

## Draffin Kentucky, NTSB# RRD20FR002

### Hazardous Materials Attachment 12 – EPA Community Air Monitoring Data Summary

An example is provided on the following page of EPA community AreaRAE air monitoring data recorded for 50 of over 65,000 similar measurements collected on February 13, 2020.

There were no alarms recorded for the photoionization detector sensor or the LEL (lower explosive limit) sensor that would indicate air concentrations of pollutants in excess of applicable action levels, which are determined from EPA Acute Exposure Guideline Levels (AEGLs). The AEGL values are intended to protect most individuals in the general population, including those that might be particularly susceptible to the harmful effects of chemicals. The EPA AEGL<sup>1</sup> community exposure guidelines and the American Conference of Governmental Industrial Hygienists (ACGIH) occupational exposure level recommendations for certain hazardous volatile constituents found in denatured ethanol<sup>2</sup> are provided in the following table:

Contaminant	AEGL 1-10 minute (ppm)	AEGL1 - 30 minute (ppm)	AEGL1– 60 minute (ppm)	**ACGIH (ppm)
Ethanol	Not established	Not established	Not established	1,000 (STEL)
Natural Gasoline	***730	730	730	300 (TWA)
Benzene	130	73	52	0.5 (TWA)
Hexane	Not established	Not established	Not established	50 (TWA)
Butane	*10,000	6,900	5,500	1,000 (STEL)
Pentane	Not established	Not established	Not established	1.000 (TWA)

\* concentration above the lower explosive limit

\*\* 15-minute short term exposure limit (STEL), 8-hour time weighted average (TWA)

\*\*\* proposed standards

For additional information, visit the Environmental Protection Agency On-scene Coordinator website at <https://response.epa.gov>

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<sup>1</sup> AEGL1 is the airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or a symptomatic non-sensory effects. Data source EPA AEGL program, [www.epa.gov/aegl](http://www.epa.gov/aegl)

<sup>2</sup> As identified by RPMG safety data sheet. See Hazardous Materials Attachment 4.

