

FINAL
U.S. ENVIRONMENTAL PROTECTION AGENCY
Region VI



Air Monitoring Summary

Camp Minden Area I

Start Time: 11-13-2016 1800 - End Time: 11-14-2016 1800

November 14, 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 November 13, 2016 1800 through November 14, 2016, 2016 1800
- 2 Highest measurement of each analyte from November 13, 2016 1800 through November 14, 2016 1800

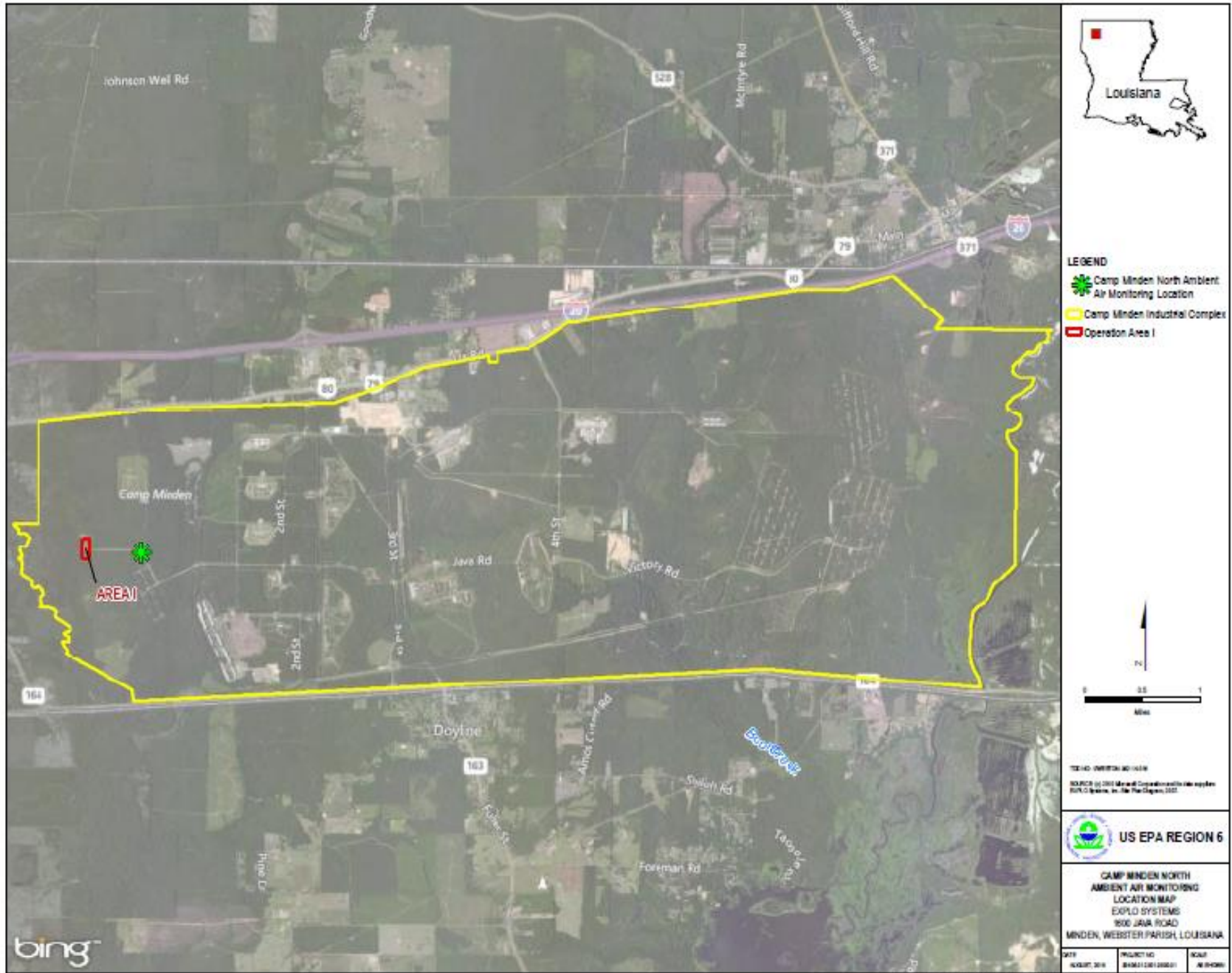
National Ambient Air Quality Standards (NAAQS) of criteria pollutants (CO, NO₂, SO₂, and PM_{2.5}) are listed with specific time frames and calculation formulas. Please visit NAAQS website for more in-depth information on how these are calculated - <https://www.epa.gov/criteria-air-pollutants/naqs-table>.

**The monitoring database has been validated for calendar day 11/14/16 (through 00:00 11/15/16 CST). All analyzers were operating normally. There was a spike in PM_{2.5} data from a steady baseline of approx. 8 ug/m³ to 62.7 ug/m³ for single hour at 1000 CST. No other analyzers registered above baseline concentrations during that hour; no unusual site activity was noted. The trailer temperature increased by approximately 6 C (12 F) during that hour, due to solar heating of trailer after overnight cooling; climate control set for cooling to maintain daytime temperatures. The PM_{2.5} spike is likely to have been at least partly due to the temperature fluctuation, since the BAM instrument can be affected by shelter temperature changes of more than 2 C in an hour. The 1000 hour data were conservatively retained, but the possible instrument bias should be noted. With the spike included, the 24 hr average PM_{2.5} concentration was 11.3 ug/m³. The station logger was reset to clear Modbus at 0704 and 1501 CST.

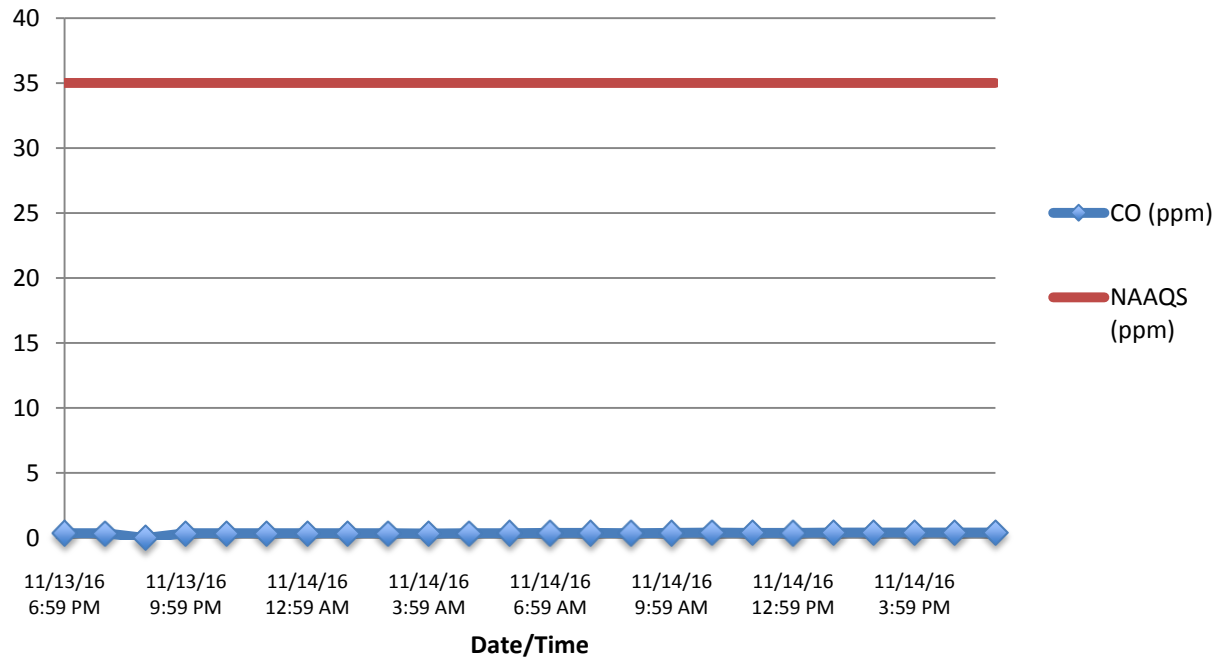
Summary for 14 November 2016 at Camp Minden Area I

Analyte	Highest Hourly Average Measurement	Highest Measurement	Units	NAAQS Standard
CO	0.411	1.688	ppm	35 (1-hour)
CO2	529.3	540.1	ppm	For Monitoring Only
NO	2.2	12.5	ppb	For Monitoring Only
NO2	3.1	18.5	ppb	100 (1-hour)
NOX	4.4	27.8	ppb	100 (1-hour)
SO2	0.8	1.5	ppb	75 (1-hour)
Analyte	Average 24-hour Measurement	Highest Measurement	Units	NAAQS Standard
PM 2.5	9.38	62.7	ug/m3	35 (24-hour)

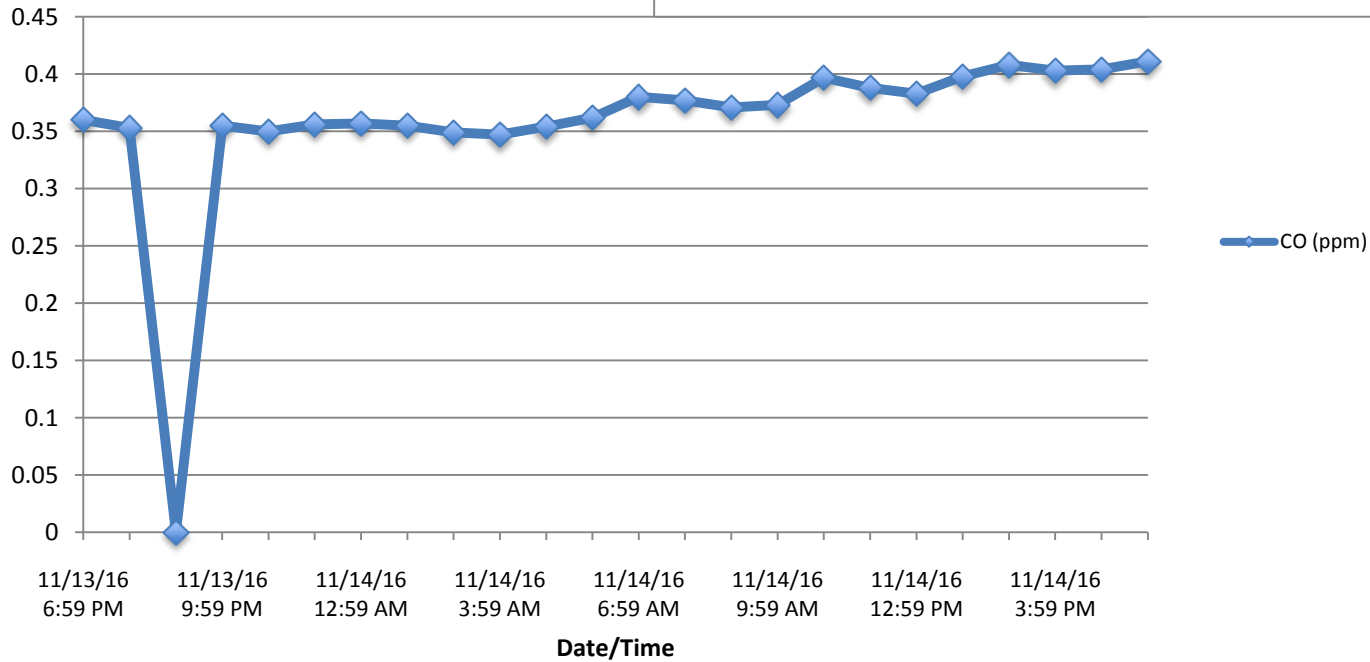
Camp Minden Area I Station Location Map for 14 November 2016



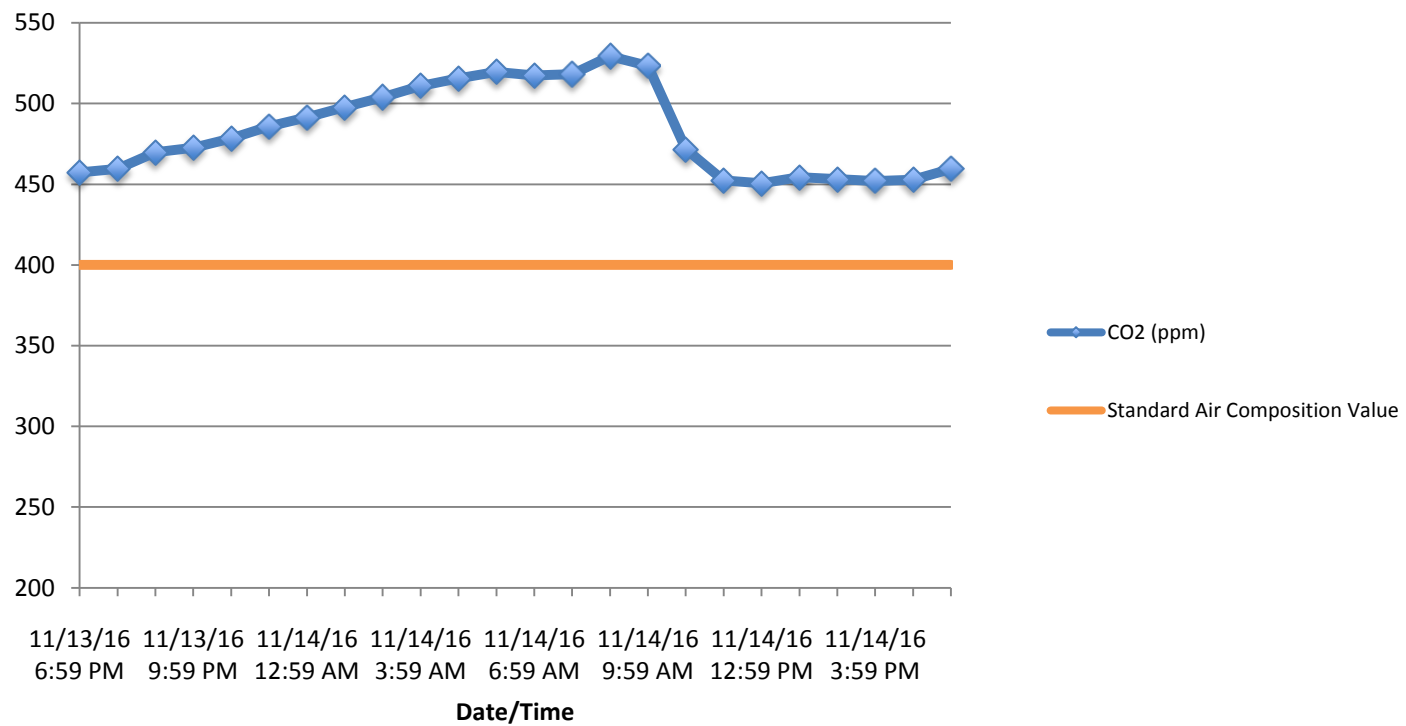
Hourly Averages CO (ppm)



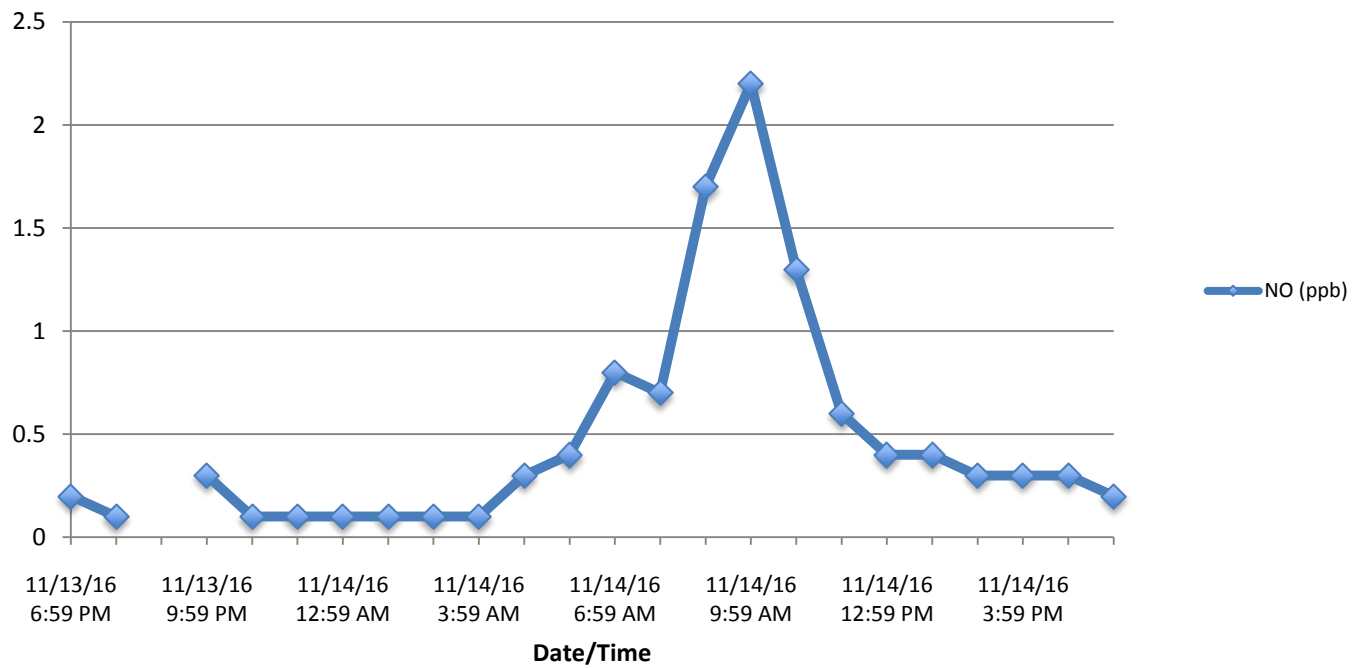
Hourly Averages CO (ppm) NAAQS 35 ppm



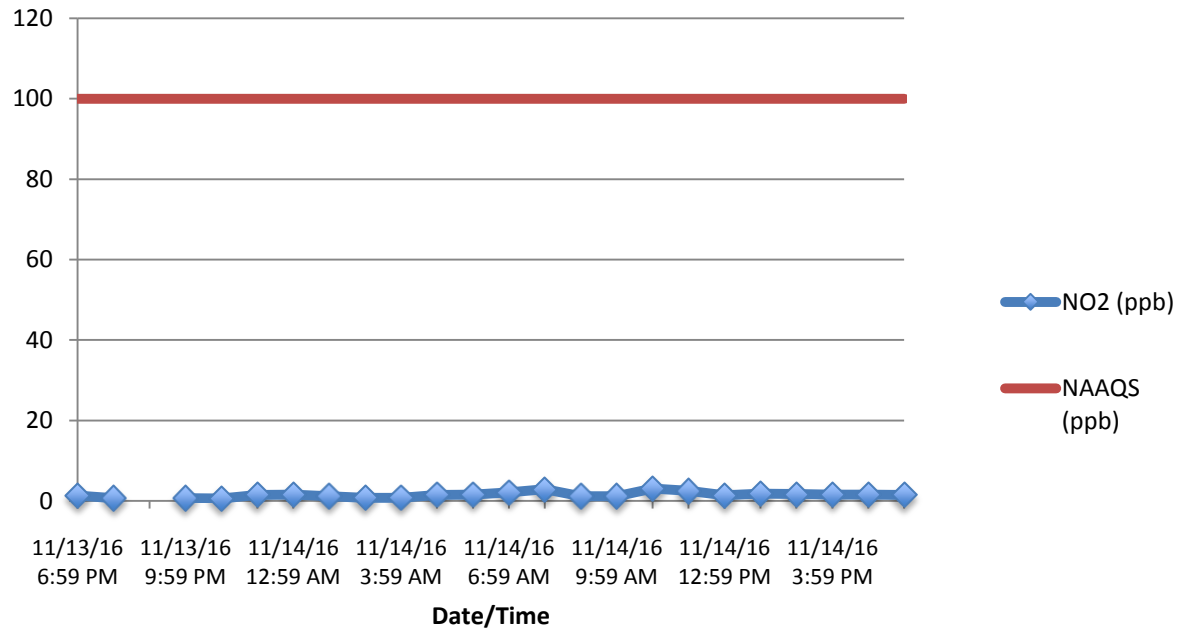
Hourly Averages CO2 (ppm) For Monitoring Only



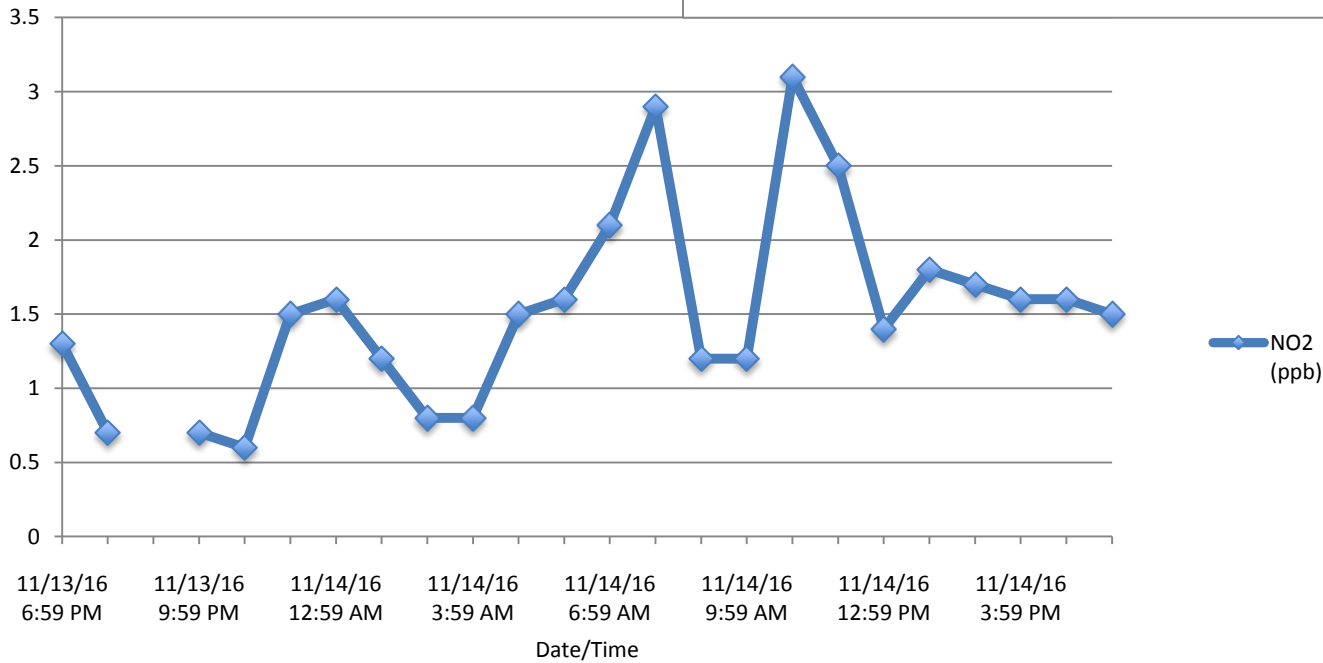
Hourly Averages NO (ppb) For Monitoring Only



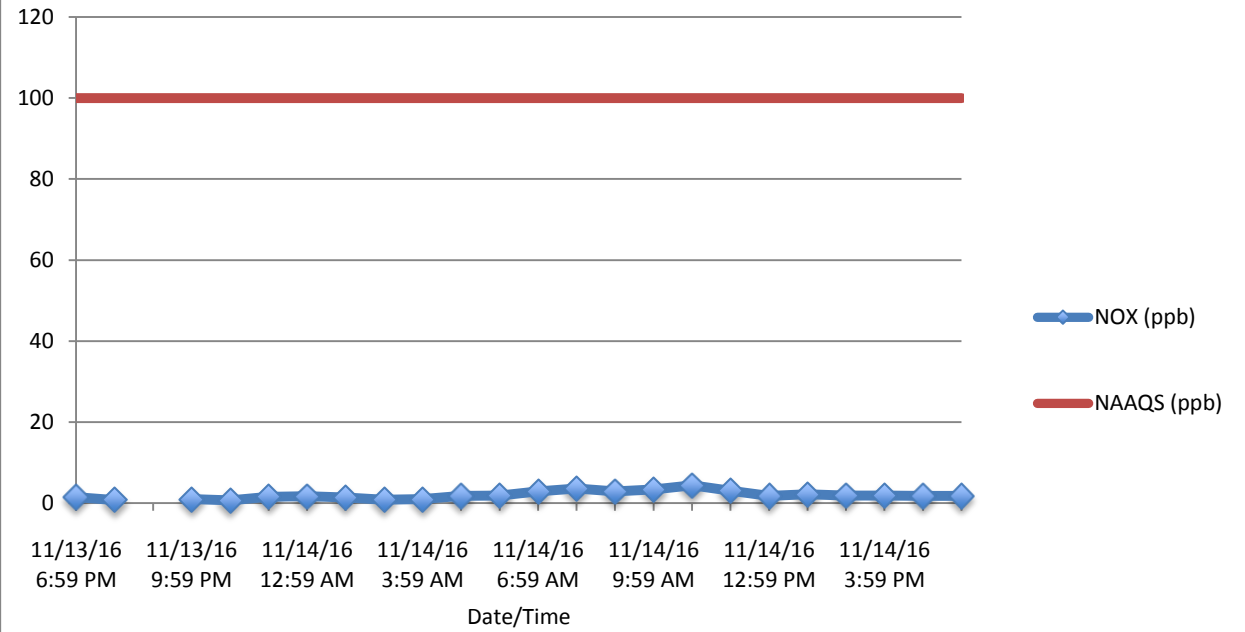
Hourly Averages NO2 (ppb)



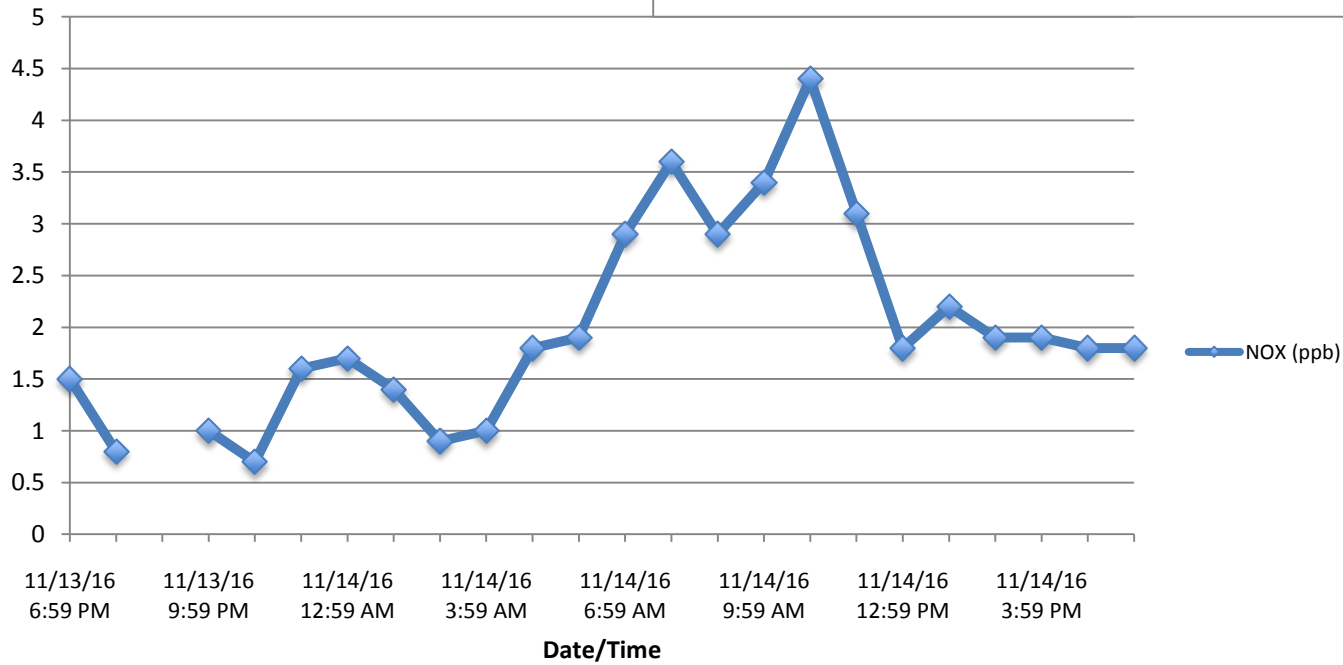
Hourly Averages NO2 (ppb) NAAQS 100 ppb



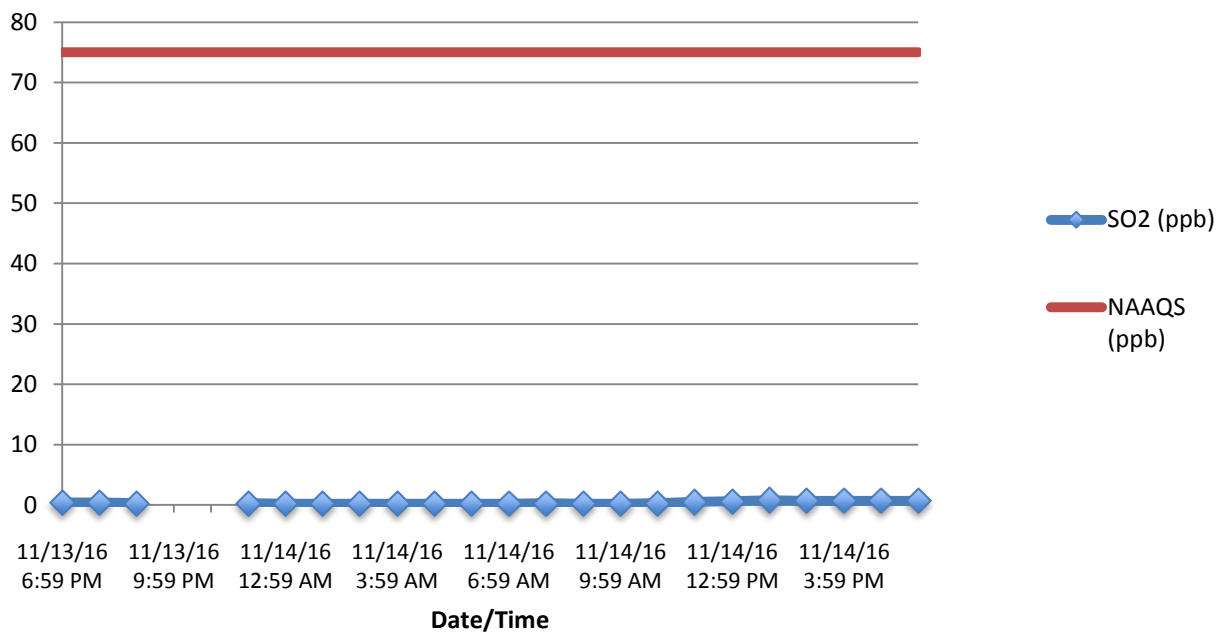
Hourly Averages NOX (ppb)



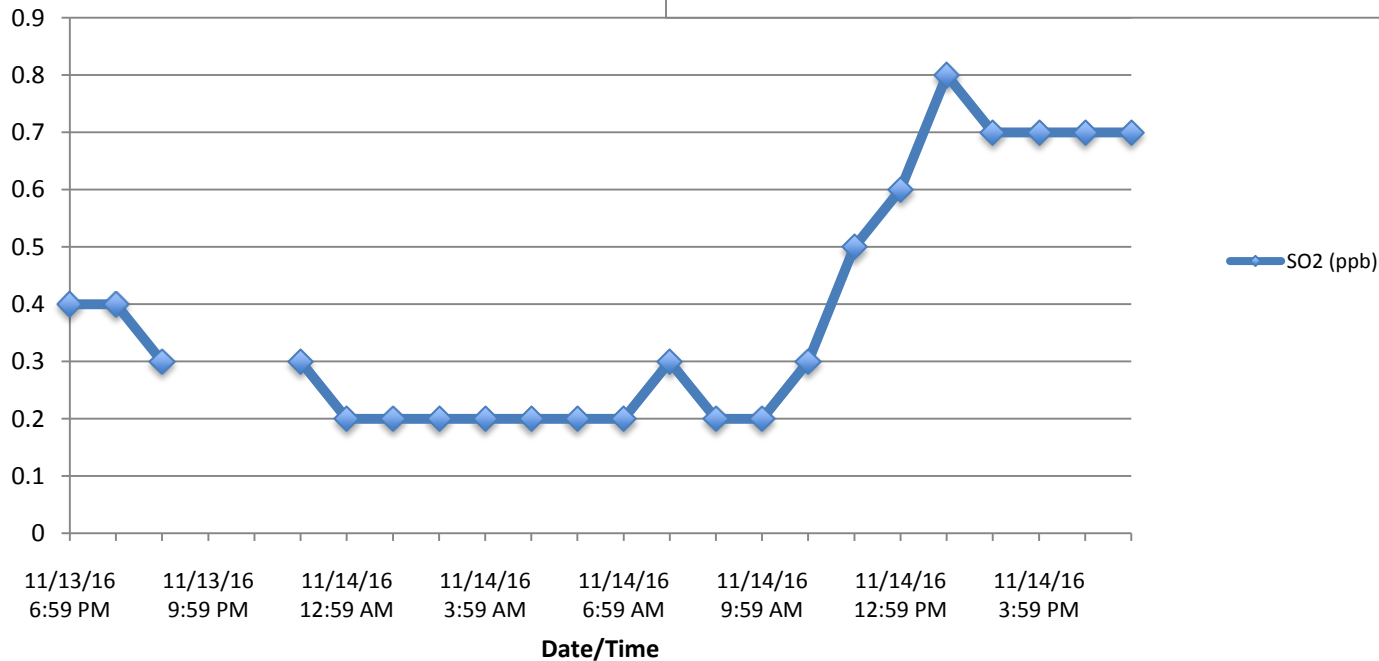
Hourly Averages NOX (ppb) NAAQS 100 ppb



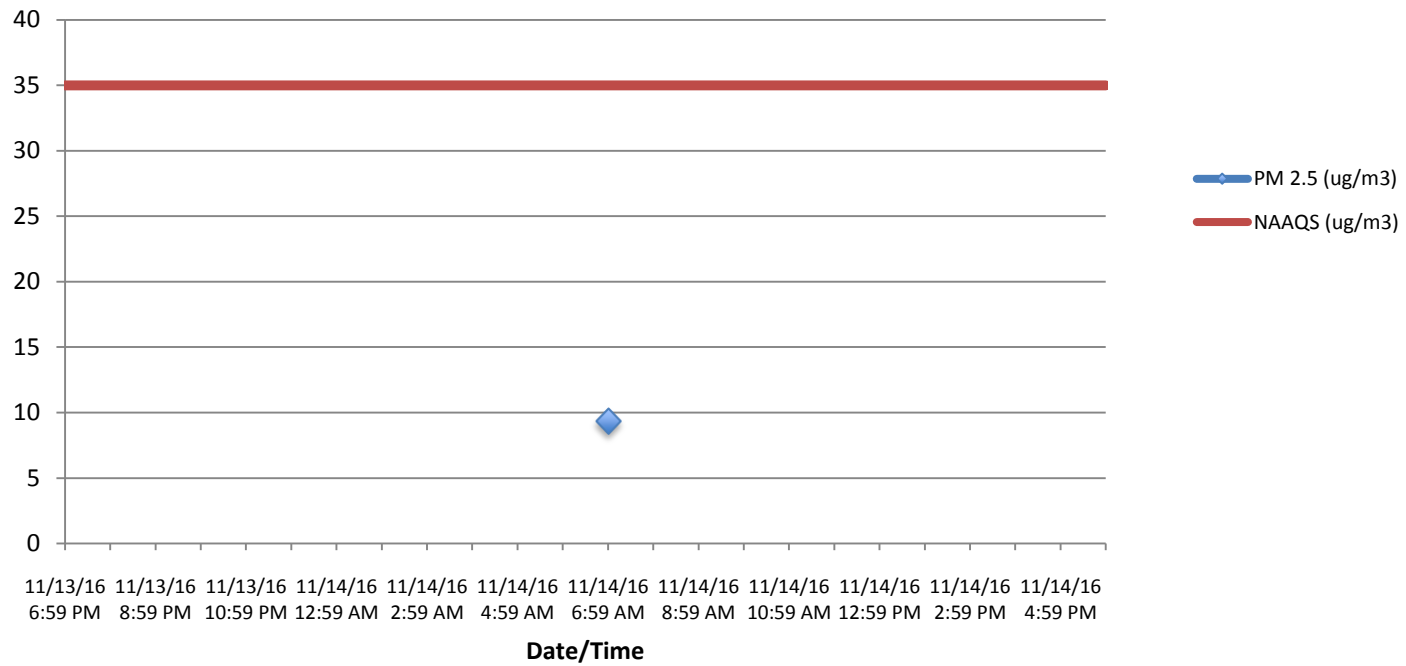
Hourly Averages SO2 (ppb)



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)

