Lower Eastern Shore Air Monitoring Project – September 2024 Summary

September 2024 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)	5.7	5.4	14.4	2.3
	Princess Anne (Low poultry operation density)	4.8	4.5	17.3	1.5
	Pocomoke City (High poultry operation density)	11.2	9.7	75.7	2.5
	Harmony (High poultry operation density)	6.1	6	17.6	1.7

NAAQS: National Ambient Air Quality Standards

September 2024 Data Summary for PM₂.₅   **NAAQS PM₂.₅ 24-hour standard = 35 µg/m³**

Parameter	Site	Average 24-hr value (µg/m³)	Median 24-hr value (µg/m³)	Maximum 24-hr value (µg/m³)	Minimum 24-hr value (µg/m³)
$PM_{2.5}$	Lake Montebello (Urban, no poultry operations)	4.2	4.1	8	0.1
	Princess Anne (Low poultry operation density)	5.6	5.2	10.5	3
	Pocomoke City* (High poultry operation density)	5.9	5.3	9.7	3.6
	Harmony (High poultry operation density)	5.1	5.1	7.9	2.5

NAAQS: National Ambient Air Quality Standards

September 2024 Data Summary for PM₁₀   **NAAQS PM₁₀ 24-hour standard = 150 µg/m³**

Parameter	Site	Average 24-hr value (µg/m³)	Median 24-hr value (µg/m³)	Maximum 24-hr value (µg/m³)	Minimum 24-hr value (µg/m³)
PM_{10}	Lake Montebello* (Urban, no poultry operations)	NA	NA	NA	NA
	Princess Anne (Low poultry operation density)	13.2	12.7	22	6.2
	Pocomoke City* (High poultry operation density)	14.7	14.4	22.9	9.5
	Harmony (High poultry operation density)	13	12.8	20.2	6

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.