Human Performance Factual Report Attachment

Final Forensic Toxicology Fatal Accident Report

Schoharie, NY

HWY19MH001

(3 pages)

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

U.S. Department of Transportation
Federal Aviation Administration

Mike Monroney Aeronautical Center

P.O. Box 25082
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Tuesday, December 18, 2018

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

ACCIDENT # 0210 **INDIVIDUAL#:** 001 **NAME:** [redacted] **MODE:** HIGHWAY

DATE OF ACCIDENT 10/06/2018 **DATE RECEIVED** 10/17/2018 **PUTREFACTION:** No

N # **NTSB #** HWY19MH001 **CAMI REF #** 201800210001

LOCATION OF ACCIDENT Schoharie, NY

SPECIMENS Bile, Brain, Gastric, Heart, Kidney, Liver, Lung, Muscle, Spleen

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.

- NOT PERFORMED

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 Brain
- NO ETHANOL detected in Muscle

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), marihuana (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/).

- 0.02 (ug/mL, ug/g) Delta-9-THC detected in Bile
- 0.263 (ug/mL, ug/g) Delta-9-THC detected in Gastric
- 0.0926 (ug/mL, ug/g) Delta-9-THC detected in Kidney
- 0.255 (ug/mL, ug/g) Delta-9-THC detected in Brain
- 0.323 (ug/mL, ug/g) Delta-9-THC detected in Spleen
- 0.451 (ug/mL, ug/g) Delta-9-THC detected in Muscle
- 0.489 (ug/mL, ug/g) Delta-9-THC detected in Lung
- 0.893 (ug/mL, ug/g) Delta-9-THC detected in Liver
- Delta-9-THC detected in Heart
- 0.039 (ug/mL,ug/g) 11-Hydroxy-Delta-9-THC detected in Bile
- 0.0066 (ug/mL,ug/g) 11-Hydroxy-Delta-9-THC detected in Kidney

[redacted] [redacted]

CONTINUATION OF REF#: 201800210001 [redacted]

- 0.0349 (ug/mL,ug/g) 11-Hydroxy-Delta-9-THC detected in Brain
- 0.0116 (ug/mL,ug/g) 11-Hydroxy-Delta-9-THC detected in Spleen
- 0.0187 (ug/mL,ug/g) 11-Hydroxy-Delta-9-THC detected in Heart
- 0.0362 (ug/mL,ug/g) 11-Hydroxy-Delta-9-THC detected in Liver
- 1.825 (ug/mL, ug/g) Carboxy-Delta-9-THC detected in Bile
- 0.975 (ug/mL, ug/g) Carboxy-Delta-9-THC detected in Kidney
- 0.187 (ug/mL, ug/g) Carboxy-Delta-9-THC detected in Brain
- 0.152 (ug/mL, ug/g) Carboxy-Delta-9-THC detected in Spleen
- 0.177 (ug/mL, ug/g) Carboxy-Delta-9-THC detected in Lung
- 0.0891 (ug/mL, ug/g) Carboxy-Delta-9-THC detected in Muscle
- 0.283 (ug/mL, ug/g) Carboxy-Delta-9-THC detected in Heart
- 0.691 (ug/mL, ug/g) Carboxy-Delta-9-THC detected in Liver
- 0.34 (ug/mL, ug/g) Bupropion detected in Liver
- 0.152 (ug/mL, ug/g) Bupropion detected in Muscle
- 3.852 (ug/mL,ug/g) Hydroxybupropion detected in Liver
- 0.698 (ug/mL,ug/g) Hydroxybupropion detected in Muscle
- Famotidine detected in Liver
- Famotidine detected in Muscle
- Oxcarbazepine detected in Liver
- Oxcarbazepine detected in Muscle

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Bioaeronautical Sci. Research Lab
CAMI, FAA