

Lower Eastern Shore Air Monitoring Project – January 2025 Summary

January 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)	5.9	5.5	18.8	-3.1
	Princess Anne (Low poultry operation density)	2.2	1.7	8.8	-0.2
	Pocomoke City (High poultry operation density)	5.7	3.4	64	-0.6
	Harmony (High poultry operation density)	3.9	3.8	16.7	-0.4

NAAQS: National Ambient Air Quality Standards

January 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)	9.3	8.6	17.9	3.7
	Princess Anne (Low poultry operation density)	6.2	5.4	13.1	2.4
	Pocomoke City* (High poultry operation density)	7.3	7.2	13.1	3.9
	Harmony (High poultry operation density)	7.1	5.9	15.9	2.5

NAAQS: National Ambient Air Quality Standards

January 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)	9.2	8.5	15.6	3.9
	Pocomoke City* (High poultry operation density)	14.3	12.8	20	10.7
	Harmony (High poultry operation density)	11	10.6	20	4.2

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.