

Lower Eastern Shore Air Monitoring Project – April 2025 Summary

April 2025 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	Baltimore Co. NR (Urban, no poultry operations)	6	5.6	19	0.6
	Princess Anne (Low poultry operation density)	2.9	3	9.6	0.3
	Pocomoke City (High poultry operation density)	10.2	7.1	247.6	0.7
	Harmony (High poultry operation density)	6.6	6.6	38	0.1

NAAQS: National Ambient Air Quality Standards

April 2025 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}	Lake Montebello (Urban, no poultry operations)	7.3	6.9	15.5	3.7
	Princess Anne (Low poultry operation density)	5.6	5.6	10.6	1.3
	Pocomoke City* (High poultry operation density)	5.4	5.1	9.6	1.7
	Harmony (High poultry operation density)	5.7	5.6	10.8	1.7

NAAQS: National Ambient Air Quality Standards

April 2025 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	Lake Montebello* (Urban, no poultry operations)	NA	NA	NA	NA
	Princess Anne (Low poultry operation density)	11.7	13	24.5	2.4
	Pocomoke City* (High poultry operation density)	13.6	14.1	22.7	3.7
	Harmony (High poultry operation density)	13.4	14	23.4	2.8

NAAQS: National Ambient Air Quality Standards

* PM₁₀ measurements began at Lake Montebello on January 17, 2022, where measurements are taken using an FRM manual filter method. Data are included in the project-to-date summaries. Preliminary data - subject to change.