

## Lower Eastern Shore Air Monitoring Project – April 2020-September 2022 Summary

### April 2020 – September 2022 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* (Urban, no poultry operations)	5.5	5.4	18.9	-1.1
	Princess Anne (Low poultry operation density)	4.7	3.7	336.2	-1
	Pocomoke City (High poultry operation density)	10.3	7.7	218.7	-1

NAAQS: National Ambient Air Quality Standards

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

### April 2020 – September 2022 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* (Urban, no poultry operations)	6.9	6.7	18.2	-0.3
	Princess Anne (Low poultry operation density)	7.5	6.8	36	1.5
	Pocomoke City (High poultry operation density)	6.9	6.3	33.7	1.9

NAAQS: National Ambient Air Quality Standards

\* PM<sub>2.5</sub> measurements began at Lake Montebello on January 1, 2022

### April 2020 – September 2022 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* (Urban, no poultry operations)	12.6	12.5	23.9	4.1
	Princess Anne (Low poultry operation density)	14.1	13.5	46.8	3.2
	Pocomoke City (High poultry operation density)	13.4	12.6	46.2	4

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 September 1, 2022.

**Full Period of Record Data Summary for Inactive Sites**

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