



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

Monday, June 20, 2016

National Transportation Safety Board, Rail Division  
490 L'Enfant Plaza East, S.W.  
Washington, DC 20594

ACCIDENT # 0054    INDIVIDUAL#: 002    NAME: [REDACTED]    MODE: RAIL  
DATE OF ACCIDENT 04/03/2016    DATE RECEIVED 04/06/2016    PUTREFACTION: No  
N #    NTSB # DCA16FR007    CAMI REF # 201600054002  
LOCATION OF ACCIDENT Delco, PA  
SPECIMENS Bile, Blood (Cavity), Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen, 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 (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 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/>).

- >> 0.004 (ug/ml, ug/g) Codeine detected in Liver
- >> Codeine detected in Blood (Cavity)
- >> 0.077 (ug/ml, ug/g) Morphine detected in Liver
- >> Morphine detected in Blood (Cavity)
- >> Oxycodone detected in Liver
- >> Oxycodone detected in Blood (Cavity)

[REDACTED SIGNATURE]

c=US, o=U.S. Government, ou=AMC, ou=AMC,  
cn=RUSSELL J LEWIS  
2016.06.24 10:39:18 -05'00'

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