

FINAL
U.S. ENVIRONMENTAL PROTECTION AGENCY
Region VI



Air Monitoring Summary

Camp Minden Area I

Start Time: 10-27-2016 1800 - End Time: 10-28-2016 1800

October 28, 2016 – EPA monitored for seven ambient air pollutants over a 24 hour period at the Camp Minden Area I air monitoring location. The seven pollutants included carbon monoxide, carbon dioxide, nitrogen oxide, nitrogen dioxide, nitrogen oxides, sulfur dioxide, and fine particulates. Over the 24 hour period, each of these pollutants were detected below EPA’s National Ambient Air Quality Standards or the action benchmark when an air quality standard had not been previously established.

Below is a summary of Camp Minden Air Monitoring Data collected at the location referenced above. The table contains a detailed listing of the following:

- 1 Average reading of each analyte from October 27, 2016 1800 through October 28, 2016, 2016 1800
- 2 Highest measurement of each analyte from October 27, 2016 1800 through October 28, 2016 1800

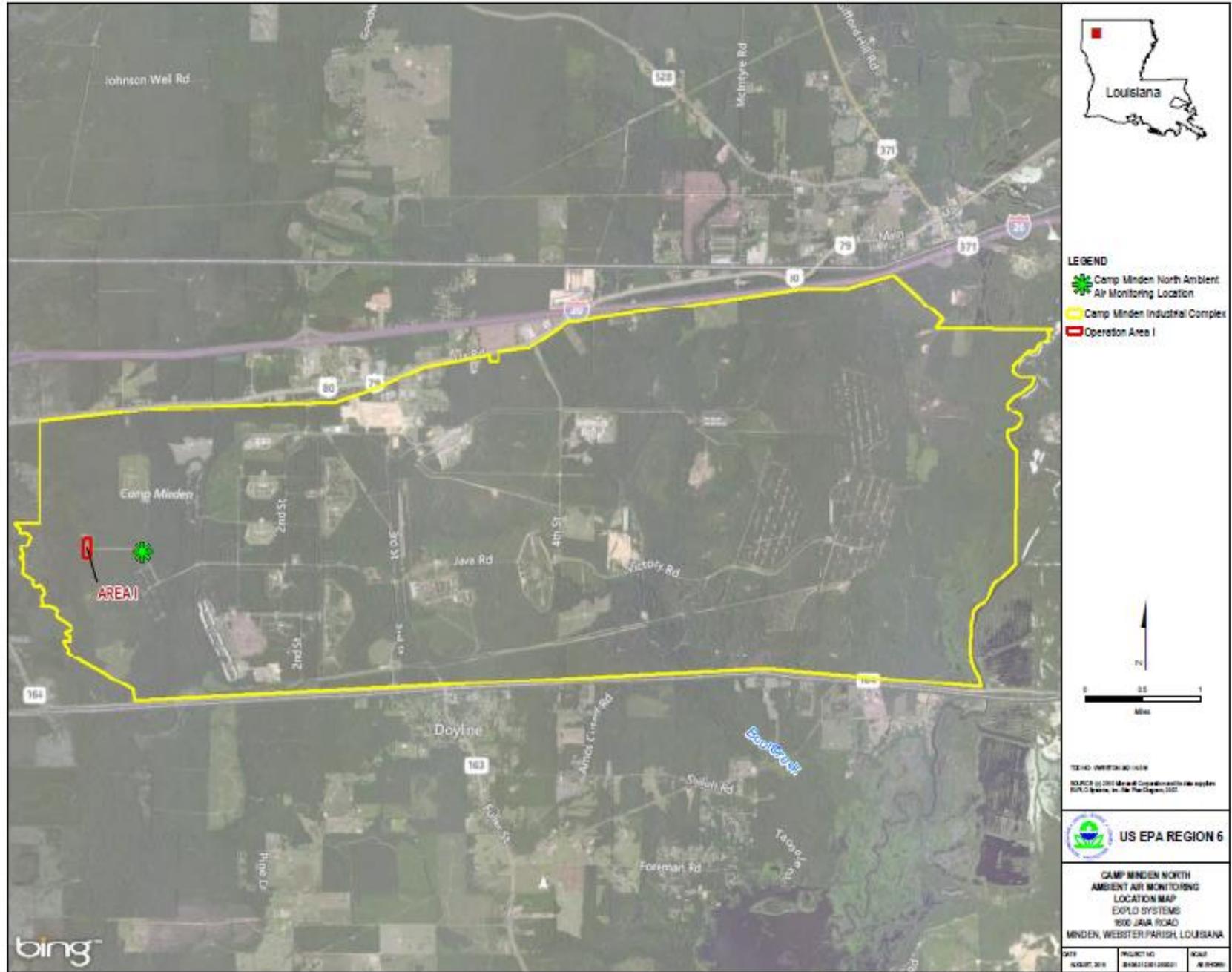
National Ambient Air Quality Standards (NAAQS) of criteria pollutants (CO, NO₂, SO₂, and PM_{2.5}) are listed with specific time frames and calculation formulas. Please visit NAAQS website for more in-depth information on how these are calculated - <https://www.epa.gov/criteria-air-pollutants/naqs-table>.

** There were periods of elevated gaseous pollutant levels from 1019 – 1025, 1313 - 1322, and 1329 - 1336 CDT on 10/28. NO_x was the pollutant showing the greatest fluctuation. Peak 1-minute NO_x reached 68.2 ppb during the first event, then approx. 60 ppb and 40 ppb for the remaining two periods, respectively. There were lesser relative magnitude increases in the other pollutants, with SO₂ showing least variation. Winds (1-minute average) were S – SE at < 2 mph during the first period, and SE – SW at 2 – 6 mph during the other two periods. The monitoring trailer is located approx. 0.3 miles NNW (350 deg) from the L4 burn area; based on wind directions, the two elevated events between 1300 and 1400 CDT are potentially associated with the CBI removal burn.

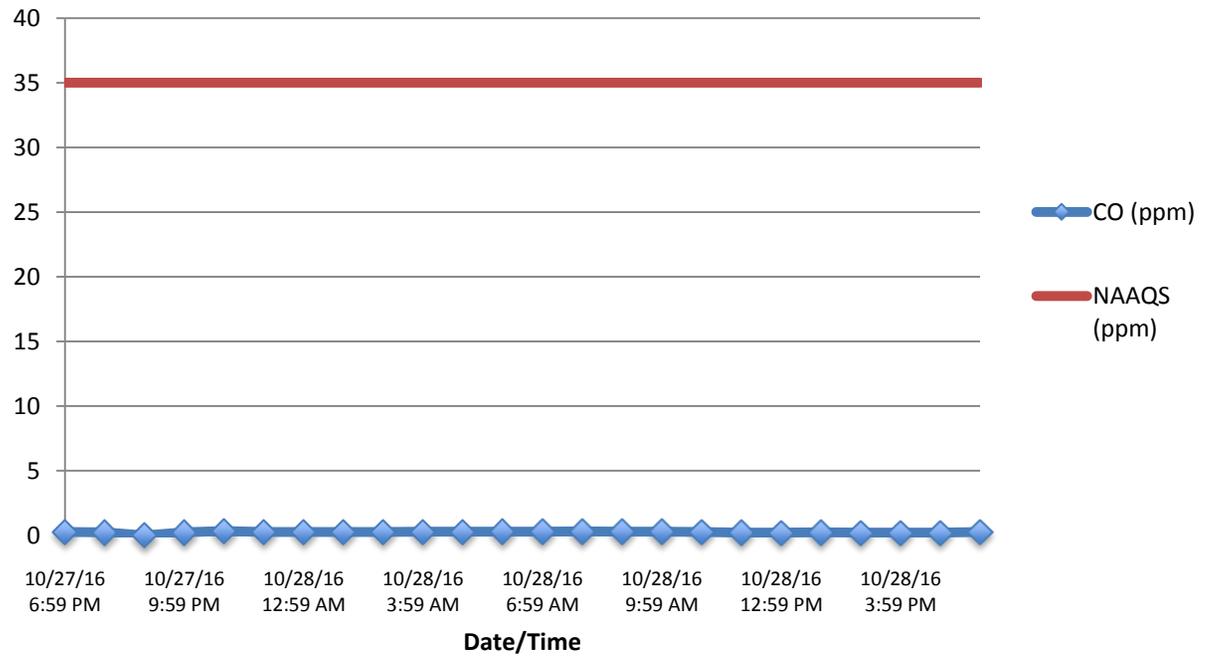
Summary for 28 October 2016 at Camp Minden Area I

Analyte	Highest Hourly Average Measurement	Highest Measurement	Units	NAAQS Standard
CO	0.329	3.644	ppm	35 (1-hour)
CO2	592.5	618.7	ppm	For Monitoring Only
NO	4.3	41.9	ppb	For Monitoring Only
NO2	5.1	33	ppb	100 (1-hour)
NOX	8.4	75	ppb	100 (1-hour)
SO2	1.6	2	ppb	75 (1-hour)
Analyte	Average 24-hour Measurement	Highest Measurement	Units	NAAQS Standard
PM 2.5	17.86	49	ug/m3	35 (24-hour)

Camp Minden Area I Station Location Map for 28 October 2016

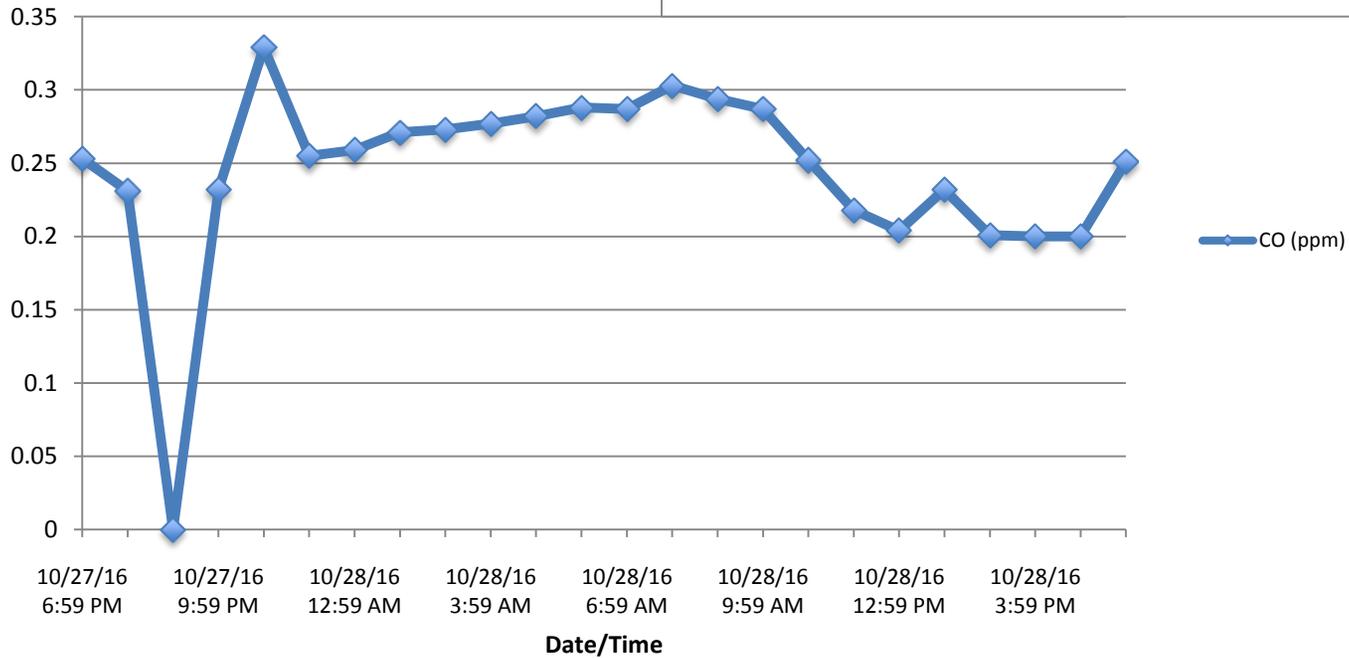


Hourly Averages CO (ppm)

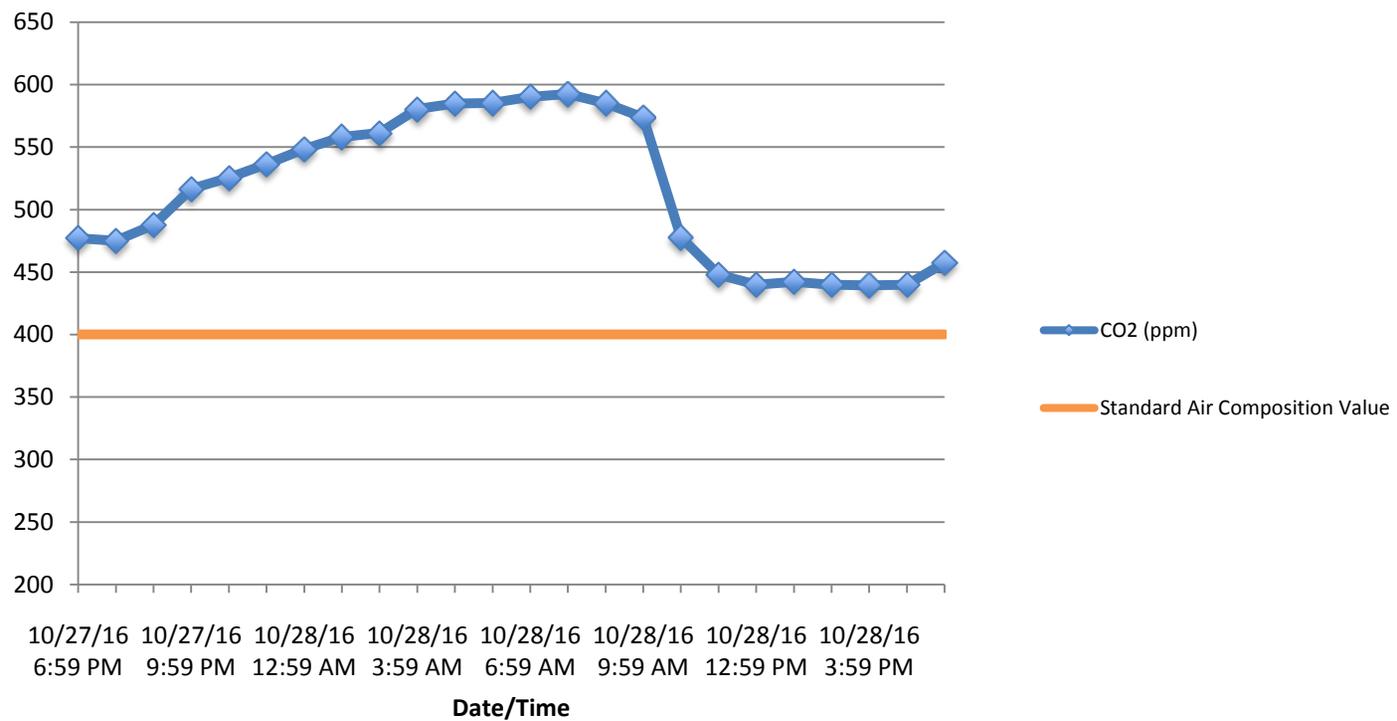


Hourly Averages CO (ppm)

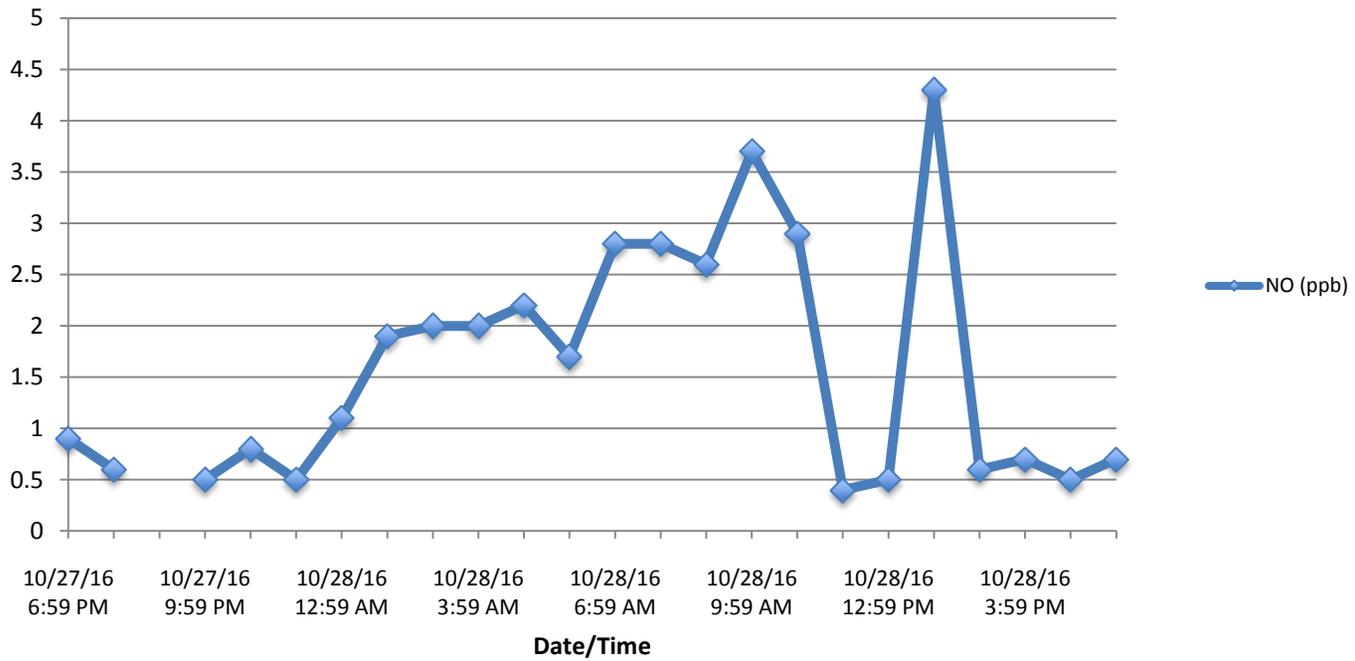
NAAQS 35 ppm



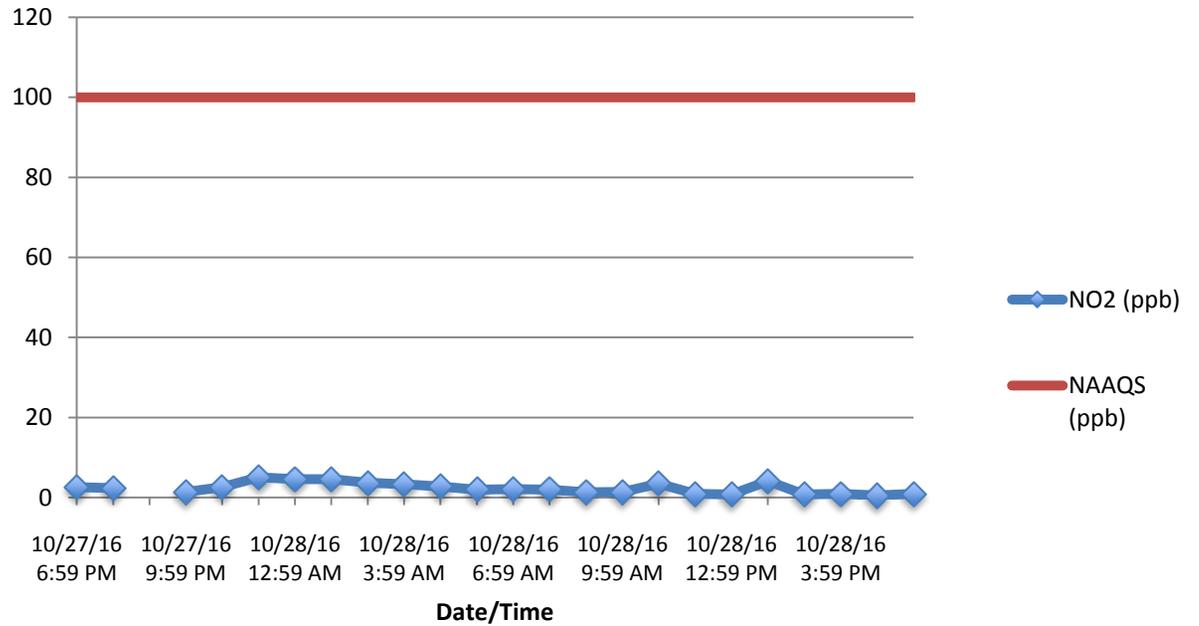
Hourly Averages CO2 (ppm) For Monitoring Only



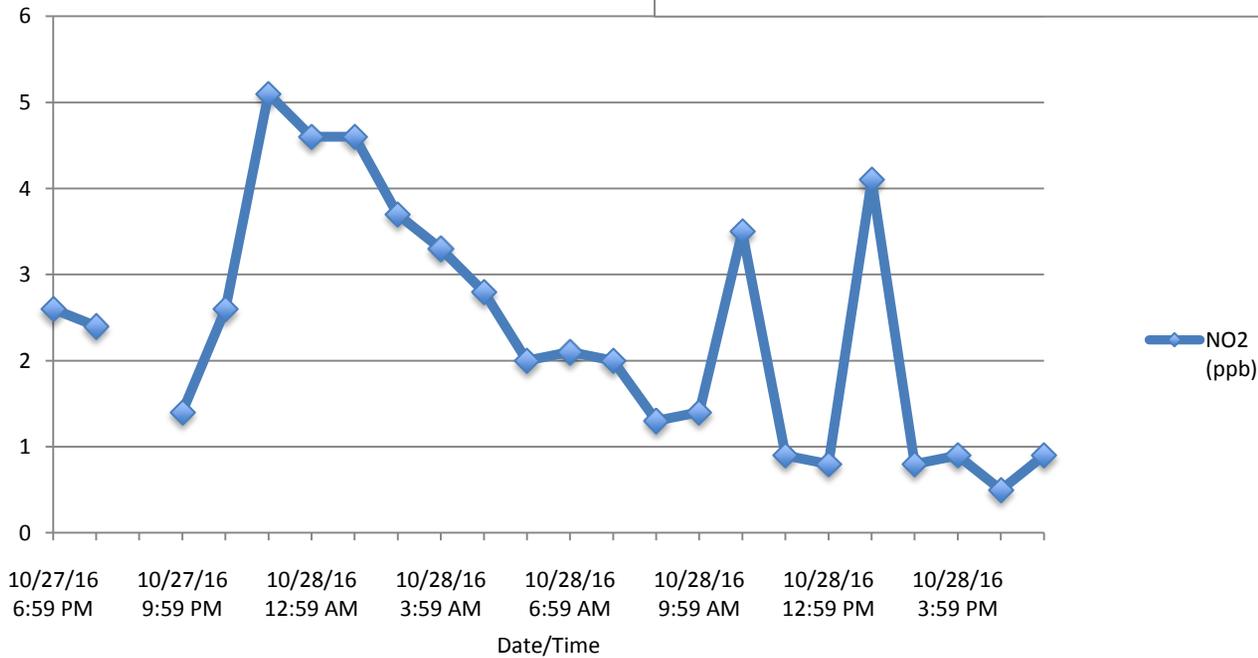
Hourly Averages NO (ppb) For Monitoring Only



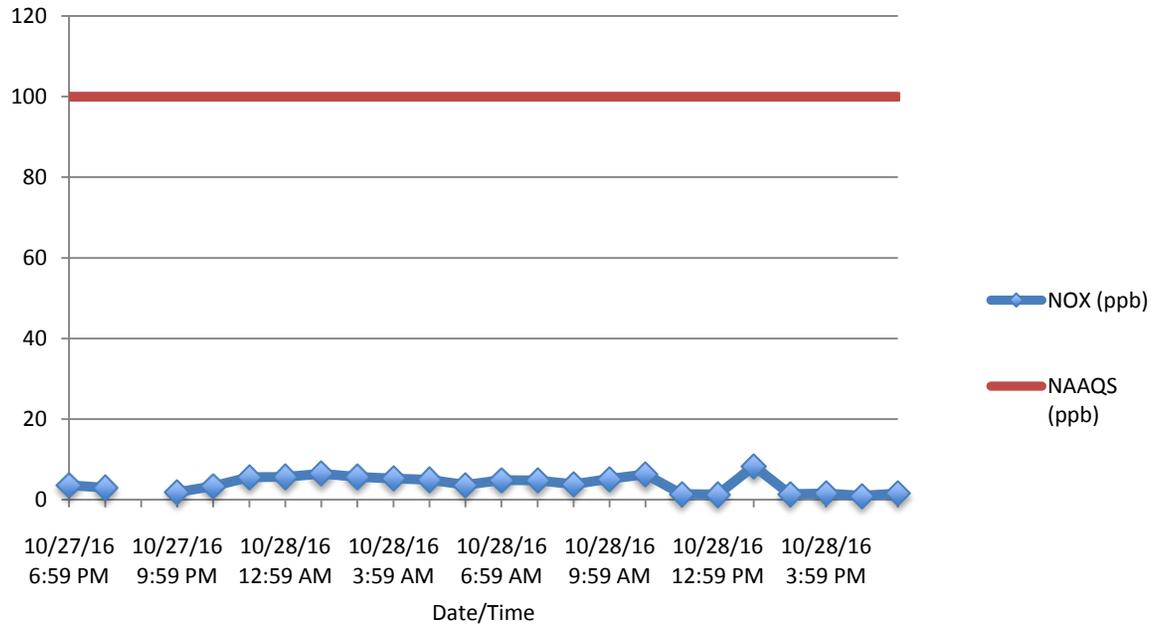
Hourly Averages NO2 (ppb)



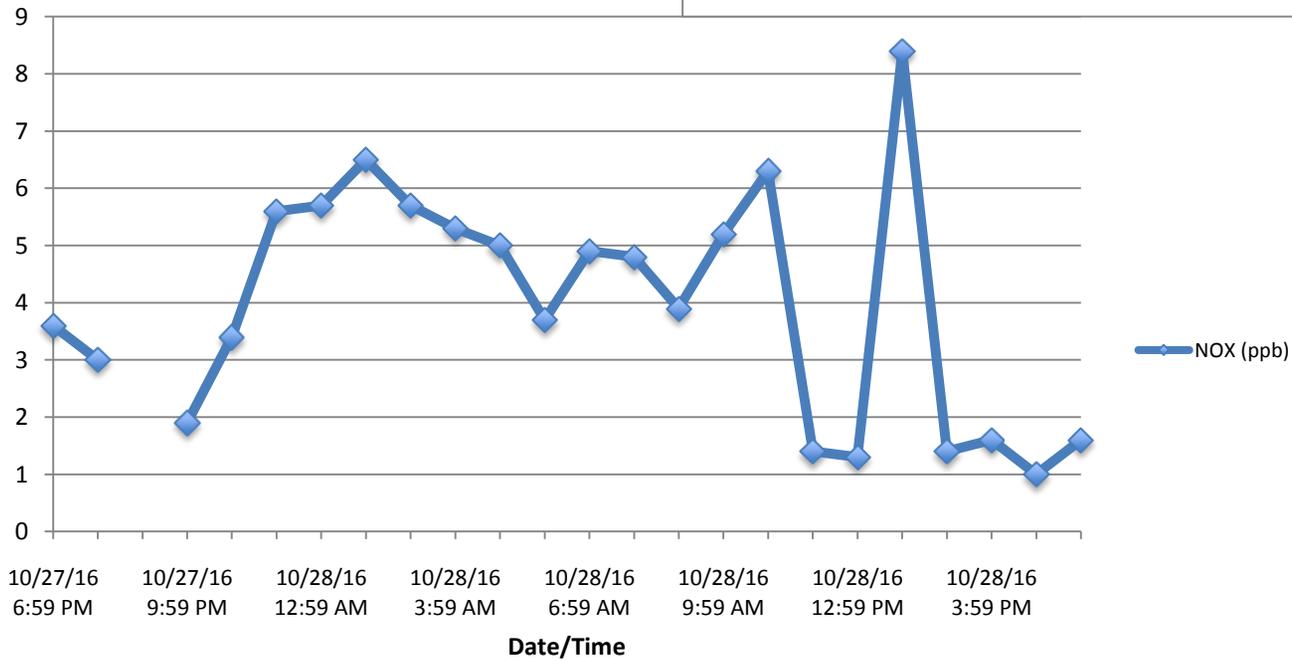
Hourly Averages NO2 (ppb) NAAQS 100 ppb



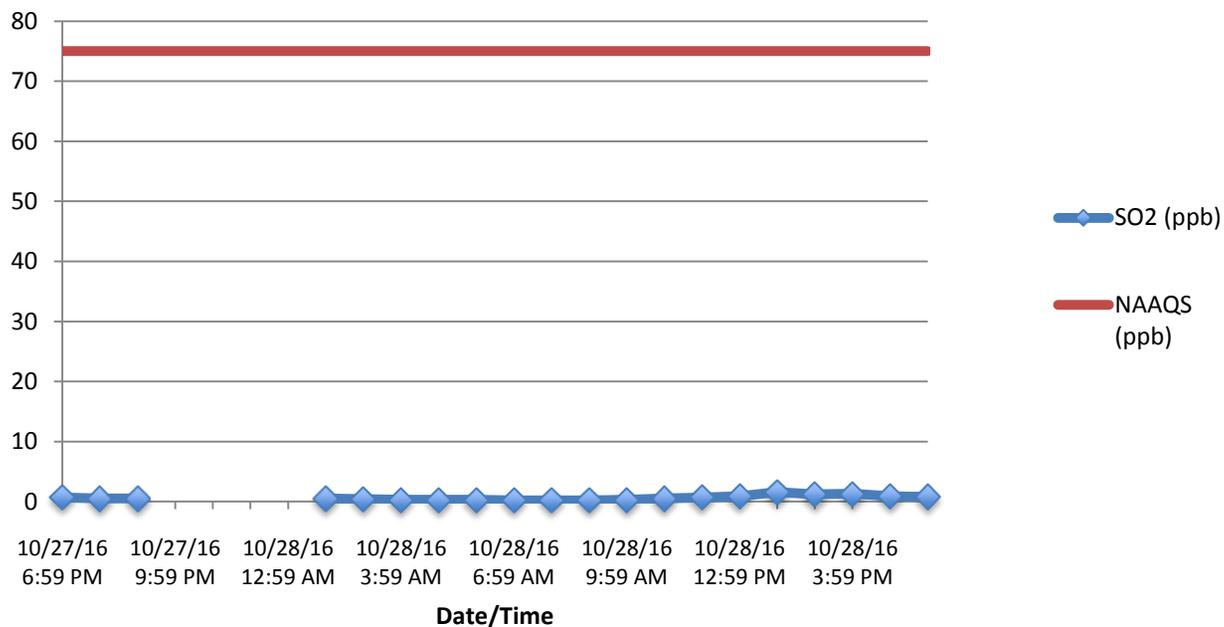
Hourly Averages NOX (ppb)



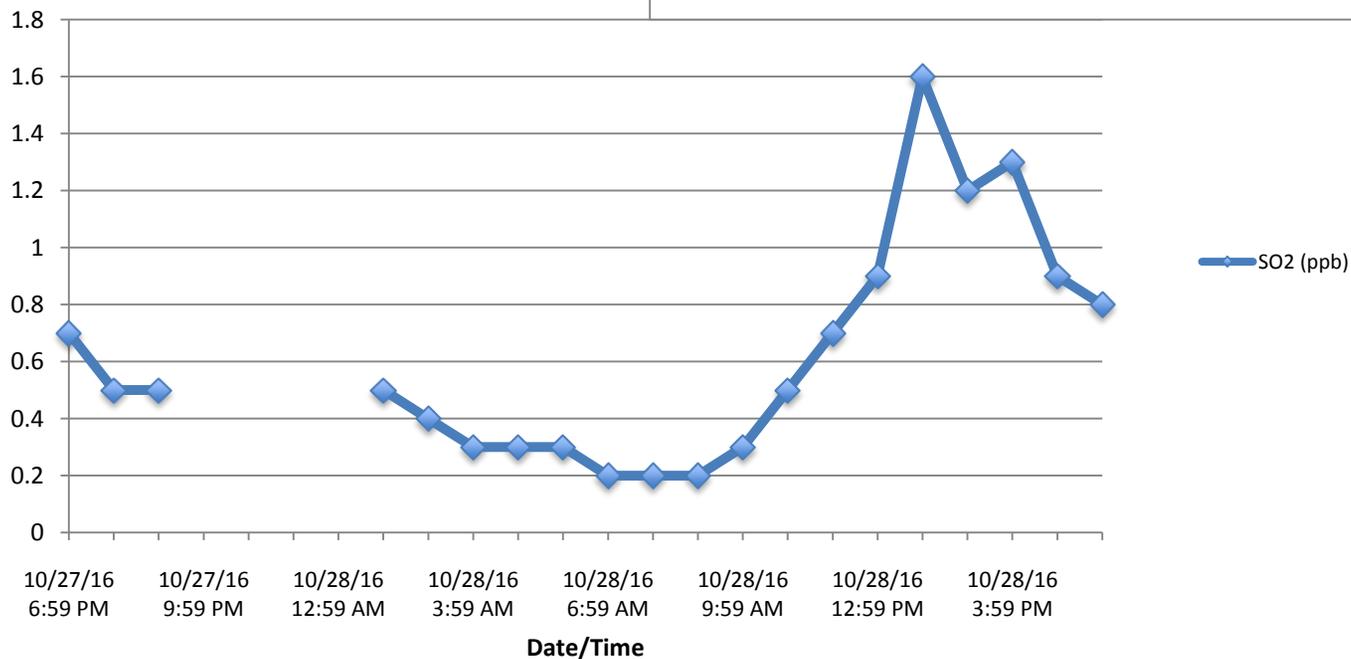
Hourly Averages NOX (ppb) NAAQS 100 ppb



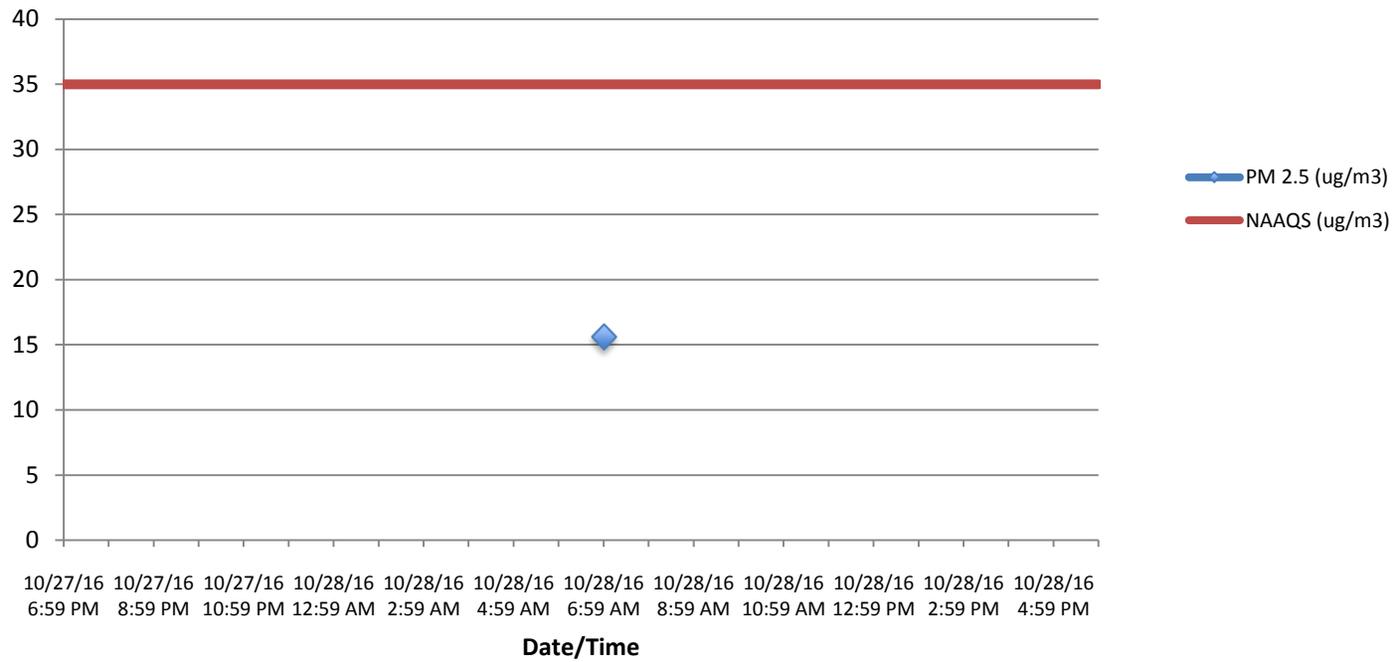
Hourly Averages SO2 (ppb)



Hourly Averages SO2 (ppb) NAAQS 75 ppb



24 Hour Average PM 2.5 (ug/m3) NAAQS 35 ug/m3



Hourly Averages PM 2.5 (ug/m3)

