

Lower Eastern Shore Air Monitoring Project – April 2020-September 2021 Summary

April 2020 – September 2021 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	Oldtown (Urban, no poultry operations)	6.7	6.6	26.9	-0.1
	Horn Point* (Rural, no poultry operations)	2.1	2.1	9.4	0.1
	Princess Anne (Low poultry operation density)	5.2	4.3	123.6	-1
	Pocomoke City (High poultry operation density)	11.2	8.5	218.7	0.2

April 2020 – September 2021 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}	Oldtown (Urban, no poultry operations)	7.1	6.4	28.7	0.8
	Horn Point* (Rural, no poultry operations)	5	4.7	16.7	-1
	Princess Anne (Low poultry operation density)	7.6	6.8	36	1.5
	Pocomoke City (High poultry operation density)	7.2	6.6	33.7	1.9

April 2020 – September 2021 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	Oldtown** (Urban, no poultry operations)	13.4	12.2	40.0	2.6
	Horn Point* (Rural, no poultry operations)	8.0	7.0	20.0	1.2
	Princess Anne (Low poultry operation density)	14.2	13.5	46.8	3.2
	Pocomoke City (High poultry operation density)	14.3	13.5	46.2	4.2

*Horn Point NH₃, PM_{2.5}, and PM₁₀ operated from April 1, 2020 through April 30, 2021, and were all discontinued in May of 2021.

**Oldtown station measures PM₁₀ with an FRM manual filter method. Values shown are through September 1, 2021.

NAAQS: National Ambient Air Quality Standards