

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 AM**

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



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	7,079	7,079	0.020 to 0.140 ppm	0.066 ppm	0.500 ppm
SPM Flex 204	NH ₃	No	7,121	3,665	0 to 0.520 ppm	0.021 ppm	30 ppm
DustTrak 167	PM-2.5	Yes	9,413	9,413	26 to 3,340 µg/m3	550 µg/m3	51 µg/m3

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	13,202	13,202	0.030 to 0.080 ppm	0.064 ppm	0.500 ppm
SPM Flex 161	NH ₃	No	13,197	2,328	0 to 0.510 ppm	0.016 ppm	30 ppm
DustTrak 171	PM-2.5	Yes	736	736	24 to 164 µg/m3	35 µg/m3	51 µg/m3

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	7,811	7,619	0 to 0.070 ppm	0.058 ppm	0.500 ppm
SPM Flex 159	NH ₃	No	11,457	840	0 to 0.320 ppm	0.004 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	6,544	51	0 to 0.320 ppm	0.0001 ppm	30 ppm
DustTrak 172	PM-2.5	Yes	751	751	19 to 93 µg/m3	35 µg/m3	51 µg/m3

Roving Monitor							
Instrument	Analyte	Exceedances?	Number of Readings	Number of Detections	Concentration Range	Period Average	Action Level
SPM Flex 150	NO ₂	No	7	0	0 ppm	N/A	30 ppm
DustTrak	PM-2.5	Yes	8	8	20 to 720 µg/m3	N/A	51 µg/m3

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 (PM_{2.5}) Community Action Threshold table

The monitoring station located at the Wake Forest University Police Station was offline and did not record data from approximately 10:22 AM to 3:00 PM due to an equipment malfunction.