



Total suspended particulate matter concentrations at Penrose, Auckland, 1965–16

Title	Total suspended particulate matter concentrations at Penrose, Auckland, 1965–16
Publisher	New Zealand's Environment Reporting Series: The Ministry for the Environment and Statistics New Zealand
Description	Total suspended particulate matter (TSP) consists of solid and liquid airborne particles that are smaller than 100 micrometres in diameter. Although, by weight, it is dominated by the larger particles it does also include the PM10 and PM2.5 sub-fractions that are responsible for most health effects, such as respiratory and cardiovascular disease, and some cancers. TSP can be emitted from earthworks, construction and roadworks, and the combustion of fuels such as wood and coal (eg, from home heating and industry), and petrol and diesel (from vehicles). Natural TSP sources include sea salt, dust, pollen, smoke (from bush fires), and volcanic ash. TSP consists of airborne particles up to 100 micrometres (µm) in diameter (PM100). TSP is small enough to be inhaled; however, larger particles (10–100µm) are filtered out in the nasal cavity and are often relatively harmless. TSP can be emitted from earthworks, construction, and roadworks, and from combustion of fuels, such as wood and coal (eg, home heating and industry), and petrol and diesel (from vehicles). Natural sources of TSP include sea salt, dust, pollen, smoke (from bush fires), and volcanic ash. TSP also forms from reactions in the atmosphere between gases or between gases and other particles. More information on this dataset and how it relates to our environmental reporting indicators and topics can be found in the attached data quality pdf.
Source	Auckland Council
Rights	Creative Commons Attribution 4.0 New Zealand
Rights	Attribution 4.0 International
Rights	https://creativecommons.org/licenses/by/4.0/
Coverage	1965–16
Identifier	https://data.mfe.govt.nz/table/98422-total-suspended-particulate-matter-concentrations-at-penrose-auckland-196516/
Identifier	OA18/014
Type	Dataset

Language

| eng-nz

Subject

| Environmental reporting series: Our air 2018