



MINNESOTA DEPARTMENT OF PUBLIC SAFETY
 Bureau of Criminal Apprehension
 Forensic Science Laboratory - St. Paul
 1430 Maryland Avenue East
 St. Paul, MN 55106

Laboratory Number
 S16-03518

Agency Case Number
 2016-213

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

COUNTY: Hennepin
 TELEPHONE: 651-793-1100

Attn: SA Mike Phill

TYPE OF CASE:
 Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 1

Section Involved Estimated Due Date
 Crime Scene Team 5/4/2016

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

Cooksley, Loren, Anderson

PRINCIPALS:

	<u>Date Of Birth</u>	<u>Sex</u>	<u>Type</u>	<u>Race</u>	<u>Comments</u>
Heraldes, Raul Salvador Marquez	9/13/1965	M	D		
Coleman, Alan		M	V		
Malmberg, Eric		M	P		
Robins, David		M	P		
Stewart,			P		
Oachs,			P		

ITEM DESCRIPTION OF EVIDENCE:

<u>Item #</u>	<u>In Container</u>	<u>Packaging and Type</u>	<u>Source / Description</u>
1		One manila envelope containing evidence classified as a bloodstain	from steps of stoop
2		One cardboard box containing evidence classified as an item of evidence	knife sheath
3		One manila envelope containing evidence classified as cartridge case(s)	"Federal 45 Auto +P" from hallway
4		One manila envelope containing evidence classified as cartridge case(s)	"Federal 45 AUTO +P" from hallway
5		One manila envelope containing evidence classified as cartridge case(s)	"FC 9MM +P" from kitchen
6		One manila envelope containing evidence classified as cartridge case(s)	"Federal 45 AUTO +P" from bathroom
7		One manila envelope containing evidence classified as cartridge case(s)	"FC 9MM +P" from bathroom
8		One manila envelope containing evidence classified as cartridge case(s)	"Federal 45 AUTO +P" from bathroom

9	One manila envelope containing evidence classified as cartridge case(s)	"FC 9MM +P" from bathroom
10	One manila envelope containing evidence classified as bullet fragment(s)	from bathroom
29	One manila envelope containing evidence classified as a bloodstain	from bathroom
30	One manila envelope containing evidence classified as a bloodstain	from bathroom
31	One manila envelope containing evidence classified as a bloodstain	from bathroom
32	One manila envelope containing evidence classified as a bloodstain	from bathroom
33	One manila envelope containing evidence classified as a bloodstain	from bathroom
34	One manila envelope containing evidence classified as a bloodstain	from bathroom
35	One manila envelope containing evidence classified as a bloodstain	from bathroom
36	One manila envelope containing evidence classified as a bloodstain	from bathroom
37	One manila envelope containing evidence classified as a bloodstain	from bathroom
38	One manila envelope containing evidence classified as a bloodstain	from bathroom
39	One manila envelope containing evidence classified as bullet(s)	from bin in bedroom
40	One manila envelope containing evidence classified as bullet(s)	from bedroom floor

Submitted By

Received By



04/04/2016 15:18:00

Crime Scene Collection

Joe Cooksley

Submission Date and Time



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LABORATORY ANALYSIS REQUEST

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

COUNTY: Hennepin
 TELEPHONE: 651-793-1100
 TYPE OF CASE:

Attn: SA Mike Phill

Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 1

Section Involved	Estimated Due Date
Crime Scene Team	5/4/2016
Firearms	5/4/2016
Nuclear DNA	5/4/2016

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

PRINCIPALS:

	<u>Date Of Birth</u>	<u>Sex</u>	<u>Type</u>	<u>Race</u>	<u>Comments</u>
Heraldes, Raul Salvador Marquez	9/13/1965	M	D		[REDACTED]
Coleman, Alan		M	V		
Malmberg, Eric [REDACTED]	[REDACTED]	M	P		
Robins, David [REDACTED]	[REDACTED]	M	P		
Stewart,			P		
Oachs,			P		
Marquez-Heraldes, Raul Salvador	9/13/1965		X		Alias for Raul Salvador Marquez Heraldes

ITEM DESCRIPTION OF EVIDENCE:

<u>Item #</u>	<u>In Container</u>	<u>Packaging and Type</u>	<u>Source / Description</u>
23		One paper bag containing evidence classified as clothing	uniform and duty belt from Malmberg
24		One cardboard box containing evidence classified as a gun	sig sauer .45 Auto #58A051928
25		One paper bag containing evidence classified as clothing	with bls from Coleman
26		One cardboard box containing evidence classified as a knife	from HCMC
27		One paper bag containing evidence classified as clothing	uniform shirt and handcuffs from Stewart
28		One paper bag containing evidence classified as clothing	uniform shirt from Oachs

Submitted By

Received By

Joe Cooksley

04/04/2016 12:10:00

SA Mike Phill

Joe Cooksley

Submission Date and Time



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LABORATORY ANALYSIS REQUEST

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

COUNTY: Hennepin
TELEPHONE: 651-793-1100

Attn: SA Mike Phill

TYPE OF CASE:
Officer Involved Shooting with a Death

Report Distribution: BCA St. Paul - 1

Table with 2 columns: Section Involved, Estimated Due Date. Rows: Firearms (9/9/2016), Nuclear DNA (9/9/2016)

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

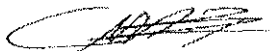
PRINCIPALS:

Table with 6 columns: Name, Date Of Birth, Sex, Type, Race, Comments. Lists individuals like Raul Salvador Marquez, Alan Coleman, Eric Malmberg, David Robins, Stewart Oachs, and Raul Salvador Marquez-Heraldes.

ITEM DESCRIPTION OF EVIDENCE:

Table with 4 columns: Item #, In Container, Packaging and Type, Source / Description. Lists items 45 and 46.

Submitted By



SA Mike Phill

Received By



Carolle David

05/12/2016 14:00:01

Submission Date and Time



MINNESOTA DEPARTMENT OF PUBLIC SAFETY

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LABORATORY ANALYSIS REQUEST

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

COUNTY: Hennepin
TELEPHONE: 651-793-1100

Attn: SA Mike Phill

TYPE OF CASE:
Officer Involved Shooting/with a Death

Report Distribution: BCA St. Paul - 1

Section Involved Estimated Due Date
Nuclear DNA 9/9/2016

CIRCUMSTANCES AND PURPOSE OF ANALYSIS:

For comparison
Items were originally entered under BCA Lab #S16-05183 as items 1-5 in error.

PRINCIPALS:

Table with columns: Name, Date Of Birth, Sex, Type, Race, Comments. Rows include: Heraldes, Raul Salvador Marquez; Coleman, Alan; Malmberg, Eric; Robins, David; Stewart; Oachs; Marquez-Heraldes, Raul Salvador.

ITEM DESCRIPTION OF EVIDENCE:

Table with columns: Item #, In Container, Packaging and Type, Source / Description. Rows describe items 47 through 51, including manila envelopes, paper bags, and a body bag.

Submitted By

Received By



Lloyd Kwiecien

Jeff Tegdesch

05/12/2016 14:35:28

Submission Date and Time



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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. S16-03518
Report No. 1

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Latent Prints 04/06/2016

Laboratory Number: S16-03518 Requesting Agency: BCA St. Paul
Section Reporting: Latent Prints Agency Case Number: 2016-213
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Raul Salvador Marquez Heraldes; Alan Coleman; Eric [redacted] Malmberg; David [redacted] Robins; Stewart; Oachs

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Row 41: One manila envelope containing evidence classified as questioned inked print(s). Row 42: One manila envelope containing evidence classified as a disc with images.

Results of Laboratory Examination:

Table with 2 columns: Name (DOB), Source of Exemplar. Row: Raul Salvador Marquez Heraldes (9-13-65) AKA Raul Salvador Marquez-Heraldes, BCA Files SID#[redacted]

A request was received from the Hennepin County Medical Examiner’s Office to compare fingerprints obtained from a deceased individual, tentatively identified as Raul Salvador Marquez Heraldes, to known prints (from BCA files) said to be from Raul Salvador Marquez-Heraldes.

Item 41:

- Major Case Prints – right thumb from deceased tentatively identified as Raul Salvador Marquez Heraldes

Questioned Inked Print(s)

- Item 41, right thumb: identified to the known right thumb from Raul Salvador Marquez-Heraldes

Item 42 was created with images of prints from Item 41.

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 41 will be held until exams have been completed. Item 42 will be retained at the BCA Laboratory.

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

Lab No. S16-03518
Report No. 2

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Toxicology 04/14/2016

Laboratory Number: S16-03518
Section Reporting: Toxicology
Case Type: Officer Involved Shooting/with a Death
Principal: David [redacted] Robins

Requesting Agency: BCA St. Paul
Agency Case Number: 2016213
County: Hennepin
Date of Birth: [redacted]

Description of Submitted Evidence:

Table with 5 columns: Item, Type and Packaging, Kit Number, Description/Source, Date/Time Collected. Row 1: 13, Sealed BCA DWI blood collection kit, B383596, David [redacted] Robins, 04/04/2016 09:10

Results of Laboratory Examination:

Analysis failed to reveal the presence of ethyl alcohol.

Pursuant to Minn. Statute 634.15, I have analyzed at the Minnesota Bureau of Criminal Apprehension Forensic Science Laboratory, using an approved gas chromatographic procedure, this sealed sample of blood identified to me as having been obtained from the above individual. I hereby certify that I am trained in the analysis and interpretation of blood and urine tests for alcohol pursuant to Minn. Rule 7502.0600 and that the above is true and accurate.

Handwritten signature of Vanessa Perez

Vanessa Perez
Forensic Scientist

Disposition: Additional toxicology report(s) to follow.

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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. S16-03518
 Report No. 3

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Toxicology 04/21/2016

Requesting Agency: BCA St. Paul
 Case Type: Officer Involved Shooting/with a Death
 Principal: David [redacted] Robins

Agency Case Number: 2016213
 County: Hennepin
 Date of Birth: [redacted]
 Section Reporting: Toxicology

Description of Submitted Evidence

Item	Type and Packaging	Kit Number	Description	Date/Time Collected
13	Sealed BCA DWI blood collection kit	B383596	David [redacted] Robins	04/04/2016 09:10

Results of Laboratory Examination

The following are presumptive screening results obtained by immunoassay:

Type of Drug:

cannabinoids	Not Detected
cocaine metabolite	Not Detected
opiates	Not Detected
amphetamines	Not Detected
phencyclidine (PCP)	Not Detected
barbiturates	Not Detected
benzodiazepines	Not Detected
methadone	Not Detected
carisoprodol	Not Detected
zolpidem	Not Detected

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


 Edward Gorr
 Forensic Scientist

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Toxicology 04/21/2016

MINNESOTA DEPARTMENT OF PUBLIC SAFETY
Bureau of Criminal Apprehension - Forensic Science Laboratory

Lab No. S16-03518
Report No. 3

The associated expanded uncertainty is expressed to a 95.45% level of confidence.

For drug scheduling information, visit <https://dps.mn.gov/divisions/bca/bca-divisions/forensic-science/Pages/toxicology-alcohol.aspx>

Disposition: This evidence is being returned to your agency by delivery service.

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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. S16-03518
Report No. 4

Attention: SA Mike Phill

RESULTS OF FIELD EXAMINATIONS

Crime Scene Team 04/25/2016

Laboratory Number: S16-03518 Requesting Agency: BCA St. Paul
Section Reporting: Crime Scene Team Agency Case Number: 2016213
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Raul Salvador Marquez Heraldes; Alan Coleman; Eric [redacted] Malmberg; David [redacted] Robins; Stewart; Oachs

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Contains 17 rows of evidence details.

18	One paper bag containing evidence classified as a left shoe	boot from Robins
19	One manila envelope containing evidence classified as an item of evidence	voice link #202750
20	One paper bag containing evidence classified as an item of evidence	Right glove from Robins
21	One paper bag containing evidence classified as an item of evidence	Left glove from Robins
22	One paper bag containing evidence classified as hat	from Robins
23	One paper bag containing evidence classified as clothing	uniform and duty belt from Malmberg
24	One cardboard box containing evidence classified as a gun	sig sauer .45 Auto #58A051928
25	One paper bag containing evidence classified as clothing	with bls from Coleman
26	One cardboard box containing evidence classified as a knife	from HCMC
27	One paper bag containing evidence classified as clothing	uniform shirt and handcuffs from Stewart
28	One paper bag containing evidence classified as clothing	uniform shirt from Oachs
29	One manila envelope containing evidence classified as a bloodstain	from bathroom
30	One manila envelope containing evidence classified as a bloodstain	from bathroom
31	One manila envelope containing evidence classified as a bloodstain	from bathroom
32	One manila envelope containing evidence classified as a bloodstain	from bathroom
33	One manila envelope containing evidence classified as a bloodstain	from bathroom
34	One manila envelope containing evidence classified as a bloodstain	from bathroom
35	One manila envelope containing evidence classified as a bloodstain	from bathroom
36	One manila envelope containing evidence classified as a bloodstain	from bathroom
37	One manila envelope containing evidence classified as a bloodstain	from bathroom
38	One manila envelope containing evidence classified as a bloodstain	from bathroom
39	One manila envelope containing evidence classified as bullet(s)	from bin in bedroom
40	One manila envelope containing evidence classified as bullet(s)	from bedroom floor
41	One manila envelope containing evidence classified as questioned inked print(s)	Raul Salvador Marquez Heraldes

Results of Crime Scene Examination:

Date of Request: 4/4/2016	Team Members:
Request by: SSA Gary Swanson	Team Leader: FS Joe Cooksley Team Leader in Training: FS Melissa Loren Team Member: FS McKenzie Anderson Photographer/Videographer: SA Cody Horner
BCA Investigative Case: 2016213	
BCA Case Agent: SA Mike Phill	
Agency: Minneapolis Police Department	
Agency Case: 16116598	
Briefed by: SSA Gary Swanson, SA Doug Henning	

Circumstances: The BCA Crime Scene Team was requested to assist with the investigation into an officer involved shooting incident that resulted in the death of Raul Salvador Marquez Heraldes. The incident also involved the reported stabbing of Alan Coleman by Raul Salvador Marquez Heraldes.

Address of Scene: 2120 Minnehaha Ave. Apt. # 2, Minneapolis, MN	Date/Time Processed: From 07:50 to 15:30 hours on 4/4/2016
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Unless otherwise noted, all references to *blood* in this report indicate that a positive presumptive test result was obtained.

Location: Exterior of 2120 Minnehaha Ave. and first floor hallway	
Items	Collected By
1 & 2	FS Melissa Loren
3 & 4	FS Joe Cooksley

Observations/Conclusions:

Apparent blood was observed on Minnehaha Avenue in front of and north of the apartment building and on the walkway leading from the apartment building to Minnehaha Avenue. Apparent blood was also observed on the front steps, in the entry, and down the first floor hallway of the apartment building to the area outside of apartment #2. A sample of blood was collected from one of the front steps as **Item 1**. A black “Winchester” knife sheath (**Item 2**) and two cartridge cases (**Items 3 and 4**) were observed in the hallway outside of apartment #2. The Item 3 cartridge case was located west of the door to apartment #2 near the knife sheath and the Item 4 cartridge case was located east of the door. Both cartridge cases had “Federal 45 Auto +P” head stamps. Garbage, some of it appearing to be medical response debris, and wood fragments were also observed in the hallway outside of apartment #2.

Location: Apartment #2	
Items	Collected By
5 – 9, 39, 40	FS Joe Cooksley
10	FS Melissa Loren
29 - 38	FS McKenzie Anderson

Observations/Conclusions:

The interior of apartment #2 consisted of an entry, bathroom (entered from the entry), utility closet, kitchen, living room, and bedroom with closet.

Damage was observed to the hinge and latch sides of the door to apartment #2. A part of the deadbolt and the deadbolt guide plate from the door were observed on the entry floor along with wood fragments. A concentrated area of apparent blood was observed on the entry floor near and on the wooden door threshold. More diffuse apparent blood was observed on the entry floor in front of the bathroom door. A cartridge case (**Item 5**) with apparent blood on it and a “FC 9MM +P” head stamp was observed on the kitchen floor near the refrigerator.

In the bathroom, the toilet was off of its housing jammed against a blue trash basket. Water covered the majority of the bathroom floor. Apparent blood was observed on the floor, walls, door, toilet, sink, trashcan,

tub, tub walls, and shower curtain. Possible shoeprints in apparent blood were observed on the bathroom floor and tub floor. A multi-colored towel soaked in water with some apparent blood on it was observed on the floor at the entrance to the bathroom against the bathroom door, which was opened into the bathroom resting against the south wall. Pieces of a broken watch were observed inside the tub, on the floor outside of the tub, and in the kitchen entry. Another part of the deadbolt from the front door to the apartment was observed on the bathroom floor and a stack of paper towels and soap dish were observed on the floor of the tub. Four cartridge cases were observed on the bathroom floor. The item number, location, and head stamp information are as follows:

- **Item 6**, on the towel near the door, “Federal 45 Auto +P”
- **Item 7**, northwest corner near a set of wicker shelves next to the sink, “FC 9MM +P”
- **Item 8**, northeast corner near the tub, “Federal 45 Auto +P”
- **Item 9**, underneath the towel near the door, “FC 9MM +P”

An apparent bullet fragment (**Item 10**) was observed on the floor in the center of the bathroom. Bloodstains were collected from several areas within the bathroom. The item number and location information are as follows:

- **Item 29**, exterior face of the bathroom door
- **Item 30**, tile of north wall west of the sink
- **Item 31**, sink
- **Item 32**, tile of north wall near the tub
- **Item 33**, exterior face of the tub
- **Item 34**, south tub wall
- **Item 35**, tile of south wall
- **Item 36**, east tub wall
- **Item 37**, tub floor
- **Item 38**, tile of south wall behind a brown towel on the towel rack

Limited Bloodstain Analysis

The Item 34 bloodstain was determined to be a **spatter stain** with upward and to the west **directionality**. The directionality and location of this stain indicate that it was associated with a spatter producing event in the tub. The Item 29 bloodstain was determined to be a spatter stain with downward and to the west directionality, and was within a group of apparent bloodstains with similar characteristics. Based on the mobile nature of the door and the lack of any staining on the outside wall of the bathroom, this stain can only be associated to a spatter producing event within the bathroom. Bloodstain type or pattern evaluation was not performed on any other bloodstain or bloodstain areas at this time. Additional bloodstain pattern analysis may be performed at a later date, but may be highly limited due to the medical response, flooding of the bathroom floor, and mobile nature of several items within the bathroom.

Impact and Trajectory Analysis

Holes were observed on the north and east tub walls approximately three feet above the floor. Examination and testing of the areas around these holes indicated the presence of lead, which is consistent with the passage of bullets. The characteristics of both holes indicated them to be entrance holes.

Additional holes were observed on the south utility closet wall, east utility closet wall, and west bedroom wall that were linked through trajectory analysis to the entrance hole on the north tub wall. A bullet (**Item 40**) was observed on the floor of the bedroom just below the hole on the west wall behind various assorted items. The trajectory of the bullet associated with these holes projected back southwest toward the area of the bathroom door at a slight upward angle indicating that the bullet was traveling northeast toward the tub at a downward angle when it impacted the north tub wall.

Additional holes were observed on the west and north walls on the inside of the bedroom closet, exterior north wall of the bedroom closet, and in two plastic bins against the north wall of the bedroom that were linked through trajectory analysis to the entrance hole on the east tub wall. Examination and testing of the areas around a hole in each plastic bin indicated the presence of lead, which is consistent with the passage of a bullet. A bullet (**Item 39**) was observed within the east plastic bin. The trajectory of the bullet associated with these holes projected back southwest toward the area of the bathroom door at a slight upward angle indicating that the bullet was traveling northeast toward the tub at a downward angle when it impacted the east tub wall.

It was observed that the east window of the bedroom was open.

No other areas of forensic significance were observed in the apartment.

SWGSTAIN Terminology

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

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.

Additional Items Submitted to the Crime Scene Team	
Items	Submitted By
11 - 22	SA Chris Olson
23 - 28	SA Mike Phill

Additional Items Collected at the Hennepin County Medical Examiner's Office	
Item	Collected By
41	FS Jason Simser, FS Adam Bazama

This scene was photographed, diagrammed, and videoed. The Crime Scene Team Leader, listed as the author of this field report, will act as the point of contact for all laboratory matters regarding this crime scene response.

The following items will be submitted to the Laboratory Sections listed below for possible analysis:

Nuclear DNA Section: 2, 10 - 12, 14, 16 - 18, 20, 21, 23 - 29, 34, 39, 40

Latent Print Section: 41

Firearms Section: 3 – 10, 14, 24, 39, 40

Toxicology Section: 13

Not Analyzed: 1, 15, 19, 22, 30 – 33, 35 - 38

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



Joe Cooksley
Forensic Scientist

Disposition of Evidence:

Evidence will be held in the lab pending analysis.

Distribution: BCA St. Paul - 1



MINNESOTA DEPARTMENT OF PUBLIC SAFETY

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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. S16-03518
Report No. 5

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA 05/10/2016

Laboratory Number: S16-03518 Requesting Agency: BCA St. Paul
Section Reporting: Nuclear DNA Agency Case Number: 2016213
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Raul Salvador Marquez Heraldes; Alan Coleman; Eric Malmberg; David Robins; Stewart; Oachs

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Contains 17 rows of evidence items including cardboard boxes, manila envelopes, paper bags, and clothing items.

23H	a right shoe	from Malmberg
23I	a left shoe	from Malmberg
24	One cardboard box containing evidence classified as a gun	sig sauer .45 Auto #58A051928
24A	a gun	sig sauer .45 Auto #58A051928
24B	a magazine	and one loose round
25	One paper bag containing evidence classified as clothing	with bls from Coleman
25A	clothing	sweatshirt from Coleman
25B	clothing	jacket from Coleman
25C	clothing	left half of jean jacket from Coleman
25D	clothing	right half of jean jacket from Coleman
25E	One paper bag containing evidence classified as an item of evidence	contents of pockets from jean jacket
25F	One paper bag containing evidence classified as pants	from Coleman
25F1	pants	jeans with belt
25F2	socks	one sock
25F3	socks	one sock
25G	One paper bag containing evidence classified as an item of evidence	loose items at bottom of Item 25 packaging
26	One cardboard box containing evidence classified as a knife	from HCMC
27	One paper bag containing evidence classified as clothing	uniform shirt and handcuffs from Stewart
27A	clothing	uniform shirt from Stewart
27B	One plastic bag containing evidence classified as an item of evidence	handcuffs from Stewart
28	One paper bag containing evidence classified as clothing	uniform shirt from Oachs
28A	clothing	uniform shirt from Oachs
28B	an item of evidence	left glove from Oachs
28C	an item of evidence	right glove from Oachs
29	One manila envelope containing evidence classified as a bloodstain	from bathroom
34	One manila envelope containing evidence classified as a bloodstain	from bathroom
39	One manila envelope containing evidence classified as bullet(s)	from bin in bedroom
40	One manila envelope containing evidence classified as bullet(s)	from bedroom floor

Results of Laboratory Examination:

Presumptive testing indicated the presence of blood on the following:

Item 34, which was collected.

Two areas of Item 12A, which were collected as 12A-1 and 12A-2.

Two areas of Item 26, which were collected as 26-1 (blade) and 26-2 (handle).

One area on each of Items 17, 20, 21, 23A, 23C, 23D, 23E, 24A, 25A, 25B, 25C, 25F1, 25F2, 27A, 27B, 28A, 28B, 28C which were collected as Items 17-1, 20-1, 21-1, 23A-1, 23C-1, 23D-1, 23E-1, 24A-1, 25A-1, 25B-1, 25C-1, 25F1-1, 25F2-1, 27A-1, 27B-1, 28A-1, 28B-1, and 28C-1, respectively.

One additional sample was collected from Item 24A as Item 24A-2 (grips).

One sample was collected from each of Items 2, 10, 39 and 40 as Items 2-1, 10-1, 39-1, and 40-1, respectively.

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.

Blood was not detected on Items 2, 10, 11, 14, 18, 16A, 39, and 40.

Items 12B, 16B, 23B, 23F, 23G, 23H, 23I, 24B, 25D, 25E, 25F3, 25G, and 29 were not examined.

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



Ellen Jesmok
Forensic Scientist

Disposition of Evidence:

Lab will hold all evidence until exams completed.

Portions of pertinent evidence items have been removed and are being stored at the BCA laboratory.
The contents of Item 34 have been retained in their entirety and are being stored at the BCA laboratory.

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MINNESOTA DEPARTMENT OF PUBLIC SAFETY

Bureau of Criminal Apprehension
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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. S16-03518
Report No. 6

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Firearms 05/19/2016

Laboratory Number: S16-03518 Requesting Agency: BCA St. Paul
Section Reporting: Firearms Agency Case Number: 2016213
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Raul Salvador Marquez Heraldes; Alan Coleman; Eric [redacted] Malmberg; David [redacted] Robins; Stewart; Oachs

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, and Description/Source. Contains 15 rows of evidence details.

Results of Laboratory Examination:

Examinations and test firing of Item 14 (a Smith & Wesson Model M&P9 9mm Luger caliber pistol bearing serial number HSN4732) showed the firearm and the safety mechanisms to be functional. The trigger pull was measured and found to be from 6½ to 6¾ pounds.

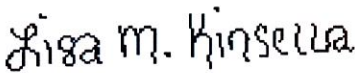
Item 14 fired Item 10 (a bullet fragment), Item 40 (a bullet) and Items 5, 7 and 9 (three 9mm Luger + P caliber cartridge cases).

Examinations and test firing of Item 24 (a SIG Sauer Model P320 45 Auto caliber pistol bearing serial number 58A051928) showed the firearm and the safety mechanisms to be functional. The trigger pull was measured and found to be from 6¾ to 7 pounds.

Item 24 fired Item 39 (a bullet) and Items 3, 4, 6 and 8 (four 45 Auto + P caliber cartridge cases).

No comparative exams were done with Item 15 (two magazines each containing seventeen 9mm Luger + P caliber cartridges).

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



Lisa Kinsella
Forensic Scientist

Disposition of Evidence:

Lab will hold all evidence until exams completed.

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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. S16-03518
Report No. 7

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA 06/17/2016

Laboratory Number: S16-03518
Section Reporting: Nuclear DNA
Case Type: Officer Involved Shooting/with a Death
Requesting Agency: BCA St. Paul
Agency Case Number: 2016213
County: Hennepin

Principals: Raul Salvador Marquez Heraldes; Alan Robert Coleman; Eric Malmberg; David Robins; Stewart; Oachs; Raul Salvador Marquez-Heraldes

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, and Description/Source. Contains 18 rows of evidence details.

		Heraldes- PI 013229, lines 1-7 & 9-14
50A	One manila envelope containing evidence classified as a known blood sample	
50B	One manila envelope containing evidence classified as hairs from Item	pulled chest hairs (no hair on head)
50C	One manila envelope containing evidence classified as fingernail clippings	Right hand
50D	One manila envelope containing evidence classified as fingernail clippings	Left hand
50E	One manila envelope containing evidence classified as foreign matter	cut seal from clothes drying rack
50F	One brown paper bag containing evidence classified as underwear	
50G	One brown paper bag containing evidence classified as socks	
50H	One brown paper bag containing evidence classified as t-shirt	
50I	One brown paper bag containing evidence classified as jeans	and belt
50J	One brown paper bag containing evidence classified as an item of evidence	trauma sheet
50K	One brown paper bag containing evidence classified as an item of evidence	right paper hand bag
50L	One brown paper bag containing evidence classified as an item of evidence	left paper hand bag
51	One brown paper bag containing evidence classified as an item of evidence	body bag that contained the body of Raul Salvador Marquez-Heraldes - PI 013229, line 8

Results of Laboratory Examination:

DNA profiling* was performed on DNA obtained from a sample (Item 2-1) collected from Item 2 and on blood previously indicated on samples (Items 12A-1, 23A-1, 24A-1, 26-1, 26-2, 27A-1, and 28A-1) collected from Items 12A, 23A, 24A, 26, 27A, and 28A. DNA profiling was also performed on the known samples from Alan Coleman (Item 45) and Raul Salvador Marquez-Heraldes (Item 50A). The DNA results are as follows:

Item 2-1 (Knife sheath)
<ul style="list-style-type: none"> • Due to the complexity of this mixture, this DNA profile is not suitable for comparison

Item 12A-1 (BLS- Robins sleeve) and Item 28A-1 (BLS- Oachs shirt)
<ul style="list-style-type: none"> • Mixture of three or more individuals • Major male DNA profile matches Raul Salvador Marquez-Heraldes, does not match Alan Coleman • 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 regarding the minor DNA types obtained

Item 27A-1 (BLS- Stewart shirt)
<ul style="list-style-type: none"> • Mixture of two or more individuals • Major male DNA profile matches Raul Salvador Marquez-Heraldes, does not match Alan Coleman • 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 regarding the minor DNA types obtained

Item 23A-1 (BLS- Malmberg vest) and Item 24A-1 (BLS- Sig Sauer slide)

- Single source male DNA profile
- Matches Raul Salvador Marquez-Heraldes
- Does not match Alan Coleman
- Would not be expected to occur more than once among unrelated individuals in the world population

Item 26-1 (BLS- blade of knife)

- Single source male DNA profile
- Matches Alan Coleman
- Does not match Raul Salvador Marquez-Heraldes
- Would not be expected to occur more than once among unrelated individuals in the world population

Item 26-2 (BLS- handle of knife)

- Mixture of three or more individuals
- Major male DNA profile matches Alan Coleman, does not match Raul Salvador Marquez-Heraldes
- Major male DNA profile would not be expected to occur more than once among unrelated individuals in the world population
- Raul Salvador Marquez-Heraldes cannot be excluded from being a possible contributor to minor DNA types
- Three of the 12 loci suitable for comparisons meet the BCA criteria for conducting statistical calculations; it is estimated that 74.8% of the general population can be excluded from being contributors

Items 39-1 and 40-1 (Swabs from bullets)

- Insufficient DNA was obtained to perform DNA profiling

One sample was collected from Item 46 as Item 46-1. DNA testing will be performed on Item 46-1. Please contact the Biology Section of the BCA Laboratory if DNA testing is not needed.

Items 47, 48, 49, 50B through 50L, and Item 51 were not examined.

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



McKenzie Anderson

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. The contents of Items 45 and 50A have been retained.

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

Lab No. S16-03518
Report No. 8

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Firearms 06/28/2016

Laboratory Number: S16-03518 Requesting Agency: BCA St. Paul
Section Reporting: Firearms Agency Case Number: 2016213
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Raul Salvador Marquez Heraldes; Alan Robert Coleman; Eric Malmberg; David Robins; Stewart; Oachs; Raul Salvador Marquez-Heraldes

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Contains 7 rows of evidence details.

Results of Laboratory Examination:

Item 14 (a Smith & Wesson Model M&P9 9mm Luger caliber pistol bearing serial number HSN4732) fired Items 46 and 47C (two bullets).

Item 24 (a SIG Sauer Model P320 45 Auto caliber pistol bearing serial number 58A051928) fired Items 47A, 47B and 47D (three bullets).

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

Lisa M. Kinsella

Lisa Kinsella
Forensic Scientist

Disposition of Evidence:

Lab will hold all evidence until exams completed.

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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. S16-03518
Report No. 9

Attention: SA Mike Phill

REPORT ON THE EXAMINATION OF PHYSICAL EVIDENCE

Nuclear DNA 06/28/2016

Laboratory Number: S16-03518 Requesting Agency: BCA St. Paul
Section Reporting: Nuclear DNA Agency Case Number: 2016213
Case Type: Officer Involved Shooting/with a Death County: Hennepin

Principals: Raul Salvador Marquez Heraldes; Alan Robert Coleman; Eric Malmberg; David Robins; Stewart; Oachs; Raul Salvador Marquez-Heraldes

Description of Submitted Evidence:

Table with 3 columns: Item, Type and Packaging, Description/Source. Contains 20 rows of evidence items including paper bags, cardboard boxes, and clothing items.

24A	a gun	sig sauer .45 Auto #58A051928
24B	a magazine	and one loose round
25	One paper bag containing evidence classified as clothing	with bls from Coleman
25A	clothing	sweatshirt from Coleman
25B	clothing	jacket from Coleman
25C	clothing	left half of jean jacket from Coleman
25D	clothing	right half of jean jacket from Coleman
25E	One paper bag containing evidence classified as an item of evidence	contents of pockets from jean jacket
25F	One paper bag containing evidence classified as pants	from Coleman
25F1	pants	jeans with belt
25F2	socks	one sock
25F3	socks	one sock
25G	One paper bag containing evidence classified as an item of evidence	loose Items at bottom of Item 25 packaging
26	One cardboard box containing evidence classified as a knife	from HCMC
27	One paper bag containing evidence classified as clothing	uniform shirt and handcuffs from Stewart
27A	clothing	uniform shirt from Stewart
27B	One plastic bag containing evidence classified as an item of evidence	handcuffs from Stewart
28	One paper bag containing evidence classified as clothing	uniform shirt from Oachs
28A	clothing	uniform shirt from Oachs
28B	an item of evidence	left glove from Oachs
28C	an item of evidence	right glove from Oachs
43	One manila envelope containing evidence classified as a disc with images	Images from biology section analysis on 4/13/16 (Items 12, 23, 25, and sub-Items)
44	One manila envelope containing evidence classified as a disc with images	Images from biology section analysis on 4/27/16 (Items 11, 14, 16, 17, 18, 20, 21, 24, 25, 26, 27, 28, and sub-Items)

Results of Laboratory Examination:

Multiple images of Items 12A, 12B, 23A, 23B, 23C, 23D, 23E, 23F, 23H, 23I, 25A, 25B, 25C, 25D, 25E, 25F1, 25F2, 25F3, and 25G were captured on April 13, 2016 and saved on a Disc as Item 43.

Multiple images of Items 11, 14, 16A, 16B, 17, 18, 20, 21, 24A, 24B, 26, 27A, 27B, 28A, 28B, and 28C were captured on April 27, 2016 and saved on a Disc as Item 44.

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



Ellen Jesmok
Forensic Scientist

Disposition of Evidence:
Please pick up your evidence.

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