PORT OF TOWNSVILLE
delivering sustainable prosperity

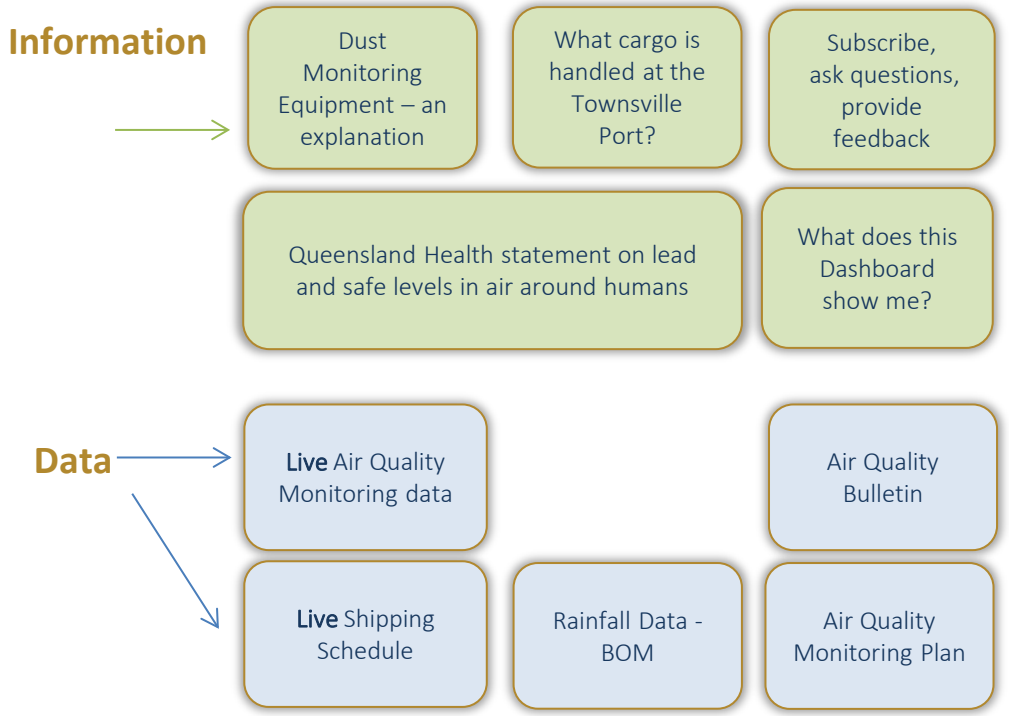
Air Quality Dashboard | CALENDAR YEAR | 2025

AIR QUALITY MONITORING IN TOWNSVILLE

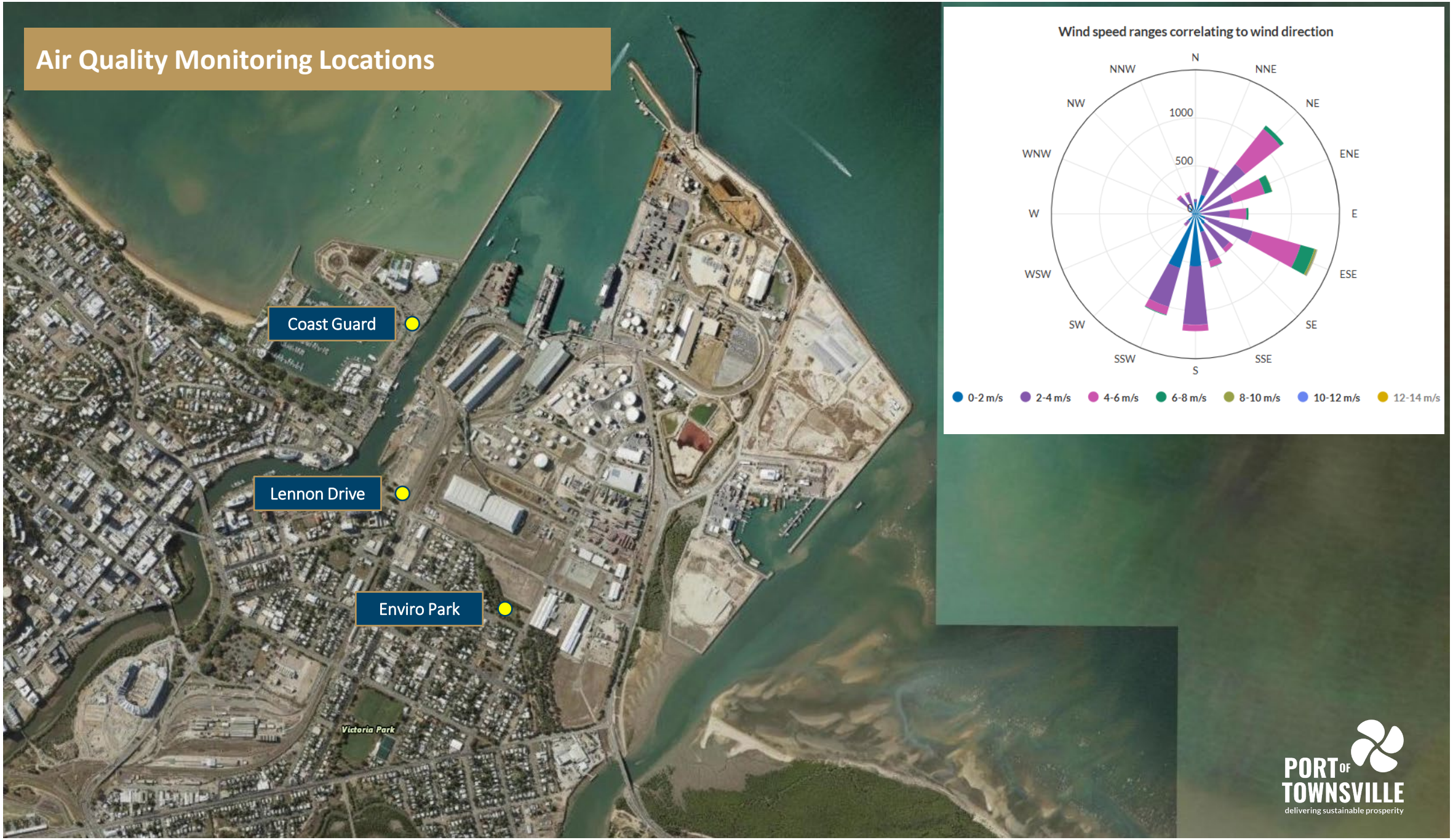
Air Quality Monitoring in Townsville is conducted separately by both the Department of Environment and Science (DES), and Port of Townsville Limited.

Click here to visit the Port of Townsville's monitoring network

Click here to visit DES monitoring network



Air Quality Monitoring Locations



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Port of Townsville Overview

First established in 1864, the Port of Townsville operates eight berths handling an average of $10 billion in trade annually, servicing more than 136 ports around the globe.

In 2024-25, the Port took deliberate steps to enhance operational capability and future-proof its services. Through targeted infrastructure investment and enabling increased transhipment trade, such as motor vehicle imports, the Port strengthened its ability to meet volving industry needs and support a more diverse cargo mix. These initiatives reflect a strategic commitment to growth, innovation, and delivering long-term value to customers and the region.

Total trade volume was 6,990,894 million tonnes, with 6,541,374 tonnes through the Port of Townsville and 449,520 tonnes through the Port of Lucinda.

- Located in the heart of Northern Australia's largest city, the port acts as a critical hub handling over 30 diverse commodities, handling over 7 million tonnes of cargo and facilitating $10-12 billion in trade value, annually.
- The port supports a diverse range of sectors including mining, agriculture, automotive, energy, manufacturing, construction, defence and tourism.

Commodities/cargo that passes over the Townsville Port's berths include:

Imports
Containers and general cargo, motor vehicles, tyres, bulk products - cement, sulphuric acid, fertiliser, sulphur, zinc concentrate and petroleum (fuel) products.

Exports

General cargo, containers, timber, cattle, tallow, refined metal products, bulk products - sugar, molasses, fertiliser and mineral concentrates (zinc, copper, lead).

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OR

Phone 07 4781 1500 and asked to be added to the list.

Ask a Question / Provide Feedback

Send your enquiry or feedback to community@townsvilleport.com.au

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Calendar Year Average PM_{10} dust levels (continuous) at boundary air stations 2025

PM10	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	15.13 µg/m^3	Continuous	25 µg/m^3
Lennon Drive	15.52 µg/m^3	Continuous	25 µg/m^3
Enviro Park	15.57 µg/m^3	Continuous	25 µg/m^3

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Calendar Year Average Arsenic in PM_{10} dust levels (one in six days) at boundary air stations 2025

Arsenic	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	0.0010 µg/m^3	HVAS PM10	0.006 µg/m^3
Lennon Drive	0.0012 µg/m^3	HVAS PM10	0.006 µg/m^3
Enviro Park	0.0014 µg/m^3	HVAS PM10	0.006 µg/m^3

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Calendar Year Average Cadmium in PM_{10} dust levels (one in six days) at boundary air stations 2025

Cadmium	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	0.0003 µg/m^3	HVAS PM10	0.005 µg/m^3
Lennon Drive	0.0003 µg/m^3	HVAS PM10	0.005 µg/m^3
Enviro Park	0.0002 µg/m^3	HVAS PM10	0.005 µg/m^3

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Calendar Year Average Nickel in PM_{10} dust levels (one in six days) at boundary air stations 2025

Nickel	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	0.0031 µg/m^3	HVAS PM10	0.02 µg/m^3
Lennon Drive	0.0025 µg/m^3	HVAS PM10	0.02 µg/m^3
Enviro Park	0.0013 µg/m^3	HVAS PM10	0.02 µg/m^3

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Calendar Year Average Arsenic in dust deposition levels (monthly) at boundary stations 2025

Arsenic	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	0.51 µg/m^2/day	Dust deposition	4 µg/m^2/day
Lennon Drive	0.62 µg/m^2/day	Dust deposition	4 µg/m^2/day
Enviro Park	0.71 µg/m^2/day	Dust deposition	4 µg/m^2/day

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Calendar Year Average Cadmium in dust deposition levels (monthly) at boundary stations 2025

Cadmium	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	0.91 µg/m^2/day	Dust deposition	2 µg/m^2/day
Lennon Drive	0.59 µg/m^2/day	Dust deposition	2 µg/m^2/day
Enviro Park	0.55 µg/m^2/day	Dust deposition	2 µg/m^2/day

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Calendar Year Average Lead in dust deposition levels (monthly) at boundary stations 2025

Lead	Calendar Year Average	Monitoring Method	Air Quality Limit
Coast Guard	72.4 µg/m^2/day	Dust deposition	100 µg/m^2/day
Lennon Drive	36.0 µg/m^2/day	Dust deposition	100 µg/m^2/day
Enviro Park	23.7 µg/m^2/day	Dust deposition	100 µg/m^2/day

This statement/advice was provided by Queensland Health in relation to blood lead levels in Townsville in April 2016

Environmental limits for lead are set using a number of possible criteria including potential health effects.

Blood lead level within the Australian population have been decreasing over time as the use of lead – particularly in petrol and paint - has been phased put. The most recent NHMRC guidance document suggests that a blood lead level of less than 5 µg/dL is what should be expected in the general population.

Elevated blood lead levels are notified to Queensland Health for investigation. Previously this level was 10 µg/dL but since the beginning of 2016 has been reduced to 5 µg/dL. This is not an indication of a safe blood level, but is a trigger level that requires investigation into what in the individual's environment is contributing to the level.

Based on studies recognised by the World Health Organisation into the relationship between lengthy exposure to ambient air lead levels and increases in blood lead levels, the current 12 month rolling average for measurements (as at March 2016) at the Townsville Coast Guard Site could be expected to add between 0.36 µg/dL and 0.6 µg/dL to a person's total blood lead level. This increment is only about 10% of the level that would require further investigation. Along with other normal exposure, this would not be expected to exceed that level, is well within the expected community range, and below the level that would trigger further investigation.

The highest rolling annual average in recent years (recorded in May 2014 at the Townsville Coast Guard Site) yields a predicted result of between 1.14 µg/dL and 1.9 µg/dL, still well under the level which should trigger concern.