



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

THESE RECORDS MAY BE RELEASABLE UNDER THE FOIA REQUEST 15  
DAYS AFTER SIGNATURE DATE UNLESS WE HEAR OTHERWISE FROM  
FAA NTSB COUNSEL

Mike Monroney  
Aeronautical Center

P.O. Box 25082  
Oklahoma City, Oklahoma 73125

Tuesday, March 28, 2017

National Transportation Safety Board  
45065 Riverside Parkway  
Ashburn, VA 20147

**ACCIDENT #** 0176    **INDIVIDUAL#:** 002    **NAME:** Pilot/Owner (Left Seat)    **MODE:** AVIATION  
**DATE OF ACCIDENT** 08/12/2016    **DATE RECEIVED** 08/19/2016    **PUTREFACTION:** Yes  
**N #** 128VB    **NTSB #** ERA16FA288    **CAMI REF #** 201600176002  
**LOCATION OF ACCIDENT** Fredericksburg, VA  
**SPECIMENS** Bile, Blood, Blood (Heart), Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen, Urine, Vitreous

### FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT

**CARBON MONOXIDE:** The carboxyhemoglobin (COHb) saturation is determined by spectrophotometry with a 10% cut off and confirmed by chromatography.

>> NO CARBON MONOXIDE detected in Blood (Heart)

**CYANIDE:** The presence of cyanide is screened by Conway Diffusion, when the COHb level is equal to or greater than 10% or upon special request. Cyanides are quantitated by spectrophotometry and confirmed by chromatography. The reporting cutoff for cyanide is 0.25 ug/mL. Normal blood cyanide concentrations are less than 0.15 ug/mL, while lethal concentrations are greater than 3 ug/mL.

>> NOT PERFORMED

**VOLATILES:** The volatile concentrations are determined by headspace gas chromatography at a cut off of 10 mg/dL. Where possible, positive ethanol values are confirmed by Radiative Energy Attenuation.

>> NO ETHANOL detected in Vitreous

**DRUGS:** Specimens are analyzed using immunoassay, chromatography, GC/MS, HPLC/MS, or GC/FTIR. Concentrations (ug/mL) at or above those in ( ) can be determined for, but not limited to, the following drugs: amphetamines (0.010), opiates (0.010), marijuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), and antihistamines (0.020). Drugs and/or their metabolites, that are not impairing or abused, may be reported from the initial tests. See the CAMI Drug Information Web Site for additional information (<http://jag.cami.jccbi.gov/toxicology/>).

>> Amlodipine detected in Urine  
>> Amlodipine detected in Blood  
>> Benazepril detected in Urine  
>> Ibuprofen detected in Urine  
>> Salicylate detected in Urine  
>> Triamterene detected in Urine  
>> Zolpidem detected in Urine  
>> 0.021 (ug/ml, ug/g) Zolpidem detected in Blood (Heart)

c=US, o=U.S. Government, ou=AMC, ou=AMC,  
cn=RUSSELL J LEWIS  
2017.03.28 15:29:40 -05'00'

Tuesday, March 28, 2017

CONTINUATION OF REF#: 201600176002 — Pilot/Owner (Left Seat)

c=US, o=U.S. Government, ou=AMC, ou=AMC,  
cn=RUSSELL J LEWIS  
2017.03.28 15:29:22 -05'00'

Russell Lewis, Ph.D., F-ABFT  
TC, FAA, Forensic Toxicology  
Research Team CAMI



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P.O. Box 25082  
Oklahoma City, Oklahoma 73125

Tuesday, March 28, 2017

National Transportation Safety Board  
45065 Riverside Parkway  
Ashburn, VA 20147

**ACCIDENT #** 0176    **INDIVIDUAL#:** 002    **NAME:** Pilot/Owner (Left Seat)    **MODE:** AVIATION  
**DATE OF ACCIDENT** 08/12/2016    **DATE RECEIVED** 08/19/2016    **PUTREFACTION:** Yes  
**N #** 128VB    **NTSB #** ERA16FA288    **CAMI REF #** 201600176002  
**LOCATION OF ACCIDENT** Fredericksburg, VA  
**SPECIMENS** Bile, Blood, Blood (Heart), Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen, Urine, Vitreous

**CLINICAL REPORT**

CLINICAL: Vitreous and Urine are tested for the presence of glucose with reagent strips and by enzymatic spectrophotometric analysis. Postmortem vitreous glucose levels above 125 mg/dL are considered abnormal and postmortem urine levels above 100 mg/dL are considered abnormal. Hemoglobin A1C is analyzed using a latex immunoagglutination inhibition methodology. Hemoglobin A1C blood levels above 6% are considered abnormal. Urine specimens are defined as "dilute" if the creatinine concentration is < 20 mg/dL and the specific gravity is < 1.003. Concentrations of serotonin metabolites 5-hydroxytryptophol (5-HTOL) and 5-hydroxyindole-3-acetic acid (5-HIAA) are measured by LC/MS. A 5-HTOL/5-HIAA ratio value < 15 pmol/nmol is not consistent with ethanol ingestion, while a ratio value > 15 pmol/nmol is indicative of ethanol ingestion.

- >> 313 (mg/dl ) Glucose detected in Urine
- >> Glucose NOT detected in Vitreous
- >> 10.6 (%) Hemoglobin A1C detected in Blood



c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL  
J LEWIS  
2017.03.28 15:28:47 -05'00'

Russell Lewis, Ph.D., F-ABFT  
TC, FAA, Forensic Toxicology  
Research Team CAMI



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Mike Monroney  
Aeronautical Center

P.O. Box 25082  
Oklahoma City, Oklahoma 73125

Wednesday, October 05, 2016

National Transportation Safety Board  
45065 Riverside Parkway  
Ashburn, VA 20147

ACCIDENT # 0176    INDIVIDUAL#: 001    NAME: Pilot/Passenger (Right Seat)    MODE: AVIATION  
DATE OF ACCIDENT 08/12/2016    DATE RECEIVED 08/19/2016    PUTREFACTION: Yes  
N # 128VB    NTSB # ERA16FA288    CAMI REF # 201600176001  
LOCATION OF ACCIDENT Fredericksburg, VA  
SPECIMENS Bile, Blood (Heart), Brain, Heart, Kidney, Liver, Lung, Muscle, Spinal Fluid, Spleen, Urine

**FINAL FORENSIC TOXICOLOGY FATAL ACCIDENT REPORT**

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>> Diphenhydramine detected in Urine  
>> Diphenhydramine detected in Blood (Heart)

c=US, o=U.S. Government, ou=AMC, ou=AMC, cn=RUSSELL J  
LEWIS  
2016.10.06 11:18:24 -05'00'

Russell Lewis, Ph.D., F-ABFT  
TC, FAA, Forensic Toxicology  
Research Team CAMI