

**CSA/MSA:** Louisville/Jefferson County-Elizabethtown-Madison, KY-IN CSA; Louisville/Jefferson County, KY-IN MSA

**401 KAR 50:020 Air Quality Region:** Louisville Interstate (078)

**Site Name:** Durrett Lane (Near-Road Site)

**AQS Site ID:** 21-111-0075

**Location:** 1517 Durrett Lane, Louisville, KY 40213

**County:** Jefferson

**GPS Coordinates:** 38.1936, -85.7112 (NAD 83)

**Date Established:** January 1, 2014

**Inspection Date:** May 9, 2014

**Inspection By:** Jennifer F. Miller

**Site Approval Status:** Site and monitors meet all design criteria for the monitoring network.



On February 9, 2010, the EPA released a new NO<sub>2</sub> Final Rule and a new set of monitoring requirements. Under the new monitoring requirements, State and Local agencies are required to establish near-road monitoring stations based upon core based statistical area (CBSA) populations and traffic metrics. The Louisville/Jefferson County, KY-IN MSA is required to establish not only a near-road nitrogen dioxide monitor, but also near-road PM<sub>2.5</sub> and carbon monoxide monitors. In response, LMAPCD has established a multi-pollutant near-road site that includes instrumentation to measure nitrogen dioxide, PM<sub>2.5</sub>, carbon monoxide, and meteorology. The specific site was chosen following the development of a formal site proposal and a 30-day comment public period in April 2013 (see Appendix D). Data collection at the site began in January 2014.

### Monitoring Objective:

The monitoring objective will be to determine compliance with National Ambient Air Quality Standards for nitrogen dioxide, carbon monoxide, and particulate matter.

### Monitors:

Monitor Type	Inlet Height (meters)	Designation	Analysis Method	Frequency of Sampling
Nitrogen Dioxide	4.6	SLAMS	Automated Equivalent Method utilizing photolysis	Continuously
Carbon Monoxide	4.6	SLAMS	Automated Reference Method utilizing non-dispersive infrared analysis	Continuously
FRM PM <sub>2.5</sub>	4.7	SLAMS	Manual Reference Method utilizing differential gravimetric analysis	One sample every third day
Meteorological	10.0	SPM-Other	AQM grade instruments for wind speed, wind direction, humidity, barometric pressure, and temperature	Continuously

**Quality Assurance Status:**

All Quality Assurance procedures will be implemented in accordance with 40 CFR 58, Appendix A.

**Area Representativeness:**

The site represents maximum concentrations on a neighborhood scale.

Neighborhood Scale

