



10430 Furnace Road, Suite 107  
 Lorton, VA 22079  
 Phone: 703-646-9740

**Supplemental Forensic Case Report  
 May 12, 2008**

**To:**  
 Andy Horita  
 Boulder District Attorney's Office  
 1777 6<sup>th</sup> Street  
 Boulder, CO 80302

**BODE Case #:** 2S07-101  
**Agency Case #:** 96DA21871

**List of Evidence Received on April 18, 2008 for possible DNA analysis:**

<u>BODE Sample #</u>	<u>Agency Description</u>
2S07-101-07	Labeled as "Barbie Nightgown BPD#12KKY, CBI#17"
2S07-101-07A	<i>exterior and interior of the bottom front of nightgown</i>
2S07-101-07B	<i>exterior of the left shoulder region front and back of nightgown</i>
2S07-101-07C	<i>exterior of the right shoulder region front and back of nightgown</i>
2S07-101-07D	<i>exterior and interior of the bottom back of nightgown</i>

**Table One contains Profiler Plus and Cofiler data submitted on March 12, 2008 for the following samples:**

<u>BPD #</u>	<u>CBI</u>	<u>Description</u>
001BP	14B	Blood standard JonBenet-Victim
5RTG	36B-2	Blood Standards Burke Ramsey-Brother
4RTG/069TET	35B-2	Blood Standards Patricia Ramsey-Mother
3RTG/068TET	34B-2	Blood Standards John B. Ramsey-Father
2RTG/72TET	33B-2	Blood Standard Melinda Ramsey- ½ Sister (Common Father)
1RTG	32B-2	Blood Standards John Andrew Ramsey- ½ Brother (Common Father)

**DNA PROCESSING, RESULTS, and CONCLUSIONS:**

Item 2S07-101-07 was processed for DNA typing by analysis of the 13 CODIS Short Tandem Repeat loci, the D2S1338 locus, the D19S433 locus, and the gender determining locus Amelogenin using the AmpFLSTR® Identifier® kit. Appropriate positive and negative controls were used concurrently throughout the analysis. The DNA profiles reported in this case were determined by procedures that have been validated according to standards established by the Scientific Working Group on DNA Analysis Methods (SWGDM) and adopted as Federal Standards.

1. The DNA profile obtained from sample 2S07-101-07A contains a mixture of at least two individuals including the victim and at least one male contributor. The individuals associated with samples John B. Ramsey, John Andrew Ramsey, and Melinda Ramsey are excluded as possible contributors to the mixture profile obtained from sample 2S07-101-07A. The individuals associated with Burke Ramsey and Patricia Ramsey cannot be excluded as possible contributors to the mixture DNA profile obtained from sample 2S07-101-07A.

The probability of randomly selecting an unrelated individual who would be included as a possible contributor to this mixture at the core CODIS loci (excluding CSF1PO, D13S317, D5S818, and FGA) is:

- 1 in 50.0 Thousand in the US Caucasian Population
- 1 in 220.0 Thousand in the US African American Population
- 1 in 43.0 Thousand in the US Southwest Hispanic Population
- 1 in 58.0 Thousand in the US Southeast Hispanic Population

**BODE Case #:** 2S07-101  
**Agency Case #:** 96DA21871

**Date:** May 12, 2008

2. The DNA profile obtained from sample 2S07-101-07B contains a mixture of at least two individuals including the victim. The individuals associated with samples John B. Ramsey, John Andrew Ramsey, and Melinda Ramsey are excluded as possible contributors to the mixture profile obtained from sample 2S07-101-07B. The individuals associated with Burke Ramsey and Patricia Ramsey cannot be included or excluded as possible contributors to the mixture DNA profile obtained from sample 2S07-101-07B.
3. The DNA profile obtained from sample 2S07-101-07C contains a mixture of at least two individuals including the victim and at least one male contributor. The individuals associated with samples John B. Ramsey, John Andrew Ramsey, and Melinda Ramsey are excluded as possible contributors to the mixture profile obtained from sample 2S07-101-07C. The individuals associated with Burke Ramsey and Patricia Ramsey cannot be included or excluded as possible contributors to the mixture DNA profile obtained from sample 2S07-101-07C.
4. The DNA profile obtained from sample 2S07-101-07D contains a mixture of at least two individuals including the victim and at least one male contributor. The individuals associated with samples Patricia Ramsey, John B. Ramsey, John Andrew Ramsey, and Melinda Ramsey are excluded as possible contributors to the mixture profile obtained from sample 2S07-101-07D. The individual associated with Burke Ramsey cannot be included or excluded as a possible contributor to the mixture DNA profile obtained from sample 2S07-101-07D.

See **Table Two** for summary of alleles reported for these samples.

**NOTES:**

1. A supplemental report was issued due to an additional submission of evidence. Please see original report dated March 24, 2008.
2. The DNA extracts and submitted evidence will be returned to Andy Horita at the Boulder District Attorney's Office.

Report submitted by:



Amy Jeanguenat, MFS  
DNA Analyst II

BODE Case #: 2S07-101  
Agency Case #: 96DA21871

Date: May 12, 2008

Table One: Analysis of Short Tandem Repeat Loci

Locus	JonBenet Ramsey	Burke Ramsey	Patricia Ramsey	John B Ramsey	Melinda Ramsey	John Andrew Ramsey
AMEL	XX	XY	XX	XY	XX	XY
D3S1358	16,17	17,18	14,17	16,18	15,18	15,18
vWA	16,16	16,16	16,16	16,17	16,16	16,17
FGA	20,23	21,24	20,21	23,24	21,23	19,24
D8S1179	12,13	12,13	12,14	13,13	13,13	13,14
D21S11	29,32.2	29,32.2	29,32.2	29,32.2	32.2,32.2	29,31.2
D18S51	14,14	13,16	13,14	14,16	16,16	12,14
D5S818	11,12	12,12	11,12	12,13	13,13	11,12
D13S317	11,12	11,12	11,11	12,12		9,12
D7S820	8,10	8,10	8,8	10,12	9,9	9,10
D16S539	9,12	12,12	11,12	9,12	12,13	9,12
TH01	9.3,9.3	6,7	7,9.3			7,9.3
TPOX	8,9	8,9	8,8	9,11		8,9
CSF1PO	10,13	10,13	12,13	10,11		10,12

inc- inconclusive, no results  
np- not performed  
\*- faint results

BODE Case #: 2S07-101  
 Agency Case #: 96DA21871

Date: May 12, 2008

Table Two: Analysis of Short Tandem Repeat Loci

Locus	2S07-101-07Ax1	2S07-101-07Bx1	2S07-101-07Cx1	2S07-101-07Dx1
D8S1179	12,13,(14)	12,13,(14)	12,13,(14)	(11),12,13
D21S11	29,32.2	29,32.2	29,32.2	29,32.2
D7S820	8,10	8,10	8,10	8,10
CSF1PO	10,13	10,(13)	10,13	10,13
D3S1358	(14),(16),17,(18)	16,17,(18)	(14),16,17,(18)	16,17,(18)
TH01	(6),(7),9.3	(6),(7),9.3	(6),(7),9.3	6,(7),9.3
D13S317	(9),11,12	11,12	11,12	11,12
D16S539	(9),(11),12	(9),12	9,(11),12	(9),12
D2S1338	17,20,21,25	21*	21,25	(17),21,25
D19S433	14,15	14,15	14,15	(14),15
vWA	16,(17)	16,16	16,16	16,16
TPOX	8,9	8,9	8,9	8,9
D18S51	(13),14,(16)	14,14	(13),14	(13),14,(16)
Amel.	X,(Y)	X,X	X,(Y)	X,(Y)
D5S818	11,12	11,12	11,12	(11),12
FGA	20,23,(24)	20*	20,(21),23	20,23

Key: ( ) – Minor allele, \* – Allele below threshold for homozygosity