

## Lower Eastern Shore Air Monitoring Project – April 2020-September 2025 Summary

### April 2020 – September 2025 Data Summary for NH<sub>3</sub>

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 <sub>3</sub> | Baltimore Co. NR*<br>(Urban, no poultry operations) | 6.1                        | 5.9                       | 24.8                       | -3.1                       |
|                 | Princess Anne<br>(Low poultry operation density)    | 4.2                        | 3.6                       | 336.2                      | -1                         |
|                 | Pocomoke City<br>(High poultry operation density)   | 10.7                       | 7.9                       | 544.1                      | -1.4                       |
|                 | Harmony*<br>(High poultry operation density)        | 7.1                        | 6.5                       | 75.5                       | -0.4                       |

NAAQS: National Ambient Air Quality Standards

\* NH<sub>3</sub> measurements began at Baltimore County Near Road on December 1, 2021; at Harmony on June 1, 2024.

### April 2020 – September 2025 Data Summary for PM<sub>2.5</sub> NAAQS PM<sub>2.5</sub> 24-hour standard = 35 µg/m<sup>3</sup>

| Parameter         | Site                                               | Average 24-hr value (µg/m <sup>3</sup> ) | Median 24-hr value (µg/m <sup>3</sup> ) | Maximum 24-hr value (µg/m <sup>3</sup> ) | Minimum 24-hr value (µg/m <sup>3</sup> ) |
|-------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------|------------------------------------------|------------------------------------------|
| PM <sub>2.5</sub> | Lake Montebello*<br>(Urban, no poultry operations) | 7.4                                      | 6.4                                     | 114.3                                    | -1.2                                     |
|                   | Princess Anne<br>(Low poultry operation density)   | 7.3                                      | 6.4                                     | 131.6                                    | 0.9                                      |
|                   | Pocomoke City<br>(High poultry operation density)  | 6.9                                      | 6                                       | 109.8                                    | 1.2                                      |
|                   | Harmony*<br>(High poultry operation density)       | 6.4                                      | 5.7                                     | 22.1                                     | 1.3                                      |

NAAQS: National Ambient Air Quality Standards

\* PM<sub>2.5</sub> measurements began at Lake Montebello on January 1, 2022; at Harmony on June 1, 2024.

### April 2020 – September 2025 Data Summary for PM<sub>10</sub> NAAQS PM<sub>10</sub> 24-hour standard = 150 µg/m<sup>3</sup>

| Parameter        | Site                                               | Average 24-hr value (µg/m <sup>3</sup> ) | Median 24-hr value (µg/m <sup>3</sup> ) | Maximum 24-hr value (µg/m <sup>3</sup> ) | Minimum 24-hr value (µg/m <sup>3</sup> ) |
|------------------|----------------------------------------------------|------------------------------------------|-----------------------------------------|------------------------------------------|------------------------------------------|
| PM <sub>10</sub> | Lake Montebello*<br>(Urban, no poultry operations) | 12.9                                     | 11.3                                    | 101.1                                    | 2.8                                      |
|                  | Princess Anne<br>(Low poultry operation density)   | 13.5                                     | 12.8                                    | 160.2                                    | 2.1                                      |
|                  | Pocomoke City<br>(High poultry operation density)  | 13.3                                     | 12.5                                    | 131.4                                    | 1.9                                      |
|                  | Harmony*<br>(High poultry operation density)       | 14.2                                     | 13.4                                    | 37.9                                     | 2.6                                      |

NAAQS: National Ambient Air Quality Standards

\* PM<sub>10</sub> measurements began at Lake Montebello on January 17, 2022, where measurements are taken using an FRM manual filter method. Data presented here are through July 15, 2025. Harmony station began collecting data on June 1, 2024.

Note: Preliminary data – subject to change.

## Full Period of Record Data Summary for Inactive Sites

| Parameter         | Site                                          | Average<br>1-hr value<br>( $\mu\text{g}/\text{m}^3$ )  | Median<br>1-hr value<br>( $\mu\text{g}/\text{m}^3$ )  | Maximum<br>1-hr value<br>( $\mu\text{g}/\text{m}^3$ )  | Minimum<br>1-hr value<br>( $\mu\text{g}/\text{m}^3$ )  |
|-------------------|-----------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| NH <sub>3</sub>   | Horn Point*<br>(Rural, no poultry operations) | 2.1                                                    | 2.1                                                   | 9.4                                                    | 0.1                                                    |
|                   | Oldtown**<br>(Urban, no poultry operations)   | 6.8                                                    | 7                                                     | 27.1                                                   | -0.1                                                   |
| Parameter         | Site                                          | Average<br>24-hr value<br>( $\mu\text{g}/\text{m}^3$ ) | Median<br>24-hr value<br>( $\mu\text{g}/\text{m}^3$ ) | Maximum<br>24-hr value<br>( $\mu\text{g}/\text{m}^3$ ) | Minimum<br>24-hr value<br>( $\mu\text{g}/\text{m}^3$ ) |
| PM <sub>2.5</sub> | Horn Point*<br>(Rural, no poultry operations) | 5                                                      | 4.7                                                   | 16.7                                                   | -1                                                     |
|                   | Oldtown**<br>(Urban, no poultry operations)   | 7.1                                                    | 6.4                                                   | 28.7                                                   | 0.7                                                    |
| PM <sub>10</sub>  | Horn Point*<br>(Rural, no poultry operations) | 8.1                                                    | 7                                                     | 20                                                     | 1.2                                                    |
|                   | Oldtown**<br>(Urban, no poultry operations)   | 13                                                     | 12                                                    | 40                                                     | 2.6                                                    |

\* As of May 14, 2021, NH<sub>3</sub>, PM<sub>2.5</sub>, and PM<sub>10</sub> measurements at Horn Point have been discontinued

\*\* As of November 19, 2021, NH<sub>3</sub> and PM<sub>10</sub> measurements at Oldtown have been discontinued; During January 2022, PM<sub>2.5</sub> was moved from Oldtown to Lake Montebello