

# Air Monitoring Summary Tables: Old Settlers Day Festival

The tables below summarize preliminary air monitoring data collected using EPA AreaRAE Pro and DustTrak DRX instruments.

**Project Name:** Rockton Chemtool Fire ER  
**Date/Time:** 06/20/21 05:50 to 06/20/21 17:52

**Weather**

**Temperature:** high of 78°F, low of 59°F  
**Wind Speed:** 0 to 6 miles per hour  
**Wind Direction:** South/Southwest  
**Conditions:** Overcast/Scattered Showers

Fixed Station 10: Rockton Fairgrounds North						
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak (S/N: 3911)	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	Yes	11	0.013 to 0.041	0.023
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	11	0.013 to 0.041	0.023
AreaRAE Pro (S/N: 0642)	VOC (ppm)	1 ppm	No	11	0.00 to 0.28	0.13
	CO (ppm)	--	No	11	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	11	20.9 to 20.9	20.9
	H <sub>2</sub> S (ppm)	0.1 ppm	No	11	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	11	0.0 to 0.0	0.0

Fixed Station 11: Rockton Fairgrounds South						
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak (S/N: 4006)	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	Yes	9	0.006 to 0.031	0.016
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	9	0.007 to 0.032	0.017
AreaRAE Pro (S/N: 2169)	VOC (ppm)	1 ppm	No	11	0.00 to 0.00	0.00
	CO (ppm)	--	No	11	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	11	20.9 to 20.9	20.9
	H <sub>2</sub> S (ppm)	0.1 ppm	No	11	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	11	0.0 to 0.0	0.0

Fixed Station 12: Rockton Fairgrounds West						
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak (S/N: 4307)	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	Yes	9	0.012 to 0.035	0.021
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	9	0.012 to 0.035	0.021
AreaRAE Pro (S/N: 2168)	VOC (ppm)	1 ppm	No	11	0.00 to 0.00	0.05
	CO (ppm)	--	No	11	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	11	20.9 to 20.9	20.9
	H <sub>2</sub> S (ppm)	0.1 ppm	No	11	0.0 to 0.0	0.0
	HCN (ppm)	1 ppm	No	11	0.0 to 0.0	0.0

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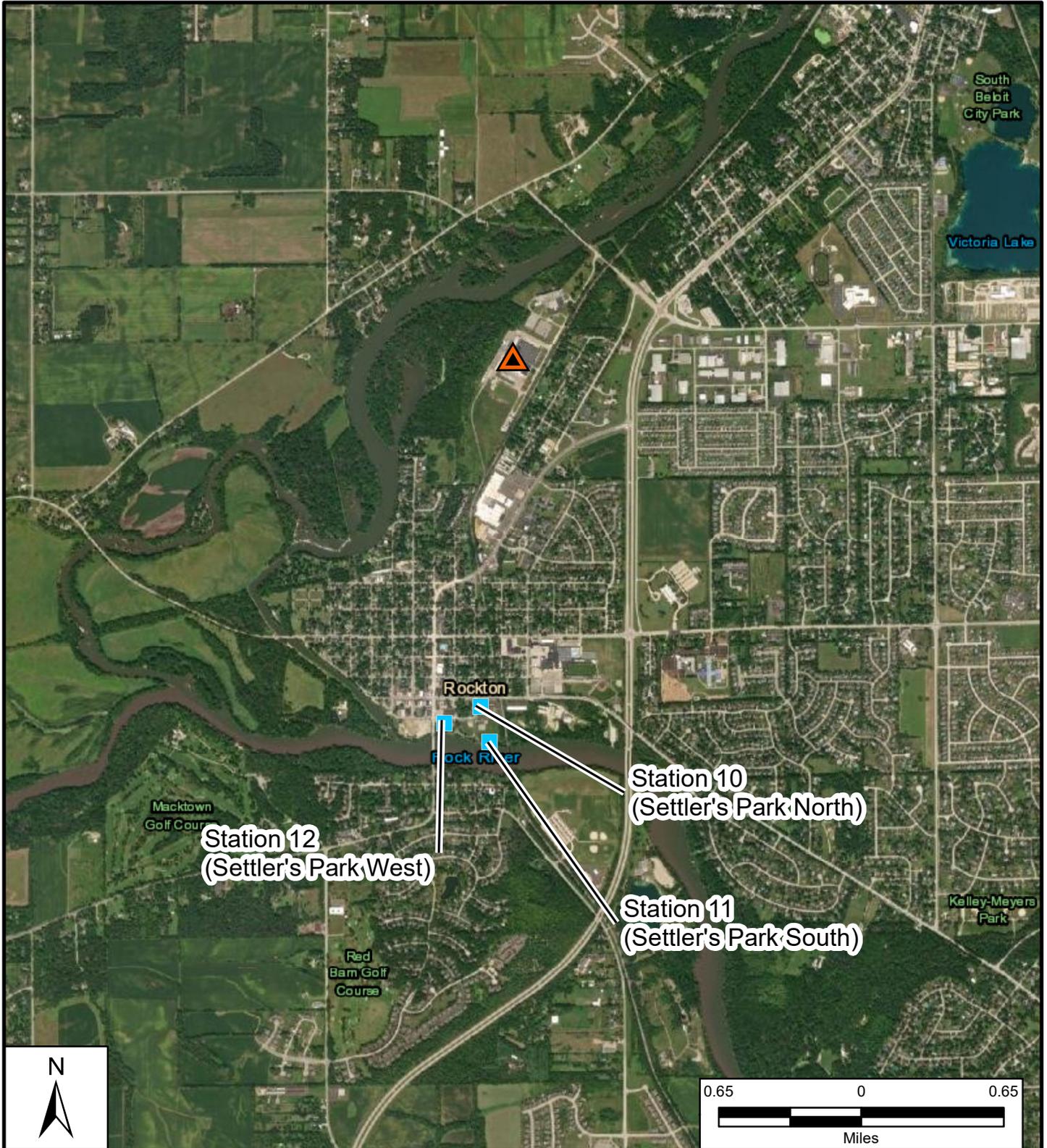
The tables below summarize preliminary air monitoring data collected using EPA Handheld DustTrak DRX instruments.

**Project Name:** Rockton Chemtool Fire ER  
**Date/Time:** 6/20/2021 09:45 to 15:55  
**Weather**  
**Temperature:** high of 78°F, low of 59°F  
**Wind Speed:** 0 to 6 miles per hour  
**Wind Direction:** South/Southwest  
**Conditions:** Overcast/Scattered Showers

The table below summarizes preliminary air monitoring data collected using Handheld DustTrak instruments.

Roaming Data					
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of Measurements	Concentration Range
Handheld DustTrak	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	8	0.000 to 0.001
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	8	0.000 to 0.001

Comments
Air monitoring measurements have been averaged over a 1-hour time period and summarized above.
Start and stop times for each air monitoring instrument varies. The monitoring period is based on the earliest start time and latest stop time out of all units.
1 - Chemtool Public Health Screening Levels are based on 1-hour time-weighted averages and were established by ATSDR
<b>Notes:</b> CO - Carbon Monoxide H2S - Hydrogen Sulfide O2 - Oxygen ppm - Parts per million VOC - Volatile organic compounds



Site Location

### Legend

-  Fire Location
-  EPA Air Monitoring Station

Note: Monitoring station locations subject to change based on weather and operational objectives

Source: Esri 2020

Rockton Chemtool Fire ER  
Rockton, IL

**Figure 1**  
**Settler's Park**  
**Air Monitoring Stations**



Prepared For: USEPA

Prepared By: Tetra Tech Inc.