

Lower Eastern Shore Air Monitoring Project – October 2022 Summary

October 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)	5.9	5.8	15.1	1
	Princess Anne (Low poultry operation density)	4.7	4.6	9.7	1.7
	Pocomoke City (High poultry operation density)	8.6	6.7	67.1	0.3

October 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)	5.4	5	13.9	-0.2
	Princess Anne (Low poultry operation density)	6.1	6.3	10	0.9
	Pocomoke City (High poultry operation density)	5.2	5.5	7.9	1.5

NAAQS: National Ambient Air Quality Standards

October 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)	12.7	12.9	20	2.1
	Pocomoke City (High poultry operation density)	9.8	9.7	16.2	2.2

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 on the project-to-data summaries