.a.uddidellicionalmiddindadquericacudquequericacuddellicherid	



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Attn: SA Mike Phill

COUNTY:

Hennepin

TELEPHONE: 651-793-1100

TYPE OF CASE:

Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 1

Section Involved

Estimated Due Date

Firearms

3/18/2016

Nuclear DNA

3/18/2016

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

DNA and FA

PRINCIPALS:

Schwarze, Dustin Timothy Ringgenberg, Mark Douglas Clark, Jamar Oneal Sworski, Jeffrey Steven Conner, Chad Michael

Date Of Birth	Sex	Type	Race
	M	S	C
	M	S	С
5/3/1991	M	D	
	M	E	C
	M	E	С

Comments

SID#

ITEM DESCRIPTION OF EVIDENCE:

Item #	In Container	Packaging and Type	Source / Description
19		One manila envelope containing evidence classified as projectile(s)	Jamar Oneal Clark, Agency Item #1
20		One manila envelope containing evidence classified as projectile(s)	Jamar Oneal Clark, Agency Item #2
21		One manila envelope containing evidence classified as a bloodstain	blood prep Jamar Oneal Clark, Agency Item #3
22		One manila envelope containing evidence classified as fingernail clippings	right hand, Jamar Oneal Clark, Agency Item #4
23		One manila envelope containing evidence classified as known head hair(s)	Jamar Oneal Clark, Agency Item #5
24		One manila envelope containing evidence classified as fingernail clippings	left hand, Jamar Oneal Clark, Agency Item#6

Submitted By

Received By

Och 1504

Julie A Dornsey

11/19/2015

14:29:18

Chris Olson

Julie Dornseif

Submission Date and Time



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Attn: SA Mike Phill

COUNTY:

Hennepin

TELEPHONE: 651-793-1100

TYPE OF CASE:

Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 1

Section Involved

Estimated Due Date

Trace

5/13/2016

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

Fiber comparison

PRINCIPALS:

Schwarze, Dustin Timothy Ringgenberg, Mark Douglas Clark, Jamar Oneal Sworski, Jeffrey Steven Conner, Chad Michael

Date Of Birth	<u>Sex</u>	Type	Race
	М	E	C
	M	Е	Ċ
5/3/1991	M	D	
	M	E	С
	M	E	C

Comments

SID#

ITEM DESCRIPTION OF EVIDENCE:

Item#	In Container	Packaging and Type	Source / Description
26		One brown paper bag containing evidence classified as clothing	pants & fleece - Dustin Timothy Schwarze - item 89.1
27		One brown paper bag containing evidence classified as clothing	pants & shirt, Mark Douglas Riggenberg - item 89.2

Submitted By

Received By

SA Mike Phill

Jeff Tegdesch

12/15/2015 11:

11:59:10

Submission Date and Time



Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

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Attn: SA Mike Phill

COUNTY:

Hennepin

TELEPHONE: 651-793-1100

TYPE OF CASE:

Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 1

Section Involved

Estimated Due Date

Nuclear DNA

6/3/2016

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

Comparison

PRINCIPALS:

Schwarze, Dustin Timothy Ringgenberg, Mark Douglas Hayes, Rayann Francine Clark, Jamar Oneal Sworski, Jeffrey Steven Conner, Chad Michael

Date Of Birth	Sex	Type	Race
	M	E	С
	M	Е	C
	F	E	В
5/3/1991	M	D	
	M	Е	С
Schools out for Just	M	E	С

Comments

SID#

ITEM DESCRIPTION OF EVIDENCE:

ltem #

In Container

Packaging and Type

Source / Description

28

One envelope containing evidence classified as a known DNA Rayann Francine Hayes

sample collection kit

Submitted By

Received By

CIMIL

Carolle David

02/04/2016

15:44:13

SA Mike Phill

Carolle David

Submission Date and Time





Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No. S15-14003

Report No.

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Latent Prints

11/18/2015

Laboratory Number:

S15-14003

Requesting Agency:

BCA St. Paul

Section Reporting:

Latent Prints

Agency Case Number:

2015-648

Case Type:

Officer Involved Shooting/with a Death

County:

Principals: Jamar Oneal Clark

Description of Submitted Evidence:

Item 1

Type and Packaging

Description/Source MCP's Jamar Clark

One manila envelope containing evidence classified as known major case prints

2

One manila envelope containing evidence classified as a disk with images

Images of questioned ink prints from Item 1.

Created by Scientist.

Results of Laboratory Examination:

KNOWN EXEMPLARS (Said to be from)			
Name (DOB)	Source of Exemplar		
Jamar Oneal Clark (5-3-91)	BCA Files SID # MN10CR3326		

A request was received from the Hennepin County Medical Examiner's Office to compare fingerprints obtained from a deceased individual, tentatively identified as Jamar Oneal Clark, to known prints (from BCA files) said to be from Jamar Oneal Clark.

Item 1:

Major Case Prints – right thumb from deceased tentatively identified as Jamar Oneal Clark

Questioned Inked Print(s)

Item 1, right thumb: identified to the known right thumb from Jamar Oneal Clark

Item 2 was created with images of prints from Item 1.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Dennis P. Randall Forensic Scientist

Disposition of Evidence:

Item 1 will be held until all exams have been completed. Item 2 will be retained at the BCA Laboratory.

Distribution: BCA St. Paul - 1





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To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No. 2

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Firearms

11/20/2015

Laboratory Number:

S15-14003 Firearms

Requesting Agency: Agency Case Number: 2015648

BCA St. Paul

Section Reporting: Case Type:

Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

<u>It</u>	<u>em</u>	Type and Packaging	<u>Description/Source</u>
5		One cardboard box containing evidence classified as a	Smith & Wesson, magazine with ammunition,
		firearm	and one cartridge.
5]	D	One manila envelope containing evidence classified as	test fired bullets and cartridge cases from Item 5
		test specimens	(NJP - 11/19/15)
6		One manila envelope containing evidence classified as a	from Smith & Wesson - two magazines with
		magazine	ammunition
7		One cardboard box containing evidence classified as a	SIG Sauer, magazine with ammunition, and one
		firearm	cartridge.
7]	D	One manila envelope containing evidence classified as	test fired bullets and cartridge cases from Item 7
		test specimens	(NJP - 11/19/15)
8		One manila envelope containing evidence classified as a	from SIG Sauer - two magazines with
		magazine	ammunition
10	0	One manila envelope containing evidence classified as	from boulevard north of 1611 Plymouth
		cartridge case(s)	
19	9	One manila envelope containing evidence classified as	Jamar Oneal Clark, Agency Item #1
		bullet fragment(s)	
20	0	One manila envelope containing evidence classified as	Jamar Oneal Clark, Agency Item #2
		bullet(s)	

Results of Laboratory Examination:

Item 5 (a Smith and Wesson Model M&P9 9mm Luger caliber pistol bearing serial number HSS3257) fired Item 10 (a 9mm Luger caliber cartridge case) and Item 20 (a bullet).

Examinations and test firing of Item 5 showed the firearm and the safety mechanisms to be functional. The trigger pull was measured and found to be from 6½ to 7 pounds.

Examinations and test firing of Item 7 (a SIG Sauer Model P226 9mm Luger caliber pistol bearing serial number UU763221) showed the firearm and safety mechanisms to be functional. The trigger pull was measured and found to be from 4 to 4½ pounds (single action) and from 10 to 10½ pounds (double action).

Item 19 (an apparent bullet fragment) is unsuitible for comparative examinations.

No comparative examinations were done with Item 8 (two SIG Saueer magazines, each containing 20 cartridges) or Item 6 (two Smith and Wesson magazines, each containing 17 cartridges).

Two cartridges from Item 5 were used for the production of test specimens.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Nathaniel J. Pearlson Forensic Scientist 3

Disposition of Evidence:

Lab will hold all evidence until exams completed.

Distribution: BCA St. Paul - 1





Bureau of Criminal Apprehension Forensic Science Laboratory – St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No. 3

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

11/20/2015

Laboratory Number: Section Reporting:

S15-14003 Nuclear DNA Requesting Agency: Agency Case Number: BCA St. Paul 2015648

Case Type:

Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark

Description of Submitted Evidence:

Description of	Submitted Evidence.	
<u>Item</u>	Type and Packaging	Description/Source
3	One brown paper bag containing evidence classified as a	from EMT truck
	swabbing from Item	
3A	One manila envelope containing evidence classified as a	from rear drivers side door handle - EMT truck
	swabbing from Item	
3B	One manila envelope containing evidence classified as a	from rear passengers side door handle - from
	swabbing from Item	EMT truck
3C	One manila envelope containing evidence classified as a	from side door on passengers side - from EMT
	swabbing from Item	truck
3 D	One manila envelope containing evidence classified as a	from front passenger side door handle - from
	swabbing from Item	EMT truck
5	One cardboard box containing evidence classified as a	Smith & Wesson, magazine with ammunition,
	firearm	and one cartridge.
5A	a firearm	Smith & Wesson
5B	a magazine	Smith & Wesson 9mm magazine
5C	One manila envelope containing evidence classified as	silver FC 9mm+P
	cartridge(s)	
7	One cardboard box containing evidence classified as a	SIG Sauer, magazine with ammunition, and one
	firearm	cartridge.
7 A	a firearm	SIG Sauer 9mm Model P226
7B	a magazine	SIG Sauer P226 9mm
7 C	One manila envelope containing evidence classified as	silver FC 9mm+P
	cartridge(s)	
9	One brown paper bag containing evidence classified as	Duty Belt from Mark Douglas Ringgenberg
	an item of evidence	
11	One cardboard box containing evidence classified as an	handcuffs with original packaging
	item of evidence	
12	One brown paper bag containing evidence classified as	Jamar Oneal Clark
	clothing	
12A	One brown paper bag containing evidence classified as	Black hooded vest - Jamar Oneal Clark
	hooded sweatshirt	
12B	One brown paper bag containing evidence classified as	Black hooded sweatshirt - Jamar Oneal Clark
	hooded sweatshirt	
12C	One brown paper bag containing evidence classified as t-	Red t-shirt - Jamar Oneal Clark
Page 1 of 3		

	shirt	
12 D	One brown paper bag containing evidence classified as underwear	Red plaid Hanes boxes - Jamar Oneal Clark
12E	One brown paper bag containing evidence classified as jeans	Denim House jeans - Jamar Oneal Clark
12 F	One brown paper bag containing evidence classified as socks	black socks - Jamar Oneal Clark
12F1	socks	black socks - Jamar Oneal Clark
12F2	socks	black socks - Jamar Oneal Clark
12 G	One brown paper bag containing evidence classified as a pair of shoes	Red Jordan Flight shoes - Jamar Oneal Clark
12G1	a left shoe	Red Jordan Flight shoes - Jamar Oneal Clark
12G2	a right shoe	Red Jordan Flight shoes - Jamar Oneal Clark
13	One manila envelope containing evidence classified as an item of evidence	cup
14	One manila envelope containing evidence classified as a swabbing from Item	Jamar Oneal Clark left and right hand
14A	One manila envelope containing evidence classified as a swabbing from Item	left hand Jamar Oneal Clark
14B	One manila envelope containing evidence classified as a swabbing from Item	right hand Jamar Oneal Clark
22	One manila envelope containing evidence classified as fingernail clippings	right hand, Jamar Oneal Clark, Agency Item #4
23	One manila envelope containing evidence classified as known head hair(s)	Jamar Oneal Clark, Agency Item #5
24	One manila envelope containing evidence classified as fingernail clippings	left hand, Jamar Oneal Clark, Agency Item #6

Results of Laboratory Examination:

Items 3A through 3D, 14A and 14B were collected.

Five samples were collected from Item 5A as Items 5A-1 (grips), 5A-2 (trigger), 5A-3 (magazine, slide and safety releases), 5A-4 (sides of slide and back), and 5A-5 (muzzle and lens of flashlight). Blood was not detected on Item 5A-5. One sample was collected from Item 5B as Item 5B-1 (bottom edges).

Six samples were collected from Item 7A as Items 7A-1 (grips), 7A-2 (trigger), 7A-3 (back sides of slide), 7A-4 (back and hammer), 7A-5 (magazine, slide and safety releases) and 7A-6 (flashlight). One sample was collected from Item 7B as Item 7B-1 (bottom edges).

Five samples were collected from Item 9 as Items 9-1 (holster), 9-2 (mace holder), 9-3 (handcuff holder with cover), 9-4 (handcuff holder) and 9-5 (accessory holders).

One sample was collected from Item 13 as Item 13-1.

DNA analysis will be performed on selected items. If you have not received a report within 2 months of the date on this report, or if DNA analysis is not needed, please contact the Biology Section of the BCA Laboratory.

One sample was collected from Item 11 as Item 11-1 (inside/outside edges). Blood was not detected on Item 11-1.

Additional DNA and Blood Pattern analysis will be performed on Item 11. If you have not received a report within 2 months of the date on this report, or if DNA analysis is not needed, please contact the Biology Section of the BCA Laboratory.

Items 12A through 12E, 12F1, 12F2, 12G1 and 12G2 were examined, but nothing was collected at this time.

Items 5C, 7C, 22, 23 and 24 were not examined.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Ross Thomas
Forensic Scientist

Disposition of Evidence:

Evidence will be held in the lab pending analysis.

Portions of pertinent evidence items have been removed and are being stored at the BCA laboratory. The contents of Items 3A through 3D, 14A and 14B have been retained.

Distribution: BCA St. Paul - 1





Bureau of Criminal Apprehension Forensic Science Laboratory – St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

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AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No. 4

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

11/23/2015

Laboratory Number:

S15-14003

Requesting Agency:
Agency Case Number:

BCA St. Paul 2015648

Section Reporting: Case Type:

Nuclear DNA
Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	Description/Source
15	One envelope containing evidence classified as a known	Dustin Timothy Schwarze
	DNA sample collection kit	
16	One envelope containing evidence classified as a known	Mark Douglas Ringgenberg
	DNA sample collection kit	
17	One plastic bag containing evidence classified as a	Jeffrey Steven Sworski, Agency Item #2015-
	known DNA sample collection kit	648/12,1
18	One plastic bag containing evidence classified as a	Chad Michael Conner, Agency Item #2015-
	known DNA sample collection kit	648/12.2
21	One manila envelope containing evidence classified as a	blood prep Jamar Oneal Clark, Agency Item #3
	bloodstain	• •

Results of Laboratory Examination:

DNA profiling* was performed on Items 15, 16, 17, 18 and 21. Additional DNA analysis will be performed on selected items. If you have not received a report within two months of the date on this report, or if DNA analysis is not needed, please contact the Biology Section of the BCA Laboratory.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Katherine Kingsland Forensic Scientist *DNA loci tested using PCR-STR includes some or all of the following: D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, D2S1338, D19S433, vWA, TPOX, D18S51, D5S818, FGA, and Amelogenin.

Disposition of Evidence:

Lab will hold all evidence until exams completed. The contents of Items 15, 16, 17, 18 and 21 have been retained.

Distribution: BCA St. Paul - 1





Bureau of Criminal Apprehension Forensic Science Laboratory – St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

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To:

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1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No.

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

11/25/2015

Laboratory Number:

S15-14003

Requesting Agency:

BCA St. Paul

Section Reporting:

Nuclear DNA

Agency Case Number:

2015648

Case Type:

Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

Type and Packaging

Description/Source

One cardboard box containing evidence classified as an 11

handcuffs with original packaging

item of evidence

Results of Laboratory Examination:

Presumptive testing indicated the presence of blood on three areas of Item 11 and the samples were collected as Items 11-2, 11-3 and 11-4.

DNA examinations will be performed on selected items and Blood Stain Pattern Analysis examinations will be performed on Item 11. If you have not received a report within two months of the date on this report, or if further examination is not needed, please contact the Biology Section of the BCA Laboratory.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Jason A. Simser, Ph.D. Forensic Scientist 3

Jason a Sim

Disposition of Evidence:

Evidence will be held in the lab pending analysis.

Portions of pertinent evidence items have been removed and are being stored at the BCA laboratory.

Distribution: BCA St. Paul - 1





Bureau of Criminal Apprehension Forensic Science Laboratory – St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No. 6

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

11/25/2015

Laboratory Number:

S15-14003

Requesting Agency:

BCA St. Paul

Section Reporting:

Nuclear DNA

Agency Case Number:

2015648

Case Type:

Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

	Submitted Evidence.	
Item 3	Type and Packaging	Description/Source
3	One brown paper bag containing evidence classified as a	from EMT truck
	swabbing from Item	
3A	One manila envelope containing evidence classified as a	from rear drivers side door handle - EMT truck
	swabbing from Item	
3B	One manila envelope containing evidence classified as a	from rear passengers side door handle - from
	swabbing from Item	EMT truck
3C	One manila envelope containing evidence classified as a	from side door on passengers side - from EMT
	swabbing from Item	truck
3 D	One manila envelope containing evidence classified as a	from front passenger side door handle - from
	swabbing from Item	EMT truck
9	One brown paper bag containing evidence classified as	Duty Belt from Mark Douglas Ringgenberg
	an item of evidence	, , , , , , , , , , , , , , , , , , , ,
9-1	One manila envelope containing evidence classified as a	holster
	swabbing from Item	
9-2	One manila envelope containing evidence classified as a	mace holder
	swabbing from Item	
9-3	One manila envelope containing evidence classified as a	front left handcuff holder with cover
	swabbing from Item	
9-4	One manila envelope containing evidence classified as a	back left handcuff holder
	swabbing from Item	
9-5	One manila envelope containing evidence classified as a	right side accessories/belt
	swabbing from Item	
11	One cardboard box containing evidence classified as an	handcuffs with original packaging
	item of evidence	
11-1	One manila envelope containing evidence classified as a	inside/outside edges of handcuffs
	swabbing from Item	
11-3	One manila envelope containing evidence classified as a	handcuffs
	swabbing from Item	
14	One manila envelope containing evidence classified as a	Jamar Oneal Clark left and right hand
	swabbing from Item	
14A	One manila envelope containing evidence classified as a	left hand Jamar Oneal Clark
	swabbing from Item	AND AMARIT PUBLISHE WASHINGTON
Page 1 of 4	~	

14B	One manila envelope containing evidence classified as a swabbing from Item	right hand Jamar Oneal Clark
15	One envelope containing evidence classified as a known DNA sample collection kit	Dustin Timothy Schwarze
16	One envelope containing evidence classified as a known DNA sample collection kit	Mark Douglas Ringgenberg
17	One plastic bag containing evidence classified as a known DNA sample collection kit	Jeffrey Steven Sworski, Agency Item #2015-648/12.1
18	One plastic bag containing evidence classified as a known DNA sample collection kit	Chad Michael Conner, Agency Item #2015-648/12.2
21	One manila envelope containing evidence classified as a bloodstain	blood prep Jamar Oneal Clark, Agency Item #3

Results of Laboratory Examination:

DNA profiling* was performed on Items 3A, 3C, 3D, 9-1, 9-2, 9-3, 9-4, 9-5, 11-1, 14A, 14B and on blood previously indicated on Item 11-3. DNA profiling was previously performed on Items 15, 16, 17, 18 and 21. The DNA results are as follows:

Items 3A and 3C, Rear and side door handles, EMT truck

• Due to insufficient genetic information, no statement can be made regarding the DNA types obtained

Item 3D, Front passenger door handle, EMT truck

- Mixture of three or more individuals
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael Conner and Jamar Oneal Clark are excluded from being contributors

Item 9-1, Holster on duty belt

- Mixture of two or more individuals
- Major male DNA profile matches Jamar Oneal Clark, does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski or Chad Michael Conner
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Dustin Timothy Schwarze, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors
- Mark Douglas Ringgenberg cannot be excluded from being a possible contributor to minor types
- Four of the nine loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 97.3% of the general population can be excluded from being contributors

Item 9-2, Mace holder on duty belt

- Mixture of three or more individuals
- Major male DNA profile matches Jamar Oneal Clark, does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski or Chad Michael Conner
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population

- Dustin Timothy Schwarze, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors
- Mark Douglas Ringgenberg cannot be excluded from being a possible contributor to minor types
- Five of the 11 loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 98.1% of the general population can be excluded from being contributors

Item 9-3, 'Front left' handcuff holder, with cover, on duty belt

- Mixture of two or more individuals
- Dustin Timothy Schwarze, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors
- Mark Douglas Ringgenberg and Jamar Oneal Clark cannot be excluded from being possible contributors
- One of the six loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 71.8% of the general population can be excluded from being contributors

Item 9-4, 'Back left' handcuff holder on duty belt

- Mixture of four or more individuals
- Dustin Timothy Schwarze, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors
- Mark Douglas Ringgenberg and Jamar Oneal Clark cannot be excluded from being possible contributors
- Six of the 13 loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 94.9% of the general population can be excluded from being contributors

Item 9-5, 'Right' side accessories/belt

• No DNA profile was obtained

Item 11-1, Inside/outside handcuff edges

• Due to insufficient genetic information, no statement can be made regarding the DNA types obtained

Item 11-3, Blood indicated on handcuffs

- Single source male DNA profile
- Matches Jamar Oneal Clark
- Does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski or Chad Michael Conner
- Would not be expected to occur more than once among unrelated individuals in the world population

Item 14A, Left hand of Jamar Oneal Clark

- Mixture of three or more individuals
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad

Michael Conner are excluded from being contributors

- Jamar Oneal Clark cannot be excluded from being a possible contributor
- It is estimated that 99.90% of the general population can be excluded from being contributors

Item 14B, Right hand of Jamar Oneal Clark

- Mixture of two or more individuals
- Major profile consistent with Jamar Oneal Clark
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being possible contributors to the mixture

Insufficient DNA was obtained from Item 3B to perform DNA profiling.

Additional DNA analysis will be performed on selected items. If you have not received a report within 2 months of the date on this report, or if DNA analysis is not needed, please contact the Biology Section of the BCA Laboratory.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Ross Thomas Forensic Scientist

*DNA loci tested using PCR-STR includes some or all of the following: D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, D2S1338, D19S433, vWA, TPOX, D18S51, D5S818, FGA, and Amelogenin.

Disposition of Evidence:

Evidence will be held in the lab pending analysis.

Distribution: BCA St. Paul - 1





Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No.

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

11/25/2015

Laboratory Number:

S15-14003

Requesting Agency: Agency Case Number:

Description/Source

BCA St. Paul 2015648

Section Reporting:

Nuclear DNA

Hennepin

Case Type:

Officer Involved Shooting/with a Death

County:

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael

Description of Submitted Evidence: Type and Packaging

TICILI	Type and Lackaging	Description/Source
5	One cardboard box containing evidence classified as a	Smith & Wesson, magazine with ammunition,
	firearm	and one cartridge.
5A	a firearm	Smith & Wesson
5B	a magazine	Smith & Wesson 9mm magazine
7	One cardboard box containing evidence classified as a	SIG Sauer, magazine with ammunition, and one
	firearm	cartridge.
7A	a firearm	SIG Sauer 9mm Model P226
7B	a magazine	SIG Sauer P226 9mm
15	One envelope containing evidence classified as a known	Dustin Timothy Schwarze
	DNA sample collection kit	
16	One envelope containing evidence classified as a known	Mark Douglas Ringgenberg
	DNA sample collection kit	
17	One plastic bag containing evidence classified as a	Jeffrey Steven Sworski, Agency Item #2015-
	known DNA sample collection kit	648/12,1
18	One plastic bag containing evidence classified as a	Chad Michael Conner, Agency Item #2015-
	known DNA sample collection kit	648/12.2
21	One manila envelope containing evidence classified as a	blood prep Jamar Oneal Clark, Agency Item #3
	bloodstain	
22	One manila envelope containing evidence classified as	right hand, Jamar Oneal Clark, Agency Item #4
	fingernail clippings	-
23	One manila envelope containing evidence classified as	Jamar Oneal Clark, Agency Item #5
	known head hair(s)	· • ·
24	One manila envelope containing evidence classified as	left hand, Jamar Oneal Clark, Agency Item #6
	fingernail clippings	

Results of Laboratory Examination:

DNA profiling* was performed on samples (5A-1 through 5A-5, 5B-1, 7A-1 through 7A-6 and 7B-1) collected from Items 5A, 5B, 7A and 7B and previously on Items 15, 16, 17, 18 and 21. The DNA results are as follows:

Item 5A-1, Grips of Smith & Wesson

- Mixture of five or more individuals
- Mark Douglas Ringgenberg, Chad Michael Conner and Jamar Oneal Clark are excluded from being contributors
- Jeffrey Steven Sworski and Dustin Timothy Schwarze cannot be excluded from being possible contributors
- Seven of the 15 loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 85.1% of the general population can be excluded from being contributors

Item 5A-2, Trigger of Smith & Wesson

- Mixture of two or more individuals
- Major male DNA profile matches Dustin Timothy Schwarze, does not match Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael Conner or Jamar Oneal Clark
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Due to insufficient genetic information, no statement can be made on the minor types

Item 5A-3, Magazine, slide and safety releases of Smith & Wesson

- Mixture of three or more individuals
- Major male DNA profile matches Jeffrey Steven Sworski, does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Chad Michael Conner or Jamar Oneal Clark
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Due to insufficient genetic information, no statement can be made on the minor types

Item 5A-4, Sides of slide and back of Smith & Wesson

- Mixture of three or more individuals
- Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael Conner and Jamar Oneal Clark are excluded from being contributors
- Dustin Timothy Schwarze cannot be excluded from being a possible contributor
- Two of the ten loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 83.3% of the general population can be excluded from being contributors

Item 5A-5, Muzzle and lens of flashlight of Smith & Wesson

- Mixture of four or more individuals
- Major male DNA profile matches Jamar Oneal Clark, does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski or Chad Michael Conner
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad
 Michael Conner are excluded from being contributors to the minor types

Item 5B-1, Bottom of magazine from Smith & Wesson

- Mixture of three or more individuals
- Mark Douglas Ringgenberg, Jeffrey Steven Sworski or Chad Michael Conner are excluded from being contributors
- Dustin Timothy Schwarze and Jamar Oneal Clark cannot be excluded from being possible contributors
- Two of the ten loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 48.2% of the general population can be excluded from being contributors

Item 7A-1, Grips of SIG Sauer

- Mixture of four or more individuals
- Dustin Timothy Schwarze, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors
- Mark Douglas Ringgenberg and Jamar Oneal Clark cannot be excluded from being possible contributors
- Nine of the 14 loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 87.5% of the general population can be excluded from being contributors

Item 7A-2, Trigger of SIG Sauer

- Mixture of two or more individuals
- Dustin Timothy Schwarze, Jeffrey Steven Sworski, Chad Michael Conner and Jamar Oneal Clark are excluded from being contributors
- Mark Douglas Ringgenberg cannot be excluded from being a possible contributor
- Two of the eight loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 59.5% of the general population can be excluded from being contributors

Item 7A-3, Back sides of slide of SIG Sauer

- Mixture of three or more individuals
- Major male DNA profile matches Mark Douglas Ringgenberg, does not match Dustin Timothy Schwarze, Jeffrey Steven Sworski, Chad Michael Conner and Jamar Oneal Clark
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Dustin Timothy Schwarze, Jeffrey Steven Sworski, Chad Michael Conner and Jamar Oneal Clark are excluded from being possible contributors to minor types

Item 7A-4, Back top and hammer of SIG Sauer

- Mixture of three or more individuals
- Major male DNA profile matches Mark Douglas Ringgenberg, does not match Dustin Timothy Schwarze, Jeffrey Steven Sworski, Chad Michael Conner and Jamar Oneal Clark
- Major male DNA profile would not be expected to occur more than once among

- unrelated individuals in the world population
- Dustin Timothy Schwarze, Jeffrey Steven Sworski, Chad Michael Conner and Jamar Oneal Clark are excluded from being possible contributors to minor types

Item 7A-5, Magazine, slide and safety releases of SIG Sauer

- Single source male DNA profile
- Matches Mark Douglas Ringgenberg
- Does not match Dustin Timothy Schwarze, Jeffrey Steven Sworski, Chad Michael Conner or Jamar Oneal Clark
- Would not be expected to occur more than once among unrelated individuals in the world population

Item 7A-6, Flashlight of SIG Sauer

- Mixture of two or more individuals
- Major male DNA profile matches Mark Douglas Ringgenberg, does not match Dustin Timothy Schwarze, Jeffrey Steven Sworski, Chad Michael Conner or Jamar Oneal Clark
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Dustin Timothy Schwarze, Jeffrey Steven Sworski, Chad Michael Conner and Jamar Oneal Clark are excluded from being possible contributors to minor types

Item 7B-1, Bottom of magazine from SIG Sauer

- Mixture of two or more individuals
- Dustin Timothy Schwarze, Jeffrey Steven Sworski, Chad Michael Conner and Jamar Oneal Clark are excluded from being contributors
- Mark Douglas Ringgenberg cannot be excluded from being a possible contributor
- Three of the nine loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 97.4% of the general population can be excluded from being contributors

Items 22, 23 and 24 were not examined.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Ross Thomas
Forensic Scientist

*DNA loci tested using PCR-STR includes some or all of the following: D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, D2S1338, D19S433, vWA, TPOX, D18S51, D5S818, FGA, and Amelogenin.

Disposition of Evidence: Evidence will be held in the lab pending analysis.

Distribution: BCA St. Paul - 1





Bureau of Criminal Apprehension Forensic Science Laboratory – St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003 Report No.

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Latent Prints

12/04/2015

Laboratory Number: Section Reporting:

S15-14003

Requesting Agency: Agency Case Number: 2015648

BCA St. Paul

Case Type:

Latent Prints Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	Description/Source
2	One manila envelope containing evidence classified as a	Images of questioned ink prints from Item 1 and
	disk with images	latent prints from Items 4 and 9. Created by
		Scientist.
4	One manila envelope containing evidence classified as latent print lift(s)	Four lifts from EMT truck
7	One cardboard box containing evidence classified as a	SIG Sauer, magazine with ammunition, and one
	firearm	cartridge.
7 A	a firearm	SIG Sauer 9mm Model P226
7B	a magazine	SIG Sauer P226 9mm
9	One brown paper bag containing evidence classified as an item of evidence	Duty Belt from Mark Douglas Ringgenberg
11	One cardboard box containing evidence classified as an item of evidence	Handcuffs with original packaging
13	One manila envelope containing evidence classified as an item of evidence	Cup

Results of Laboratory Examination:

KNOWN EXEMPLARS (Said to be from)	
Name (DOB)	Source of Exemplar
Jamar Oneal Clark (5-3-91)	BCA Files SID #MN10CR3326

Analysis of the evidence submitted as Items 4, 7 (7A and 7B), 9, 11 and 13 revealed six latent fingerprints and two latent impressions (unable to determine if the latent print is from a finger or a palm) which are suitable for comparison.

Item 4:

- Lift 4A from the agency marked lift "Impression Lift from rear door of ambulance rig# 419 (A)": LP4A-1 and LP4A-2.
- Lift 4B from the agency marked lift "Impression Lift from rear door of ambulance rig# 419 (C)": LP4B-1, LP4B-2 and LP4B-3.
- Lift 4C from the agency marked lift "Impression Lift from rear door of ambulance rig# 419 (B)": LP4C-1.

Item 9:

• Latent impressions from handcuffs: LP9-1 and LP9-3 (from handcuffs in case with portion of handcuffs exposed on the duty belt).

Latent Print(s)

- LP4A-1: Clark excluded as the source.
- LP4A-2: Clark excluded as the source.
- LP4B-1: Clark excluded as the source.
- LP4B-2: Clark excluded as the source.
- LP4B-3: Clark excluded as the source.
- LP4C-1: Clark excluded as the source.
- LP9-1: inconclusive for Clark due to a lack of information in the latent print.
- LP9-3: Clark excluded as the source.

Images of latent prints from Items 4 and 9 were added to Item 2.

Additional comparisons can be completed with the submission of additional known exemplars and with an additional request.

Cartridges in the magazine (Item 7B) were not removed or analyzed for latent prints.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Dennis P. Randall Forensic Scientist

Disposition of Evidence:

Items 4, 7 (7A and 7B), 9, 11 and 13 will be held until all exams have been completed. Item 2 will be retained at the BCA Laboratory.

Distribution: BCA St. Paul - 1

Page 2 of 2





Bureau of Criminal Apprehension Forensic Science Laboratory – St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No. 9

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Trace

12/10/2015

Laboratory Number:

S15-14003

Type and Packaging

Requesting Agency:
Agency Case Number:

Description/Source

BCA St. Paul 2015648

Section Reporting: Case Type:

Trace
Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

ACCIII	Type and Lackaging	Description/Source
22	One manila envelope containing evidence classified as	right hand, Jamar Oneal Clark, Agency Item #4
	fingernail clippings	
22A	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22A-1	One manila envelope containing evidence classified as	trace evidence from fingernail
	fingernail clippings	6
22B	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22B-1	One manila envelope containing evidence classified as	trace evidence from fingernail
	fingernail clippings	Hace columne from imperium
22C	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
220	fingernail clippings	Agency Item #4)
22C-1	One manila envelope containing evidence classified as	trace evidence from fingernail
22C-1	fingernail clippings	trace evidence from impernan
22D	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
LLD	fingernail clippings	
22D-1		Agency Item #4) trace evidence from fingernail
22 D -1	One manila envelope containing evidence classified as	trace evidence from imgernan
227	fingernail clippings	single Community (violate hand Tanan On sal Clark
22E	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
20T 4	fingernail clippings	Agency Item #4)
22E-1	One manila envelope containing evidence classified as	trace evidence from fingernail
• .	fingernail clippings	10111
24	One manila envelope containing evidence classified as	left hand, Jamar Oneal Clark, Agency Item #6
	fingernail clippings	
24A	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #6)
24A-1	One manila envelope containing evidence classified as	trace evidence from fingernail
	fingernail clippings	
24B	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #6)
24B-1	One manila envelope containing evidence classified as	trace evidence from fingernail
	fingernail clippings	

Page 1 of 2

24C	One manila envelope containing evidence classified as fingernail clippings	single fingernail (left hand, Jamar Oneal Clark, Agency Item #6)
24C-1	One manila envelope containing evidence classified as fingernail clippings	trace evidence from fingernail
24D	One manila envelope containing evidence classified as fingernail clippings	single fingernail (left hand, Jamar Oneal Clark, Agency Item #6)
24D-1	One manila envelope containing evidence classified as fingernail clippings	trace evidence from fingernail
24E	One manila envelope containing evidence classified as fingernail clippings	single fingernail (left hand, Jamar Oneal Clark, Agency Item #6)
24E-1	One manila envelope containing evidence classified as fingernail clippings	trace evidence from fingernail

Results of Laboratory Examination:

The Item 22 and Item 24 fingernails were sub-itemized and examined under a stereomicroscope. Trace evidence was removed, further sub-itemized and evaluated under a Polarizing Light Microscope. The trace evidence removed was categorized as follows:

- 27 Blue cotton fibers
- 12 Grey cotton fibers
- 12 Red cotton fibers
- 9 Blue synthetic fibers
- 7 Black cotton fibers
- 2 human hair fragments that are not suitable for Nuclear DNA analysis
- 1 orange cotton fiber
- 1 animal hair fragment
- Unknown silver material (largest piece was approximately 150 um long)

Unknown black material (largest piece was approximately 250 um long)

It should be noted that most of the above fibers were very small fragments (< 1mm in length). It also should be noted that blue cotton fibers are ubiquitous and may have limited forensic value. Additional fiber fragments were found but were either damaged and/or too small to characterize. Additional trace examinations will be completed on the unknown black material.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Susan T. Gross

Forensic Science Supervisor

Disposition of Evidence:

Evidence will be held in the lab pending analysis.

Distribution: BCA St. Paul - 1

Page 2 of 2





Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No.

10

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

12/10/2015

Laboratory Number:

S15-14003

Requesting Agency:

BCA St. Paul 2015648

Section Reporting:

Nuclear DNA

Agency Case Number:

Case Type:

Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

Description o	1 Submitted Evidence.	
<u>Item</u>	Type and Packaging	Description/Source
15	One envelope containing evidence classified as a known	Dustin Timothy Schwarze
	DNA sample collection kit	
16	One envelope containing evidence classified as a known	Mark Douglas Ringgenberg
	DNA sample collection kit	
17	One plastic bag containing evidence classified as a	Jeffrey Steven Sworski, Agency Item #2015-
	known DNA sample collection kit	648/12.1
18	One plastic bag containing evidence classified as a	Chad Michael Conner, Agency Item #2015-
	known DNA sample collection kit	648/12.2
21	One manila envelope containing evidence classified as a	blood prep Jamar Oneal Clark, Agency Item #3
	bloodstain	
22	One manila envelope containing evidence classified as	right hand, Jamar Oneal Clark, Agency Item #4
	fingernail clippings	
22A	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22B	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22C	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22D	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22E	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
24	One manila envelope containing evidence classified as	left hand, Jamar Oneal Clark, Agency Item #6
	fingernail clippings	
24A	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #6)
24B	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #6)
24C	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #6)
24D	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
Dom. 1 .62	fingernail clippings	Agency Item #6)

24E

One manila envelope containing evidence classified as fingernail clippings

single fingernail (left hand, Jamar Oneal Clark, Agency Item #6)

Results of Laboratory Examination:

Presumptive testing indicated the presence of blood on Items 22B, 22C, 24A, 24B and 24C.

One sample each was collected from Items 22A through 22E and 24A through 24E as Items 22A-2 through 22E-2 and 24A-2 through 24E-2.

DNA profiling* was performed on Items 22A-2 through 22E-2 and 24A-2 through 24E-2 and was previously performed on Items 15 through 18, and 21. The DNA results are as follows:

Item 22A-2

- Mixture of three or more individuals
- Major male profile consistent with Jamar Oneal Clark, does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner
- The minor types in the DNA mixture are not suitable for comparisons because no loci meet the BCA criteria for conducting statistical calculations

Items 22B-2, 24A-2 and 24B-2

- Mixtures of three or more individuals
- Major male profiles consistent with Jamar Oneal Clark, does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors to the minor types

Items 22C-2, 22E-2 and 24E-2

- Mixture of two or more individuals
- Major male profile consistent with Jamar Oneal Clark, does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner
- Due to insufficient genetic information, no statement can be made on the minor types

Item 22D-2

- Mixture of three or more individuals
- Major mixture of two or more individuals
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors to the major mixture
- Jamar Oneal Clark cannot be excluded from being a possible contributor to the major mixture
- It is estimated that 99.9992% of the general population can be excluded from being contributors
- Due to insufficient genetic information, no statement can be made on the minor types

Item 24C-2

- Mixture of three or more individuals
- Major mixture of two or more individuals

- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors to the major mixture
- Jamar Oneal Clark cannot be excluded from being a possible contributor to the major mixture
- It is estimated that 99.99995% of the general population can be excluded from being contributors
- Due to insufficient genetic information, no statement can be made on the minor types

Item 24D-2

- Mixture of three or more individuals
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors
- Jamar Oneal Clark cannot be excluded from being a possible contributor
- It is estimated that 99.995% of the general population can be excluded from being contributors

Further comparisons can be made to Items 22B-2, 22D-2, 24A-2, 24B-2, 24C-2 and 24D-2 if known samples from pertinent individuals are submitted to the BCA Laboratory

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Ross Thomas
Forensic Scientist

*DNA loci tested using PCR-STR includes some or all of the following: D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, D2S1338, D19S433, vWA, TPOX, D18S51, D5S818, FGA, and Amelogenin.

Disposition of Evidence:

Evidence will be held in the lab pending analysis.

Portions of pertinent evidence items have been removed and are being stored at the BCA laboratory. The contents of Items 22A through 22E and 24A through 24E have been retained.





Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No. 11

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Trace

12/15/2015

Laboratory Number:

S15-14003

Requesting Agency:

BCA St. Paul

Section Reporting:

Trace

Agency Case Number: 2015648

Case Type:

Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	<u>Description/Source</u>
9	One brown paper bag containing evidence classified as an item of evidence	Duty Belt from Mark Douglas Ringgenberg
22	One manila envelope containing evidence classified as fingernail clippings	right hand, Jamar Oneal Clark, Agency Item #4
24	One manila envelope containing evidence classified as fingernail clippings	left hand, Jamar Oneal Clark, Agency Item #6
24A	One manila envelope containing evidence classified as fingernail clippings	single fingernail (left hand, Jamar Oneal Clark, Agency Item #6)
24A-1	One manila envelope containing evidence classified as fingernail clippings	trace evidence from fingernail
24A-1a	One manila envelope containing evidence classified as unknown material	- unknown black material from fingernail

Results of Laboratory Examination:

The black material from Item 24 (sub-itemized as Item 24A-1a) was analyzed by Fourier Transform Infrared Spectroscopy and compared to nine different areas on the Item 9 duty belt. The chemical composition was different and therefore, the Item 9 can be eliminated as being the source of the unknown black material in Item 24A-1a (Elimination).

Item 22 did not contain any black material and there was some black material from Item 24 that was too small to further characterize.

Elimination: Items exhibit dissimilarities in one or more of the following: physical properties, chemical composition or microscopic characteristics and, therefore, <u>conclusively</u> did not originate from the same source.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Susan T. Gross

Forensic Science Supervisor

Disposition of Evidence:

Lab will hold all evidence until exams completed.





Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

S15-14003 Lab No.

Report No. 12

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Trace

12/22/2015

Laboratory Number:

S15-14003

Type and Packaging

Requesting Agency:

Description/Source

BCA St. Paul

Section Reporting:

Trace

Agency Case Number:

2015648

Case Type:

Page 1 of 3

Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

22	One manila envelope containing evidence classified as	right hand, Jamar Oneal Clark, Agency Item #4
	fingernail clippings	right hand, Januar Onear Clark, regoldy from "
22A	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22A-1	One manila envelope containing evidence classified as	trace evidence from fingernail
	fingernail clippings	ado oridono nom importan
22B	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22B-1	One manila envelope containing evidence classified as	trace evidence from fingernail
	fingernail clippings	and district nom imperium
22C	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
_	fingernail clippings	Agency Item #4)
22C-1	One manila envelope containing evidence classified as	trace evidence from fingernail
	fingernail clippings	
22D	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22D-1	One manila envelope containing evidence classified as	trace evidence from fingernail
	fingernail clippings	-
22E	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22E-1	One manila envelope containing evidence classified as	trace evidence from fingernail
	fingernail clippings	
24A	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #6)
24A-1	One manila envelope containing evidence classified as	trace evidence from fingernail
	fingernail clippings	
24B	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #6)
24B-1	One manila envelope containing evidence classified as	trace evidence from fingernail
***	fingernail clippings	
24C	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #6)

24C-1	One manila envelope containing evidence classified as fingernail clippings	trace evidence from fingernail
24D	One manila envelope containing evidence classified as fingernail clippings	single fingernail (left hand, Jamar Oneal Clark, Agency Item #6)
24D-1	One manila envelope containing evidence classified as fingernail clippings	trace evidence from fingernail
24E	One manila envelope containing evidence classified as fingernail clippings	single fingernail (left hand, Jamar Oneal Clark, Agency Item #6)
24E-1	One manila envelope containing evidence classified as fingernail clippings	trace evidence from fingernail
26	One brown paper bag containing evidence classified as clothing	pants & fleece - Dustin Timothy Schwarze - item 89.1
26A	One brown paper bag containing evidence classified as clothing	fleece jacket - Dustin Timothy Schwarze - item 89.1
26B	One brown paper bag containing evidence classified as clothing	pants - Dustin Timothy Schwarze - item 89.1
27	One brown paper bag containing evidence classified as clothing	pants & shirt, Mark Douglas Riggenberg - item 89.2
27A	One brown paper bag containing evidence classified as clothing	shirt, Mark Douglas Riggenberg - item 89.2
27B	One brown paper bag containing evidence classified as clothing	pants, Mark Douglas Riggenberg - item 89.2

Results of Laboratory Examination:

All of the fibers on Item 22 were different in type, color, microscopic characteristics and/or visible spectra (MSP) to the known fibers in Items 26A, 26B and 27B and therefore, can be eliminated as having a common source (Elimination).

One synthetic light blue fiber was found on Item 22B-1 that could not be eliminated from Item 27A known fibers based on color and delusterant, however, due to the damaged condition of the unknown fiber, further analysis was not possible and therefore, it is inconclusive if Item 27A could be the source of the unknown light blue fiber in Item 22B-1 (Inconclusive). All other fibers on Item 22 were different in type, color, microscopic characteristics and/or visible spectra (MSP) to the known fibers in Item 27A, and therefore, can be eliminated as having a common source (Elimination).

All of the fibers on Item 24 were different in type, color, microscopic characteristics and/or visible spectra (MSP) to the known fibers in Items 26A, 26B and 27A and therefore, can be eliminated as having a common source (Elimination).

One small blue cotton fiber was found on Item 24B-1 that was similar in type, color and visible spectra (MSP) to the Item 27B known fibers. Therefore, Item 27B cannot be eliminated as being the source of this unknown fiber (**Type 4 Association**). All other fibers on Item 24 were different in type, color, microscopic characteristics and/or visible spectra (MSP) to the known fibers in Item 27B and therefore, can be eliminated as having a common source (**Elimination**).

It should be noted that blue cotton fibers are commonly encountered in the environment and may have limited forensic significance.

KEY for instrument acronyms:

MSP-Microspectrophotometry

Interpretation:

The following descriptions are meant to provide context to the opinions reached in this report. Every type of conclusion may not be applicable in every case or for every material type.

Type 1 Association: Identification

An association in which items share individual characteristics and/or physically fit together that demonstrate the items were once from the same source.

Type 2 Association: Highly likely

An association in which items correspond in all measured physical properties, chemical composition and/or microscopic characteristics and share distinctive characteristic(s) that would not be expected to be found in the population of this evidence type. The distinctive characteristics were not sufficient for a Type 1 Association.

Type 3 Association: Could have

An association in which items correspond in all measured physical properties, chemical composition and/or microscopic characteristics and could have originated from the same source. Because it is possible for another sample to be indistinguishable from the submitted evidence, an individual source cannot be determined.

Type 4 Association: Cannot eliminate

An association in which items correspond in some but possibly not all measured physical properties, chemical composition and/or microscopic characteristics and cannot be eliminated as coming from the same source. This type of evidence may be commonly encountered in the environment, may have limited comparative value and/or there may be factor(s) limiting the comparison.

Inconclusive: No conclusion could be reached regarding an association between the items.

Elimination: Items exhibit dissimilarities in one or more of the following: physical properties, chemical composition or microscopic characteristics and, therefore, <u>conclusively</u> did not originate from the same source.

Non-Association: Items exhibit dissimilarities but certain details or features are not sufficient for an Elimination.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Susan T. Gross

Forensic Science Supervisor

Disposition of Evidence:

Lab will hold all evidence until exams completed.

Distribution: BCA St. Paul - 1

Page 3 of 3





Lab No.

Report No.

S15-14003

13

MINNESOTA DEPARTMENT OF PUBLIC SAFETY

Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To: BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Trace

01/20/2016

Laboratory Number: Section Reporting:

Case Type:

S15-14003

Trace

Officer Involved Shooting/with a Death

Requesting Agency:

Agency Case Number: County:

2015648

Hennepin

BCA St. Paul

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	Description/Source
12	One brown paper bag containing evidence classified as clothing	Jamar Oneal Clark
12A	One brown paper bag containing evidence classified as hooded sweatshirt	Black hooded vest - Jamar Oneal Clark
12B	One brown paper bag containing evidence classified as hooded sweatshirt	Black hooded sweatshirt - Jamar Oneal Clark
12C	One brown paper bag containing evidence classified as t-shirt	Red t-shirt - Jamar Oneal Clark
12D	One brown paper bag containing evidence classified as underwear	Red plaid Hanes boxes - Jamar Oneal Clark
12E	One brown paper bag containing evidence classified as jeans	Denim House jeans - Jamar Oneal Clark
12F	One brown paper bag containing evidence classified as socks	black socks - Jamar Oneal Clark
12G	One brown paper bag containing evidence classified as a pair of shoes	Red Jordan Flight shoes - Jamar Oneal Clark
22	One manila envelope containing evidence classified as fingernail clippings	right hand, Jamar Oneal Clark, Agency Item #4
24	One manila envelope containing evidence classified as fingernail clippings	left hand, Jamar Oneal Clark, Agency Item #6
24B	One manila envelope containing evidence classified as fingernail clippings	single fingernail (left hand, Jamar Oneal Clark, Agency Item #6)
24B-1	One manila envelope containing evidence classified as fingernail clippings	trace evidence from fingernail

Results of Laboratory Examination:

The known clothing in Items 12A (black jacket), 12B (black sweatshirt), 12C (red t-shirt) and 12E (jeans) from Jamar Oneal Clark were compared to a single blue cotton fiber from previously examined Item 24B-1.

The fibers from the known clothing in Items 12A, 12B and 12C were different in color and/or type to the unknown blue cotton fiber in Item 24B-1 and therefore can be eliminated as being a possible source of this fiber (ELIMINATION).

The Item 12E jeans contained 6 denim patches. Fibers from all of these patches as well as the jeans were compared to the unknown blue cotton fiber in Item 24B-1. The fibers from the jeans and five of the patches were different in color, type and/or visible spectra (MSP) to the unknown fiber in Item 24B-1 and therefore can be eliminated as being a possible source of this fiber (**ELIMINATION**).

One patch contained an assortment of blue cotton fibers among other fibers. Most of these fibers were different than the unknown fiber however one fiber was inconclusive in visible spectra (MSP). Due to the variability within the known sample and the inconclusive MSP results, no conclusion could be reached regarding an association or elimination between the Item 12E jean patch and the unknown blue cotton fiber in Item 24B-1 (INCONCLUSIVE).

Items 12D, 12F and 12G were not analyzed.

No other comparisons were completed on the unknown fibers removed from the Item 22 and Item 24 fingernail clippings from Jamar Oneal Clark to his own clothing in Item 12.

Interpretation:

The following descriptions are meant to provide context to the opinions reached in this report. Every type of conclusion may not be applicable in every case or for every material type.

Type 1 Association: Identification

An association in which items share individual characteristics and/or physically fit together that demonstrate the items were once from the same source.

Type 2 Association: Highly likely

An association in which items correspond in all measured physical properties, chemical composition and/or microscopic characteristics and share distinctive characteristic(s) that would not be expected to be found in the population of this evidence type. The distinctive characteristics were not sufficient for a Type 1 Association.

Type 3 Association: Could have

An association in which items correspond in all measured physical properties, chemical composition and/or microscopic characteristics and could have originated from the same source. Because it is possible for another sample to be indistinguishable from the submitted evidence, an individual source cannot be determined.

Type 4 Association: Cannot eliminate

An association in which items correspond in some but possibly not all measured physical properties, chemical composition and/or microscopic characteristics and cannot be eliminated as coming from the same source. This type of evidence may be commonly encountered in the environment, may have limited comparative value and/or there may be factor(s) limiting the comparison.

Inconclusive: No conclusion could be reached regarding an association between the items.

Elimination: Items exhibit dissimilarities in one or more of the following: physical properties, chemical composition or microscopic characteristics and, therefore, <u>conclusively</u> did not originate from the same source.

Non-Association: Items exhibit dissimilarities but certain details or features are not sufficient for an Elimination.

KEY for instrument acronyms:

MSP - Microspectrophotometry

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.



Forensic Science Supervisor

Disposition of Evidence:

Lab will hold all evidence until exams completed.





Bureau of Criminal Apprehension Forensic Science Laboratory - St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No.

14

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

01/28/2016

Laboratory Number: Section Reporting:

S15-14003

Requesting Agency:

BCA St. Paul

Nuclear DNA

Agency Case Number:

2015648

Case Type:

Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	<u>Description/Source</u>
12	One brown paper bag containing evidence classified as clothing	Jamar Oneal Clark
12A	One brown paper bag containing evidence classified as hooded sweatshirt	Black hooded vest - Jamar Oneal Clark
12B	One brown paper bag containing evidence classified as hooded sweatshirt	Black hooded sweatshirt - Jamar Oneal Clark
12C	One brown paper bag containing evidence classified as t-shirt	Red t-shirt - Jamar Oneal Clark
12E	One brown paper bag containing evidence classified as jeans	Denim House jeans - Jamar Oneal Clark
12G	One brown paper bag containing evidence classified as a pair of shoes	Red Jordan Flight shoes - Jamar Oneal Clark
12G1	a left shoe	Red Jordan Flight shoes - Jamar Oneal Clark
12G2	a right shoe	Red Jordan Flight shoes - Jamar Oneal Clark

Results of Laboratory Examination:

Presumptive testing indicated the presence of blood on sixteen areas of Item 12A, twelve areas of Item 12B, three areas of Item 12C, five areas of Item 12E, two areas of Item 12G1 and one area of Item 12G2 of which the following samples were collected as Items 12B-2, 12C-2, 12C-3, 12E-3, 12E-4, 12E-5, 12G1-1, 12G1-2, and 12G2-1. One additional sample was collected from Item 12E as Item 12E-2.

DNA examinations will be performed on selected items and Blood Stain Pattern Analysis examinations will be performed on Items 12A, 12B, 12C, 12E, 12G1 and 12G2. If you have not received a report within a week of the date of this report, or if further examinations are not needed, please contact the Biology Section of the BCA Laboratory.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Jason A. Simser, Ph.D. Forensic Scientist 3

Disposition of Evidence:

Jason a Sim

Evidence will be held in the lab pending analysis.

Portions of pertinent evidence items have been removed and are being stored at the BCA laboratory.





Bureau of Criminal Apprehension Forensic Science Laboratory – St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No. 15

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

01/28/2016

Laboratory Number: Section Reporting: S15-14003

Requesting Agency: Agency Case Number: BCA St. Paul 2015648

Section Reporting: Case Type:

Nuclear DNA
Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	Description/Source
11	One cardboard box containing evidence classified as an	Handcuffs with original packaging
	item of evidence	
12	One brown paper bag containing evidence classified as	Jamar Oneal Clark
	clothing	
12B	One brown paper bag containing evidence classified as	Black hooded sweatshirt - Jamar Oneal Clark
	hooded sweatshirt	
12C	One brown paper bag containing evidence classified as t-	Red t-shirt - Jamar Oneal Clark
	shirt	
12E	One brown paper bag containing evidence classified as	Denim House jeans - Jamar Oneal Clark
	ieans	•
12G	One brown paper bag containing evidence classified as a	Red Jordan Flight shoes - Jamar Oneal Clark
	pair of shoes	•
12G1	a left shoe	Red Jordan Flight shoes - Jamar Oneal Clark
12G2	a right shoe	Red Jordan Flight shoes - Jamar Oneal Clark
15	One envelope containing evidence classified as a known	Dustin Timothy Schwarze
	DNA sample collection kit	,
16	One envelope containing evidence classified as a known	Mark Douglas Ringgenberg
	DNA sample collection kit	000
17	One plastic bag containing evidence classified as a	Jeffrey Steven Sworski, Agency Item #2015-
	known DNA sample collection kit	648/12.1
18	One plastic bag containing evidence classified as a	Chad Michael Conner, Agency Item #2015-
	known DNA sample collection kit	648/12.2
21	One manila envelope containing evidence classified as a	blood prep Jamar Oneal Clark, Agency Item #3
~ ±	bloodstain	oloog prop Juliur Ollour Clark, 1250hoy 10011 113
	otodisum	

Results of Laboratory Examination:

DNA profiling* was performed on blood previously indicated on samples (11-4, 12B-2, 12C-2, 12C-3, 12E-3, 12E-4, 12E-5, 12G1-1, 12G1-2 and 12G2-1) collected from Items 11, 12B, 12C, 12E, 12G1 and 12G2. DNA

profiling was also performed on an additional sample (Item 12E-2) collected from 12E and previously performed on Items 15, 16, 17, 18 and 21. The DNA results are as follows:

Item 11-4, Blood indicated on handcuffs

- Mixture of two or more individuals
- Major male DNA profile matches Jamar Oneal Clark, does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski or Chad Michael Conner
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Due to insufficient genetic information, no statement can be made on the minor types

Item 12B-2, Blood indicated on black hood sweatshirt, inside right pocket

- Mixture of three or more individuals
- Major mixture of two or more individuals
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors to the major mixture
- Jamar Oneal Clark cannot be excluded from being a possible contributor to the major mixture
- It is estimated that 99.9997% of the general population can be excluded from being contributors
- Due to insufficient genetic information, no statement can be made on the minor types

Item 12C-2, Blood indicated on red t-shirt, front middle

- Mixture of two or more individuals
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors to the mixture
- Jamar Oneal Clark cannot be excluded from being a possible contributor to the mixture
- It is estimated that 99.999990% of the general population can be excluded from being contributors

Item 12C-3, Blood indicated on red t-shirt, front right shoulder

- Mixture of two or more individuals
- Major DNA profile, indicated as female
- Does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael Conner or Jamar Oneal Clark
- Due to insufficient genetic information, no statement can be made on the minor types

Item 12E-2, Jeans, front left knee

Item 12E-3, Blood indicated on jeans, front right knee

Item 12G1-2, Blood indicated on left shoe, top right side

- Single source DNA profiles, indicated as female, matches the major DNA profile from Item 12C-3
- Does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael Conner or Jamar Oneal Clark

Item 12E-4, Blood indicated on jeans, front right pocket

Item 12E-5, Blood indicated on jeans, front left pocket

- Mixtures of three or more individuals
- Major mixtures of two or more individuals
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors to the major mixture
- Jamar Oneal Clark cannot be excluded from being a possible contributor to the major mixture
- It is estimated that 99.999995% of the general population can be excluded from being contributors
- Due to insufficient genetic information, no statement can be made on the minor types

Item 12G1-1, Blood indicated on left shoe, right side midsole

- Mixture of two or more individuals
- Major DNA profile, indicated as female, matches the major DNA profile from Item 12C-3
- Does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael Conner or Jamar Oneal Clark
- Due to insufficient genetic information, no statement can be made on the minor types

Item 12G2-1, Blood indicated on right shoe, left side near laces

- Mixture of two or more individuals
- Major DNA profile, indicated as female, matches the major DNA profile from Item 12C-3
- Does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael Conner or Jamar Oneal Clark
- Due to insufficient genetic information, no statement can be made on the minor types

Insufficient DNA was obtained from Item 11-2 to perform DNA profiling.

Further comparisons can be made to these DNA profiles if known samples from pertinent individuals are submitted to the BCA Laboratory.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Ross Thomas
Forensic Scientist

*DNA loci tested using PCR-STR includes some or all of the following: D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, D2S1338, D19S433, vWA, TPOX, D18S51, D5S818, FGA, and Amelogenin.

Disposition of Evidence:

Kon Thomas

Lab will hold all evidence until exams completed.





Bureau of Criminal Apprehension Forensic Science Laboratory – St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No. 16

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Blood Stain Pattern Analysis

02/04/2016

Laboratory Number:

S15-14003

Requesting Agency:
Agency Case Number:

BCA St. Paul 2015648

Section Reporting: Case Type:

Blood Stain Pattern Analysis
Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Jamar Oneal Clark

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	Description/Source
11	One cardboard box containing evidence classified as an item of evidence	Handcuff's with original packaging
12	One brown paper bag containing evidence classified as clothing	Jamar Oneal Clark
12A	One brown paper bag containing evidence classified as hooded sweatshirt	Black hooded vest - Jamar Oneal Clark
12B	One brown paper bag containing evidence classified as hooded sweatshirt	Black hooded sweatshirt - Jamar Oneal Clark
12C	One brown paper bag containing evidence classified as t-shirt	Red t-shirt - Jamar Oneal Clark
12E	One brown paper bag containing evidence classified as jeans	Denim House jeans - Jamar Oneal Clark
12 G	One brown paper bag containing evidence classified as a pair of shoes	Red Jordan Flight shoes - Jamar Oneal Clark
12G1	a left shoe	Red Jordan Flight shoes - Jamar Oneal Clark
12G2	a right shoe	Red Jordan Flight shoes - Jamar Oneal Clark
25	One plastic container with evidence classified as an item of evidence	MSP Video and Photos DVD 2015-648 BCA

DNA results described in this report were previously detailed in Report # 15, dated 1/28/2016.

Results of Laboratory Examination:

The following observations and conclusions are based upon the information provided to date. If more information becomes available, I reserve the right to amend this report. Reported **bloodstains** were either previously presumptively tested for the presence of blood (Report #'s 5, dated 11/25/2015 and 14, dated 1/28/2016) or were visually consistent with blood. Orientations of 'left' and 'right' for clothing descriptions are in reference to the clothes being worn.

Observations:

Item 11 - Handcuffs

- Bloodstains were located on the side of the handcuffs opposite the keyholes and on a portion of one of the hinges.
 - o Ten spatter stains all less than 1 mm in diameter were located on the handcuffs. The only bloodstain not located on the side opposite of the keyholes was a spatter stain located on a recessing portion of one hinge.
 - O A number of indeterminate type bloodstains, where a particular bloodstain pattern analysis (BPA) classification could not be determined, were also located on the non-keyhole side of the handcuffs as well.
- No bloodstains were observed on any other surfaces of the handcuffs.

Item 12A – Black hooded vest

- Transfer stains and indeterminate type bloodstains were visually observed on various areas of the outside of the body portion and throughout the interior of this piece of clothing.
- An approximately 0.2 cm diameter bloodstain mixed with apparent tissue and/or fluid was present on the inside back of the vest.

Item 12B - Black hooded sweatshirt

- Bloodstains were observed on various areas of both the inside and outside of the black hooded sweatshirt that were determined to be of indeterminate type.
- Apparent tissue and/or fluid mixed with blood was present on the inside back of the sweatshirt.
- Complete BPA exams were not performed on the inside of this item.

Item 12C - Red t-shirt

- The majority of bloodstains on the t-shirt were located on the front and shoulders that included spatter stains, transfer stains and indeterminate type stains.
 - o Approximately 20 spatter stains ranging in size from less than 1 mm up to 4 mm in diameter were located on the right shoulder.
 - On the stomach area of the t-shirt was a mixture of transfer stains and indeterminate type bloodstains.
 - O Located on the left shoulder were mixtures of transfer stains and indeterminate type stains on the exterior surface and transfer stains, spatter stains, and indeterminate type stains on the interior of the t-shirt.
- The only bloodstains observed on the back of the t-shirt were two areas of transfer stains and one area of indeterminate type.

Item 12E - Jeans

- The front of the jeans contained a mixture of predominately transfer stains and spatter stains.
 - o Transfer stains were observed on the pocket, thigh, knee and shin areas of the right leg and the thigh and knee areas of the left leg.
 - o The spatter stains all less than 1 mm in diameter were located on the thigh and knee areas of the left leg (28 stains) and the thigh, knee and shin areas of the right leg (9 stains).
 - o Two indeterminate type bloodstain were located on the front of the jeans, one on each leg.
- Two areas of transfer stains were the only bloodstains observed on the back of the jeans.

Item 12G1 - Left shoe

- Approximately 55 spatter stains the majority of which were less than 1 mm with the largest being 1.5 x 4 mm in size were located on the right side of the ankle, tongue, laces, lace strap, and top front of the shoe.
 - o A number of these spatter stains either had directionalities or placements on the shoe that supported their angles of impact as coming from above the shoe.
- Two areas of indeterminate type bloodstains were located on the right side of this shoe.
- No bloodstains were observed on the back or bottom sides of the left shoe.

Item 12G2 - Right shoe

- A total of 7 spatter stains with the largest being 0.8 x 1.5 mm in size were observed on the front top and left sides as well as on the laces of the right shoe.
 - One of these stains had an angle of impact that was supported as coming from above the shoe.
- No bloodstains were observed on the right, back and bottom sides of the right shoe.

Item 25 - Minneapolis P.D. CST Video and Photos - 1611 Plymouth Ave N.

It should be noted that Bloodstain Pattern Analysis (BPA) interpretations from photographs are often limited compared to working with the actual crime scene and/or evidence.

- The handcuffs were observed on the boulevard, bloodstained side up, and surrounded by a number of other objects including apparent Emergency Medical Technician (EMT) items containing bloodstains.
- Located partially covering the handcuffs were a leaf and an Avant Gauze sponge wrapper with spatter stains (10's, less than or equal to 1 mm in size).
- Blood **pools** and other indeterminate type bloodstains were located on the ground between the handcuffs and the sidewalk.
- Transfer, saturation and additional indeterminate type bloodstains were located on gauze near the sidewalk.
- Observed between the densest area of bloodstaining on the ground and the handcuffs was a plastic bag containing a number of bloodstains of indeterminate type primarily located on the side of the bag facing in the general direction of the blood pools on the ground.

Conclusions:

- 1. The handcuffs were in proximity to a spatter producing event or events, one of which involved Jamar Oneal Clark's blood (Item 11-4, Report #15) that was limited to one side of the handcuffs. Possible mechanisms producing the spatter include impact (including backspatter), expiration, cast-off, and satellite stains from dripped, projected or splashed blood.
- 2. The t-shirt, jeans, and both shoes were in proximity to a spatter producing event or events which involved the blood of an unidentified individual, indicated to be female (Items 12C-3, 12E-2, 12G1-1, and 12G2-1; Report #15). The source(s) of this unidentified individual's blood was located generally in front of and to the top of the shoes of Jamar Oneal Clark's clothing when this event(s) took place. Possible mechanisms producing the spatter include but are not limited to impact, expiration, cast-off and satellite stains from dripped, projected or splashed blood.
- 3. The presence of a transfer stain containing the blood of the same unidentified individual as mentioned above (Item 12E-3, report #15) is consistent with an object containing their blood coming in contact with the jeans.

- 4. The presence of bloodstains throughout both the black hooded vest and black hooded sweatshirt, some of which had apparent tissue and/or fluid, is consistent with these items being on or located near to Jamar Oneal Clark while he was bleeding. However because the majority of the bloodstains on both of these items were either indeterminate or not readily visual (detected by chemical means only) the BPA interpretations and conclusions were limited.
- 5. The presence of medical equipment with bloodstains demonstrated that medical intervention could be responsible for some of the bloodstains observed on the handcuffs and Jamar Oneal Clark's clothing.

SWGSTAIN Terminology:

Angle of Impact - The acute angle (alpha), relative to the plane of a target, at which a blood drop strikes the target.

Backspatter Pattern - A bloodstain pattern resulting from blood drops that traveled in the opposite direction of the external force applied; associated with an entrance wound created by a projectile.

Bloodstain - A deposit of blood on a surface.

Cast-off Pattern - A bloodstain pattern resulting from blood drops released from an object due to its motion.

Cessation Cast-off Pattern - A bloodstain pattern resulting from blood drops released from an object due to its rapid deceleration.

Directionality - The characteristic of a bloodstain that indicates the direction blood was moving at the time of deposition.

Drip Pattern - A bloodstain pattern resulting from a liquid that dripped into another liquid, at least one of which was blood.

Expiration Pattern - A bloodstain pattern resulting from blood forced by airflow out of the nose, mouth, or a wound.

Impact Pattern - A bloodstain pattern resulting from an object striking liquid blood.

Parent Stain - A bloodstain from which a satellite stain originated.

Pool - A bloodstain resulting from an accumulation of liquid blood on a surface.

Projected Pattern - A bloodstain pattern resulting from the ejection of a volume of blood under pressure.

Satellite Stain - A smaller bloodstain that originated during the formation of the parent stain as a result of blood impacting a surface.

Spatter Stain - A bloodstain resulting from a blood drop dispersed through the air due to an external force applied to a source of liquid blood.

Splash Pattern - A bloodstain pattern resulting from a volume of liquid blood that falls or spills onto a surface.

Target - A surface onto which blood has been deposited.

Transfer Stain - A bloodstain resulting from contact between a blood-bearing surface and another surface.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Jason A. Simser, Ph.D. Forensic Scientist 3

Jason a Sim

Disposition of Evidence: Please pick up your evidence.





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1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No.

17

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

02/06/2016

Laboratory Number:

S15-14003

Requesting Agency:

BCA St. Paul

Section Reporting:

Nuclear DNA

Agency Case Number:

2015648

Case Type:

Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Rayann Francine Hayes; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

-	of Submitted Evidence.	
<u>Item</u>	Type and Packaging	Description/Source
3	One brown paper bag containing evidence classified as a	from EMT truck
	swabbing from Item	
3 D	One manila envelope containing evidence classified as a	from front passenger side door handle - from
	swabbing from Item	EMT truck
5	One cardboard box containing evidence classified as a	Smith & Wesson, magazine with ammunition,
	firearm	and one cartridge.
5A	a firearm	Smith & Wesson
5B	a magazine	Smith & Wesson 9mm magazine
7	One cardboard box containing evidence classified as a	SIG Sauer, magazine with ammunition, and one
	firearm	cartridge.
7A	a firearm	SIG Sauer 9mm Model P226
7B	a magazine	SIG Sauer P226 9mm
9	One brown paper bag containing evidence classified as	Duty Belt from Mark Douglas Ringgenberg
	an item of evidence	
9-1	One manila envelope containing evidence classified as a	holster
	swabbing from Item	
9-2	One manila envelope containing evidence classified as a	mace holder
	swabbing from Item	
9-3	One manila envelope containing evidence classified as a	front left handcuff holder with cover
	swabbing from Item	
9-4	One manila envelope containing evidence classified as a	back left handcuff holder
	swabbing from Item	
11	One cardboard box containing evidence classified as an	Handcuffs with original packaging
	item of evidence	
11-3	One manila envelope containing evidence classified as a	handcuffs
	swabbing from Item	
11-4	One manila envelope containing evidence classified as a	handcuffs
	swabbing from Item	
12	One brown paper bag containing evidence classified as	Jamar Oneal Clark
447	clothing	
12B	One brown paper bag containing evidence classified as	Black hooded sweatshirt - Jamar Oneal Clark
.	hooded sweatshirt	
Page 1 of 8		

12C	One brown paper bag containing evidence classified as t-shirt	Red t-shirt - Jamar Oneal Clark
12E	One brown paper bag containing evidence classified as jeans	Denim House jeans - Jamar Oneal Clark
12G	One brown paper bag containing evidence classified as a pair of shoes	Red Jordan Flight shoes - Jamar Oneal Clark
12G1	a left shoe	Red Jordan Flight shoes - Jamar Oneal Clark
12G2	a right shoe	Red Jordan Flight shoes - Jamar Oneal Clark
14	One manila envelope containing evidence classified as a swabbing from Item	Jamar Oneal Clark left and right hand
14A	One manila envelope containing evidence classified as a swabbing from Item	left hand Jamar Oneal Clark
14B	One manila envelope containing evidence classified as a swabbing from Item	right hand Jamar Oneal Clark
21	One manila envelope containing evidence classified as a bloodstain	blood prep Jamar Oneal Clark, Agency Item #3
22	One manila envelope containing evidence classified as fingernail clippings	right hand, Jamar Oneal Clark, Agency Item #4
22A	One manila envelope containing evidence classified as fingernail clippings	single fingernail (right hand, Jamar Oneal Clark, Agency Item #4)
22B	One manila envelope containing evidence classified as	single fingernail (right hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #4)
22C	One manila envelope containing evidence classified as fingernail clippings	single fingernail (right hand, Jamar Oneal Clark, Agency Item #4)
22D	One manila envelope containing evidence classified as fingernail clippings	single fingernail (right hand, Jamar Oneal Clark, Agency Item #4)
22E	One manila envelope containing evidence classified as fingernail clippings	single fingernail (right hand, Jamar Oneal Clark, Agency Item #4)
24	One manila envelope containing evidence classified as fingernail clippings	left hand, Jamar Oneal Clark, Agency Item #6
24A	One manila envelope containing evidence classified as fingernail clippings	single fingernail (left hand, Jamar Oneal Clark, Agency Item #6)
24B	One manila envelope containing evidence classified as fingernail clippings	single fingernail (left hand, Jamar Oneal Clark, Agency Item #6)
24C	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
2.0	fingernail clippings	Agency Item #6)
24D	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #6)
24E	One manila envelope containing evidence classified as	single fingernail (left hand, Jamar Oneal Clark,
	fingernail clippings	Agency Item #6)
28	One envelope containing evidence classified as a known DNA sample collection kit	Rayann Francine Hayes

Results of Laboratory Examination:

DNA profiling* was performed on Item 28.

DNA profiling was previously performed on Items 3D, 9-1, 9-2, 9-3, 9-4, 14A, 14B and 21. DNA profiling was previously performed on samples (5A-1 through 5A-5, 5B-1, 7A-1 though 7A-6 and 7B-1) collected from Items 5A, 5B, 7A and 7B, a sample (12E-2) collected from 12E, samples (22A-2, 22D-2, 22E-2, 24D-2 and 24E-2) collected from Items 22A, 22D, 22E, 24D and 24E.

DNA profiling was also previously performed on blood indicated on samples (11-3 and 11-4) collected from Item 11, samples (12B-2, 12C-2, 12C-3, 12E-3, 12E-4, 12E-5, 12G1-1, 12G1-2, 12G2-1) collected from Items

12B, 12C, 12E, 12G1 and 12G2, samples (22B-2, 22C-2, 24A-2, 24B-2 and 24C-2) collected from Items 22B, 22C, 24A, 24B and 24C.

The DNA results are as follows:

Item 3D, Front passenger door handle, EMT truck

- Mixture of three or more individuals, as previously reported
- Rayann Francine Hayes is excluded from being a contributor

Item 9-1, Holster on duty belt

- Mixture of two or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Rayann Francine Hayes is excluded from being a contributor

Item 9-2, Mace holder on duty belt

- Mixture of three or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Rayann Francine Hayes is excluded from being a contributor

Item 9-3, 'Front left' handcuff holder, with cover, on duty belt

- Mixture of two or more individuals, as previously reported
- Rayann Francine Hayes is excluded from being a contributor

Item 9-4, 'Back left' handcuff holder on duty belt

- Mixture of four or more individuals, as previously reported
- Rayann Francine Hayes is excluded from being a contributor

Item 11-3, Blood indicated on handcuffs

- Single source male DNA profile, as previously reported
- Does not match Rayann Francine Hayes

Item 14A, Left hand of Jamar Oneal Clark

- Mixture of three or more individuals, as previously reported
- Rayann Francine Hayes is excluded from being a contributor

Item 14B, Right hand of Jamar Oneal Clark

- Mixture of two or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Rayann Francine Hayes cannot be excluded from being a possible contributor to minor types
- Five of the 12 loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 96.2% of the general population can be excluded from being contributors

Item 5A-1, Grips of Smith & Wesson

Mixture of five or more individuals, as previously reported

• Rayann Francine Hayes is excluded from being a contributor

Item 5A-2, Trigger of Smith & Wesson

- Mixture of two or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Due to insufficient genetic information, no statement can be made on the minor types

Item 5A-3, Magazine, slide and safety releases of Smith & Wesson

- Mixture of three or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Due to insufficient genetic information, no statement can be made on the minor types

Item 5A-4, Sides of slide and back of Smith & Wesson

- Mixture of three or more individuals, as previously reported
- Rayann Francine Hayes is excluded from being a contributor

Item 5A-5, Muzzle and lens of flashlight of Smith & Wesson

- Mixture of four or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Rayann Francine Hayes is excluded from being a contributor to minor types

Item 5B-1, Bottom of magazine from Smith & Wesson

- Mixture of three or more individuals, as previously reported
- Rayann Francine Hayes is excluded from being a contributor

Item 7A-1, Grips of SIG Sauer

- Mixture of four or more individuals, as previously reported
- Rayann Francine Hayes is excluded from being a contributor

Item 7A-2, Trigger of SIG Sauer

- Mixture of two or more individuals, as previously reported
- Rayann Francine Hayes is excluded from being a contributor

Item 7A-3, Back sides of slide of SIG Sauer

- Mixture of three or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Rayann Francine Hayes is excluded from being a contributor to minor types

Item 7A-4, Back top and hammer of SIG Sauer

- Mixture of three or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Rayann Francine Hayes is excluded from being a contributor to minor types

Item 7A-5, Magazine, slide and safety releases of SIG Sauer

• Single source male DNA profile, as previously reported

• Does not match Rayann Francine Hayes

Item 7A-6, Flashlight of SIG Sauer

- Mixture of two or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Rayann Francine Hayes is excluded from being a contributor to minor types

Item 7B-1, Bottom of magazine from SIG Sauer

- Mixture of two or more individuals, as previously reported
- Rayann Francine Hayes is excluded from being a contributor

Item 22A-2, Fingernail, right hand, Jamar Oneal Clark

- Mixture of three or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- The minor types in the DNA mixture are not suitable for comparisons because no loci meet the BCA criteria for conducting statistical calculations

Item 22B-2, Fingernail, right hand, Jamar Oneal Clark

- Mixture of three or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Rayann Francine Hayes cannot be excluded from being a possible contributor to minor types
- It is estimated that 99.97% of the general population can be excluded from being contributors

Item 24A-2, Fingernail, left hand, Jamar Oneal Clark

- Mixture of three or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Rayann Francine Hayes cannot be excluded from being a possible contributor to minor types
- Seven of the 15 loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 98.4% of the general population can be excluded from being contributors

Item 24B-2, Fingernail, left hand, Jamar Oneal Clark

- Mixture of three or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Rayann Francine Hayes cannot be excluded from being a possible contributor to minor types
- Four of the 10 loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 94.6% of the general population can be excluded from being contributors

Item 22C-2, Fingernail, right hand, Jamar Oneal Clark

Item 22E-2, Fingernail, right hand, Jamar Oneal Clark

Item 24E-2, Fingernail, left hand, Jamar Oneal Clark

- Mixture of two or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Due to insufficient genetic information, no statement can be made on the minor types

Item 22D-2, Fingernail, right hand, Jamar Oneal Clark

- Mixture of three or more individuals, as previously reported
- Major mixture of two or more individuals
- A mixture of DNA from Jamar Oneal Clark and Rayann Francine Hayes cannot be excluded as the source of the DNA in the major mixture
- It is estimated that 99.9992% of the general populations can be excluded from being contributors
- Due to insufficient genetic information, no statement can be made on the minor types

Item 24C-2, Fingernail, left hand, Jamar Oneal Clark

- Mixture of three or more individuals, as previously reported
- Major mixture of two or more individuals
- A mixture of DNA from Jamar Oneal Clark and Rayann Francine Hayes cannot be excluded as the source of the DNA in the major mixture
- It is estimated that 99.99995% of the general populations can be excluded from being contributors
- Due to insufficient genetic information, no statement can be made on the minor types

Item 24D-2, Fingernail, left hand, Jamar Oneal Clark

- Mixture of three or more individuals, as previously reported
- Rayann Francine Hayes cannot be excluded as from being a possible contributor
- It is estimated that 99.995% of the general populations can be excluded from being contributors

Item 11-4, Blood indicated on handcuffs

- Mixture of two or more individuals, as previously reported
- Major male DNA profile does not match Rayann Francine Hayes
- Due to insufficient genetic information, no statement can be made on the minor types

Item 12B-2, Blood indicated on black hooded sweatshirt, inside right pocket

- Mixture of three or more individuals, as previously reported
- Major mixture of two or more individuals
- A mixture of DNA from Jamar Oneal Clark and Rayann Francine Hayes cannot be excluded as the source of the DNA in the major mixture
- It is estimated that 99.99997% of the general populations can be excluded from being contributors
- Due to insufficient genetic information, no statement can be made on the minor types

Item 12C-2, Blood indicated on red t-shirt, front middle

- Mixture of two or more individuals, as previously reported
- A mixture of DNA from Jamar Oneal Clark and Rayann Francine Hayes cannot be excluded as the source of the DNA
- It is estimated that 99.999990% of the general population can be excluded from being contributors

Item 12C-3, Blood indicated on red t-shirt, front right shoulder

• Mixture of two or more individuals, as previously reported

- Major DNA profile, indicated as female, matches Rayann Francine Hayes
- Major DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Due to insufficient genetic information, no statement can be made on the minor types

Item 12E-2, Jeans, front left knee

- Single source DNA profile, indicated as female, as previously reported
- Matches Rayann Francine Hayes
- Would not be expected to occur more than once among unrelated individuals in the world population

Item 12E-3, Blood indicated on jeans, front right knee Item 12G1-2, Blood indicated on left shoe, top right side

- Single source DNA profile, indicated as female, as previously reported
- Matches Rayann Francine Hayes
- Would not be expected to occur more than once among unrelated individuals in the world population

Item 12E-4, Blood indicated on jeans, front right pocket Item 12E-5, Blood indicated on jeans, front left pocket

- Mixtures of three or more individuals, as previously reported
 - Major mixtures of two or more individuals
 - A mixture of DNA from Jamar Oneal Clark and Rayann Francine Hayes cannot be excluded as the source of the DNA in both major mixtures
 - It is estimated that 99.999995% of the general populations can be excluded from being contributors
 - Due to insufficient genetic information, no statement can be made on the minor types

Item 12G1-1, Blood indicated on left shoe, right side midsole

- Mixture of two or more individuals, as previously reported
- Major DNA profile, indicated as female, matches Rayann Francine Hayes
- The probability of selecting an unrelated individual at random from the general population having a DNA profile that would match this major DNA profile is approximately 1 in 1.9 billion
- Due to insufficient genetic information, no statement can be made on the minor types

Item 12G2-1, Blood indicated on right shoe, left side near laces

- Mixture of two or more individuals, as previously reported
- Major DNA profile, indicated as female, matches Rayann Francine Hayes
- Major DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Due to insufficient genetic information, no statement can be made on the minor types

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Ross Thomas
Forensic Scientist

*DNA loci tested using PCR-STR includes some or all of the following: D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, D2S1338, D19S433, vWA, TPOX, D18S51, D5S818, FGA, and Amelogenin.

Disposition of Evidence:

Please pick up your evidence.

The contents of Item 28 have been retained.





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S15-14003

Report No. 18

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Blood Stain Pattern Analysis

02/12/2016

Laboratory Number:

S15-14003

Requesting Agency: Agency Case Number: BCA St. Paul 2015648

Section Reporting: Case Type:

Officer Involved Shooting/with a Death

Blood Stain Pattern Analysis

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Rayann Francine Hayes; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	Description/Source
12	One brown paper bag containing evidence classified as	Jamar Oneal Clark
12C	clothing One brown paper bag containing evidence classified as t-	Red t-shirt - Jamar Oneal Clark
	shirt	Too t blint build onto
12E	One brown paper bag containing evidence classified as	Denim House jeans - Jamar Oneal Clark
	jeans	
12 G	One brown paper bag containing evidence classified as a	Red Jordan Flight shoes - Jamar Oneal Clark
	pair of shoes	
12G1	a left shoe	Red Jordan Flight shoes - Jamar Oneal Clark
12G2	a right shoe	Red Jordan Flight shoes - Jamar Oneal Clark

Results of Laboratory Examination:

The following is an amendment to the Conclusions, section 2 of report No. 16, dated 2/4/2016, based on additional information available in DNA report No. 17, dated 2/6/2016.

2. The t-shirt, jeans, and both shoes were in proximity to a spatter producing event or events which involved the blood of **Rayann Francine Hayes**. The source(s) of **Rayann Francine Hayes**' blood was located generally in front of and to the top of the shoes of Jamar Oneal Clark's clothing when this event(s) took place. Possible mechanisms producing the spatter include but are not limited to impact, expiration, cast-off and satellite stains form dripped, projected or splashed blood.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Jason A. Simser, Ph.D. Forensic Scientist 3

Disposition of Evidence: Please pick up your evidence.

Jason a Sim





Bureau of Criminal Apprehension Forensic Science Laboratory – St. Paul 1430 Maryland Avenue East St. Paul, MN 55106

TEL: (651) 793-2900 TTY: (651) 282-6555 FAX: (651) 793-2901

AN ASCLD/LAB-International ACCREDITED TESTING LABORATORY SINCE 2009

To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No.

. 19

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

02/26/2016

Laboratory Number:

S15-14003

Requesting Agency:
Agency Case Number:

BCA St. Paul 2015648

Section Reporting: Case Type:

Nuclear DNA
Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Rayann Francine Hayes; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	Description/Source
26	One brown paper bag containing evidence classified as	pants & fleece - Dustin Timothy Schwarze -
	clothing	item 89.1
26A	One brown paper bag containing evidence classified as	fleece jacket - Dustin Timothy Schwarze - item
	clothing	89.1
26B	One brown paper bag containing evidence classified as	pants - Dustin Timothy Schwarze - item 89.1
	clothing	
27	One brown paper bag containing evidence classified as	pants & shirt, Mark Douglas Ringgenberg - item
	clothing	89.2
27A	One brown paper bag containing evidence classified as	shirt, Mark Douglas Ringgenberg - item 89.2
	clothing	
27B	One brown paper bag containing evidence classified as	pants, Mark Douglas Ringgenberg - item 89.2
	clothing	

Results of Laboratory Examination:

This report contains an amendment for Report 12, dated 12/22/2016. The amendment is as follows: The <u>Description/Source</u> for Items 27, 27A, and 27B was incorrectly listed as from 'Riggenberg' and should have been 'Ringgenberg'.

The remainder of this report concerns examinations of additional evidence.

Presumptive testing indicated the presence of blood on eight areas of Item 27A, of which three samples were collected as Items 27A-1, 27A-2, and 27A-3; and on two areas of Item 27B, of which one sample was collected as Item 27B-1.

DNA analysis will be performed on selected items and Bloodstain Pattern Analysis will be performed on Items 27A and 27B. If you have not received a report within two weeks of the date on this report, or if these analyses are not needed, please contact the Biology Section of the BCA Laboratory.

Blood was not detected on Items 26A and 26B. Amylase, a constituent of saliva, was not detected on selected tested areas of Item 27B.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Jason A. Simser, Ph.D. Forensic Scientist 3

Disposition of Evidence:

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Evidence will be held in the lab pending analysis.

Portions of pertinent evidence items have been removed and are being stored at the BCA laboratory.





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To:

BCA St. Paul

1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No.

20

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA

03/01/2016

Laboratory Number:

S15-14003 Nuclear DNA Requesting Agency: **Agency Case Number:** BCA St. Paul 2015648

Section Reporting: Case Type:

Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Rayann Francine Hayes; Jamar Oneal Clark; Jeffrey Steven Sworski: Chad Michael Conner

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	Description/Source
15	One envelope containing evidence classified as a known DNA sample collection kit	Dustin Timothy Schwarze
16	One envelope containing evidence classified as a known DNA sample collection kit	Mark Douglas Ringgenberg
17	One plastic bag containing evidence classified as a known DNA sample collection kit	Jeffrey Steven Sworski, Agency Item #2015-648/12.1
18	One plastic bag containing evidence classified as a known DNA sample collection kit	Chad Michael Conner, Agency Item #2015-648/12.2
21	One manila envelope containing evidence classified as a bloodstain	blood prep Jamar Oneal Clark, Agency Item #3
27	One brown paper bag containing evidence classified as clothing	pants & shirt, Mark Douglas Ringgenberg - item 89.2
27A	One brown paper bag containing evidence classified as clothing	shirt, Mark Douglas Ringgenberg - item 89.2
27B	One brown paper bag containing evidence classified as clothing	pants, Mark Douglas Ringgenberg - item 89.2
28	One envelope containing evidence classified as a known DNA sample collection kit	Rayann Francine Hayes

Results of Laboratory Examination:

DNA profiling* was performed on blood previously indicated on samples (Items 27A-1, 27A-2, 27A-3 and 27B-1) previously collected from Items 27A and 27B. DNA profiling was also previously performed on Items 15, 16, 17, 18, 21 and 28. The DNA results are as follows:

Item 27A-1, Front right arm of shirt

- Mixture of two or more individuals
- Major male DNA profile matches Jamar Oneal Clark

- Does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael Conner or Rayann Francine Hayes
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Due to insufficient genetic information, no statement can be made on the minor types

Item 27A-2, Front right pocket of shirt

- Mixture of three or more individuals
- Major DNA profile, indicated as female, matches Rayann Francine Hayes, does not match
 Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael
 Conner or Jamar Oneal Clark
- Major DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski and Chad Michael Conner are excluded from being contributors to the minor types
- Jamar Oneal Clark cannot be excluded from being a possible contributor to minor types
- It is estimated that 99.98% of the general population can be excluded from being contributors

Item 27A-3, Back left side of shirt

- Mixture of two or more individuals
- Major male DNA profile matches Jamar Oneal Clark, does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael Conner or Rayann Francine Hayes
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Due to insufficient genetic information, no statement can be made on the minor types

Item 27B-1, Front right leg pocket of pants

- Single source male DNA profile
- Matches Jamar Oneal Clark
- Does not match Dustin Timothy Schwarze, Mark Douglas Ringgenberg, Jeffrey Steven Sworski, Chad Michael Conner or Rayann Francine Hayes
- Would not be expected to occur more than once among unrelated individuals in the world population

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Ross Thomas
Forensic Scientist

*DNA loci tested using PCR-STR includes some or all of the following: D8S1179, D21S11, D7S820, CSF1PO, D3S1358, TH01, D13S317, D16S539, D2S1338, D19S433, vWA, TPOX, D18S51, D5S818, FGA, and Amelogenin.

Disposition of Evidence:

Please pick up your evidence.





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To:

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1430 Maryland Avenue East

St. Paul, MN 55106

Lab No.

S15-14003

Report No. 21

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Blood Stain Pattern Analysis

03/03/2016

Laboratory Number:

S15-14003

Requesting Agency: Agency Case Number: BCA St. Paul 2015648

Section Reporting: Case Type:

Blood Stain Pattern Analysis
Officer Involved Shooting/with a Death

County:

Hennepin

Principals: Dustin Timothy Schwarze; Mark Douglas Ringgenberg; Rayann Francine Hayes; Jamar Oneal Clark; Jeffrey Steven Sworski; Chad Michael Conner

Description of Submitted Evidence:

<u>Item</u>	Type and Packaging	Description/Source
27	One brown paper bag containing evidence classified as	pants & shirt, Mark Douglas Ringgenberg - item
	clothing	89.2
27A	One brown paper bag containing evidence classified as clothing	shirt, Mark Douglas Ringgenberg - item 89.2
27B	One brown paper bag containing evidence classified as clothing	pants, Mark Douglas Ringgenberg - item 89.2

DNA Report No. 20, dated 03/01/2016 was relied upon for conclusions in this report.

Results of Laboratory Examination:

The following observations and conclusions are based upon the information provided to date. If more information becomes available, I reserve the right to amend this report. Reported **bloodstains** were either presumptively tested for the presence of blood (Report No. 19, dated 02/26/2016) or were visually consistent with blood. Orientations such as 'left' or 'right' for clothing descriptions are in reference to the clothes being worn.

Observations:

Item 27A – Shirt

- The majority of bloodstains on the shirt were **transfer stains**. These were located on the front right chest pocket and armpit, front upper right arm, back lower left, and back lower left arm.
 - o One of the transfer stains on the upper right arm was mixed with apparent tissue.
- One indeterminate type bloodstain, where a specific **bloodstain pattern** analysis classification could not be determined, was located on the outside of the front right chest pocket flap.

Item 27B - Pants

• Transfer stains mixed with apparent tissue were the only bloodstains observed on the pants. Three areas in total were located on the outside of the right leg thigh pocket flap.

Conclusions:

1. The presence of transfer stains on the shirt and pants is consistent with object(s) containing the blood of Jamar Oneal Clark and Rayann Francine Hayes coming in contact with these items.

SWGSTAIN Terminology:

Bloodstain: A deposit of blood on a surface.

Bloodstain pattern: A grouping or distribution of bloodstains that indicates through regular or repetitive form, order, or arrangement the manner in which the pattern was deposited.

Transfer Stain: A bloodstain resulting from contact between a blood-bearing surface and another surface.

I hereby certify that the above report is true and accurate and represents my opinions and interpretations.

Jason A. Simser, Ph.D. Forensic Scientist 3

Disposition of Evidence: Please pick up your evidence.

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