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### SUPPLEMENTAL CERTIFICATE OF ANALYSIS

September 15, 2008

Tucson Police Department  
 Crime Laboratory  
 270 S. Stone Ave.  
 Tucson, AZ 85701  
 Attn.: Mr. Robert Blackett

Agency #: TPD# 9001-31-0233

FS Lab #: F06-6490

Victim(s): Khalifa, Rashad  
 Suspect(s): Wall (Phillips), Benjamin  
 Aka. Francis, Glen  
 Walker, Leland

Evidence Submitted<sup>1</sup>: via Federal Express  
 (# 856934189049)

Date Received: 6/27/08

One sealed envelope containing:

- Item 179-14 One sealed bag containing a tube with 6 hairs listed as from Leland Walker, 1 FBI-A.
- Item 179-15 One sealed bag containing two swabs listed from handle of xylene can, 16TM-A.
- Item 179-16 One sealed bag containing two swabs listed from victim's left nails, 107TM.
- Item 179-17 One sealed bag containing two swabs listed from victim's right nails, 107TM.
- Item 179-18 One sealed bag containing material listed as from towel, 9TM-1.
- Item 179-19 One sealed bag containing material listed as from towel, 9TM-3.
- Item 179-20 One sealed bag containing material listed as from victim's leather coat, 102TM-1.
- Item 179-21 One sealed bag containing material listed as from victim's leather coat, 102TM-2.
- Item 179-22 One sealed bag containing material listed as from victim's leather coat, 102TM-3.
- Item 179-23 One sealed bag containing material listed as from victim's shirt, 103TM-1.
- Item 179-24 One sealed bag containing material listed as from victim's shirt, 103TM-2.
- Item 179-25 One sealed bag containing material listed as from victim's shirt, 103TM-3.
- Item 179-26 One sealed bag containing material listed as from victim's pants, 104TM-1.
- Item 179-27 One sealed bag containing material listed as from victim's pants, 104TM-2.
- Item 179-28 One sealed bag containing material listed as from victim's pants, 104TM-3.
- Item 179-29 One sealed bag containing material listed as from victim's pants, 104TM-4.
- Item 179-30 One sealed bag containing material listed as from victim's pants, 104TM-5.

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Evidence Submitted<sup>1</sup>: via Federal Express  
 (# 862318363746)

Date Received: 8/27/08

Item 179-21 One sealed bag containing thirty tubes of DNA extract.  
 Only the DNA extract from the victim's leather coat listed as 102TM-2 was tested at this time.

Results and Opinions<sup>1</sup>:

Deoxyribonucleic acid (DNA) isolated from the evidence listed above was characterized through the polymerase chain reaction (PCR) at the following genetic systems using AmpFISTR<sup>®</sup> Profiler Plus<sup>™</sup>, COfiler<sup>™</sup> and/or Minifiler<sup>™</sup> kits:

## Alleles Detected

| Item               | Sample                              | D3<br>S1358 | vWA             | FGA             | D8<br>S1179 | D21<br>S11      | D18<br>S51      | D5<br>S818      | D13<br>S317    | D7<br>S820      | D16<br>S539    | TH01   | TPOX  | CSF    | D2<br>S1338 |
|--------------------|-------------------------------------|-------------|-----------------|-----------------|-------------|-----------------|-----------------|-----------------|----------------|-----------------|----------------|--------|-------|--------|-------------|
| 8                  | R. Khalifa<br>107TM-A <sup>XY</sup> | 16          | 15, 17          | 20, 21          | 13, 15      | 27, 30          | 13, 14          | 12, 13          | 9, 13          | 10, 12          | 9, 11          | 9      | 8, 11 | 10     |             |
| 214-1 <sup>2</sup> | Hairs B.W. <sup>XY</sup><br>K-3C    | 15, 16      | 15, 16          | 25, 28          | 13, 14      | 28              | 16, 19          | 13              | 13             | 9, 10           | 9, 11          | 7, 8   | 9, 11 | 8, 12  | 22          |
| 179-14             | Hairs L.W. <sup>XY</sup><br>1FBI-A  | 15, 16      | 14, 17          | 21, 22          | 9, 14*      | 29, 30          | 14, 18          | 12, 13          | 9, 13          | 11, 12          | 12, 14         | 9, 9.3 | 8, 10 | 8, 12  |             |
| 179-16             | 107TM <sup>XY</sup>                 | 16          | 15 <sup>a</sup> | NR              | 13, 15      | NR              | NR              | NR              | NR             | NR              | 9 <sup>a</sup> | NR     | NR    | NR     |             |
| 179-17             | 107TM <sup>XY</sup>                 | 16          | 15 <sup>a</sup> | NR              | 13, 15      | NR              | NR              | 13 <sup>a</sup> | NR             | NR              | NR             | NR     | NR    | NR     |             |
| 179-18             | 9TM-1 <sup>XY</sup>                 | 16          | 15, 17          | 20, 21          | 13, 15      | 27, 30          | 14 <sup>a</sup> | 12, 13          | 9, 13          | 10 <sup>a</sup> | 9, 11          | 9      | 8, 11 | 10     |             |
| 179-19             | 9TM-3 <sup>XY</sup>                 | 16          | 15, 17          | 20 <sup>a</sup> | 13, 15*     | NR              | NR              | 12, 13          | NR             | NR              | NR             | 9      | NR    | NR     |             |
| 179-20             | 102TM-1 <sup>XY</sup>               | 16          | 15, 17          | 20 <sup>a</sup> | 13, 15      | 27 <sup>a</sup> | NR              | 12, 13          | NR             | NR              | NR             | 9      | NR    | NR     |             |
| 179-22             | 102TM-3 <sup>XY</sup>               | 16          | 15, 17          | 20, 21          | 13, 15      | 27, 30          | NR              | 12, 13          | 9 <sup>a</sup> | NR              | 9, 11          | 9      | 8, 11 | NR     |             |
| 179-23             | 103TM-1 <sup>XY</sup>               | 16          | 15, 17          | 20, 21          | 13, 15      | 27, 30          | NR              | 12, 13          | 9 <sup>a</sup> | NR              | 9 <sup>a</sup> | 9      | 8, 11 | 10     |             |
| 179-24             | 103TM-2 <sup>XY</sup>               | 16          | 17 <sup>a</sup> | NR              | 13, 15      | NR              | NR              | 13 <sup>a</sup> | NR             | NR              | NR             | 9      | NR    | NR     |             |
| 179-25             | 103TM-3 <sup>XY</sup>               | 16          | 15, 17          | 20 <sup>a</sup> | 13, 15      | NR              | NR              | 12, 13          | NR             | NR              | 9 <sup>a</sup> | 9      | 8, 11 | NR     |             |
| 179-26             | 104TM-1 <sup>XY</sup>               | 16          | 15, 17          | 20, 21          | 13, 15      | 27, 30          | NR              | 12, 13          | 9, 13          | NR              | 9, 11          | 9      | 8, 11 | 10     |             |
| 179-27             | 104TM-2 <sup>XY</sup>               | 16          | 15, 17          | 20, 21          | 13, 15      | 27, 30          | 14 <sup>a</sup> | 12, 13          | 9, 13          | NR              | NR             | 9      | NR    | NR     |             |
| 179-28             | 104TM-3 <sup>XY</sup>               | 16          | NR              | NR              | 13, 15      | NR              | NR              | 12 <sup>a</sup> | NR             | NR              | NR             | NR     | NR    | NR     |             |
| 179-29             | 104TM-4 <sup>XY</sup>               | 16          | 15, 17          | 20, 21          | 13, 15      | 27, 30          | 13 <sup>a</sup> | 12, 13          | 9, 13          | 10, 12          | 9, 11          | 9      | 8, 11 | 10     |             |
| 179-30             | 104TM-5 <sup>XY</sup>               | 16          | 15, 17          | 20, 21          | 13, 15      | 27, 30*         | NR              | 12, 13          | NR             | NR              | 9, 11          | 9      | 8, 11 | NR     |             |
| 179-21             | 102TM-2 <sup>XY</sup>               | 15, 16      | 15, 16          | 25, 28          | 13, 14      | 28              | 16, 19*         | 13              | 13             | 9, 10*          | 9, 11          | 7, 8   | NR    | 8, 12* | 22          |

\*=Alleles designated with an asterisk are less intense than non-designated alleles.

a= Additional peak(s) detected, however, it fails to meet reporting standards.

1= See Certificate of Analysis dated August 16, 2006, the Amended Certificate of Analysis dated February 5, 2007, and the Supplemental Certificate of Analysis dated September 7, 2007 for previously submitted evidence and previously reported results.

2= D19S433 can be reported upon request.

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Based on the results listed above, the DNA profiles obtained from the samples 107TM (right and left nails), 9TM-1/3, 102TM-1/3, 103TM-1/2/3, 104TM-1/2/3/4/5 (Items 179-16 through 179-20 and Item 179-22 through 179-30) are consistent with the DNA profile from the reference sample from Rashad Khalifa (Item 8) and are different than the DNA profiles obtained from the hair reference samples from Benjamin Wall (Item 214-1) and Leland Walker (Item 179-14). Therefore, Rashad Khalifa cannot be excluded as the source of the genetic material in these samples. Statistical estimates can be calculated upon request.

The DNA profile obtained from the sample 102TM-2 (Item 179-21) is consistent with the DNA profile obtained from the hair reference sample from Benjamin Wall (Item 214-1) and is different than the DNA profiles obtained from the hair reference sample from Leland Walker (Item 179-14) and the reference sample from Rashad Khalifa (Item 8). Therefore, Benjamin Wall cannot be excluded as the source of the genetic material in this sample. The probability of randomly selecting an unrelated individual with a DNA profile consistent with the profile obtained from Item 179-21 at the genetic systems where reportable results were obtained is approximately: (Note: It is the policy of this laboratory to report statistical estimates greater than the approximate world population as, "1 in greater than 6,500,000,000".)

- 1 in greater than 6,500,000,000 for the African American population.
- 1 in greater than 6,500,000,000 for the Caucasian population.
- 1 in greater than 6,500,000,000 for the Hispanic population.

An attempt to isolate DNA from 16TM-A (Item 179-15) failed to yield sufficient quantities to develop a DNA profile for comparison purposes through PCR analysis.

Deoxyribonucleic acid (DNA) isolated from Item 179-14 was characterized through the polymerase chain reaction (PCR) at the following genetic systems using the AmpFISTR<sup>®</sup> Yfiler<sup>™</sup> kit:

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Alleles Detected

| <u>System</u> | <u>179-14 L. Walker<br/>Hairs / 1FBI-A</u> | <u>2-Bloodsatin<br/>7TM-A</u> |
|---------------|--|-------------------------------|
| DYS456        | 16   | 14, 17*                       |
| DYS389 I      | 13   | 13                            |
| DYS390        | 24   | 22 <sup>a</sup>               |
| DYS389 II     | 30   | 29                            |
| DYS458        | 17   | 16*, 18                       |
| DYS19         | 15   | 14                            |
| DYS385 a/b    | 11, 14                                     | 11*, 14, 18                   |
| DYS393        | 13   | 13, 14*                       |
| DYS391        | 11   | 10, 11*                       |
| DYS439        | 13   | 12                            |
| DYS635        | 24   | 21*, 22                       |
| DYS392        | 13   | 11                            |
| Y GATA H4     | 11   | 11, 13*                       |
| DYS437        | 15   | 14, 15*                       |
| DYS438        | 12   | 11, 12*                       |
| DYS448        | 19   | 18, 21                        |

\*=Alleles designated with an asterisk are less intense than non-designated alleles.  
 a= Additional peak(s) detected, however, it fails to meet reporting standards.

Based on the results listed above, the Y chromosome DNA profile obtained from sample 7TM-A (Item 2) is consistent with a mixture of DNA from more than one male individual. Leland Walker 1FBI-A (Item 179-14) and his paternal relatives are excluded as a contributor to the genetic material in this sample. This mixed sample can be compared to any additional reference sample submitted.

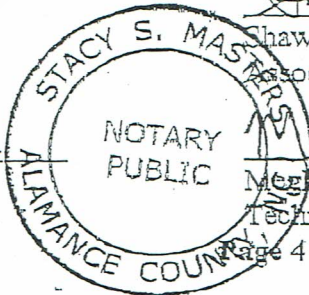
Disposition of Evidence:

Unless previous arrangements have been made, unused evidence will be returned to the submitting agency. The results have been reviewed independently by the undersigned and are correct as reported.

Sworn to and subscribed  
 before me this 19<sup>th</sup> day  
 of September, 2008  
 at Research Triangle Park, NC.

Shawn M. Weiss

Shawn M. Weiss, BS  
 Associate Technical Director, Forensic Identity Testing



Stacy S. Masters  
 Notary Public  
 STACY S. MASTERS

Meghan E. Clement

Meghan E. Clement, MS  
 Technical Director, Forensic Identity Testing

My Commission Expires  
 Nov 11 2011