

# 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:** 06/18/21 10:40 to 06/18/21 19:36  
**Weather:**  
**Temperature:** 57.2°, high of 93.2°  
**Wind Speed:** 6 - 16 miles per hour  
**Wind Direction:** South/Southwest  
**Conditions:** Mostly Cloudy

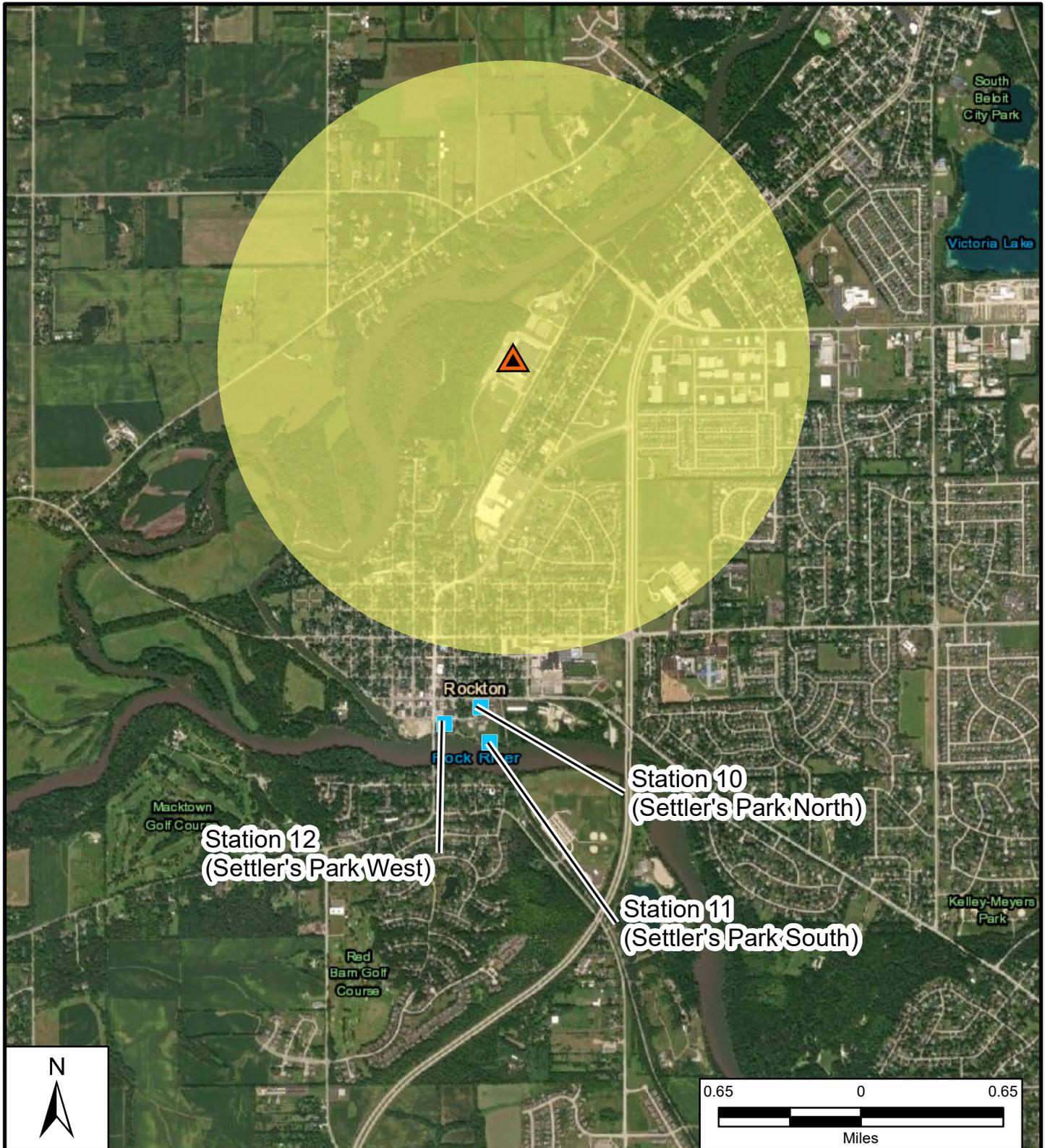
| Roaming Data |  |   |   |                          |                                   |                               |
|--------------|--|---|---|--------------------------|-----------------------------------|-------------------------------|
| Instrument   | Analyte                                | 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     | PM <sub>2.5</sub> (mg/m <sup>3</sup> ) | 0.025 mg/m <sup>3</sup>                             | No                                      | 3                        | 0.000 to 0.000                    | 0.000                         |
|              | PM <sub>10</sub> (mg/m <sup>3</sup> )  | 0.05 mg/m <sup>3</sup>                              | No                                      | 3                        | 0.000 to 0.000                    | 0.000                         |

| 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                             | PM <sub>2.5</sub> (mg/m <sup>3</sup> ) | 0.025 mg/m <sup>3</sup>                             | No                                      | 5                        | 0.004 to 0.012                    | 0.007                         |
|                                      | PM <sub>10</sub> (mg/m <sup>3</sup> )  | 0.05 mg/m <sup>3</sup>                              | No                                      | 5                        | 0.004 to 0.012                    | 0.007                         |
| AreaRAE Pro (S/N: 2168)              | VOC (ppm)                              | 1 ppm   | No                                      | 5                        | 0.00 to 0.00                      | 0.07                          |
|                                      | CO (ppm)                               | --  | No                                      | 5                        | 0.0 to 6.2                        | 3.4                           |
|                                      | O <sub>2</sub> (%)                     | --  | No                                      | 5                        | 20.6 to 20.9                      | 20.8                          |
|                                      | H <sub>2</sub> S (ppm)                 | 0.1 mg/m <sup>3</sup>                               | No                                      | 5                        | 0.0 to 0.0                        | 0.0                           |

| 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                              | PM <sub>2.5</sub> (mg/m <sup>3</sup> ) | 0.025 mg/m <sup>3</sup>                             | No                                      | 5                        | 0.002 to 0.008                    | 0.004                         |
|                                       | PM <sub>10</sub> (mg/m <sup>3</sup> )  | 0.05 mg/m <sup>3</sup>                              | No                                      | 5                        | 0.003 to 0.009                    | 0.004                         |
| AreaRAE Pro (S/N: 2169)               | VOC (ppm)                              | 1 ppm   | No                                      | 6                        | 0.00 to 0.00                      | 0.00                          |
|                                       | CO (ppm)                               | --  | No                                      | 6                        | 0.0 to 3.5                        | 1.3                           |
|                                       | O <sub>2</sub> (%)                     | --  | No                                      | 6                        | 20.3 to 20.3                      | 20.3                          |
|                                       | H <sub>2</sub> S (ppm)                 | 0.1 mg/m <sup>3</sup>                               | No                                      | 6                        | 0.0 to 0.0                        | 0.0                           |

| 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                              | PM <sub>2.5</sub> (mg/m <sup>3</sup> ) | 0.025 mg/m <sup>3</sup>                             | No                                      | 10                       | 0.000 to 0.013                    | 0.005                         |
|                                       | PM <sub>10</sub> (mg/m <sup>3</sup> )  | 0.05 mg/m <sup>3</sup>                              | No                                      | 10                       | 0.000 to 0.015                    | 0.006                         |
| AreaRAE Pro (S/N: 0642)               | VOC (ppm)                              | 1 ppm   | No                                      | 6                        | 0.00 to 0.01                      | 0.00                          |
|                                       | CO (ppm)                               | --  | No                                      | 6                        | 0.0 to 2.3                        | 0.5                           |
|                                       | O <sub>2</sub> (%)                     | --  | No                                      | 6                        | 20.3 to 21.2                      | 20.7                          |
|                                       | H <sub>2</sub> S (ppm)                 | 0.1 mg/m <sup>3</sup>                               | No                                      | 6                        | 0.0 to 0.0                        | 0.0                           |

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



**Legend**

-  Fire Location
-  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**  
**Settler's Park**  
**Air Monitoring Stations**



Prepared For: USEPA

Prepared By: Tetra Tech Inc.