

FINAL
U.S. ENVIRONMENTAL PROTECTION AGENCY
Region VI



Air Monitoring Summary

Camp Minden Area I

Start Time: 9-28-2016 1800 - End Time: 9-29-2016 1800

September 29, 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 September 28, 2016 1800 through September 29, 2016, 2016 1800
- 2 Highest measurement of each analyte from September 28, 2016 1800 through September 29, 2016 1800

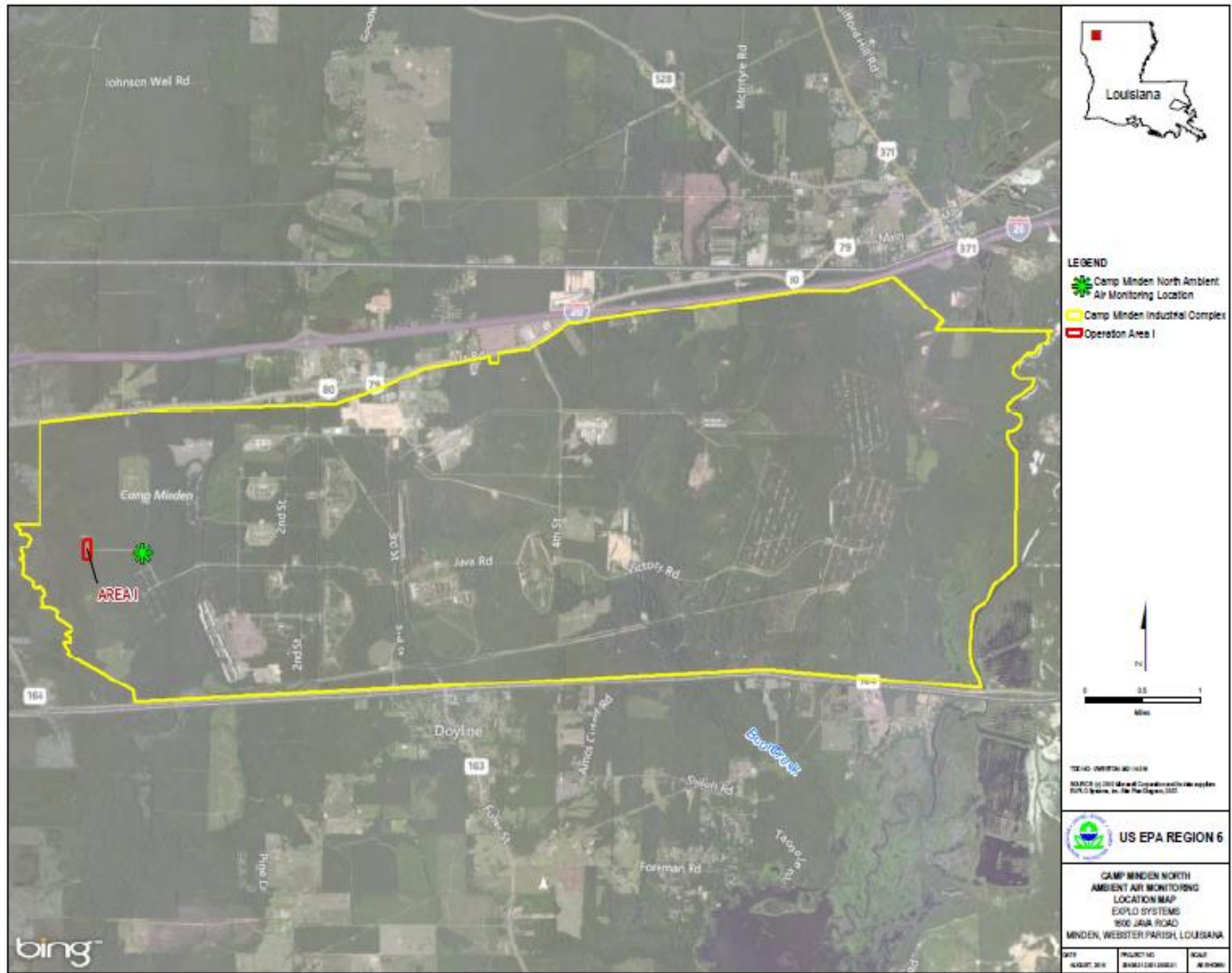
National Ambient Air Quality Standards (NAAQS) of criteria pollutants (CO, NO₂, SO₂, and PM_{2.5}) are listed with specific time frames and calculation formulas. Please visit NAAQS website for more in-depth information on how these are calculated - <https://www.epa.gov/criteria-air-pollutants/naqs-table>.

** Note: PM_{2.5} was captured in 60-min averages. All other analytes were captured in 1-min averages. Negative BAM readings continued to be offset by +4.7 for all hours. All monitors were operating normally. Replacement NO_x analyzer responses appeared normal. Data for period invalidated prior to on-site calibration. A bunker exploded just after 0500 CDT (approx. 0508). The bunker was approx. 6 mi due east of monitor. Weather station reported consistent winds from NE at 3-5 mph at time of explosion, speed & direction persisting for about three hours after explosion. Wind direction continued from the NE through at least 1500 CDT (comm loss), with speed increasing to 6-10 mph after sunrise. Due to the relative location of the bunker and the wind direction, no impacts from the explosion were measure at the station.

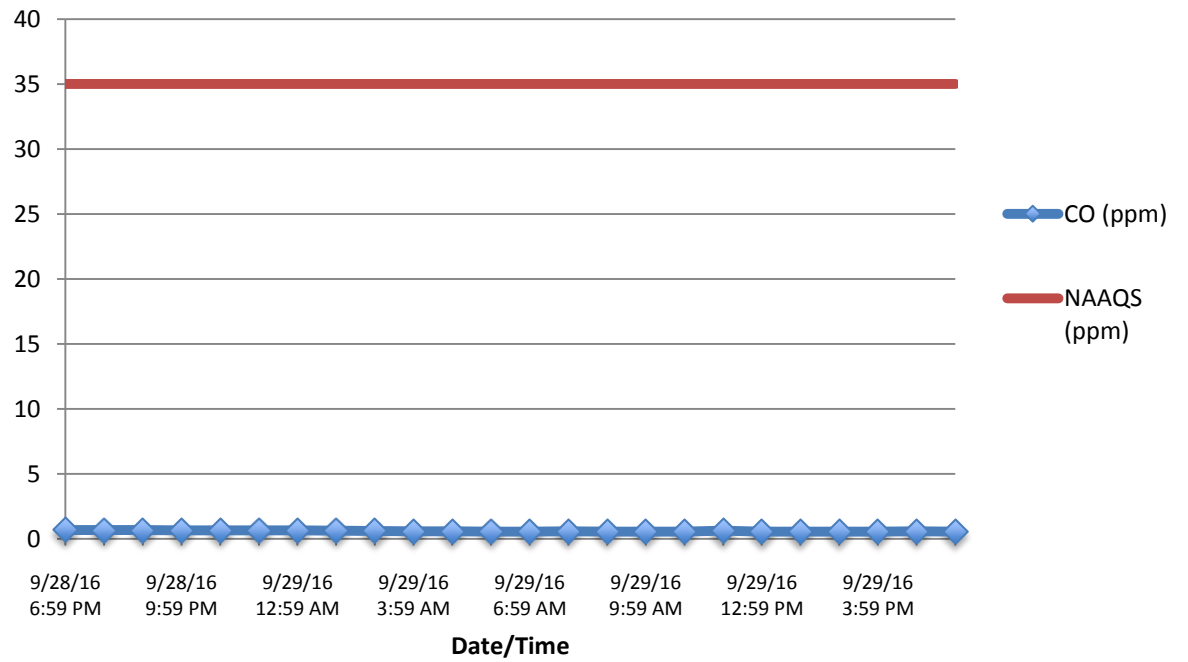
Summary for 29 September 2016 at Camp Minden Area I

Analyte	Highest Hourly Average Measurement	Highest Measurement	Units	NAAQS Standard
CO	0.691	1.718	ppm	35 (1-hour)
CO2	539	590.1	ppm	For Monitoring Only
NO			ppb	For Monitoring Only
NO2			ppb	100 (1-hour)
NOX			ppb	100 (1-hour)
SO2	0.8	1.1	ppb	75 (1-hour)
Analyte	Average 24-hour Measurement	Highest Measurement	Units	NAAQS Standard
PM 2.5	14.7	47.2	ug/m3	35 (24-hour)

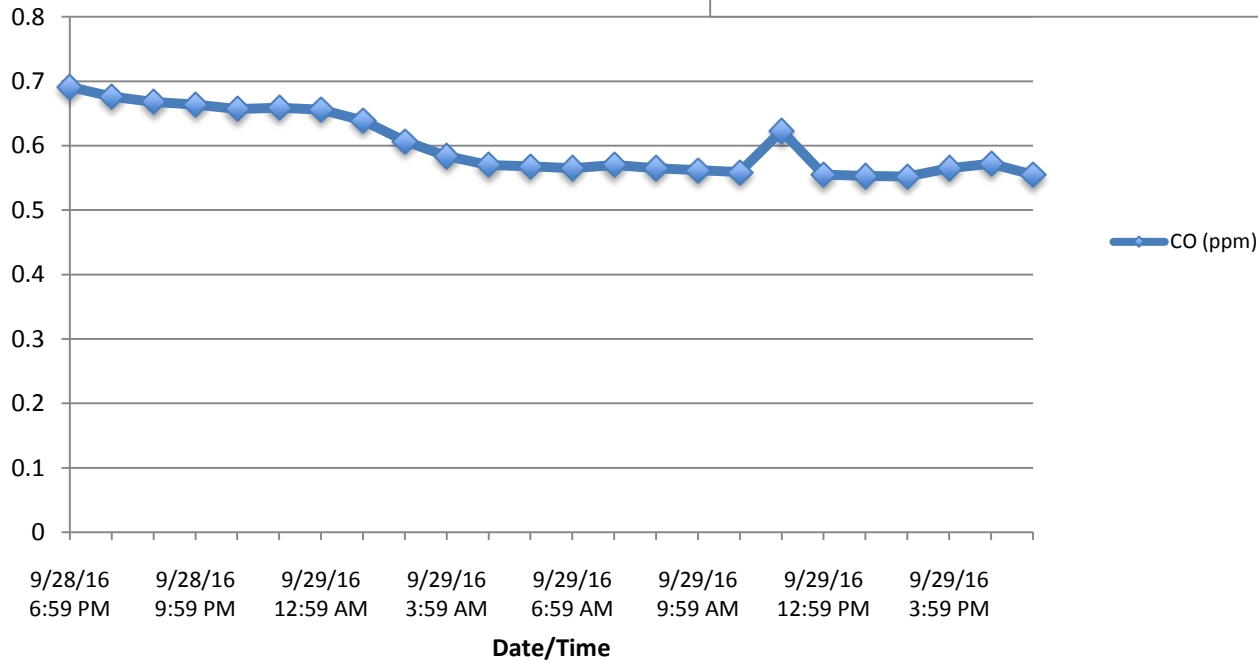
Camp Minden Area I Station Location Map for 29 September 2016



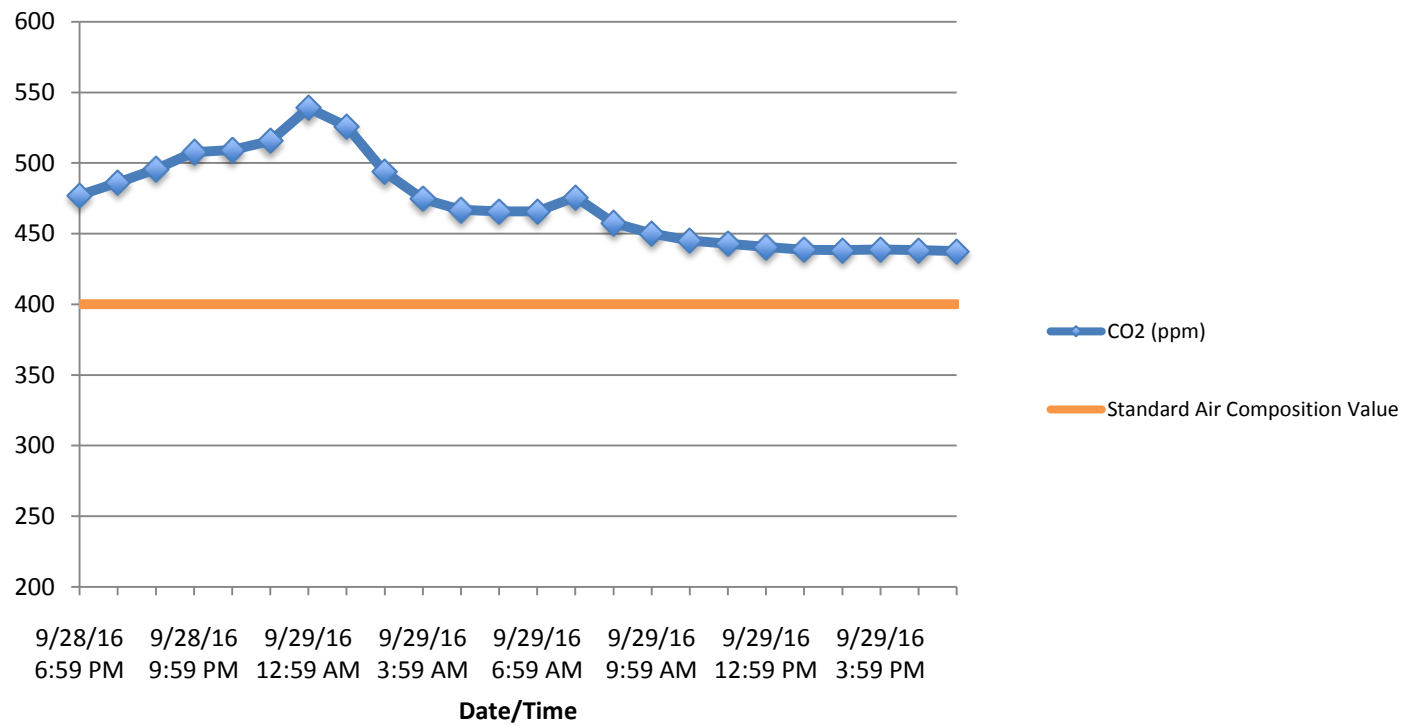
Hourly Averages CO (ppm)



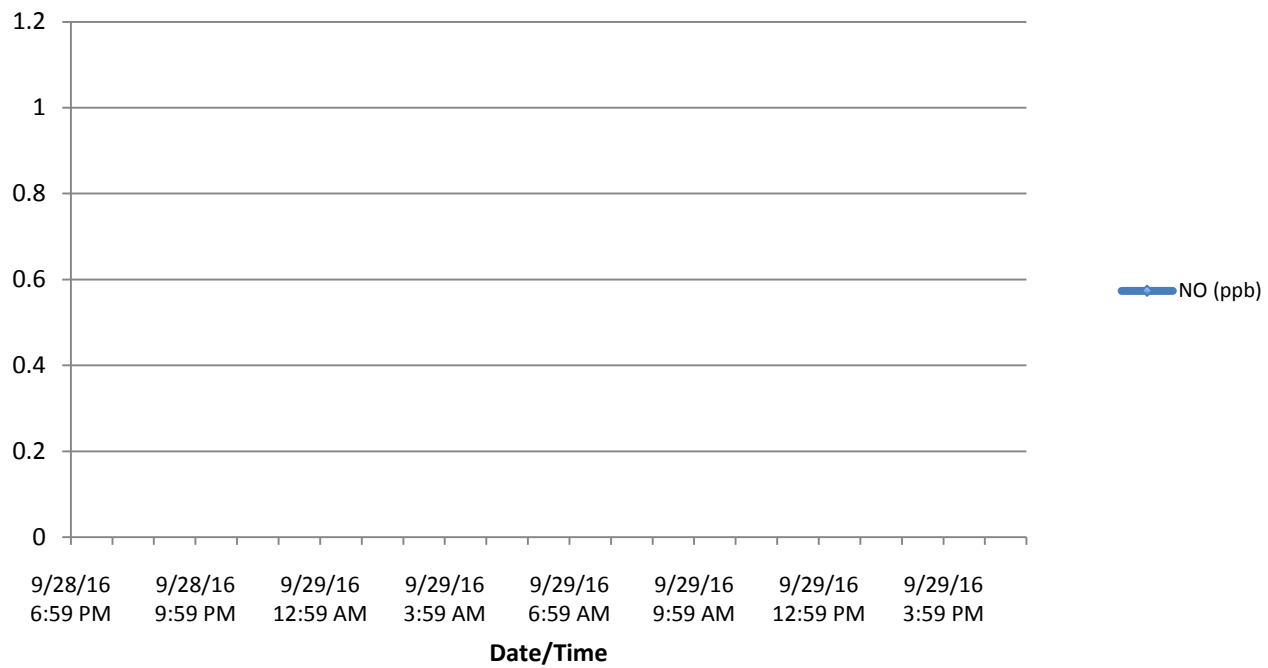
Hourly Averages CO (ppm) NAAQS 35 ppm



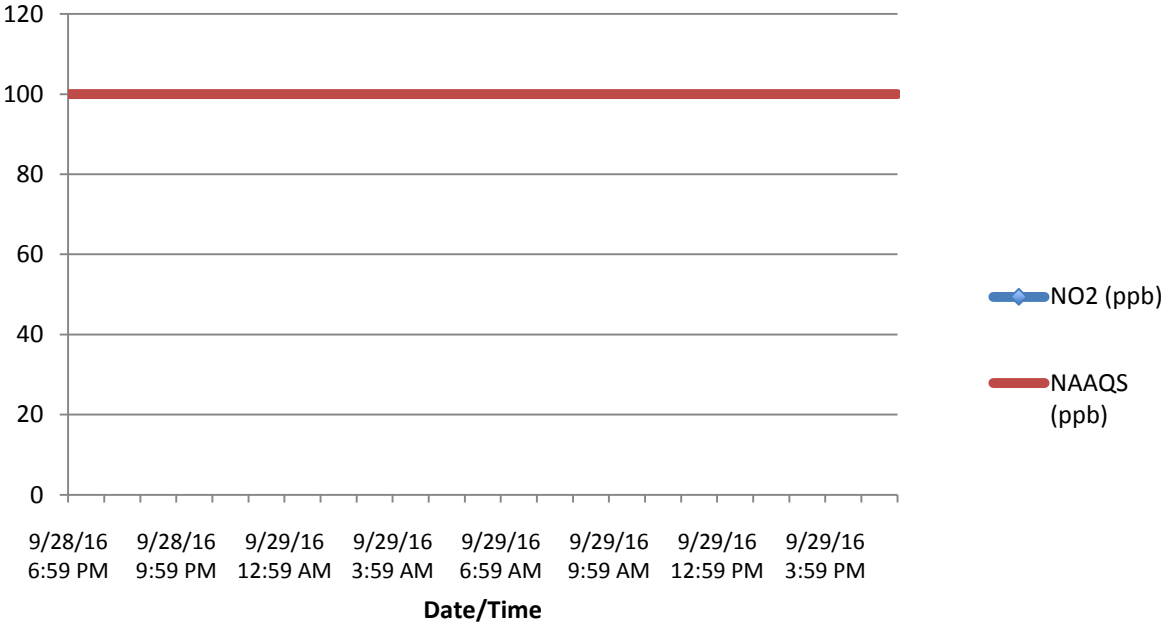
Hourly Averages CO2 (ppm) For Monitoring Only



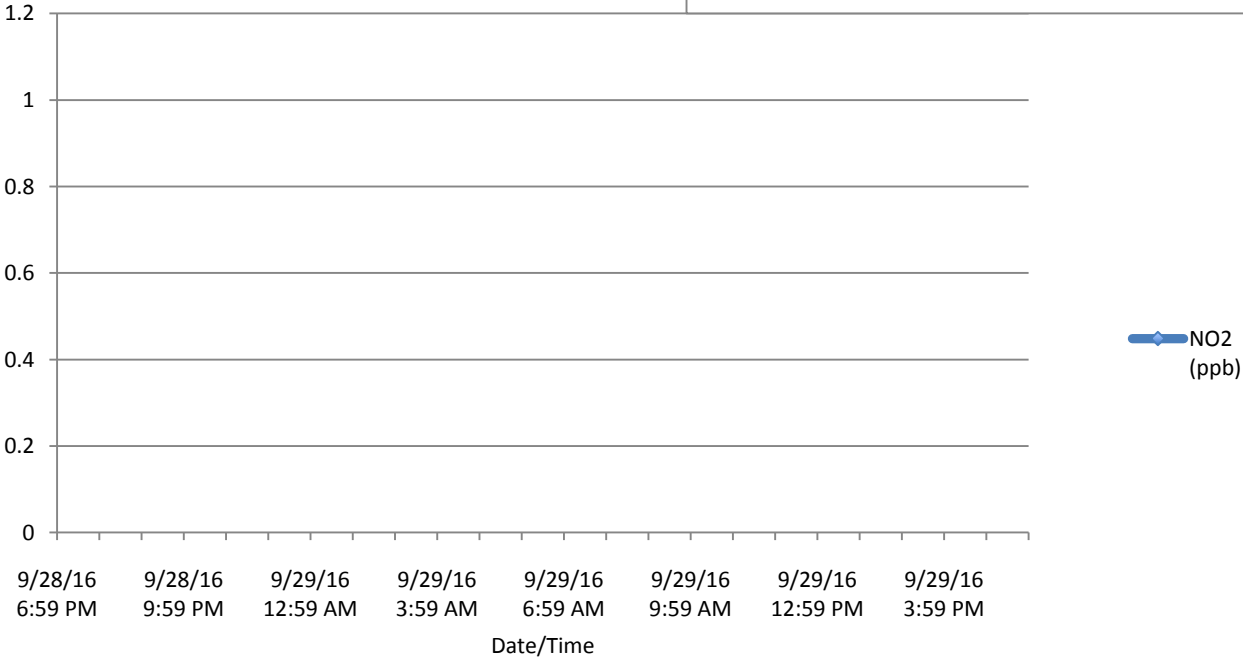
Hourly Averages NO (ppb) For Monitoring Only



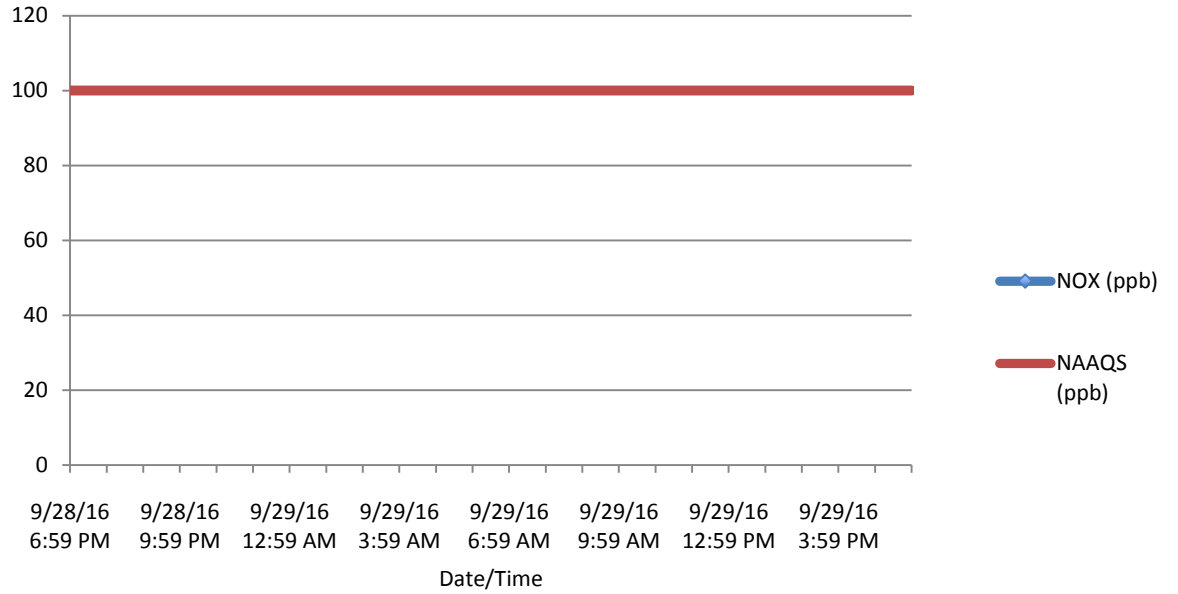
Hourly Averages NO2 (ppb)



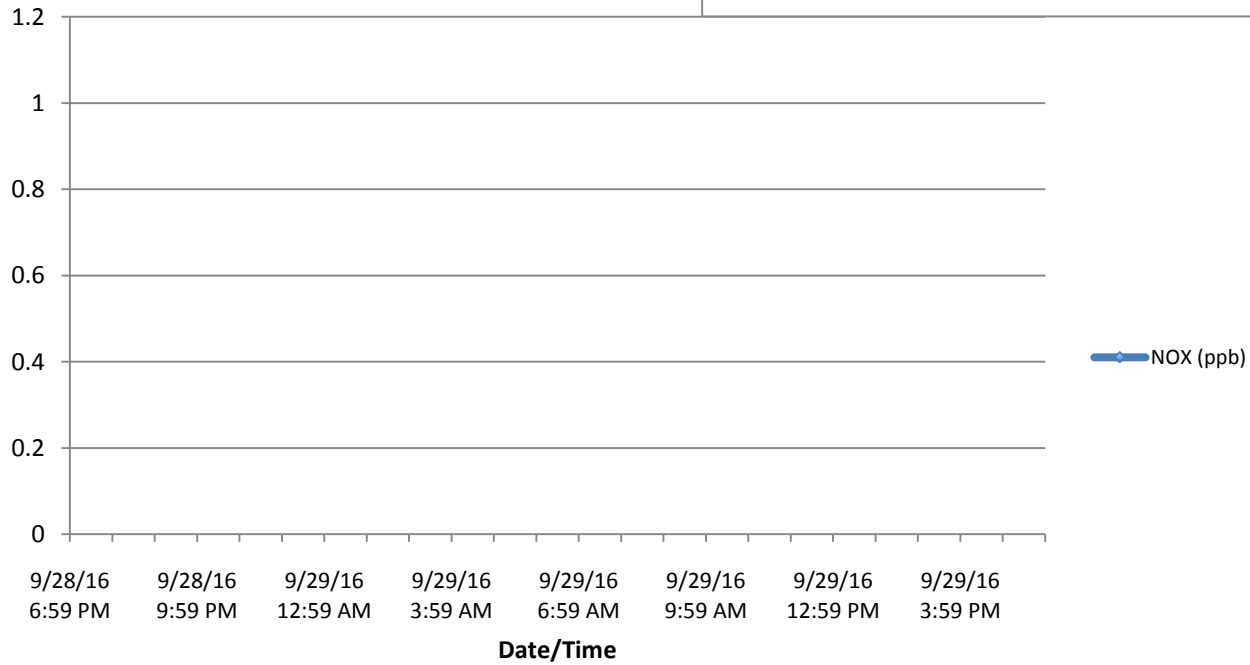
Hourly Averages NO2 (ppb) NAAQS 100 ppb



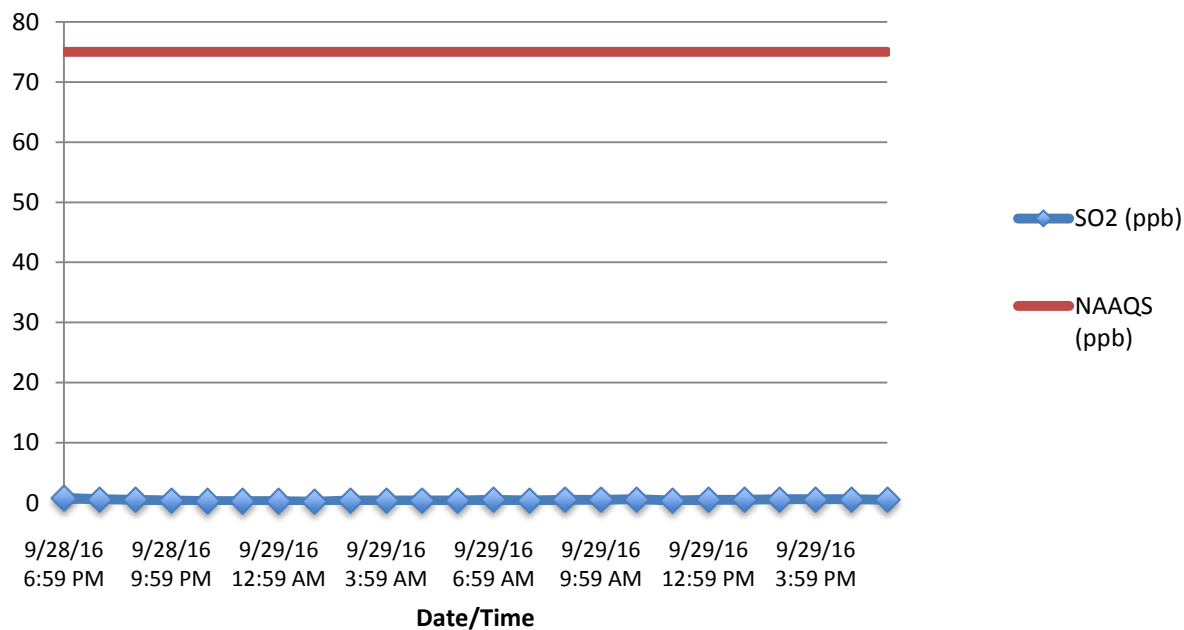
Hourly Averages NOX (ppb)



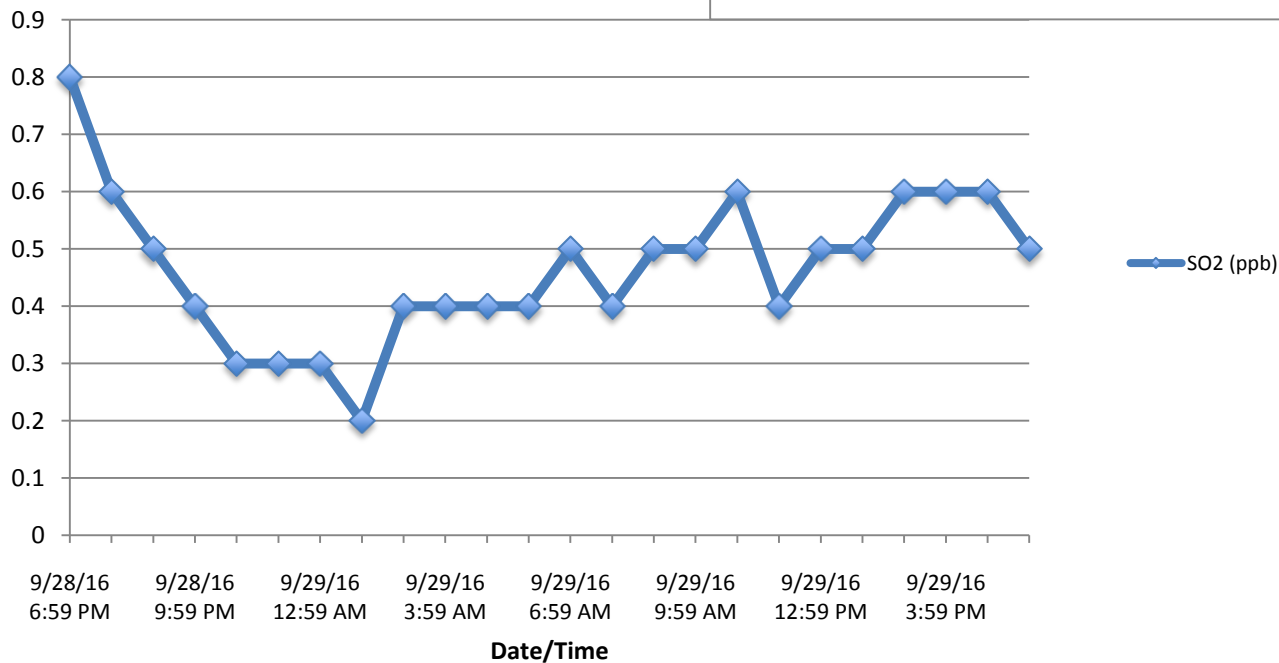
Hourly Averages NOX (ppb) NAAQS 100 ppb



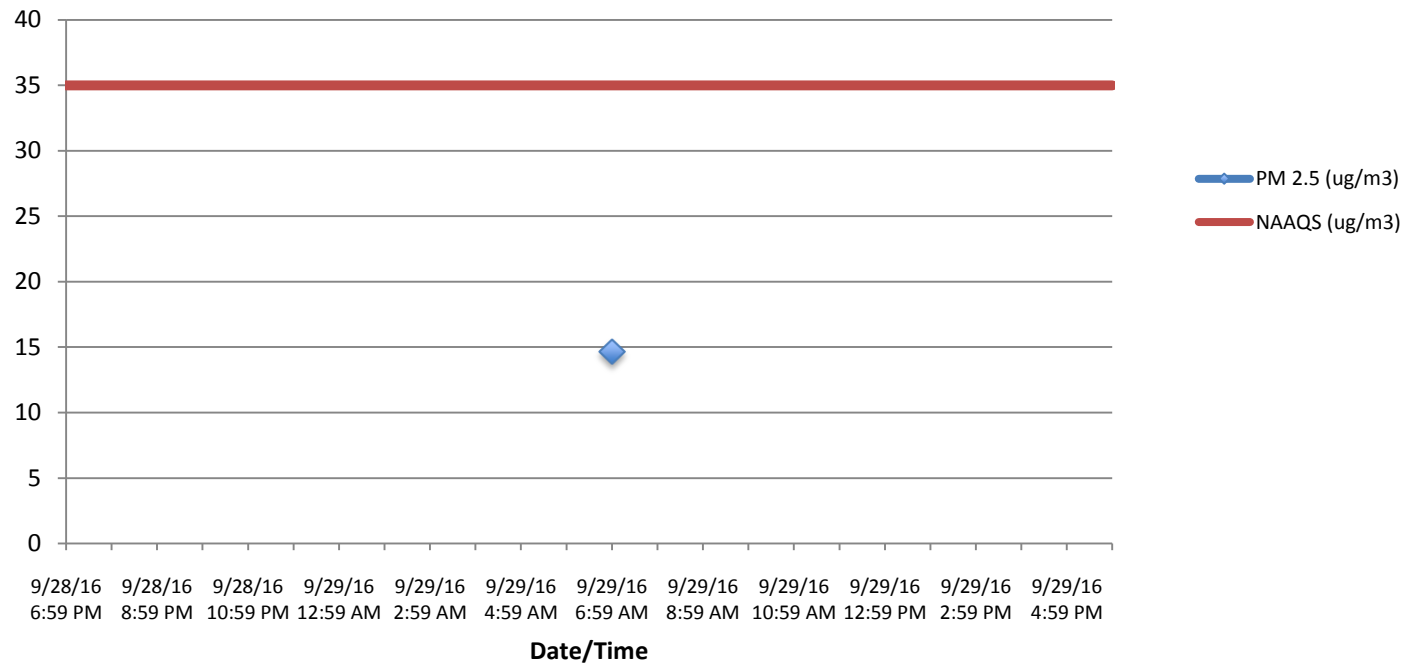
Hourly Averages SO2 (ppb)



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)

