

Air Monitoring Summary Tables: Old Settlers Days 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: 06/17/21 03:00 to 06/18/21 01:53

Weather

Temperature: 68°, high of 93.2°

Wind Speed: 9 - 18 miles per hour

Wind Direction: Variable winds, shifting from south/southwest 6/16 am to north and south/southeast 6/17 pm

Conditions: Mostly Cloudy with Scattered Showers

Fixed Station 12: Rockton Fairgrounds West						
Instrument	Analyte	Chemtool Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	8	0.005 to 0.013	0.009
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	8	0.005 to 0.014	0.010
AreaRAE Pro (S/N: 2168)	VOC (ppm)	1 ppm	No	9	0.0 to 0.0	0.0
	CO (ppm)	--	No	9	0.0 to 5.0	2.0
	O ₂ (%)	--	No	9	20.9 to 21.3	21.1
	H ₂ S (ppm)	0.1 mg/m ³	No	9	0.0 to 0.0	0.0

Fixed Station 11: Rockton Fairgrounds						
Instrument	Analyte	Chemtool Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	5	0.008 to 0.014	0.011
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	5	0.008 to 0.015	0.012
AreaRAE Pro (S/N: 2169)	VOC (ppm)	1 ppm	No	9	0.0 to 0.1	0.0
	CO (ppm)	--	No	9	0.0 to 2.9	0.4
	O ₂ (%)	--	No	9	20.3 to 20.7	20.4
	H ₂ S (ppm)	0.1 mg/m ³	No	9	0.0 to 0.0	0.0

Fixed Station 10: Rockton Fairgrounds North						
Instrument	Analyte	Chemtool Public Health Screening Level ¹	Public Health Screening Level Exceeded?	Number of 1-Hour Periods	1-Hour Period Concentration Range	Average of All 1-Hour Periods
DustTrak	PM _{2.5} (mg/m ³)	0.025 mg/m ³	No	14	0.004 to 0.012	0.007
	PM ₁₀ (mg/m ³)	0.05 mg/m ³	No	14	0.004 to 0.014	0.008
AreaRAE Pro (S/N: 0642)	VOC (ppm)	1 ppm	No	19	0.0 to 0.1	0.0
	CO (ppm)	--	No	19	0.0 to 0.0	0.0
	O ₂ (%)	--	No	19	20.3 to 20.9	20.7
	H ₂ S (ppm)	0.1 mg/m ³	No	19	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.

Notes

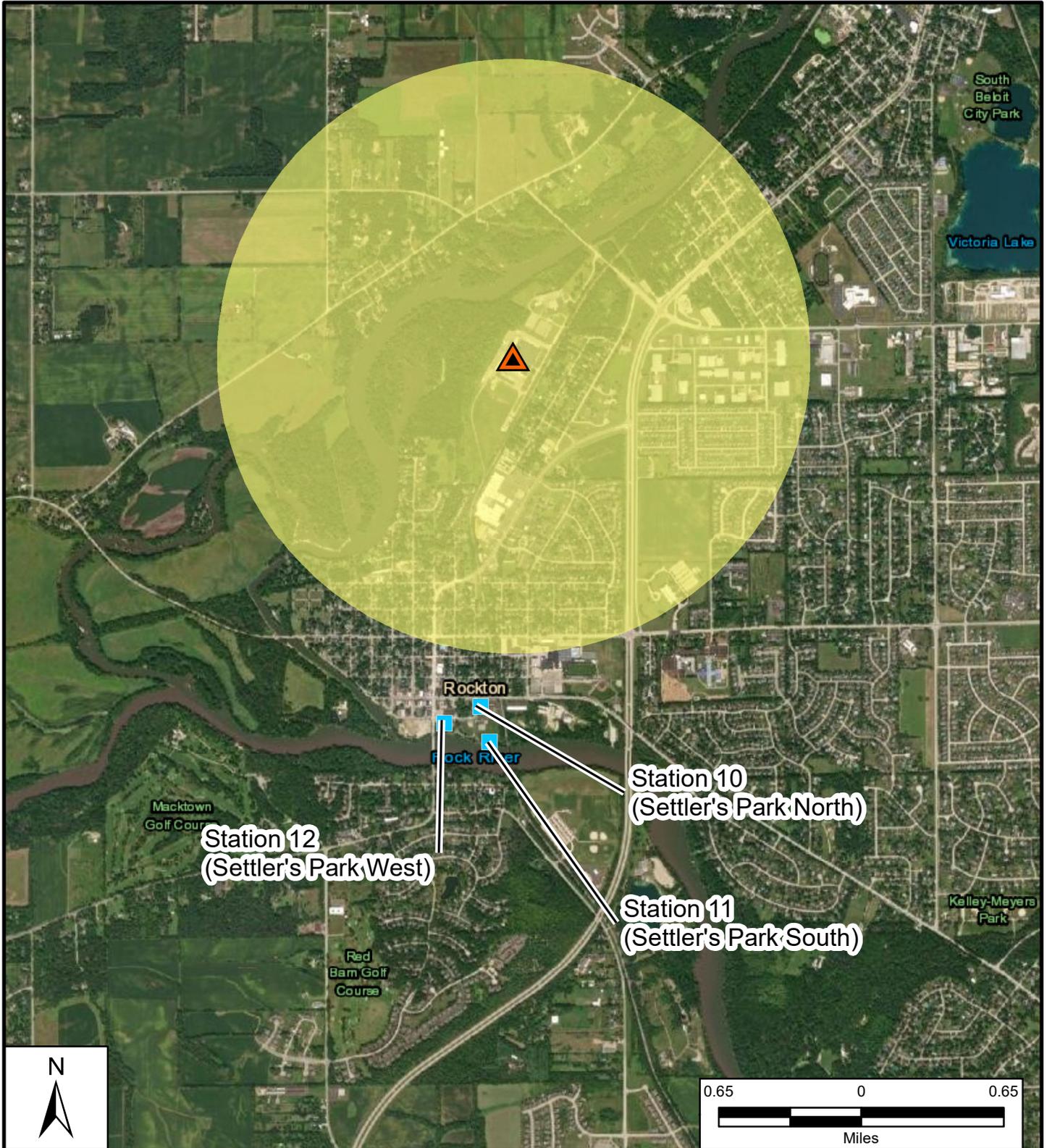
CO - Carbon Monoxide

H₂S - Hydrogen Sulfide

O₂ - Oxygen

ppm - Parts per million

VOC - Volatile organic compounds



Site Location

Legend

-  Fire Location
-  EPA Air Monitoring Station
-  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

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