

Air Monitoring Summary Tables

The table below summarizes monitoring data collected on using EPA's Viper wireless remote monitoring system.

Project Name: Weaver Fertilizer Plant Fire

**From: 2/2/2022
6:00 PM**

**To: 2/3/2022
6:00 AM**



Location 1: Wake Forest University Police Station							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 119	NO ₂	No	13,022	13,022	0.030 to 0.100 ppm	0.063 ppm	0.500 ppm
SPM Flex 204	NH ₃	No	13,031	3,261	0 to 0.670 ppm	0.024 ppm	30 ppm
DustTrak 167	PM-2.5	Yes	17,337	17,337	25 to 852 µg/m ³	138 µg/m ³	51 µg/m ³

Location 2: North Hills Elementary							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 036	NO ₂	No	13,078	13,078	0.040 to 0.060 ppm	0.053 ppm	0.500 ppm
SPM Flex 161	NH ₃	No	14,538	1,753	0 to 0.380 ppm	0.005 ppm	30 ppm
DustTrak 171	PM-2.5	No	751	751	23 to 46 µg/m ³	34 µg/m ³	51 µg/m ³

Location 3: Urgent Care (7811 North Point Blvd)							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 125	NO ₂	No	10,619	10,619	0.050 to 0.090 ppm	0.065 ppm	0.500 ppm
SPM Flex 159	NH ₃	No	11,007	51	0 to 0.020 ppm	0.00004 ppm	30 ppm

Location 4: Cook's Flea Market							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 158	NH ₃	No	8,312	986	0 to 0.420 ppm	0.006 ppm	30 ppm
DustTrak 172	PM-2.5	Yes	749	749	26 to 62 µg/m ³	38 µg/m ³	51 µg/m ³

Location 5: Weaver Fertilizer Plant Perimeter							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
AreaRae Pro	NO ₂	Yes	2,000	2,000	0.100 to 0.700 ppm	0.400 ppm	0.500 ppm
AreaRae Pro	NO ₂	Yes	2,000	1,986	0 to 5.20 ppm	0.753 ppm	0.500 ppm

Roving Monitor							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 150	NO ₂	No	8	8	0.040 to 0.060 ppm	N/A	0.500 ppm
DustTrak	PM-2.5	Yes	8	8	40 to 500 µg/m ³	N/A	51 µg/m ³

Notes:

- mg/m³ milligrams per cubic meter
- NH₃ Ammonia
- NO₂ Nitrogen dioxide
- N/A Not Applicable
- ppm Parts per million
- PM Particulate matter
- SPM Single Point Monitor

UPDATE 2/4/2022 10:30AM - The values for DustTrak instruments in this report have been converted from the units of milligrams per cubic meter of air (mg/m³) to micrograms per cubic meter of air (µg/m³) in order to provide consistency across data summary reports for the project and for faster referencing with the Particulate Matter (PM2.5) Community Action Threshold table

Other compounds were monitored using the AreaRae Pro at the Weaver Fertilizer Plant perimeter location, but not included in this summary report due to minimal detections that were below the established action levels.