

FINAL
U.S. ENVIRONMENTAL PROTECTION AGENCY
Region VI



Air Monitoring Summary

Camp Minden Area I

Start Time: 11-18-2016 1800 - End Time: 11-19-2016 1800

November 19, 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 18, 2016 1800 through November 19, 2016, 2016 1800
- 2 Highest measurement of each analyte from November 18, 2016 1800 through November 19, 2016 1800

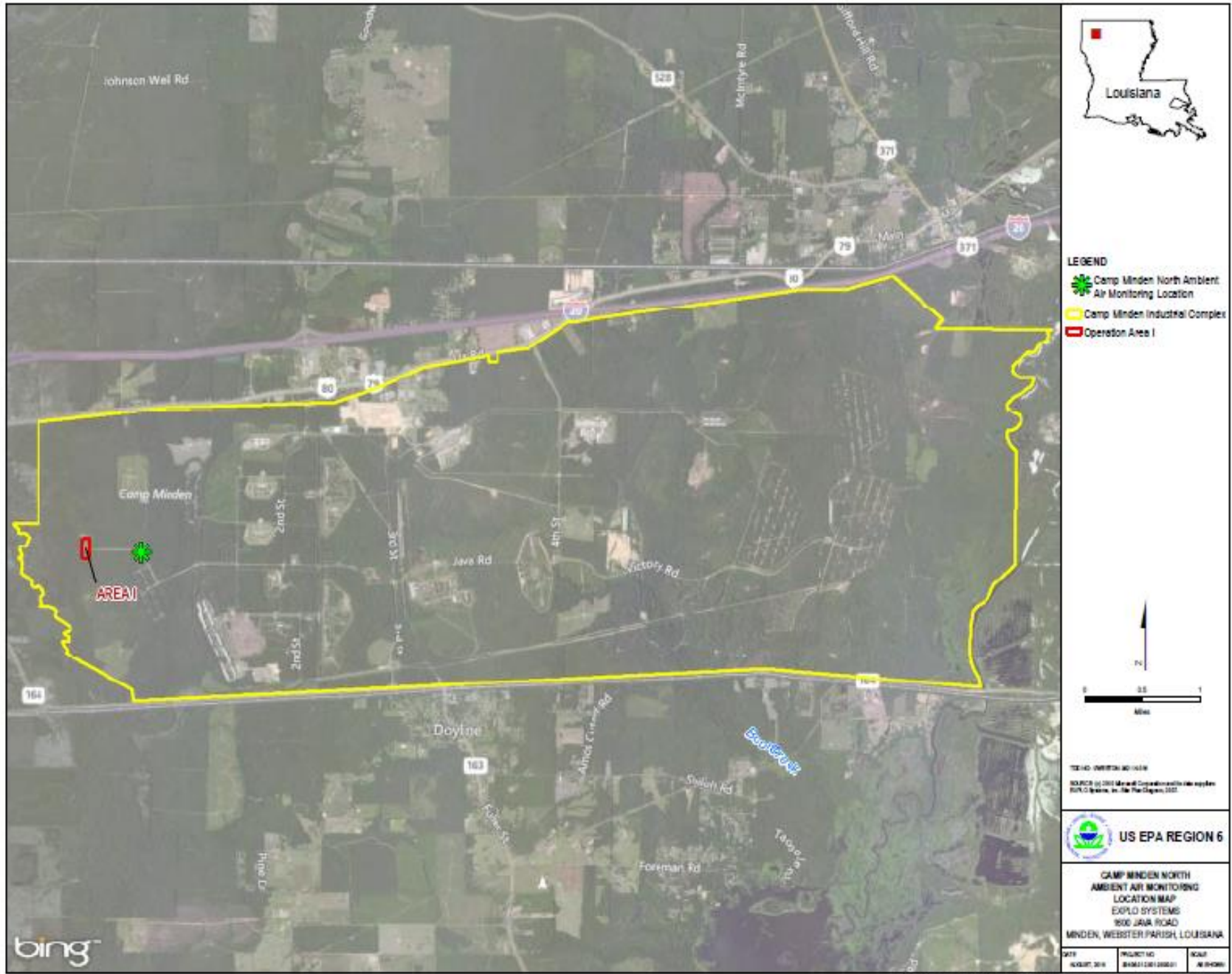
National Ambient Air Quality Standards (NAAQS) of criteria pollutants (CO, NO₂, SO₂, and PM_{2.5}) are listed with specific time frames and calculation formulas. Please visit NAAQS website for more in-depth information on how these are calculated - <https://www.epa.gov/criteria-air-pollutants/naqs-table>.

**The monitoring database has been validated for calendar day 11/19/16 (through 00:00 11/20/16 CST). All analyzers were operating normally. There was a spike in PM_{2.5} to 53 ug/m³ at 1300 CST. Temperatures in trailer were fluctuating due to colder ambient temperatures and increased winds behind a strong front; ambient temperatures were near 40 F at night and peaked at 60 F during daytime; hourly trailer temperatures varied between 18 and 28 C. The BAM1020 can be affected by shelter temperature variations; readings throughout the day were considered valid, but may have been affected by shelter temperatures.

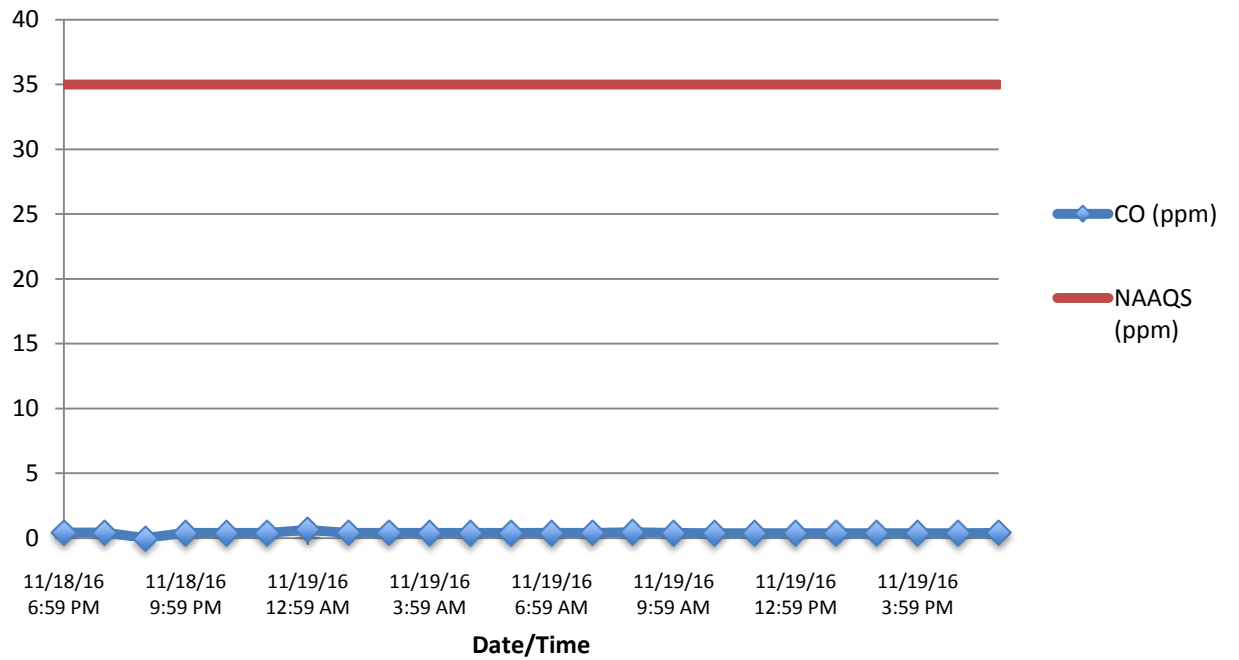
Summary for 19 November 2016 at Camp Minden Area I

Analyte	Highest Hourly Average Measurement	Highest Measurement	Units	NAAQS Standard
CO	0.626	8.374	ppm	35 (1-hour)
CO ₂	475.0	520.6	ppm	For Monitoring Only
NO	3.7	36.7	ppb	For Monitoring Only
NO ₂	3.1	11.7	ppb	100 (1-hour)
NO _X	6.8	48.4	ppb	100 (1-hour)
SO ₂	0.7	1.1	ppb	75 (1-hour)
Analyte	Average 24-hour Measurement	Highest Measurement	Units	NAAQS Standard
PM 2.5	17.7	53.2	ug/m ³	35 (24-hour)

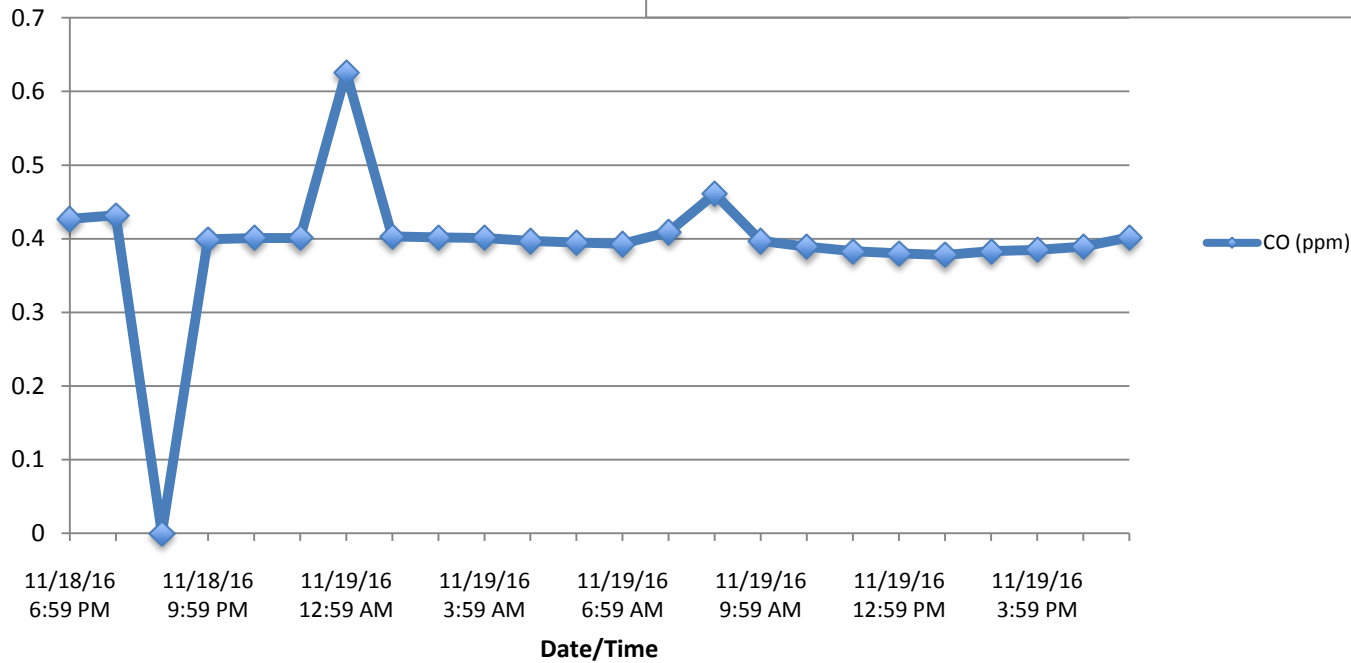
Camp Minden Area I Station Location Map for 19 November 2016



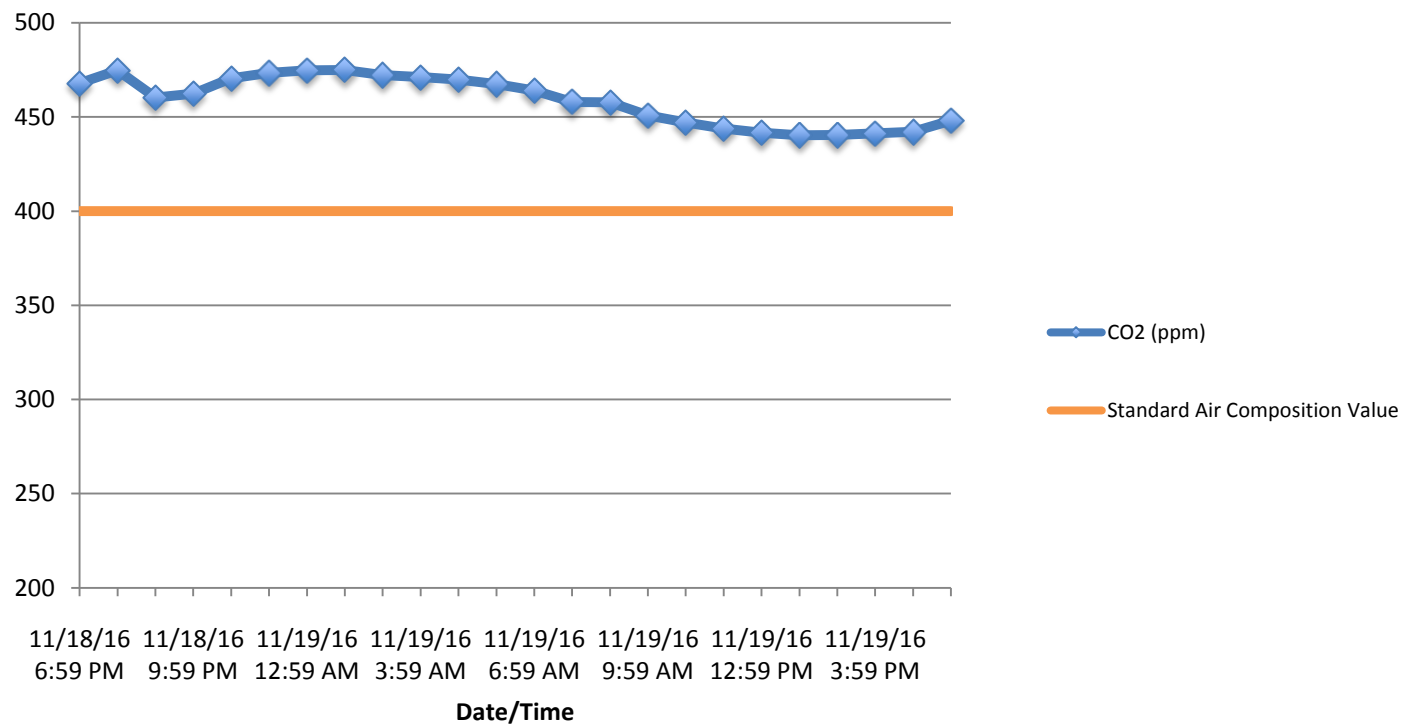
Hourly Averages CO (ppm)



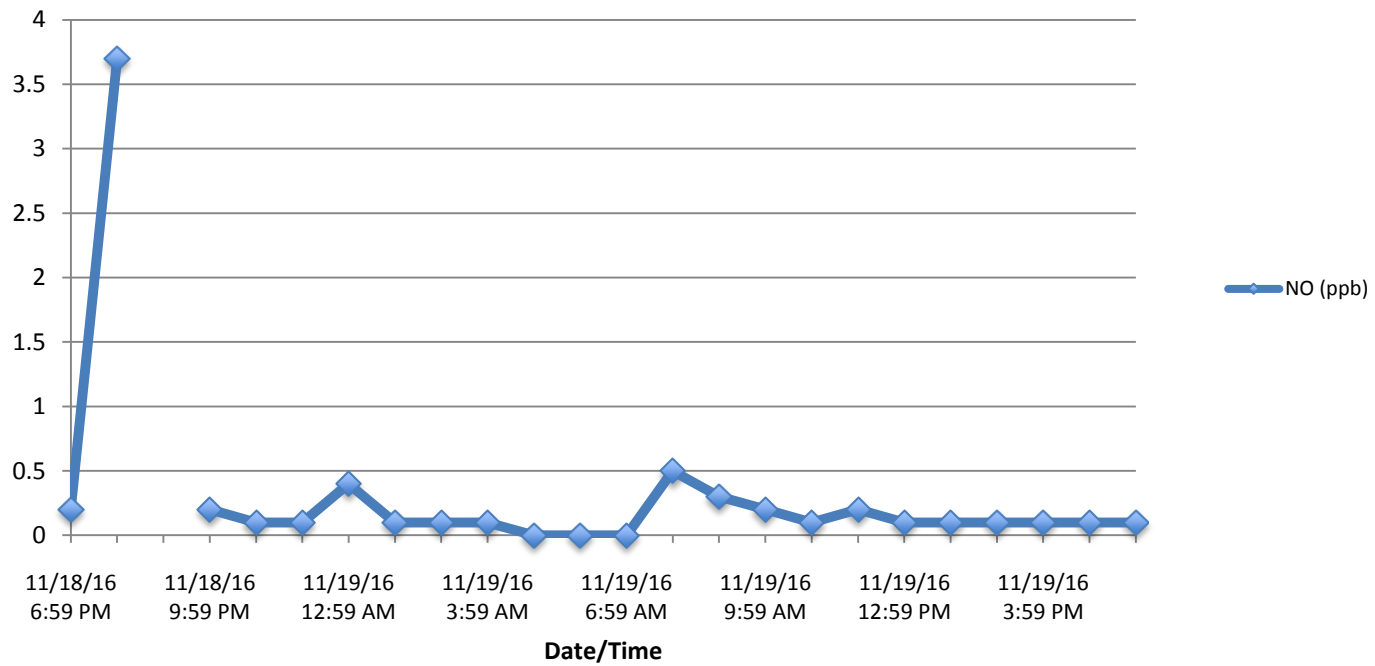
Hourly Averages CO (ppm) NAAQS 35 ppm



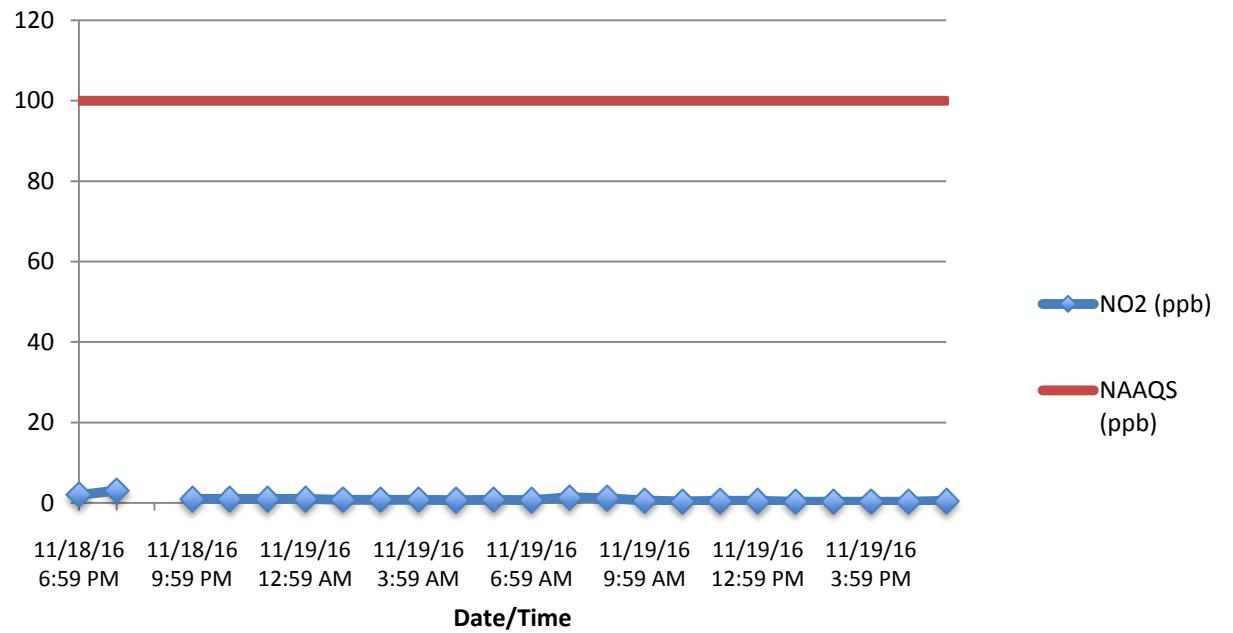
Hourly Averages CO2 (ppm) For Monitoring Only



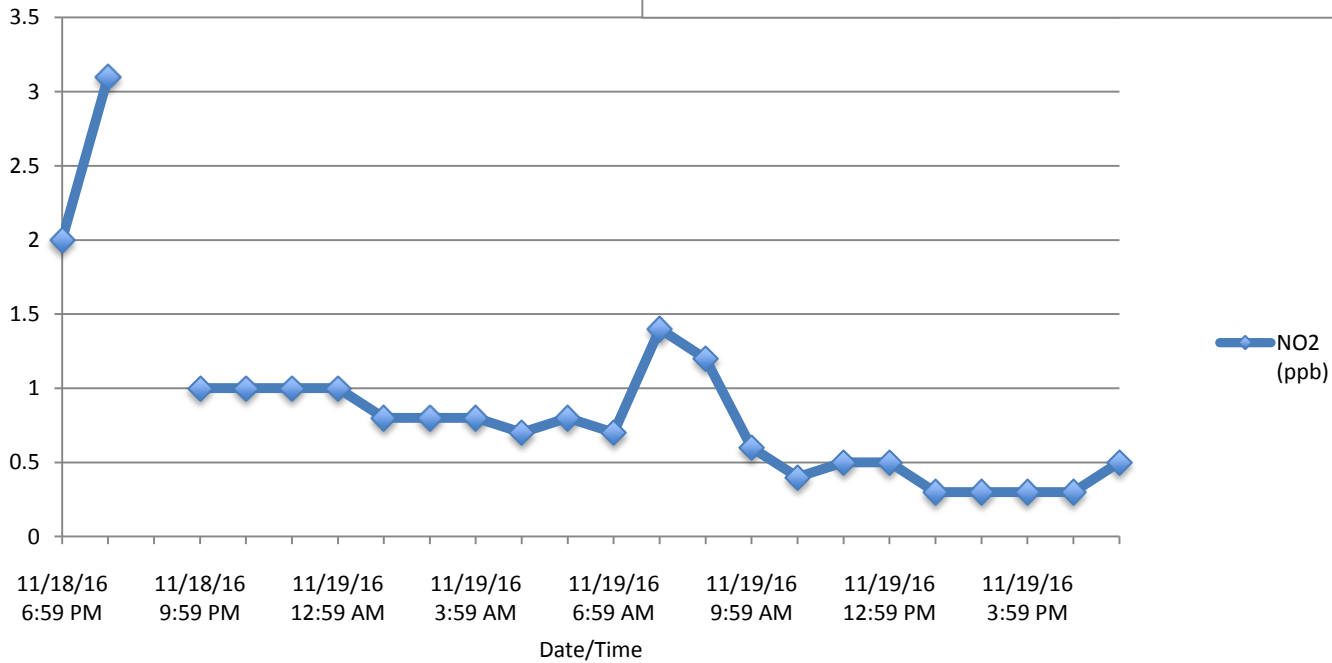
Hourly Averages NO (ppb) For Monitoring Only



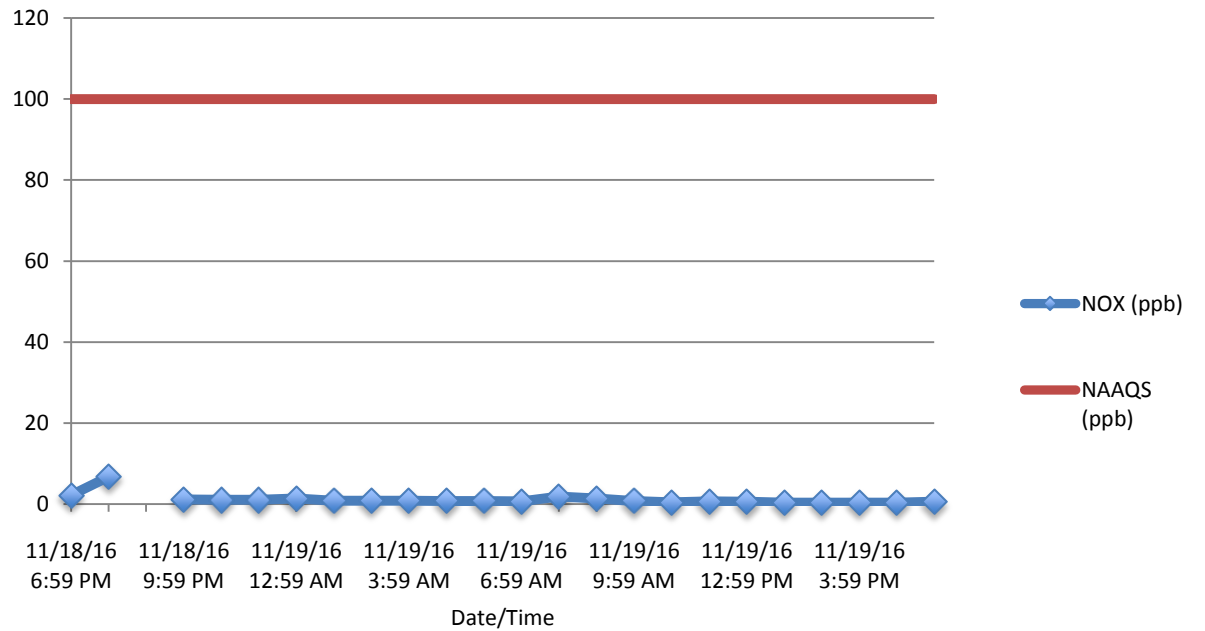
Hourly Averages NO2 (ppb)



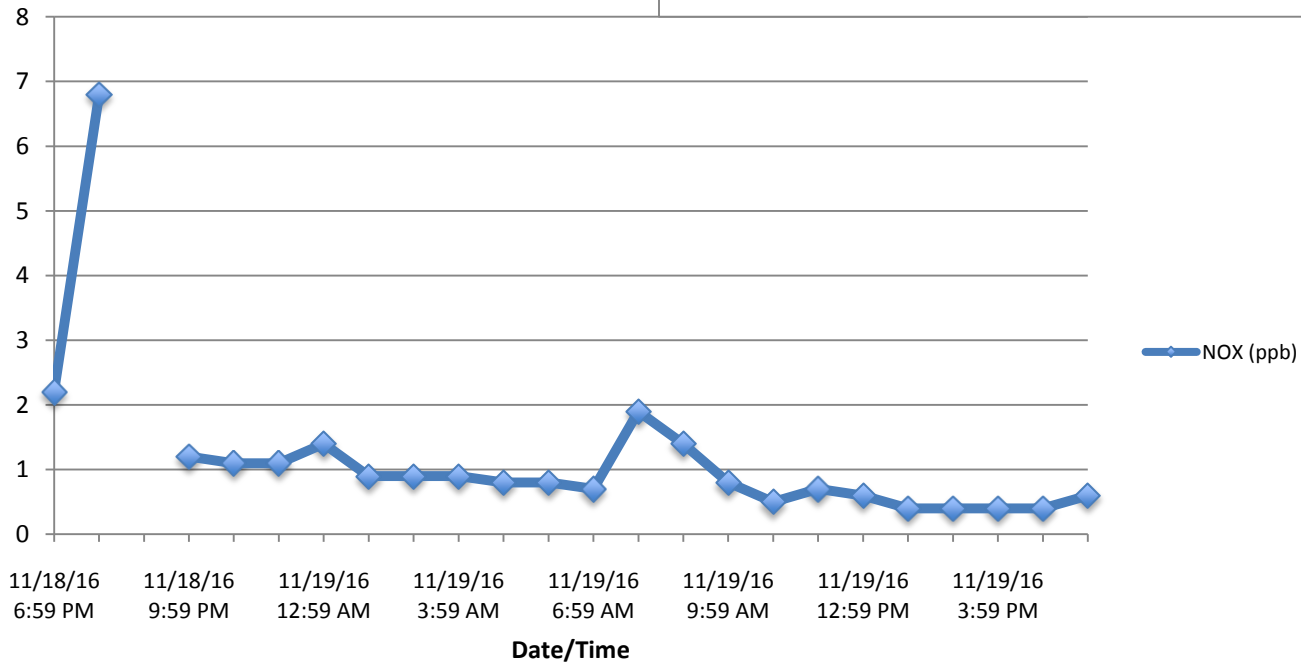
Hourly Averages NO2 (ppb) NAAQS 100 ppb



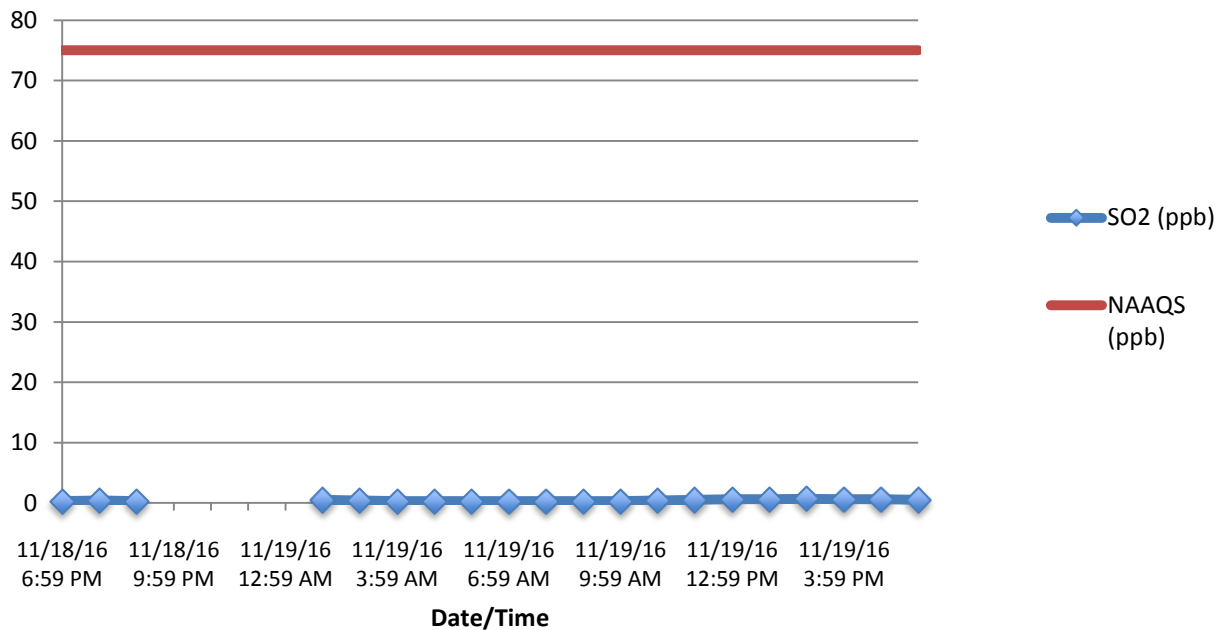
Hourly Averages NOX (ppb)



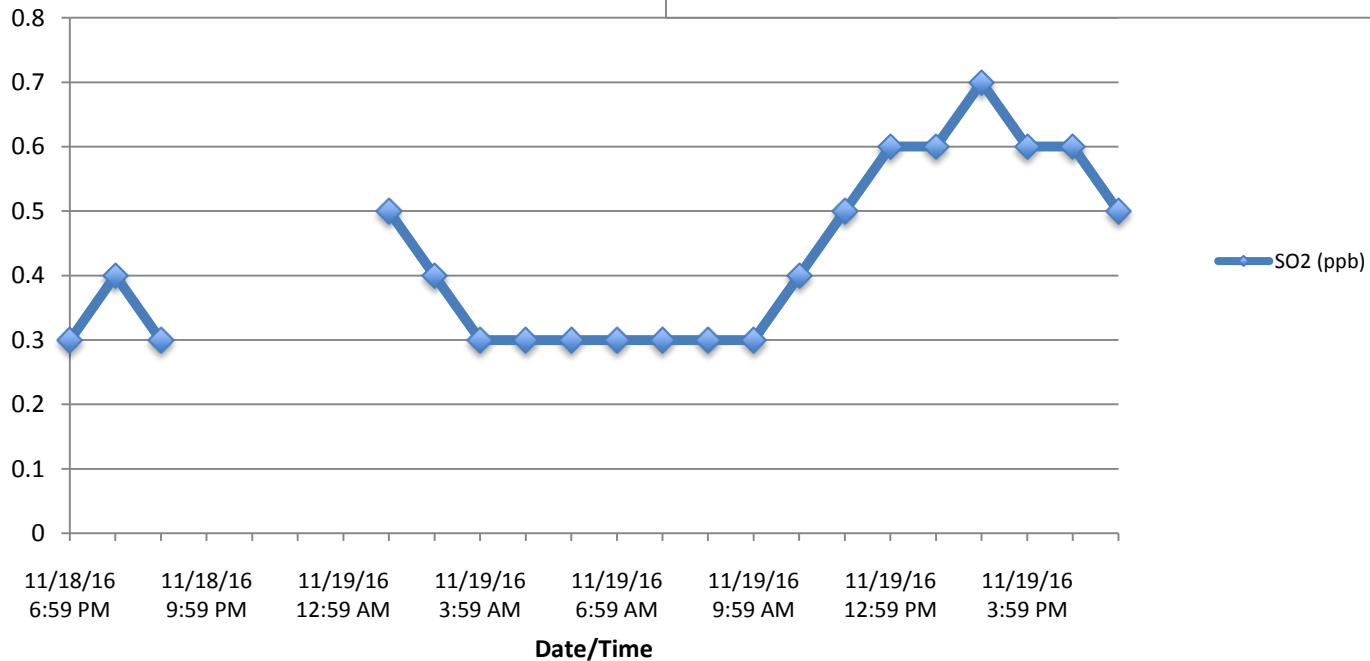
Hourly Averages NOX (ppb) NAAQS 100 ppb



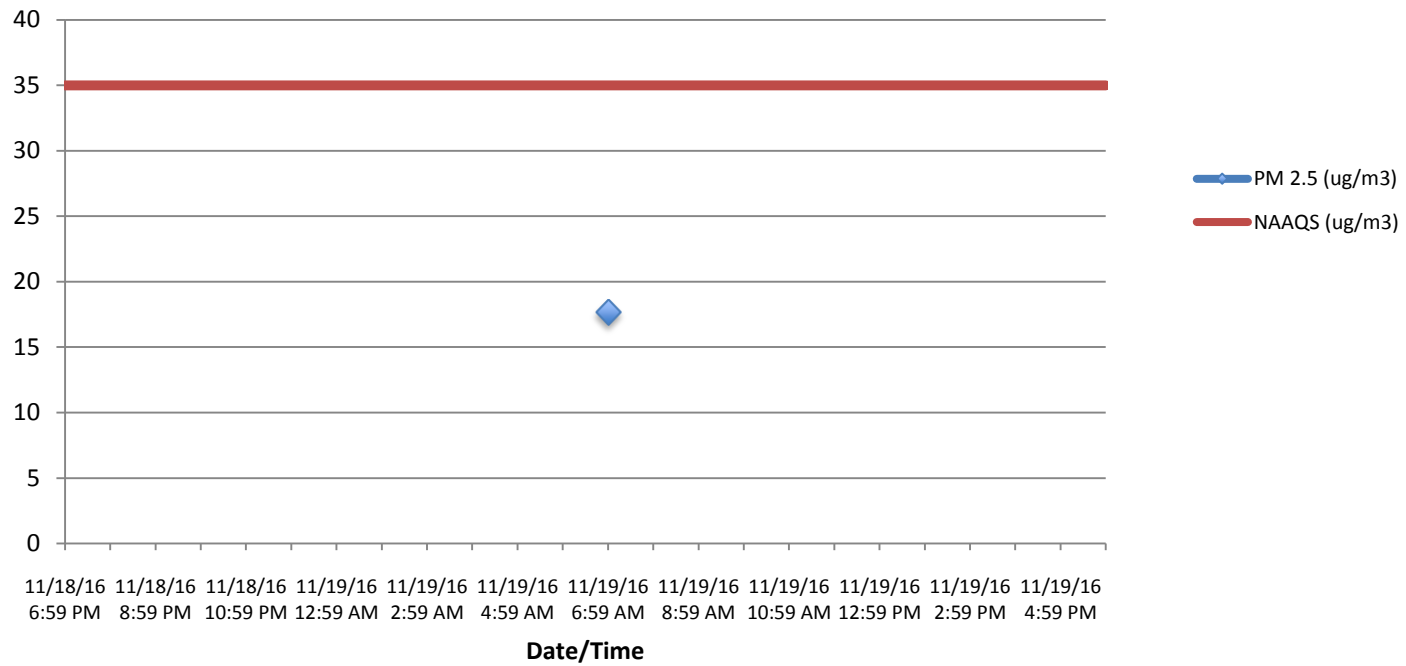
Hourly Averages SO2 (ppb)



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)

