

## Guide for the First Time Envista User

New to the Air Monitoring Network? Below, we suggest a few of simple ways to use this website. When you click the web address, you will be connected to the main page of the Alaska Air Monitoring Network web site. **A pop-up may appear on your browser; you must choose to accept non-secure content for the web site to work properly.** There is no need to log in.

### What is the air quality index near me?

1. The map on the main page shows monitoring locations (in dots) and with current air quality color-coded (e.g. a green dot means "Good" air quality. You can zoom in by clicking  on the upper left side of the map.
2. Click on one of the stations on the map then click "**ClickStationInfo**" in the window that appears. In the upper right of this page, the latest air quality condition is indicated as "Air Quality Index Value". This value is a measure of overall air quality calculated from the concentrations of multiple pollutants. (Index values 0-50 = Good; 51-100 = Moderate; 101-150 = Unhealthy for Sensitive Groups; 151-200 = Unhealthy; 201-300 = Very Unhealthy)

### If you are interested in the particulate concentrations in the air, look up:

- PM10L (particulates less than 10 microns in diameter or PM-10)
- PM25L (particulates less than 2.5 microns in diameter or PM-2.5)
- PMc (particulates larger than 2.5 microns but smaller than 10 microns or PM-coarse).

(Most dust is greater 2.5 microns in size (about 1/30<sup>th</sup> the diameter of a human hair), so on dusty days we see a spike in PM-10 and PM-coarse but not PM2.5. Smoke is composed mostly of smaller PM-2.5 particles so on smoky days we see a spike in PM-2.5.)

Ozone (O<sub>3</sub>) data are available from the Garden (Airport Heights) and Parkgate (Eagle River) stations. Carbon monoxide (CO) is not monitored between April and September because CO concentrations are low during this time.

### Historical air quality reports are available through this website. For example: What were carbon monoxide and dust levels on March 10, 2010 at the Parkgate station in Eagle River?

Note: Archived data are available starting January 2009.

1. Click on "**Data Reports**" in the left column on the main page and then click on "**Station Report**". A new page will be loaded.
2. From the drop-down window below "**Station**", choose "**Parkgate**", and make sure that "**Daily**" option at the top of the page is checked.
3. Click on the calendar icon next to "**Start Date**", and select month and date of interest (March 10, 2010).
4. From the drop-down window next to "**Time Base**", chose desired report interval. Choosing "**1 Hour**" will allow you to see hourly data on March 10, 2010. Click "**Generate Report**".
5. In the report, look up carbon monoxide (CO) and dust parameters (PM10L, PM25L, PMc).

Extra Envista credit:

**What were carbon monoxide levels in March 2010 across all the monitoring sites?**

1. Click on "Data Reports" in the left column on the main page and then click on "Group". A new page will be loaded.
2. From the drop-down window below "Group", choose "CO", and check the "Periodic" option at the top of the page.
3. Click on the calendar icon next to "Start Date" and select March 1, 2010. In the same manner, select March 31, 2010 as "End Date". Click "Generate Report". (Note: you may choose Excel format as a report output by checking "Excel" at the top of the page)
4. From the drop-down window next to "Time Base", choose desired report interval. Choosing "1 Hour" will allow you to see hourly data in March, 2010. Click "Generate Report".
5. If the report is multiple pages, you can see other pages by clicking ► or ►► or by manually typing in the page number at the bottom of the page. If you have chosen Excel format before generating the report, all the data will be shown on one spread sheet.

Let us know what you think. E-mail us at [WWHHS@muni.org](mailto:WWHHS@muni.org). Please put "Air Monitoring Network" in the subject of your message:

Note: All times displayed on the Alaska Air Monitoring Network page refer to Alaska Standard Time.

## Envista Glossary

Under "Data Reports", following types of data since January 2009 are available:

Option	Available Data Types
<b>Station Reports</b>	Data report by monitoring site. There are six monitoring sites you can chose from: DHHS, Floyd Dryden, Garden, Palmer, Parkgate, and Wasilla.
<b>Group</b>	Data report by monitored component. There are five components for which data are available: CO, PM10, PM2.5, Temp Ambient, and Ozone.
<b>Matrix</b>	Hourly data report for single monitored component per site for the entire month you have specified.

### Station Locations

Station Abbreviation	Physical Location
<b>DHHS</b>	Downtown Anchorage (near Dept. of Health & Human Services Bldg)
<b>Floyd Dryden</b>	Floyd Dryden Middle School in Juneau
<b>Garden</b>	East Anchorage (Airport Heights neighborhood)
<b>Palmer</b>	Downtown Palmer (near airport)
<b>Parkgate</b>	Downtown Eagle River
<b>Wasilla</b>	Downtown Wasilla (near fire station)

### Abbreviations of Monitored Components

Monitoring component Abbreviation	Description
<b>CO</b>	Carbon monoxide in ppm
<b>PM10, PM10L</b>	Airborne particulate matter with diameter smaller than 10 µm
<b>PM2.5, PM25, PM25L</b>	Airborne particulate matter with diameter smaller than 2.5 µm
<b>PMc</b>	Airborne particulate matter with diameter smaller than 10 µm and larger than 2.5 µm
<b>Ozone, O3</b>	Ozone concentration in ppb
<b>BP</b>	Barometric pressure in mm/Hg ("m" and "s" at the end indicate two different instruments)
<b>T_Amb</b>	Ambient temperature in Celsius ("m" and "s" at the end indicate two different instruments)
<b>Wind Dir V</b>	Wind direction in degrees

**Note: Other parameters that appear on this website are for the Air Quality Program personnel who use them to assure data quality.**