

February 27, 2019

## **Trafalgar Road Fire Air Sampling Data Results Summary**

### **Sampling for Volatile Organic Compounds, Polycyclic Aromatic Hydrocarbons and Hydrogen Cyanide**

None of the EPA's air samples showed elevated concentrations of chemicals of concern in the community.

In support of the Arkansas Department of Environmental Quality (ADEQ), EPA collected air samples from five locations in the community around the Trafalgar Road property on February 10, 11 and 12, 2019. EPA tested the air samples for volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs) and hydrogen cyanide (HCN). These compounds are potentially associated with the landfill fires containing construction debris, household waste or tires.

In addition to the five community locations, EPA also collected air samples of these compounds from one location within the Trafalgar Road property.

### **Off-Site Results**

All VOC, PAH and HCN sample results in the community were below residential health screening levels and did not trigger an imminent and substantial endangerment finding by EPA.

### **On-Site Results**

All VOC, PAH and HCN sample results on-site were below Occupational Safety and Health Administration (OSHA) worker safety standards.

### **Monitoring for Particulate Matter (as PM<sub>2.5</sub>)**

Monitoring of particulate matter (as PM<sub>2.5</sub>) was also conducted. Three 24-hour monitoring events took place between February 9, 2019 and February 12, 2019 (see table below).

Air Quality Index Cautionary Statements:

Good – No cautionary statement

Moderate – Unusually sensitive people should consider reducing prolonged or heavy exertion

Unhealthy – People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.

When smoke is present (from Fires and Your Health (<https://www.epa.gov/pm-pollution/fires-and-your-health>)):

- If it looks smoky outside, it is a good idea to limit exertion (running, yardwork, playing) during outside activity.

Internal work product – this is a draft document and will be finalized once the validated data is received

- If you have asthma or other lung disease, you should follow your doctor’s directions or asthma management plan
- Run your Heating, Ventilation and Air Conditioning (HVAC) system while keeping your air filter clean
- If you have heart or lung disease, if you are an older adult, or if you have a child, talk with your doctor about whether or when you should leave the area

Air Quality Index (AQI) Calculator

(<https://airnow.gov/index.cfm?action=airnow.calculator>):

Location <sup>1</sup>	PM2.5 (24-hour average)	AQI	AQI Category
<b>February 9-10, 2019</b>			
Damerham Lane	7 µg/m <sup>3</sup>	29	Good
Sutherland Lane	7 µg/m <sup>3</sup>	29	Good
Webb Lane	5 µg/m <sup>3</sup>	21	Good
Lyneham Lane	3 µg/m <sup>3</sup>	13	Good
<b>February 10-11, 2019</b>			
Damerham Lane	4 µg/m <sup>3</sup>	17	Good
Sutherland Lane	3 µg/m <sup>3</sup>	13	Good
Webb Lane	4 µg/m <sup>3</sup>	17	Good
Lyneham Lane	5 µg/m <sup>3</sup>	21	Good
<b>February 11-12, 2019</b>			
Damerham Lane	5 µg/m <sup>3</sup>	21	Good
Sutherland Lane	9 µg/m <sup>3</sup>	38	Good
Webb Lane <sup>2</sup>	0 µg/m <sup>3</sup>	0	Good
Lyneham Lane <sup>2</sup>	0 µg/m <sup>3</sup>	0	Good

<sup>1</sup> PM<sub>2.5</sub> Monitoring occurred at off-site locations only.

<sup>2</sup> The monitors were running properly and recorded levels of PM<sub>2.5</sub> less than the instrument detection limit (0.001 µg/m<sup>3</sup>) for most of the day.