

Lower Eastern Shore Air Monitoring Project – December 2022 Summary

December 2022 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	22.2	0
	Princess Anne (Low poultry operation density)	3.8	3.7	19.6	1.3
	Pocomoke City (High poultry operation density)	15.5	8.7	228.7	-0.9

December 2022 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)	7.9	5.7	23.7	2
	Princess Anne (Low poultry operation density)	7.2	6.9	15.4	3.4
	Pocomoke City (High poultry operation density)	7.1	7	14.1	2.2

NAAQS: National Ambient Air Quality Standards

December 2022 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)	11.6	11.3	21.4	4.9
	Pocomoke City (High poultry operation density)	13.1	12.8	24.6	3.4

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