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FAA NTSB COUNSEL



U.S. Department  
of Transportation  
Federal Aviation  
Administration

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Monday, July 27, 2009

National Transportation Safety Board  
4760 Oakland Street, Suite 500  
Denver, CO 80239

ACCIDENT # 0121    INDIVIDUAL#: 001    NAME: TINGWALL, ANDREW F.    MODE: AVIATION  
DATE OF ACCIDENT 08/09/2009    DATE RECEIVED 08/16/2009    PUTREFACTION: Yes  
N # 608SP    NTSB # GEN08TA348    CAMI REF # 200900121001  
LOCATION OF ACCIDENT SANTA FE, NM  
SPECIMENS    Bile, Blood, 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

**CYANIDE:** The presence of cyanide is screened by Conway Diffusion. Positive cyanides are quantitated by spectrophotometry and confirmed by chromatography. The limit of quantitation of 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.

>> NO CYANIDE detected in Blood

**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

**DRUGS:** Immunoassay and chromatography are used to screen for legal and illegal drugs which include: amphetamine (0.010), opiates (0.010), marijuana (0.001), cocaine (0.020), phencyclidine (0.002), benzodiazepines (0.030), barbiturates (0.060), antidepressants (0.100), antihistamines (0.020), meprobamate (0.100), methaqualone (0.100), and nicotine (0.050). The values in ( ) are the threshold values in ug/mL used to report positive results. Values below this concentration are normally reported as not detected. GC/Mass Spec, HPLC/Mass Spec, or GC/FTIR, is used to confirm most positive results.

>> 85.296 (ug/mL, ug/g) FLUOXETINE detected in Liver  
>> 0.485 (ug/mL, ug/g) FLUOXETINE detected in Blood  
>> 1.285 (ug/mL, ug/g) FLUOXETINE detected in Muscle  
>> 4.279 (ug/mL, ug/g) FLUOXETINE detected in Kidney  
>> 9.6 (ug/mL, ug/g) FLUOXETINE detected in Spleen  
>> 9.969 (ug/mL, ug/g) FLUOXETINE detected in Brain  
>> 53.4 (ug/mL, ug/g) FLUOXETINE detected in Gastric  
>> 0.72 (ug/mL, ug/g) NORFLUOXETINE detected in Muscle  
>> 1.751 (ug/mL, ug/g) NORFLUOXETINE detected in Gastric  
>> 2.455 (ug/mL, ug/g) NORFLUOXETINE detected in Kidney  
>> 4.991 (ug/mL, ug/g) NORFLUOXETINE detected in Spleen  
>> 6.871 (ug/mL, ug/g) NORFLUOXETINE detected in Brain

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CONTINUATION OF REF#: 200900121001 - TINGWALL, ANDREW F.

>> 50.412 (ug/mL, ug/g) NORFLUOXETINE detected in Liver  
>> 0.287 (ug/mL, ug/g) NORFLUOXETINE detected in Blood

-Notes:

-The net weight of the submitted gastric contents was 103.12g.



Date: 2009.07.28 14:25:37 -05'00'

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