

Lower Eastern Shore Air Monitoring Project – May 2023 Summary

May 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)	6.9	6.3	22.2	0.8
	Princess Anne (Low poultry operation density)	2.7	2.4	11.5	0
	Pocomoke City (High poultry operation density)	8.5	7	85.3	1.7

May 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)	7.5	6.2	17.2	1
	Princess Anne (Low poultry operation density)	8.5	7.4	22.4	2
	Pocomoke City (High poultry operation density)	7.2	6	20.2	2.3

NAAQS: National Ambient Air Quality Standards

May 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)	17	16.9	38.7	4.8
	Pocomoke City (High poultry operation density)	15.2	14.4	33.1	7.3

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 on the project-to-data summaries

Note: Preliminary data – subject to change.