

Lower Eastern Shore Air Monitoring Project – April 2020-April 2021 Summary

April 2020 – April 2021 Data Summary for NH₃

MDE 1-hour screening level = 350 ppb

| Parameter | Site | Average hourly value (ppb) | Median hourly value (ppb) | Maximum hourly value (ppb) | Minimum hourly value (ppb) |
|-----------------|---|----------------------------|---------------------------|----------------------------|----------------------------|
| NH ₃ | Oldtown (Urban, no poultry operations) | 6.6 | 6.4 | 26.9 | -0.1 |
| | Horn Point (Rural, no poultry operations) | 2.1 | 2 | 9.4 | 0.1 |
| | Princess Anne (Low poultry operation density) | 6.1 | 5.3 | 123.6 | 0 |
| | Pocomoke City (High poultry operation density) | 11.1 | 8.1 | 218.7 | 0.2 |

April 2020 – April 2021 Data Summary for PM_{2.5}

NAAQS PM_{2.5} 24-hour standard = 35 µg/m³

| Parameter | Site | Average 24-hr value (µg/m ³) | Median 24-hr value (µg/m ³) | Maximum 24-hr value (µg/m ³) | Minimum 24-hr value (µg/m ³) |
|-------------------|---|--|---|--|--|
| PM _{2.5} | Oldtown (Urban, no poultry operations) | 6.7 | 6 | 25.1 | 0.8 |
| | Horn Point (Rural, no poultry operations) | 5 | 4.7 | 16.7 | -1 |
| | Princess Anne (Low poultry operation density) | 7.2 | 6.6 | 24.6 | 2 |
| | Pocomoke City (High poultry operation density) | 7 | 6.4 | 22.6 | 2 |

April 2020 – April 2021 Data Summary for PM₁₀

NAAQS PM₁₀ 24-hour standard = 150 µg/m³

| Parameter | Site | Average 24-hr value (µg/m ³) | Median 24-hr value (µg/m ³) | Maximum 24-hr value (µg/m ³) | Minimum 24-hr value (µg/m ³) |
|------------------|---|--|---|--|--|
| PM ₁₀ | Oldtown* (Urban, no poultry operations) | 13.5 | 12.1 | 40 | 2.6 |
| | Horn Point* (Rural, no poultry operations) | 8.0 | 7 | 20 | 1.1 |
| | Princess Anne (Low poultry operation density) | 13.5 | 12.9 | 35.8 | 4 |
| | Pocomoke City (High poultry operation density) | 13.8 | 13.1 | 40.8 | 4.5 |

*Oldtown and Horn Point stations measure PM₁₀ with an FRM manual filter method. Values shown are through April 30, 2021.

NAAQS: National Ambient Air Quality Standards