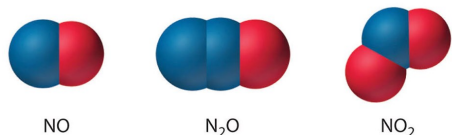


AIR QUALITY FACT SHEET GLADSTONE

NITROGEN OXIDES



Representation of nitrogen oxides molecules

All Gladstone air quality monitoring stations had annual averages of Nitrogen dioxide well below the objective value in December 2017 to November 2018.



Nitrogen oxides produce the yellowish-brown haze seen in cities called smog.

Gas stoves and gas or wood heaters can be sources of nitrogen oxides.



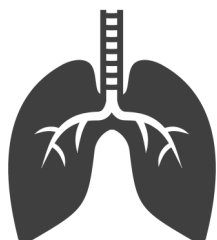
General outdoor nitrogen dioxide levels are below the 1-hour standard. Exposure at these levels does not generally affect human health.



The recommended air quality standards for nitrogen dioxide are:

- <0.12 parts per million (ppm) for a 1-hour exposure period
- <0.03ppm for an annual exposure period.

Nitrogen dioxide is odorous, and is highly corrosive. Elevated levels of nitrogen dioxide can damage the human respiratory system.



Ambient concentrations of nitrogen dioxide. Annual average concentrations (ppm), December 2017 to November 2018.

Air Quality Monitoring Station	Annual Average Concentration (ppm)
Targinie	0.004
Fisherman's Landing	0.003
Boat Creek	0.005
Clinton	0.004
Memorial Park	0.005
South Gladstone	0.005
Boyne Island	0.002

Boyne Island had the lowest annual average of nitrogen dioxide from December 2017 to November 2018.

Memorial Park, Boat Creek and South Gladstone had the highest annual average of nitrogen dioxide from December 2017 to November 2018.

Nitrogen oxides (NO_x) are emitted from industrial fuel combustion, agricultural activity, household heating, cigarette smoke, bushfires and lightning.

