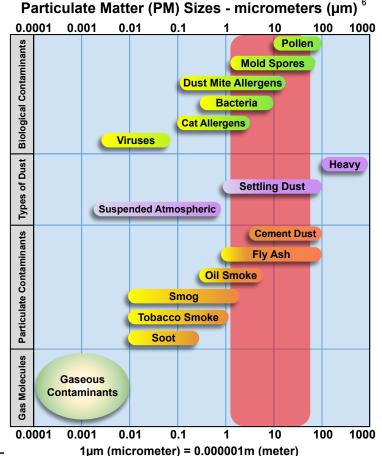
WHAT DOES THE AIR QUALITY SURVEY DATA MEAN?

PM2.5 & PM10 - Particulate Matter:

Reductions in airborne particulate matter have been shown to have a wide range of positive effects¹. The toxicity of particulate matter depends on the type of particulate matter, but elevated particulate levels of all types have been associated with adverse health effects.

| PM2.5/10 (μg/m³) | LEVEL ² | MEANING |
|------------------|-----------------------------------|--|
| 0 - 50 | Good | Air quality is considered satisfactory air pollution poses little or no risk |
| 50 - 100 | Moderate | Air quality is acceptable |
| 100 - 150 | Unhealthy for Sensitive Groups | Members of sensitive groups may experience health effects |
| 150 - 200 | Unhealthy | Everyone may begin to experience health effects |
| 200 - 300 | Very Unhealthy | Health Alert: Everyone may experience more serious health effects |
| 300 - 500 | HAZARDOUS | Health Warning: Emergency conditions |



eTVOC - Equivalent Total Volatile Organic Compound:

Total VOC concentration represents all VOCs in the air. Some types of VOCs like formaldehyde are very dangerous and should be monitored at lower levels. Below is guidance published by the German Federal Environmental Agency that allows for direct comparison to the assessment data readings.

| eTVOC (ppb) | LEVEL | EXPOSURE LIMIT | RECOMMENDATIONS ³ |
|-------------|------------|----------------|---|
| 0 - 65 | Background | No Limit | No action required |
| 65 - 220 | Normal | No Limit | Ventilation recommended |
| 220 - 660 | Elevated | < 12 Months | Ventilation recommended, look for sources |
| 660 - 2,200 | High | < 1 Month | Intensified ventilation, look for sources |
| > 2,200 | Dangerous | Hours | Should be avoided, intense ventilation |

eCO₂ - Carbon Dioxide Equivalent:

Elevated levels of carbon dioxide can cause headache and fatigue, while very high concentrations can cause dizziness, nausea, and vomiting. Extremely high levels can cause loss of consciousness and even death.

| eCO ₂ (ppm) | LEVEL | HEALTH EFFECTS⁴-5 | |
|------------------------|------------|---|--|
| 250 - 350 | Background | Normal level for outdoor air | |
| 350 - 1,000 | Normal | Typical concentrations found in indoor air | |
| 1,000 - 2,000 | Elevated | Symptoms will begin to develop, starting with drowsiness | |
| 2,000 - 5,000 | High | Headaches, sleepiness, poor concentration, increased heart rate and slight nausea | |
| > 5,000 | Dangerous | Dizziness, fatigue, nausea, vomiting, loss of consciousness and death | |

Fisk, W.J. (2013). Health benefits of particle filtration. Indoor Air,23(5), 357-368. doi:10.1111/ina. 12036

² https://www.airnow.gov/index.cfm?action=aqibasics.aqi#good

^{*} http://www.innenraumanalytik.at/pdfs/handreichung.pdf

https://www.dhs.wisconsin.gov/chemical/carbondioxide.htm

https://ohsonline.com/articles/2016/04/01/carbon-dioxide-detection-and-indoor-air-quality-control.aspx?m=1

⁶ https://www.medical-reference.net/2014/01/what-are-particulate-matter-25.html