

Lower Eastern Shore Air Monitoring Project – September 2025 Summary

September 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)	5.8	5.7	16.3	0.9
	Princess Anne (Low poultry operation density)	2.7	2.7	5.4	1.2
	Pocomoke City (High poultry operation density)	9.4	7.9	45.8	3.8
	Harmony (High poultry operation density)	7.5	6.2	32.2	1.9

September 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)	8.1	7.7	13.6	3.4
	Princess Anne (Low poultry operation density)	5.4	5	9.6	2.6
	Pocomoke City (High poultry operation density)	3.7	3.5	6.4	1.4
	Harmony (High poultry operation density)	5.7	5.7	9.5	1.7

NAAQS: National Ambient Air Quality Standards

September 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)	9.4	9.3	14.1	4.2
	Pocomoke City (High poultry operation density)	5.9	5.7	8.9	1.9
	Harmony (High poultry operation density)	13.9	13.9	22.1	5.3

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.