

Lower Eastern Shore Air Monitoring Project – March 2025 Summary

March 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	5.7	18.2	0.2
	Princess Anne (Low poultry operation density)	2.6	2.2	8.1	0.4
	Pocomoke City (High poultry operation density)	7.1	6	65.6	0.2
	Harmony (High poultry operation density)	4.9	4.2	22.1	0.3

NAAQS: National Ambient Air Quality Standards

March 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	6.5	18.8	3.5
	Princess Anne (Low poultry operation density)	5.4	5	11.2	2.7
	Pocomoke City* (High poultry operation density)	5.4	5.1	11	2.7
	Harmony (High poultry operation density)	5.6	5	13.9	2.3

NAAQS: National Ambient Air Quality Standards

March 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)	10.9	9.9	25.9	5.8
	Pocomoke City* (High poultry operation density)	11.7	11	25.7	6
	Harmony (High poultry operation density)	12.3	11.8	28	6.1

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.