

# Air Monitoring Summary Tables

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:** 06/16/21 15:57 to 06/17/21 06:27

**Weather**

**Temperature:** 53°, high of 82°  
**Wind Speed:** 0 - 5 miles per hour  
**Wind Direction:** East/Southeast  
 Partly Cloudy

Station 1: Roscoe Middle School						
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 206	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	11	0.005 to 0.009	0.007
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	11	0.006 to 0.010	0.007
AreaRAE 2 (S/N: 0641)	VOC (ppm)	1 ppm	No	12	0.5 to 0.6	0.6
	CO (ppm)	--	No	12	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	12	21.4 to 21.7	21.5
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	12	0.0 to 0.0	0.0

Station 4: Corner of Union and Ferry						
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 200	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	9	0.002 to 0.009	0.004
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	9	0.002 to 0.009	0.005
AreaRAE 2 (S/N: 2172)	VOC (ppm)	1 ppm	No	12	0.0 to 0.3	0.1
	CO (ppm)	--	No	12	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	12	20.9 to 22.5	21.5
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	12	0.0 to 0.0	0.0

Station 5: Stand alone area near stop sign on Chapel and Bridge St						
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
AreaRAE 2 (S/N: 0640)	VOC (ppm)	1 ppm	No	12	0.0 to 0.2	0.1
	CO (ppm)	--	No	12	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	12	20.5 to 22.0	21.0
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	12	0.0 to 0.0	0.0

Station 6: Corner of Union and Ferry						
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 212	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	11	0.003 to 0.007	0.005
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	11	0.003 to 0.007	0.005
AreaRAE 2 (S/N: 0643)	VOC (ppm)	1 ppm	No	11	0.3 to 0.4	0.3
	CO (ppm)	--	No	11	0.0 to 2.6	0.4
	O <sub>2</sub> (%)	--	No	11	20.3 to 22.1	20.7
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	11	0.0 to 0.0	0.0

Station 7: Trading Post Trail and Indian Trail						
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 205	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	12	0.003 to 0.008	0.006
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	12	0.003 to 0.009	0.006
AreaRAE 2 (S/N: 2168)	VOC (ppm)	1 ppm	No	13	0.0 to 0.0	0.0
	CO (ppm)	--	No	13	0.0 to 3.1	0.7
	O <sub>2</sub> (%)	--	No	13	20.2 to 30.0 *	24.4 *
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	13	0.0 to 0.0	0.0

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**Wind Direction:** East/Southeast  
 Partly Cloudy

Station 8: Corner of School and River Street						
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 203	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	11	0.004 to 0.005	0.005
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	11	0.004 to 0.087	0.012
AreaRAE 2 (S/N: 2169)	VOC (ppm)	1 ppm	No	11	0.0 to 0.0	0.0
	CO (ppm)	--	No	11	0.0 to 3.9	0.6
	O <sub>2</sub> (%)	--	No	11	20.9 to 21.9	21.3
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	11	0.0 to 0.0	0.0

Station 9: Uphill on School St						
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
AreaRAE 2 (S/N: 2170)	VOC (ppm)	1 ppm	No	11	0.0 to 50.2	26.8
	CO (ppm)	--	No	11	0.0 to 1.6	0.1
	O <sub>2</sub> (%)	--	No	11	0.0 to 20.7 *	11.6 *
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	11	0.0 to 0.0	0.0

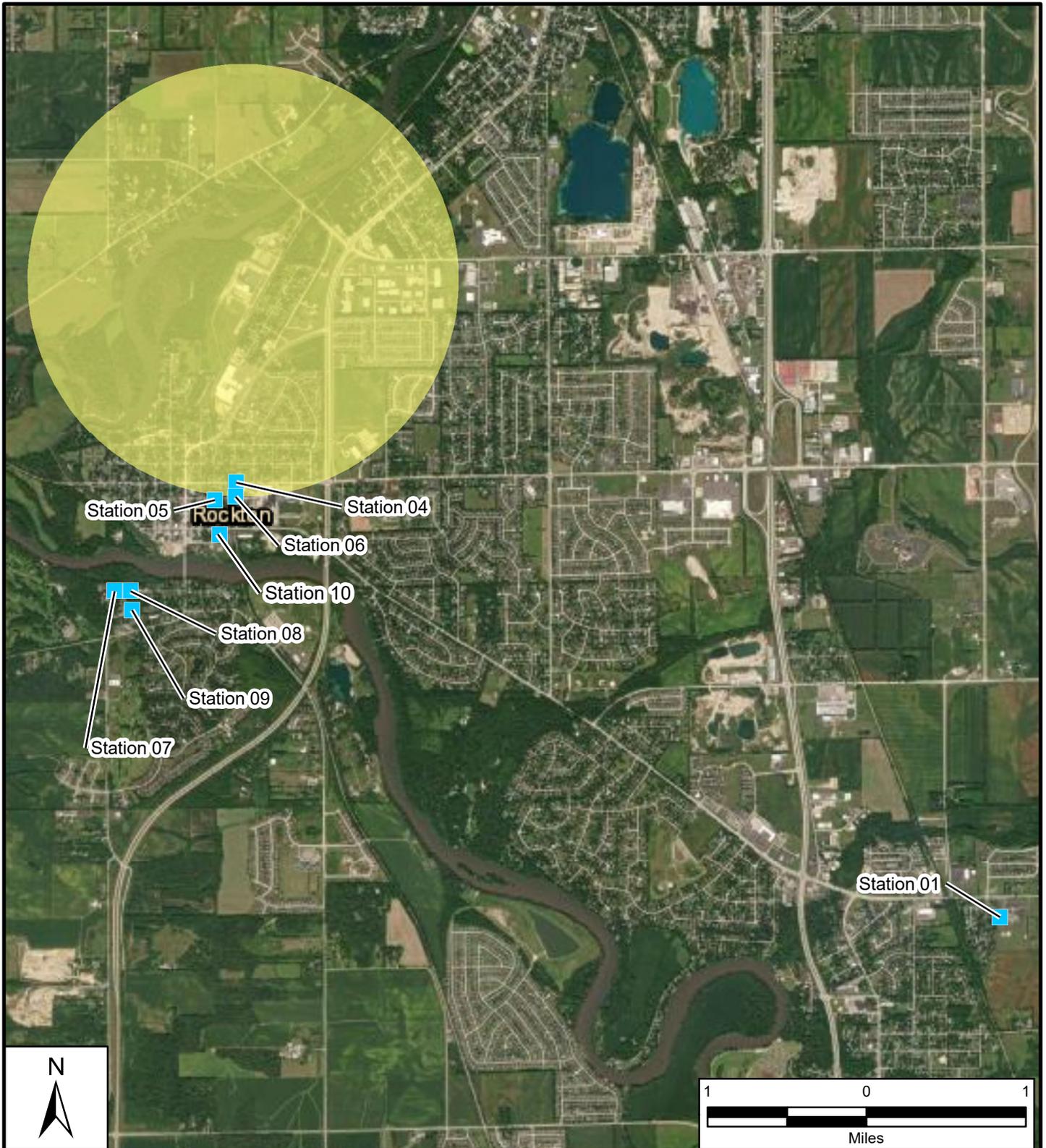
Station 10: Rockton Fairgrounds						
Instrument	Analyte	Chemtool Public Health Screening Level <sup>1</sup>	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak (S/N: 3913)	PM <sub>2.5</sub> (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup>	No	13	0.004 to 0.006	0.005
	PM <sub>10</sub> (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>	No	13	0.004 to 0.007	0.005
AreaRAE 2 (S/N: 0642)	VOC (ppm)	1 ppm	No	13	0.0 to 0.1	0.0
	CO (ppm)	--	No	13	0.0 to 0.0	0.0
	O <sub>2</sub> (%)	--	No	13	20.3 to 20.9	20.6
	H <sub>2</sub> S (ppm)	0.1 mg/m <sup>3</sup>	No	13	0.0 to 0.0	0.0

\* - Oxygen sensor experienced sensor drift. Oxygen level of approximately 20.9% verified by mobile MultiRAE Pro monitoring.

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

**Notes:**

- CO - Carbon Monoxide
- H<sub>2</sub>S - Hydrogen Sulfide
- O<sub>2</sub> - Oxygen
- ppm - Parts per million
- VOC - Volatile organic compounds



Site Location

### Legend

- EPA Air Monitoring Station
- 1 Mile Evacuation Radius

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

Source: Esri 2020

Rockton Chemtool Fire ER  
Rockton, IL

**Figure 1**  
**Air Monitoring Stations**  
**06/16/2021 1700 - 06/17/2021 0500**



Prepared For: USEPA

Prepared By: Tetra Tech Inc.