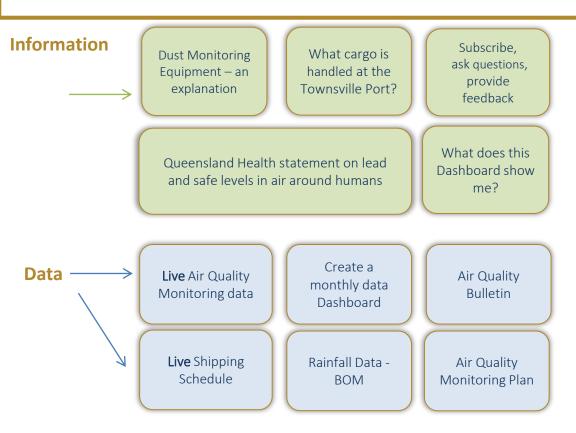
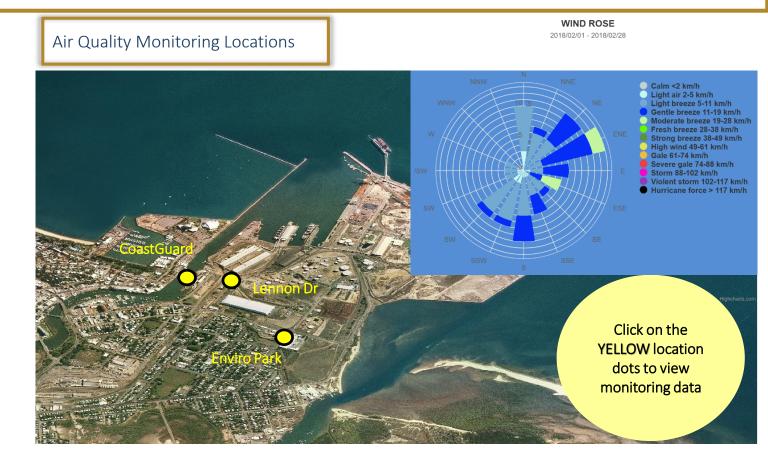
Townsville Port | Air Quality Dashboard | FEBRUARY 2018





SHIPPING MOVEMENT

Date	Vessel Name	Berths	Cargo
In/Out	vessei Naine	bertiis	Cargo
2-5	ADF	10	Army Equipment
4-7	GLORIOUS SUNRISE	A/8	Fertilizer
5-7	KOTA NAGA	A/3	Containers
6-8	NUEVA FORTUNA	9	Sugar
7-14	SUN METALS CORORATION	W10.1	NIL
7-9	AFRICAN ROBIN	8	Sulphur
8-10	CORESHIP OL	3	Zinc Concentrates
9-10	DAREEN	3	Cattle/Fodder
10-11	THERESA MICRONESIA	8	Molasses
10-11	SOFRANA TOURVILLE (NEW)	3	Containers
11-12	GRAND AURORA	9	Motor Vehicles
12-14	AGIOS NIKOLAS	LA/L1	Sugar
12-13	FLORA DELMAS	3	Containers
12-13	GANADO EXPRESS	3	Cattle/Fodder
13-15	LUGA	4	Cement
	GRAND NEPTUNE	9	Motor Vehicles
13-14	STOLT MOMIJI	1	Fuels
	BERGE HAKODATE	8	Fertilizer
14-14	GRACIOUS ACE	9	Motor Vehicles
14-15		1	Fuels
15-16	ARION	TMP 1	NIL

In/Out	vessei name	Bertiis	Cargo
15-16	NAVE LUMINOSITY	1	Fuels
16-16	SEVEN SEAS VOYAGER	10	Passenger Vessel
16-17	GUARDIAN LEADER	9	Motor Vehicles
16-18	GULF COAST	1	Fuels
17-17	ARTANIA	10	Passenger Vessel
17-21	SUN METALS CORORATION	W10.1	NIL
17-19	IDSHIP BULKER	9	Sugarr
17-19	QUEEN ESTHER	3	Containers
18-18	DIAMANTINA	3	Cattle/Fodder
19-21	THORCO ISABELLA	9	Concentrates
19-20	GREYMAN EXPRESS	3	Cattle/Fodder
21-23	SHORTHORN EXPRESS	10	Cattle/Fodder
21-24	KOTA NIPAH	3	Containers
21-26	ERNA OLDENDORFF	A/11/8	Mineral Concentrates
22-23	XIU YU HAI	9	Fertilizer
22-26	PACIFIC CONDOR	3	Containers, copper refined
23-24	DEVON EXPRESS	10	Cattle/Fodder
25-25	SILVER WHISPER	10	Passenger Vessel
25-26	LILY_OLDENDORFF	11	Lead concentrates
25-26	GLOUCESTER EXPRESS	10	Cattle/Fodder

Date In/Out	Vessel Name	Berths	Cargo
26-27	MTS STATUM	10	Steel pipes
27-27	GRAND DUKE	9	Motor Vehicles
28-28	SEABOURN ENCORE	10	Passenger Vessel
28-01	OCEAN UTE	3	Cattle/Fodder



AIR QUALITY MONITORING IN TOWNSVILLE

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

Click here to visit DEHP's monitoring network

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

Port of Townsville - Overview

First established in 1864, the Port of Townsville is operates eight berths handled more than \$8 billion in trade during the 2016/2017 financial year; servicing more than 136 ports around the globe. Townsville is the number one port in Australia for copper, zinc, lead and sugar exports and services 70% of the Northern Australia population. More than 20 shipping lines operate out of the Townsville Port offering more than 40 different services.

Townsville is also a strategic Navy port and facilitates cruise ship visits – expecting 19 vessel visits in 2018.

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

Imports

Motor vehicles, shipping containers (general cargo), cement, sulphuric acid, fertiliser, copper, nickel, zinc, copper anode, petroleum products, sulphur, containers, tyres.

Exports

Sugar, timber, fertiliser, shipping containers (general cargo) cattle, refrigerated meat, magnetite, copper, lead, zinc, zinc ferrites, zinc oxide, silver, molasses, sand, gravel, coke, project cargo.



Subscribe to Dashboard Updates

Visit our website and subscribe here https://www.townsville-port.com.au/environment-community/community/newsletter-sign-up/

OR

Visit the <u>Port of Townsville Facebook page</u> and click on "Sign up" at the top of the page.

OR

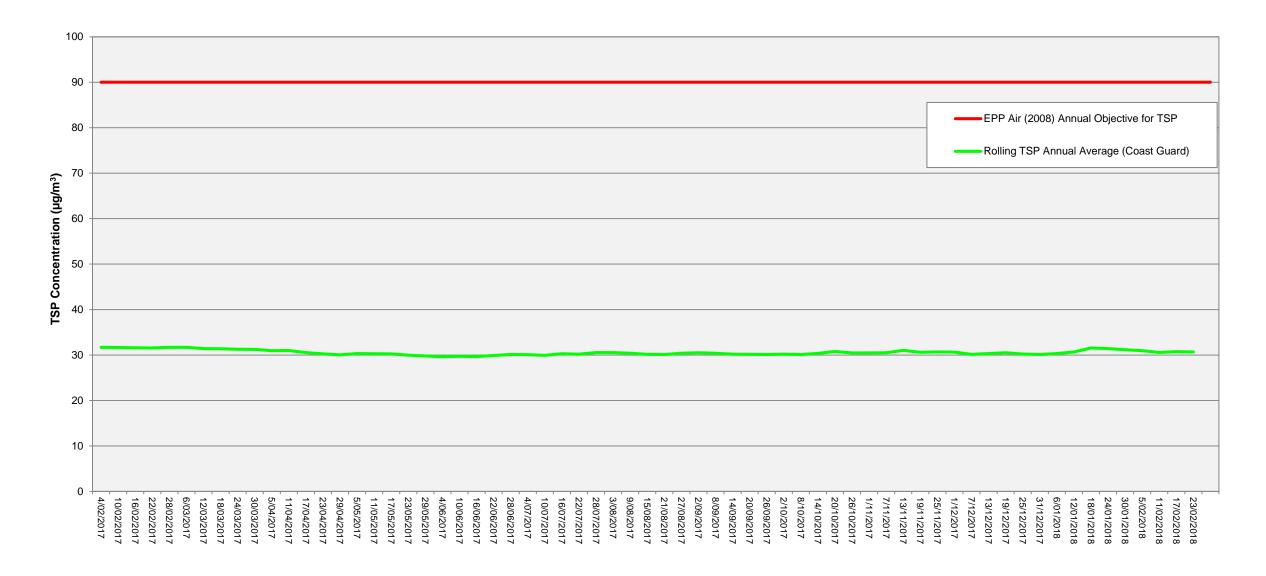
Phone 07 4781 1551 and asked to be added to the list.

Ask a Question / Provide Feedback

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



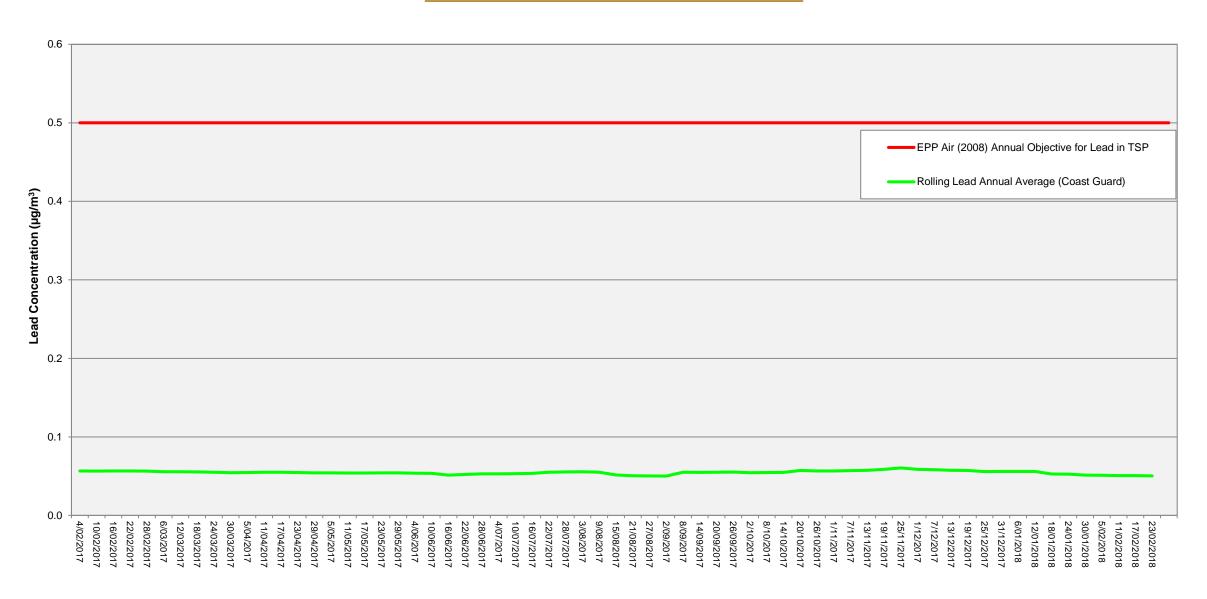
Hi-Volume Sampler - General total dust levels (one in six days) at Coast Guard Site FEBRUARY 2017 – FEBRUARY 2018



Note:

TSP Concentration units = micrograms per cubic metre per 24 hour period Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site FEBRUARY 2017 - FEBRUARY 2018

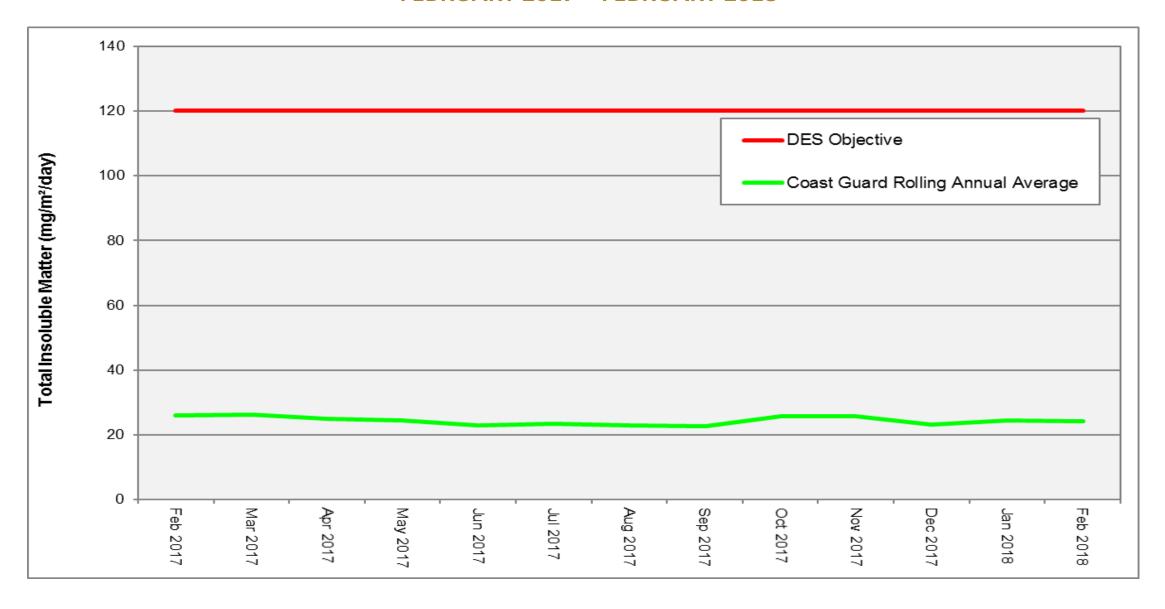


Note:

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Dust Deposition Gauge - General dust deposition levels (monthly) at Coast Guard Site FEBRUARY 2017 - FEBRUARY 2018



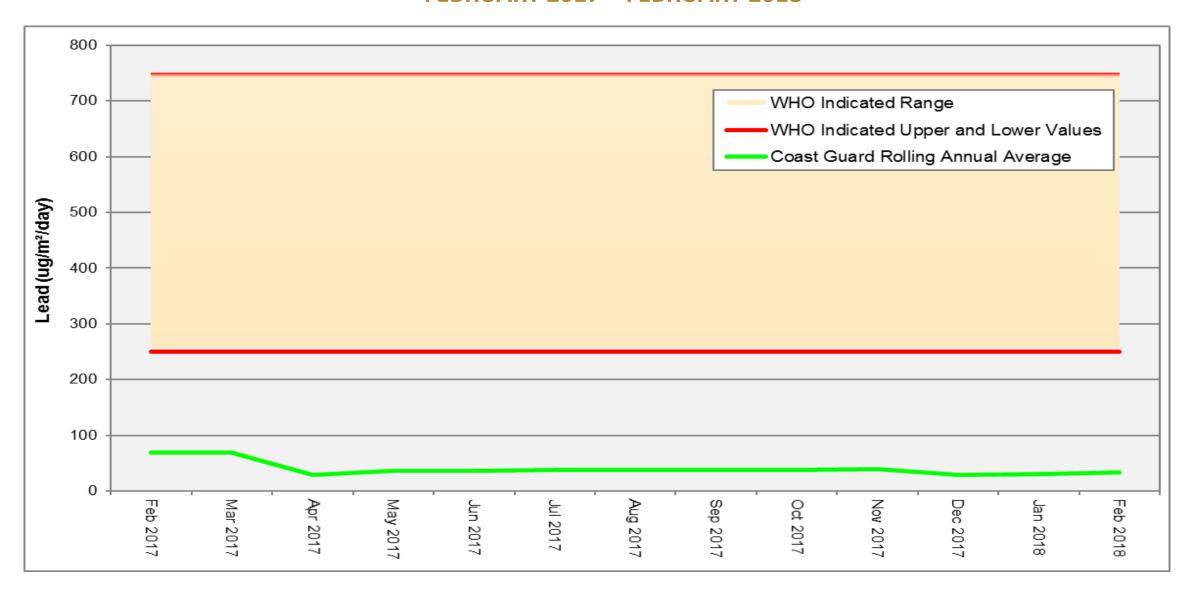
Note:

Total Insoluble Matter Concentration units = micrograms per square metre per day Rolling annual average = the moving average of the previous 11 results and the current result





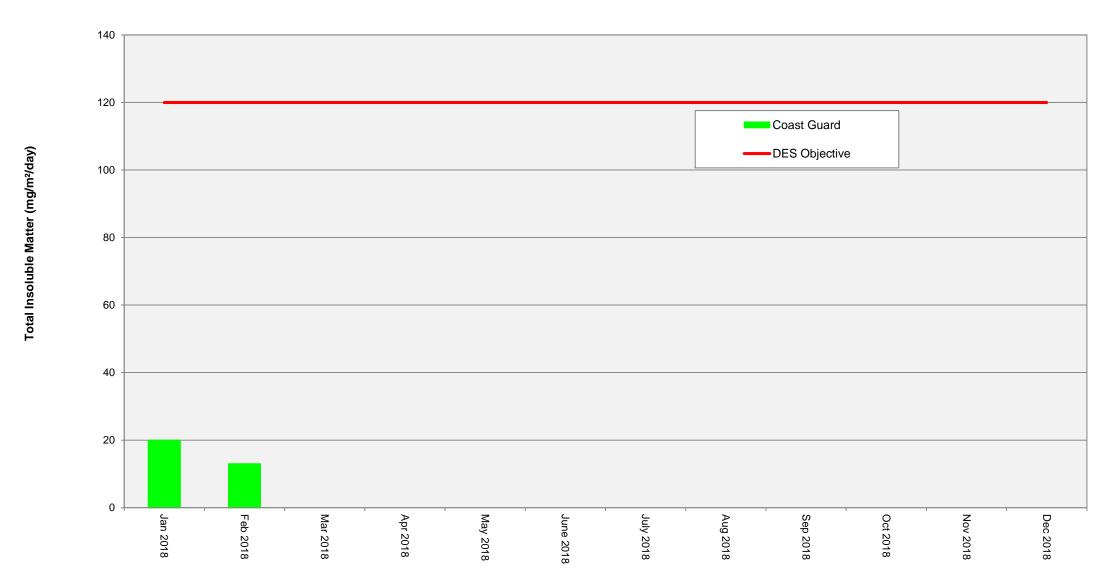
Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site FEBRUARY 2017 – FEBRUARY 2018



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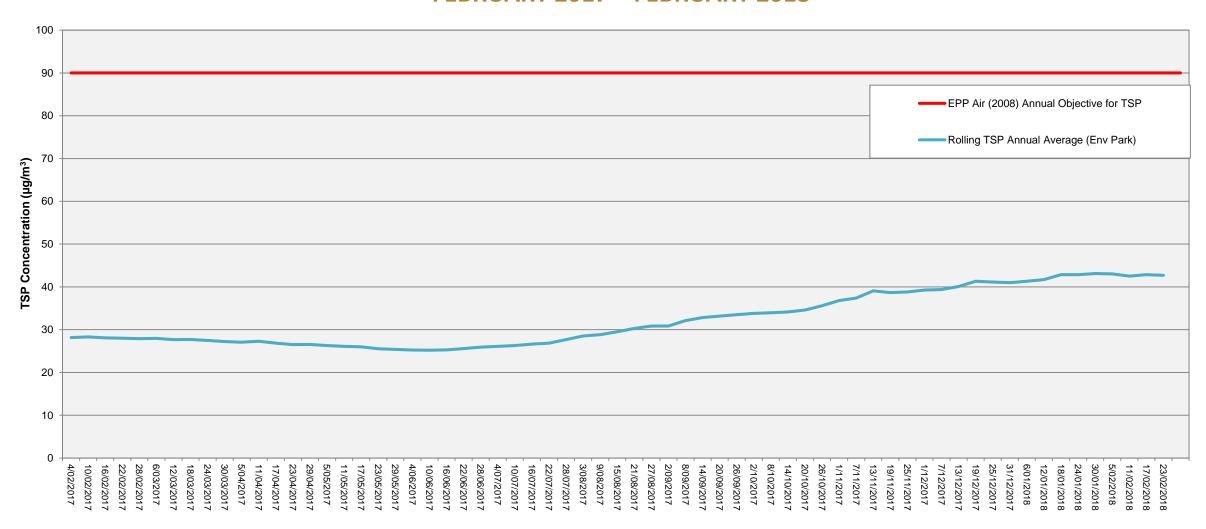
Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site 2018



Note: Total Insoluble Matter Concentration units = milligrams per square metre per day



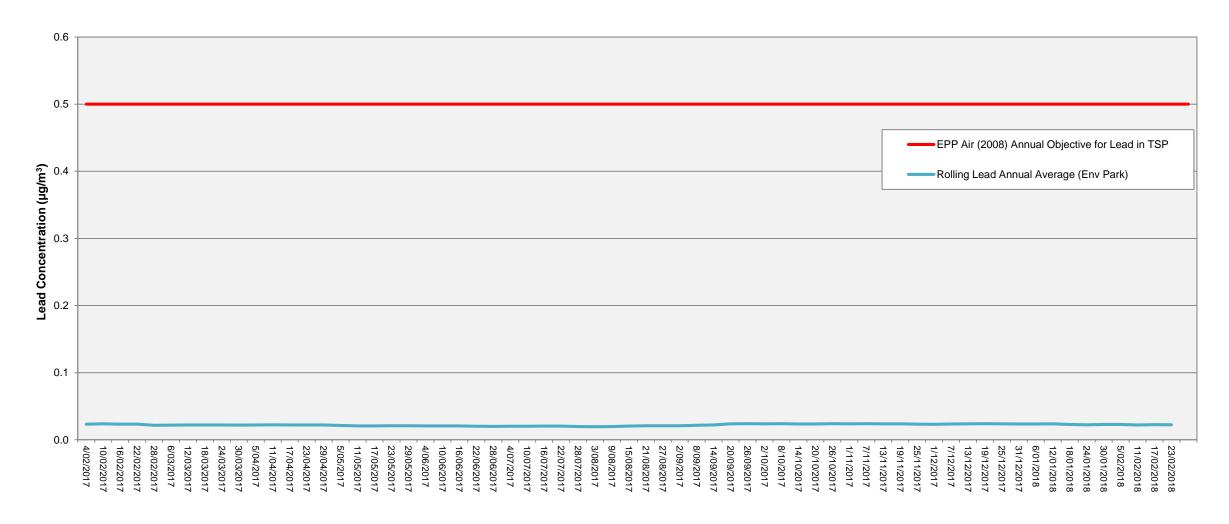
Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site FEBRUARY 2017 – FEBRUARY 2018



Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result



Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site FEBRUARY 2017 – FEBRUARY 2018



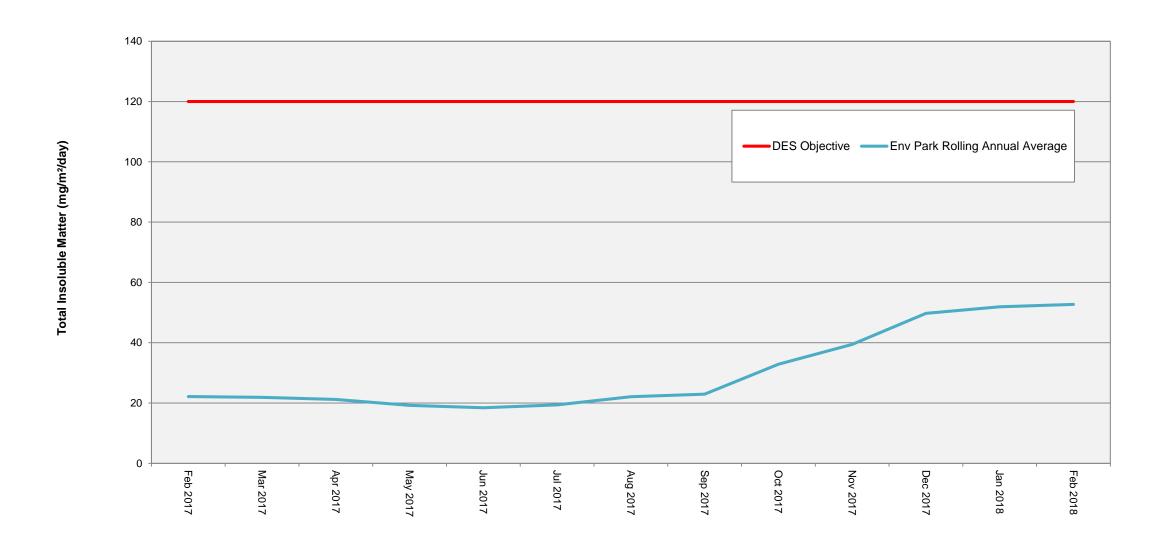
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Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site

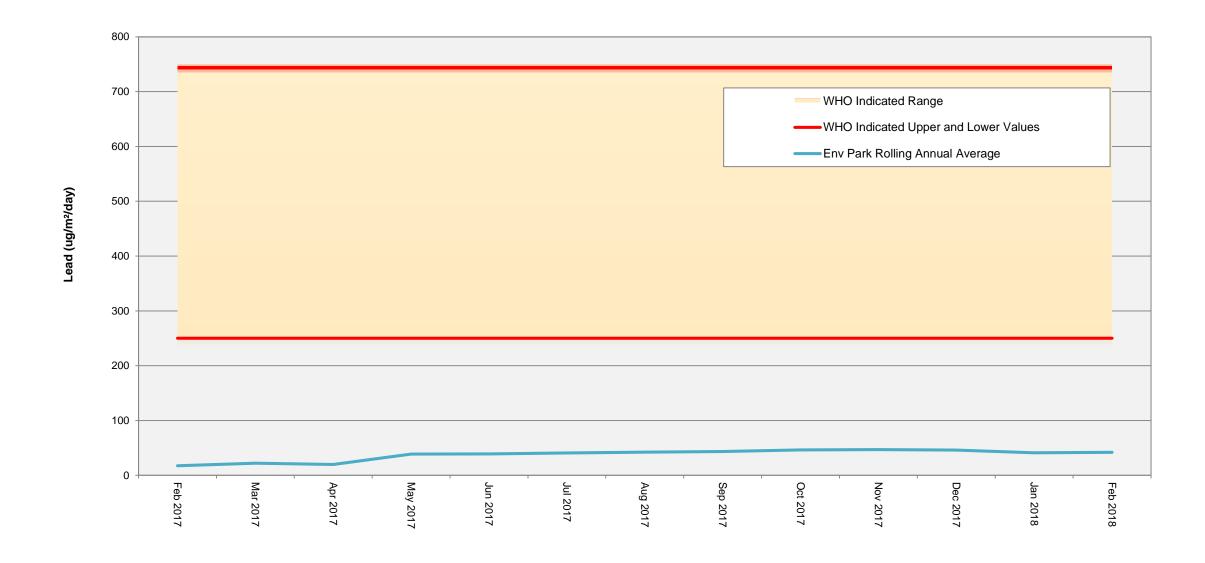
FEBRUARY 2017 - FEBRUARY 2018



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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site FEBRUARY 2017 – FEBRUARY 2018

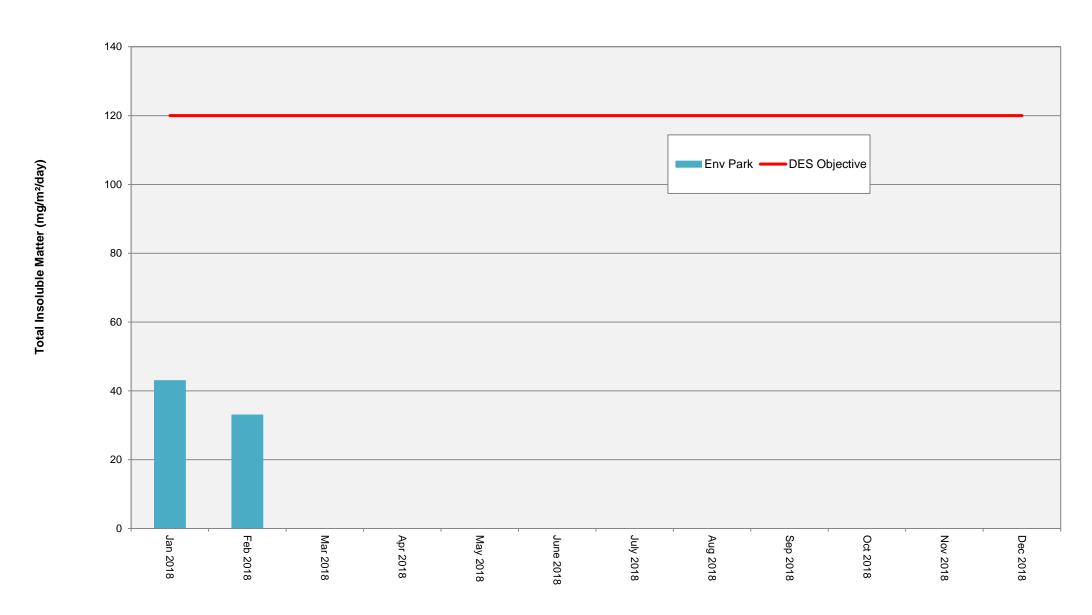


Note: Lead Concentration units = micrograms per square metre per day

Rolling annual average = the moving average of the previous 11 results and the current result

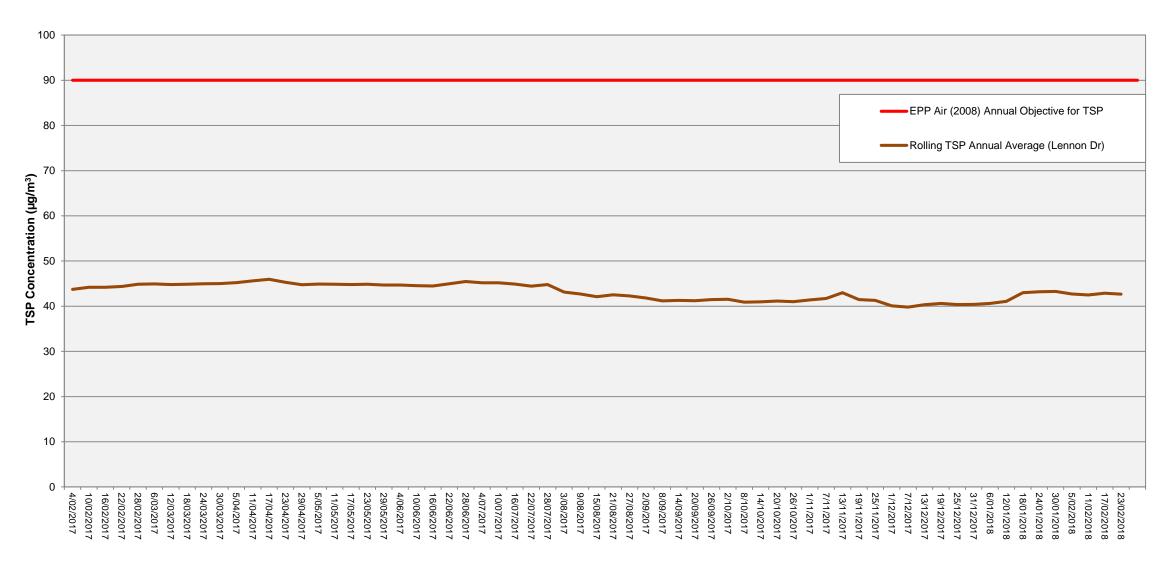


Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site 2018



Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

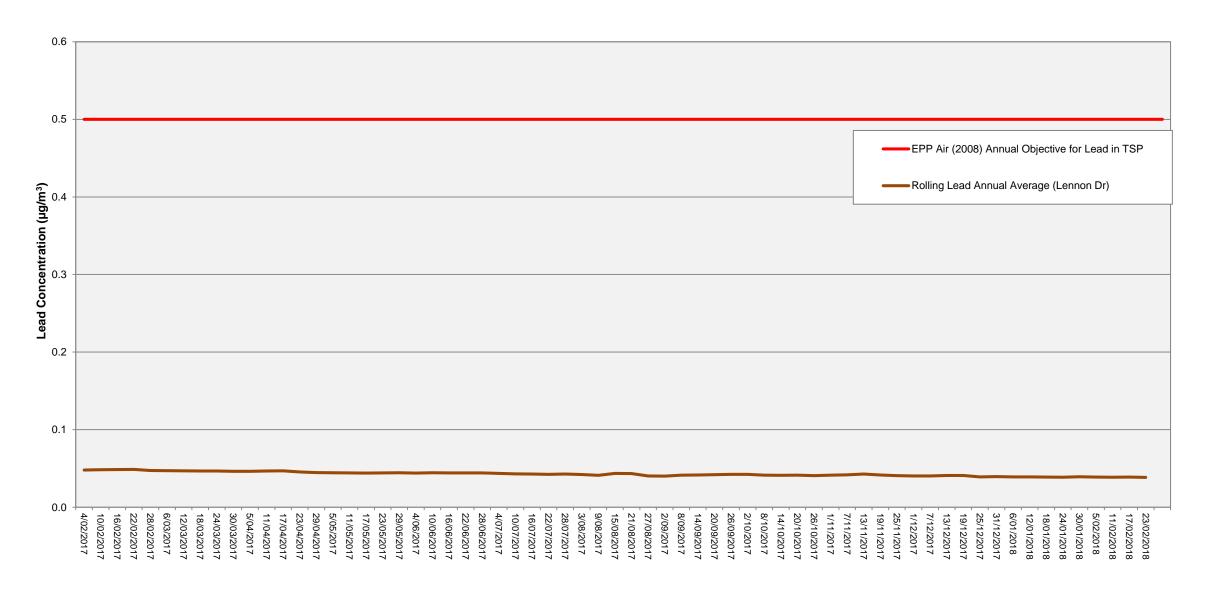
Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site FEBRUARY 2017 – FEBRUARY 2018



Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result



Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site FEBRUARY 2017 - FEBRUARY 2018

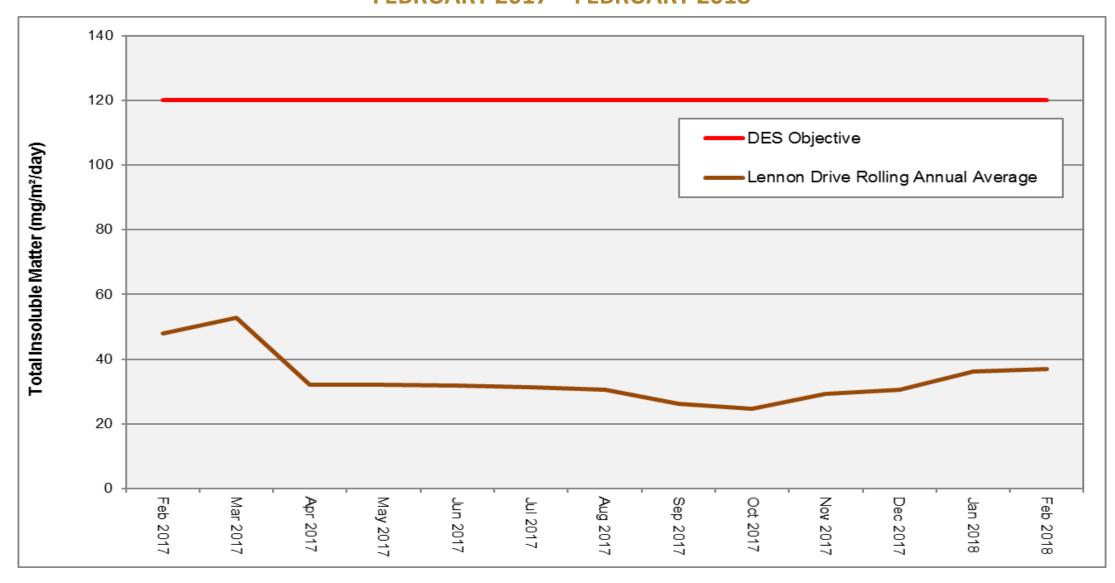


Note:

Lead Concentration units = micrograms per cubic metre per 24 hour period Rolling annual average = the moving average of the previous 11 results and the current result



Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site FEBRUARY 2017 - FEBRUARY 2018

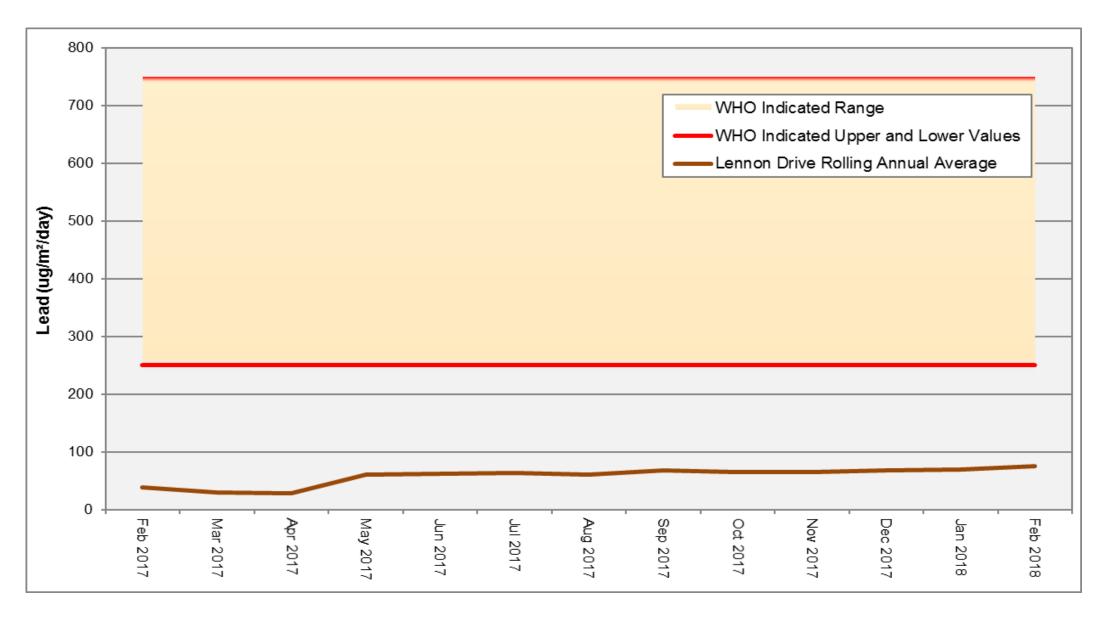


Note: Total Insoluble Matter Concentration units = micrograms per square metre per day

Rolling annual average = the moving average of the previous 11 results and the current result



Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site FEBRUARY 2017 – FEBRUARY 2018

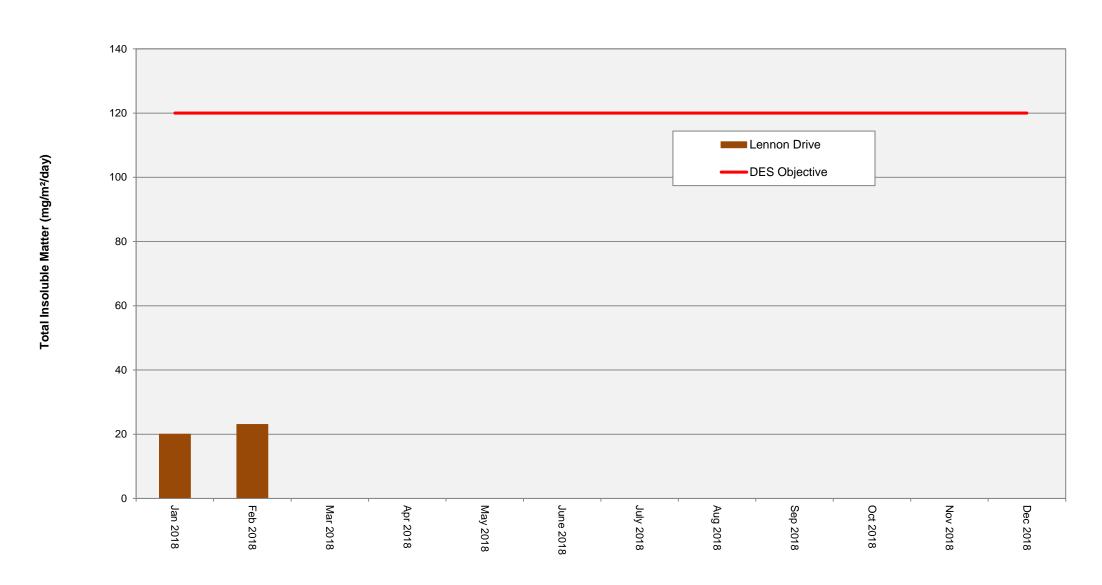


Note: Lead Concentration units = micrograms per square metre per day

Rolling annual average = the moving average of the previous 11 results and the current result



Dust Deposition Gauge – General dust deposition levels (monthly) at Lennon Drive Site 2018



Note: Total Insoluble Matter Concentration units = milligrams per square metre per 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 μ g/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 μ g/dL but since the beginning of 2016 has been reduced to 5 μ g/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 μ g/dL and 0.6 μ g/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 μ g/dL and 1.9 μ g/dL, still well under the level which should trigger concern.