

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

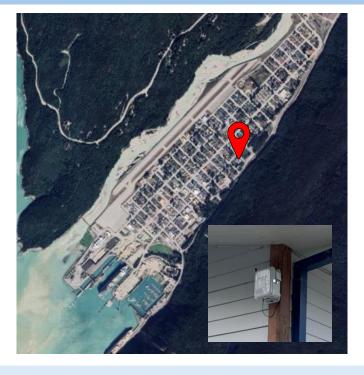
2024 Summer Season Air Quality Report for Skagway Traditional Council, Skagway, Alaska

The QuantAQ MODULAIR sensor in Skagway (253 11th Ave, Skagway, AK, 99840) was installed on 01/31/2024.

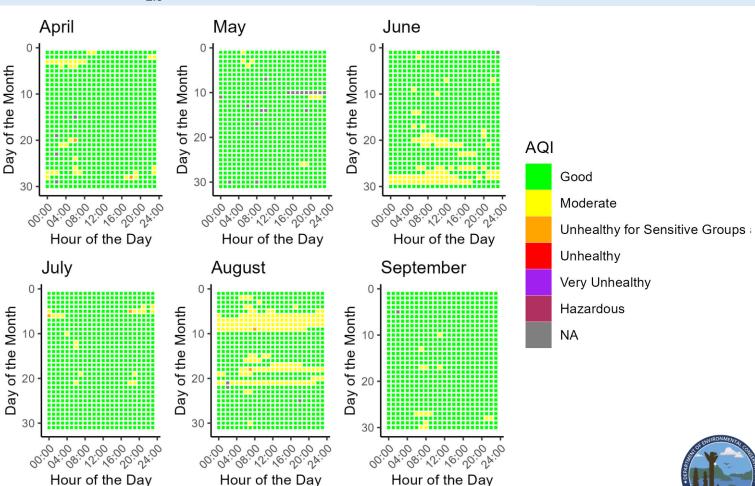
The sensor measures for carbon monoxide (CO), ozone (O_3) , nitrogen oxide (NO), nitrogen dioxide (NO_2) , particulate matter $(PM_{2.5}$ and $PM_{10})$, temperature (°C), and relative humidity (RH).

Data is collected every minute and is then processed into hourly averages. The sensor in Skagway has run well since its installation in January of 2024; there have been no physical issues with the sensor.

This data report covers the date range of April 1, 2024, to September 30, 2024.



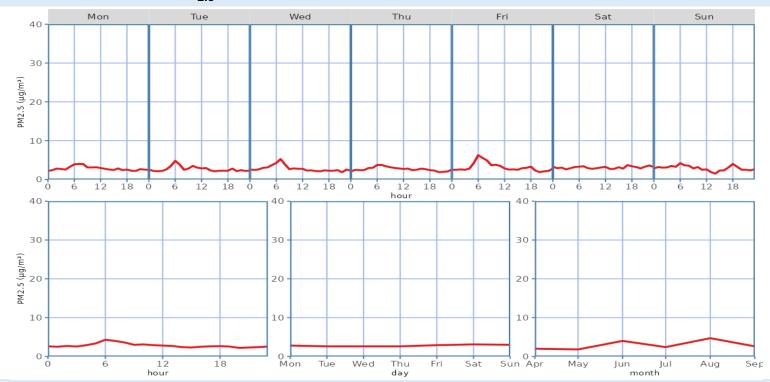
Daily PM_{2.5} Air Quality Index (AQI) for April 1, 2024 - September 30, 2024



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2024 Summer Season Air Quality Report for Skagway Traditional Council

Median PM_{2.5} Concentrations for April 1, 2024 - September 30, 2024



Descriptive Statistics of Air Pollutants*

Parameter	1-hr PM _{2.5} (µg/m³)	24-hr PM _{2.5} (μg/m³)	1-hr PM ₁₀ (µg/m³)	24-hr PM ₁₀ (μg/m³)	1-hr O ₃ (ppb)	1-hr NO ₂ (ppb)	1-hr NO (ppb)	1-hr CO (ppb)
Min								
	0.10	0.40	1.00	0.40	13.05	1.38	1.41	327.16
Mean								
	3.96	3.95	11.42 **	10.75 **	28.82	9.12	5.98	443.99
1 st Max								
	51.70	18.00	2884 **	55 **	54.95	32.79	494.25	904.12
2 nd Max								
	39.60	17.70	549 **	35 **	54.93	32.68	290.33	875.26

Data Discussion

Skagway's $PM_{2.5}$ ambient air quality for the summer 2024 season fell mostly in the "good" range of the Air Quality Index (AQI; more information about AQI is provided on page 3), with several very brief periods of "moderate" AQI levels each month. April, July, and August also experienced several hour-long periods of "unhealthy for sensitive groups" AQI levels. Daily patterns show an increase in $PM_{2.5}$ concentrations occurring regularly around 6:00am. Diurnal patterns show little variability of $PM_{2.5}$ concentrations across different days of the week. From April to September, June and August showed the highest concentrations of $PM_{2.5}$, potentially due smoke carried from wildfires in Canada.

* 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).

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^{**} PM10 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.

2024 Summer Season Air Quality Report for Skagway Traditional Council

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 . Data will be provided in Excel or .csv format.

Questions or Comments?

Please contact us!

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