



THESE RECORDS MAY BE RELEASABLE UNDER THE FOIA REQUEST 15
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FAA NTSB COUNSEL

Mike Monroney
Aeronautical Center

P.O. Box 25082
Oklahoma City, Oklahoma 73125

Friday, January 18, 2019

National Transportation Safety Board
45065 Riverside Parkway
Ashburn, VA 20147

ACCIDENT # 0240	INDIVIDUAL#: 001	NAME: PILOT	MODE: AVIATION
DATE OF ACCIDENT 11/30/2018	DATE RECEIVED 12/07/2018	PUTREFACTION: No	
N # 3995Y	NTSB # ERA19FA059	CAMI REF # 201800240001	
LOCATION OF ACCIDENT Apalachicola, FL			
SPECIMENS Bile, Blood (Cavity), 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 CARBOXYHEMOGLOBIN detected in Blood (Cavity)

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 Blood (Cavity)

DRUGS: Specimens are analyzed using immunoassay, chromatography, mass spectrometry, or spectrophotometry. 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://jaq.cami.iccbi.gov/toxicology/>).

- 39.2 (ug/mL, ug/g) Acetaminophen detected in Urine
- Naproxen detected in Urine
- 0.174 (ug/mL, ug/g) Venlafaxine detected in Blood (Heart)
- Venlafaxine detected in Urine
- 0.579 (ug/mL, ug/g) Desmethylvenlafaxine (O-) detected in Blood (Heart)
- Desmethylvenlafaxine (O-) detected in Urine
- Alfuzosin detected in Blood (Cavity)
- Alfuzosin detected in Urine
- Famotidine NOT detected in Blood (Cavity)
- Famotidine detected in Urine
- Loratadine detected in Blood (Cavity)
- Desloratadine detected in Blood (Cavity)

c=US, o=U.S. Government, ou=AMC,
ou=AMC, cn=RUSSELL J LEWIS
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Friday, January 18, 2019

CONTINUATION OF REF#: 201800240001 — Midlam, Lewis C.

- Desloratadine detected in Urine



Russell Lewis, Ph.D., F-ABFT
Supervisor, Forensic Sciences
Bioaeronautical Sci. Research Lab
CAMI, FAA

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

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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.

- 18 (mg/dL) Glucose detected in Vitreous
- 353 (mg/dL) Glucose detected in Urine
- 5.7 (%) Hemoglobin A1C detected in Blood (Heart)

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