



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

Mike Monroney  
Aeronautical Center

P.O. Box 25082  
Oklahoma City, Oklahoma 73125

Tuesday, November 10, 2015

National Transportation Safety Board  
45065 Riverside Parkway  
Ashburn, VA 20147

ACCIDENT # 0210    INDIVIDUAL#: 002    NAME: ADAMS, RYAN    MODE: AVIATION  
DATE OF ACCIDENT 09/20/2015    DATE RECEIVED 09/22/2015    PUTREFACTION: Yes  
N # 22721    NTSB # ERA15FA362    CAMI REF # 201500210002  
LOCATION OF ACCIDENT Morrisville, NY  
SPECIMENS Bile, Blood (Cavity), 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 (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 Urine

**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/>).

>> Ibuprofen detected in Urine

**-Notes:**

Samples from passengers are analyzed for CARBON MONOXIDE and CYANIDE only in cases of fire, or upon special request, provided suitable blood samples were submitted.



cn=russell.j.lewis@faa.gov  
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Russell Lewis, Ph.D.  
TC, FAA, Forensic Toxicology  
Research Team CAMI



**FORENSIC TOXICOLOGY LABORATORY**  
**ONONDAGA COUNTY HEALTH DEPARTMENT**  
**CENTER FOR FORENSIC SCIENCES**

JOANNE M. MAHONEY  
 County Executive

INDU GUPTA, MD, MPH  
 Commissioner of Health

ROBERT STOPPACHER, MD  
 Chief Medical Examiner

KRISTIE BARBA, MS, D-ABFT-FT  
 Interim Toxicologist

**TOXICOLOGY REPORT**

**LABORATORY #:** M15-1777

**AGENCY CASE #:** M15-1777

**NAME:** Ryan M. Adams

**DATE RECEIVED:** September 22, 2015

**SPECIMENS SUBMITTED:** Blood, Serum, Vitreous,  
 Urine, Liver, Gastric Contents

**SUBMITTED BY:** Charles Catanese, MD  
 Medical Examiner's Office (ONON)

Syracuse, NY

**RESULTS:**

Blood (chest cavity):

Volatiles:

- Acetaldehyde – not detected<sup>5</sup>
- Acetone – not detected<sup>5</sup>
- Ethyl alcohol – not detected<sup>5</sup>
- Isopropanol – not detected<sup>5</sup>
- Methanol – not detected<sup>5</sup>

Carbon monoxide – not detected<sup>6</sup>

Negative for acetaminophen, amitriptyline, amphetamine, barbiturates, benzodiazepines, benzoylcegonine, cannabinoids, citalopram, clomipramine, cocaethylene, cocaine, codeine, desipramine, doxylamine, fentanyl, hydrocodone, ibuprofen, imipramine, meperidine, methadone, methamphetamine, methylenedioxyamphetamine (MDA), methylenedioxymethamphetamine (MDMA), morphine, norpropoxyphene, oxycodone, pentazocine, phencyclidine, phentermine, phenytoin, procainamide, procaine, strychnine, thioridazine, tramadol, trazodone, trimipramine, valproic acid, venlafaxine, and verapamil.<sup>1,2,4</sup>

All items for this case that have been submitted to this department shall be discarded three (3) years after the date of this report unless the submitting agency has made written arrangements to the contrary.

<sup>1</sup>Determined by immunoassay.

<sup>2</sup>Determined by gas chromatography.

<sup>3</sup>Determined by liquid chromatography.

<sup>4</sup>Determined by mass spectrometry.

<sup>5</sup>Determined by headspace gas chromatography.

<sup>6</sup>Determined by UV/Vis spectrometry.

<sup>7</sup>Determined by microcolor techniques.

This report contains the conclusions, opinions and interpretations of the certifying examiner whose signature appears on the report. False statements made herein are punishable as a class A misdemeanor pursuant to Section 210.45 of the Penal Law of the State of New York. For definitions of significant terms used in this report, please see page 99 of the <http://criminaljustice.ny.gov/forensic/forms/nyclac-report-standardization-project-july2015.pdf>. This report does not constitute the entire case file. The case file may also contain worksheets, analytical data, case notes, and other documents.

AFFIRMED UNDER PENALTY OF PERJURY

**Results Certified By:**

**Date:** 10/10/2015

Samantha Starkey MS, D-ABFT-FT  
 Forensic Chemist - Toxicology Section

SYRACUSE, NEW YORK  
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