



www.BREDL.org

CARE-4-AIR Site 1 Air Quality Fact Sheet Hamlet, Richmond County North Carolina

This fact sheet summarizes key information from the CARE-4-AIR Site 1 Air Quality Monitoring Report.

- **Monitoring Location:** Hamlet, North Carolina (Site 1)
- **Monitoring Period:** November 22, 2024 – April 7, 2025
- **What We Measured:**
 - Particulate Matter (PM2.5 and PM10)
 - Nitrogen Oxides (NO, NO2, NOx)
 - Total Volatile Organic Compounds (VOCs)
- **Key Findings:**
 - **No exceedances** of EPA health standards for PM2.5, PM10, or NO2 were found.
 - **VOC levels were generally low, although we did see significant spikes.**
 - **Prescribed burns significantly impacted air quality** on specific days, causing temporary spikes in PM levels. For example, a brief spike on March 9, 2025, reached hazardous levels (2739 ug/m3 PM10), and a day-long increase occurred on March 13, 2025, likely due to a burn.
- **Important Recommendations:**
 - **Avoid prescribed burns** on days when moderate to high PM levels are forecasted.
 - **Deploy mobile air monitors** in communities during large-scale burns.
- **Note:** The monitoring period was limited to about 4.5 months, and VOC data measured only total VOCs. All equipment issues encountered were successfully resolved.

For more information contact: c4astaff@bredl.org

