

Lower Eastern Shore Air Monitoring Project – January 2023 Summary

January 2023 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)	6.8	6.7	18.2	0.7
	Princess Anne (Low poultry operation density)	4.1	3.9	10.7	0.8
	Pocomoke City (High poultry operation density)	11.4	7.2	100	-0.1

January 2023 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)	6.7	5.8	18.1	1.7
	Princess Anne (Low poultry operation density)	7.1	6.4	15.1	2.8
	Pocomoke City (High poultry operation density)	6.9	6.3	13.1	3.1

NAAQS: National Ambient Air Quality Standards

January 2023 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)	10.4	9.8	20.9	4.3
	Pocomoke City (High poultry operation density)	10.9	10.5	18.9	5.4

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 on the project-to-data summaries