



# Department of Environmental Conservation's Air Monitoring Program Community-Based Air Monitoring Project

## 2024-25 Winter Season Air Quality Report for Native Village of Chickaloon, Chickaloon, Alaska

The QuantaQ MODULAIR™ sensor in Chickaloon (9255 Glenn Hwy, Chickaloon, AK 99674) was installed on 08/07/2024.

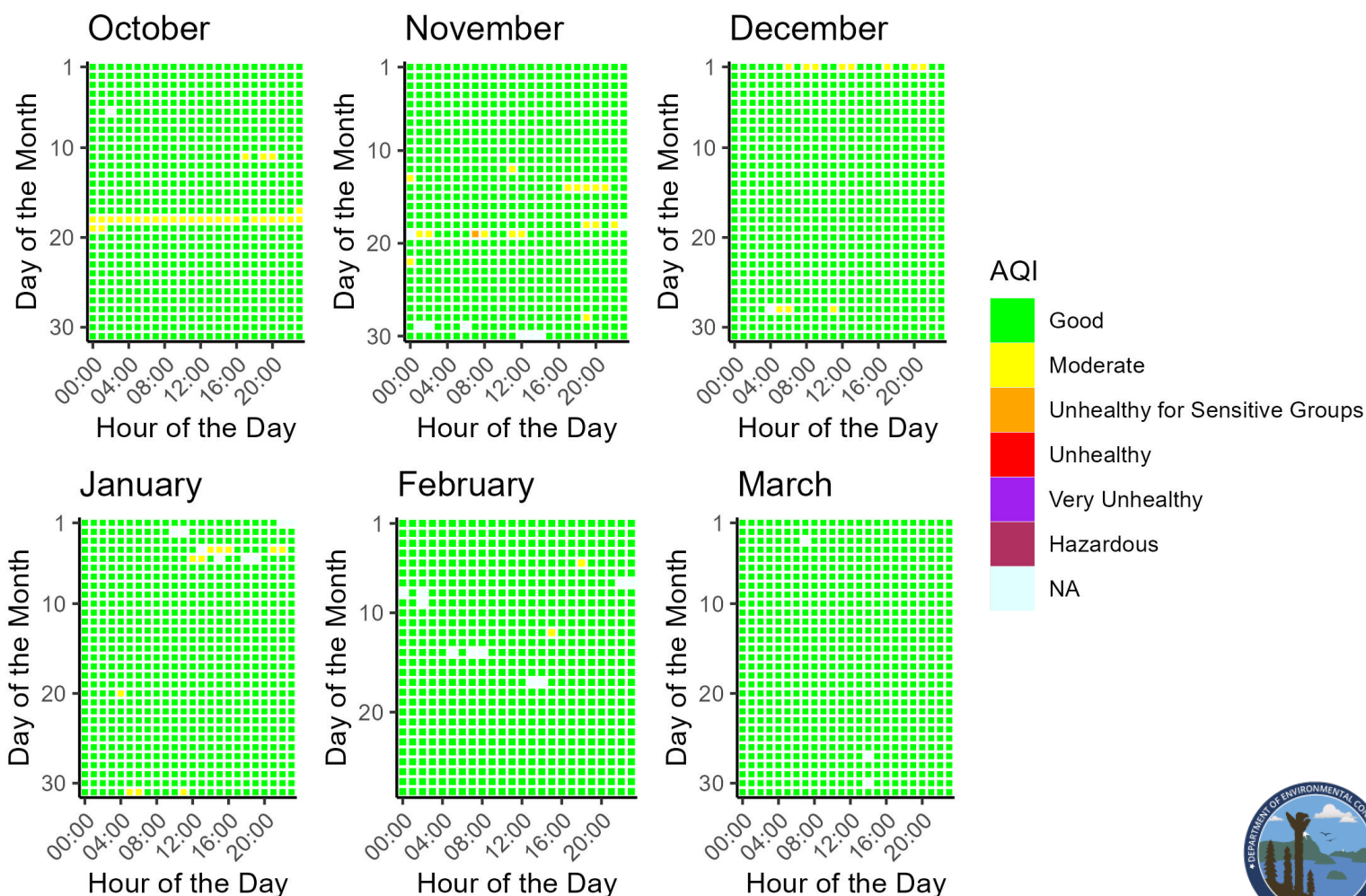
The sensor measures for carbon monoxide (CO), ozone (O<sub>3</sub>), nitrogen oxide (NO), nitrogen dioxide (NO<sub>2</sub>), particulate matter (PM<sub>2.5</sub> and PM<sub>10</sub>), temperature (°C), and relative humidity (RH). Data is collected every minute and is then processed into hourly averages.

The sensor in Chickaloon has run well since its installation in August of 2024; there have been no physical issues with the sensor.

This data report covers the date range of October 1, 2024, to March 31, 2025.

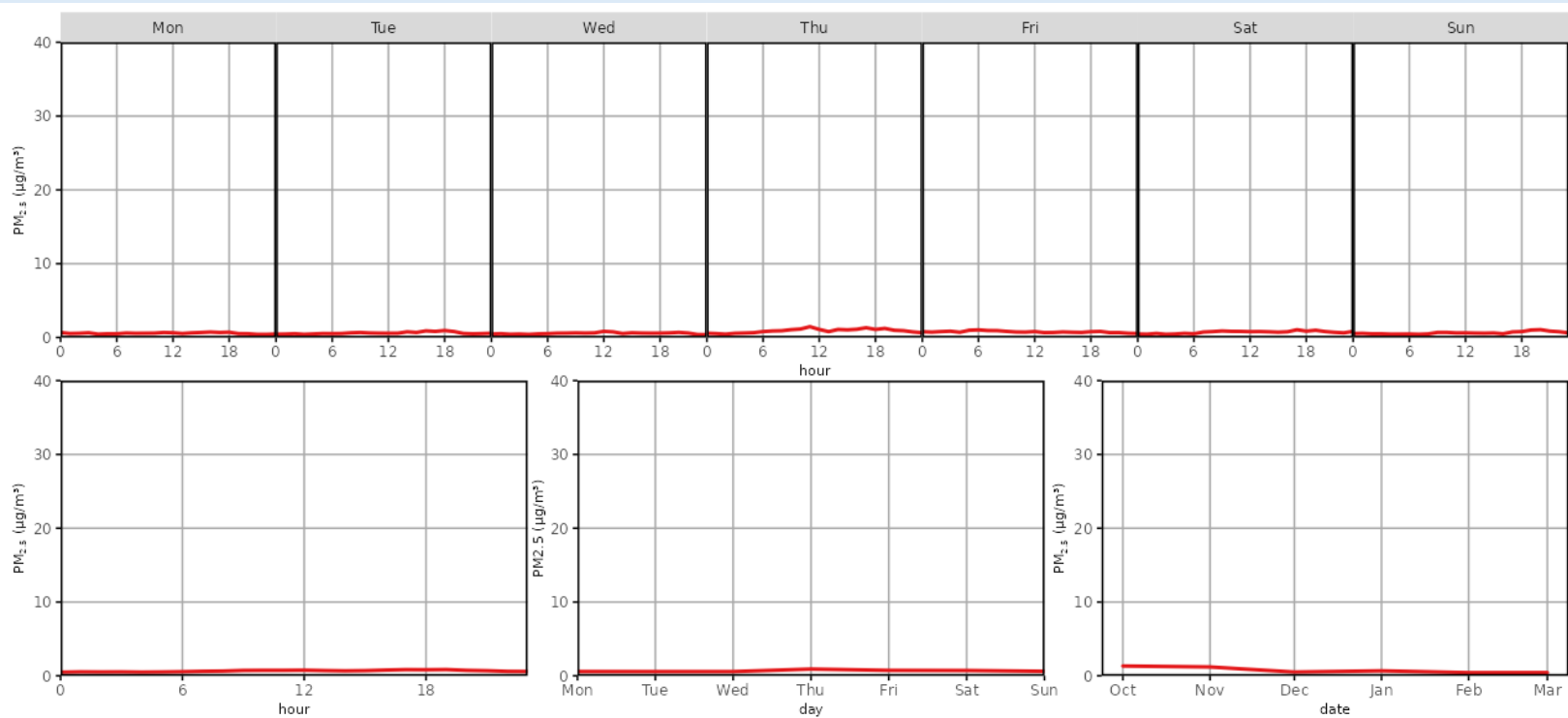


### Daily PM<sub>2.5</sub> Air Quality Index (AQI) for October 1, 2024 - March 31, 2025



# 2024-25 Winter Season Air Quality Report for Native Village of Chickaloon

## Median PM<sub>2.5</sub> Concentrations for October 1, 2024 - March 31, 2025



## Descriptive Statistics of Air Pollutants\*

Parameter	1-hr PM <sub>2.5</sub> (µg/m <sup>3</sup> )	24-hr PM <sub>2.5</sub> (µg/m <sup>3</sup> )	1-hr PM <sub>10</sub> (µg/m <sup>3</sup> )**	24-hr PM <sub>10</sub> (µg/m <sup>3</sup> )**	1-hr O <sub>3</sub> (ppb)	1-hr NO <sub>2</sub> (ppb)	1-hr NO (ppb)	1-hr CO (ppb)
Min	0.04	0.15	0.00	0.62	15.20	4.06	1.19	0.20
Mean	1.43	1.34	19.57	15.07	36.78	22.26	2.99	0.54
1 <sup>st</sup> Max	38.09	22.09	989.00	154.75	48.00	35.36	18.81	1.00
2 <sup>nd</sup> Max	33.52	8.89	986.00	132.04	47.80	35.17	11.65	1.00

## Data Discussion

Chickaloon’s PM<sub>2.5</sub> ambient air quality for the winter 2024-25 season reported consistently in the “good” range of the Air Quality Index (AQI; more information about AQI is provided on page 3) with several hours in the “moderate” AQI range throughout each month. Diurnal patterns show little variability of PM<sub>2.5</sub> concentrations across different times of day, days of the week, or months of the season.

\* These statistics are based on preliminary data readings and are intended to provide a brief overview of sensor activity. Finalized data may be obtained upon request and through our annual statistical reports. Data from the community sensor network is non-regulatory and not comparable to the EPA’s National Ambient Air Quality Standards (NAAQS; more information about the EPA NAAQS is provided on page 3).

\*\* PM<sub>10</sub> particle sensors are influenced by weather events such as fog and snow due to hygroscopic effects, creating false maximum values that do not pose health risks.



## Resources



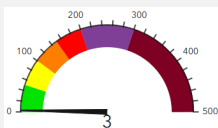
[Alaska Department of Environmental Conservation](#)



[EPA NAAQS Information](#)



[Air Quality Index \(AQI\) Basics](#)



[Real-Time AQI Data](#)



## Data Access

To access historical data for your community's sensor, please email a request to:  
[AMQA-Data-Request@alaska.gov](mailto:AMQA-Data-Request@alaska.gov) . Data will be provided in Excel or .csv format.

## Questions or Comments?

Please contact us!

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