

Air Quality Dashboard | NOVEMBER | 2020

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

Information



Dust
Monitoring
Equipment – an
explanation

What cargo is
handled at the
Townsville
Port?

Subscribe,
ask questions,
provide
feedback

Queensland Health statement on lead
and safe levels in air around humans

What does this
Dashboard
show me?

Data



Live Air Quality
Monitoring data

Air Quality
Bulletin

Live Shipping
Schedule

Rainfall Data -
BOM

Air Quality
Monitoring Plan

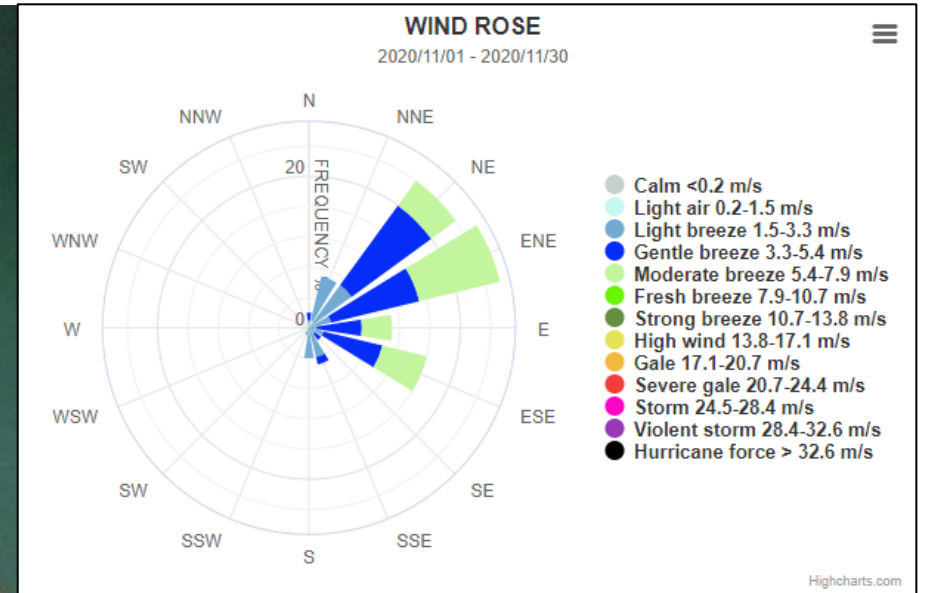
Air Quality Monitoring Locations

Coast Guard

Lennon Drive

Enviro Park

Victoria Park



Shipping Movements in November 2020

[Click here](#) to return to Main Page

Date In/Out	Vessel Name	Cargo	Berth
31 Oct - 01 Nov	ATILLA	Zinc Concentrates (Export), Nil Cargo (Import)	T03N
01 Nov - 04 Nov	AFRICAN WARBLER	Nil Cargo (Export), Sulphur (Import)	T10
01 Nov - 02 Nov	NINE EAGLE	Cattle (Export), Nil Cargo (Import)	T04
01 Nov - 03 Nov	KOTA NIPAH	Containers (Export), Containers (Import)	T03S
03 Nov - 04 Nov	GOLDEN MIND	Sulphuric Acid (Export), Nil Cargo (Import)	T01
03 Nov - 04 Nov	NORTHERN HIGHWAY	Nil Cargo (Export), Motor Vehicles (Import)	T03N
03 Nov - 04 Nov	IVS SPARROWHAWK	Sugar (Export), Nil Cargo (Import)	LUC
03 Nov - 05 Nov	CASTLEGATE	Sugar (Export), Nil Cargo (Import)	T09
04 Nov - 04 Nov	GREYMAN EXPRESS	Cattle (Export), Nil Cargo (Import)	T04
04 Nov - 05 Nov	CYGNUS LEADER	Nil Cargo (Export), Motor Vehicles (Import)	T10
04 Nov - 05 Nov	MAERSK MEDITERRANEAN	Nil Cargo (Export), Fuels (Import)	T01
05 Nov - 07 Nov	MAERSK MEDITERRANEAN	Nil Cargo (Export), Nil Cargo (Import)	T01
05 Nov - 07 Nov	CHAYANEE NAREE	Sugar (Export), Nil Cargo (Import)	T09
07 Nov - 09 Nov	BEAGLE	Nil Cargo (Export), Fuels (Import)	T01
09 Nov - 13 Nov	FAIR OCEAN	Nil Cargo (Export), Zinc Concentrates (Import)	T10
10 Nov - 11 Nov	JENNINGS BAY	Nil Cargo (Export), Fuels (Import)	T01
10 Nov - 11 Nov	NEPTUNE LEADER	Nil Cargo (Export), Motor Vehicles (Import)	T09
10 Nov - 12 Nov	KYOWA ROSE	Nil Cargo (Export), Containers (Import)	T03N
11 Nov - 13 Nov	THERESA MICRONESIA	Molasses (Export), Nil Cargo (Import)	T08
12 Nov - 12 Nov	TOKYO TRADER	Containers (Export), Containers (Import)	T04
12 Nov - 13 Nov	POLA ILARIA	Zinc Concentrates (Export), Nil Cargo (Import)	T03S
13 Nov - 15 Nov	KOTA HARUM	Containers (Export), Containers (Import)	T03S
14 Nov - 14 Nov	GELBRAY EXPRESS	Cattle (Export), Nil Cargo (Import)	T04
14 Nov - 16 Nov	IVS IBIS	Nil Cargo (Export), Coke (Import)	T09
14 Nov - 16 Nov	STRATEGIC ENDEAVOR	Fertilizer (Export), Nil Cargo (Import)	T08
14 Nov - 15 Nov	FLORIDA HIGHWAY	Nil Cargo (Export), Motor Vehicles (Import)	T10
14 Nov - 15 Nov	GELBRAY EXPRESS	Nil Cargo (Export), Nil Cargo (Import)	T03N
14 Nov - 17 Nov	KONDILI	Nil Cargo (Export), Cement (Import)	T04
15 Nov - 16 Nov	CORONADO BAY	Containers (Export), Containers (Import)	T10

Date In/Out	Vessel Name	Cargo	Berth
16 Nov - 20 Nov	IVS IBIS	Concentrates (Export), Nil Cargo (Import)	T11
17 Nov - 17 Nov	SAN DU AO	Nil Cargo (Export), Bitumen (Import)	T01
18 Nov - 19 Nov	AL KUWAIT	Cattle (Export), Nil Cargo (Import)	T04
18 Nov - 18 Nov	SOFRANA TOURVILLE	Containers (Export), Containers (Import)	T03S
18 Nov - 20 Nov	HAMBURG HIGHWAY	Nil Cargo (Export), Motor Vehicles (Import)	T03N
19 Nov - 20 Nov	GLOUCESTER EXPRESS	Cattle (Export), Nil Cargo (Import)	T10
20 Nov - 22 Nov	KAIFONG	Lead Ingots (Export), Nil Cargo (Import)	T08
20 Nov - 21 Nov	BASIC CHALLENGER	Concentrates (Export), Nil Cargo (Import)	T03S
21 Nov - 22 Nov	KOTA HIDAYAH	Containers (Export), Containers (Import)	T03S
22 Nov - 25 Nov	BELLE OCEAN	Zinc Ferrites (Export), Nil Cargo (Import)	T10
22 Nov - 23 Nov	INTERLINK PRIORITY	Sugar (Export), Nil Cargo (Import)	T09
22 Nov - 23 Nov	KAIFONG	Nil Cargo (Export), Nil Cargo (Import)	T03S
22 Nov - 24 Nov	TWO MILLION WAYS	Nil Cargo (Export), Fuels (Import)	T01
23 Nov - 24 Nov	LESEDI QUEEN	Sugar (Export), Nil Cargo (Import)	T09
23 Nov - 26 Nov	BASIC CHALLENGER	Concentrates (Export), Nil Cargo (Import)	T11
23 Nov - 25 Nov	SEA HAWK	Concentrates (Export), Nil Cargo (Import)	T08
24 Nov - 26 Nov	TAOKAS WISDOM	Concentrates (Export), Nil Cargo (Import)	T03S
25 Nov - 26 Nov	HANSA REGENSBURG	Containers (Export), Containers (Import)	T04
26 Nov - 26 Nov	HANSA CLOPPENBURG	Containers (Export), Containers (Import)	T03N
26 Nov - 28 Nov	ATLANTIC CLOVER	Fertilizer (Export), Nil Cargo (Import)	T08
27 Nov - 28 Nov	KOTA HIDAYAH	Nil Cargo (Export), Nil Cargo (Import)	T03S
27 Nov - 29 Nov	SIDER JASMINE	Nil Cargo (Export), General Cargo + Containers (Import)	T04
27 Nov - 28 Nov	GREYMAN EXPRESS	Cattle (Export), Nil Cargo (Import)	T10
28 Nov - 28 Nov	AUROCHS	Cattle (Export), Nil Cargo (Import)	T03N
28 Nov - 28 Nov	AUROCHS	Nil Cargo (Export), Nil Cargo (Import)	T03N
28 Nov - 30 Nov	ALAM SINAR	Zinc Concentrates (Export), Nil Cargo (Import)	T08
28 Nov - 29 Nov	ARDMORE SEAFARER	Nil Cargo (Export), Fuels (Import)	T01
29 Nov - 30 Nov	GOLDEN MIND	Nil Cargo (Export), Fuels (Import)	T01





First established in 1864, the Port of Townsville operates eight berths handles around \$8 billion in trade; servicing more than 136 ports around the globe.

In 2019-20, the Port of Townsville delivered strong financial results and continued to roll-out major infrastructure investments despite the impacts of the global pandemic, COVID-19. In a year where supply chains across the world have been tested, a total of 8.2 million tonnes of freight passed over our wharves, which was a 6.5 per cent increase on last year. With a focus on cost management, the Port also reported a \$13.87 million net profit for 2019/20, see the Annual Report.

The role of mining, resources and agricultural industries have never been more significant with our growth primarily driven by exports of mineral concentrates (up 17%), fertiliser (up 25%) and livestock (up 32%), making it Australia's largest live cattle export port. 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.

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).

Port of Townsville Overview

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OR

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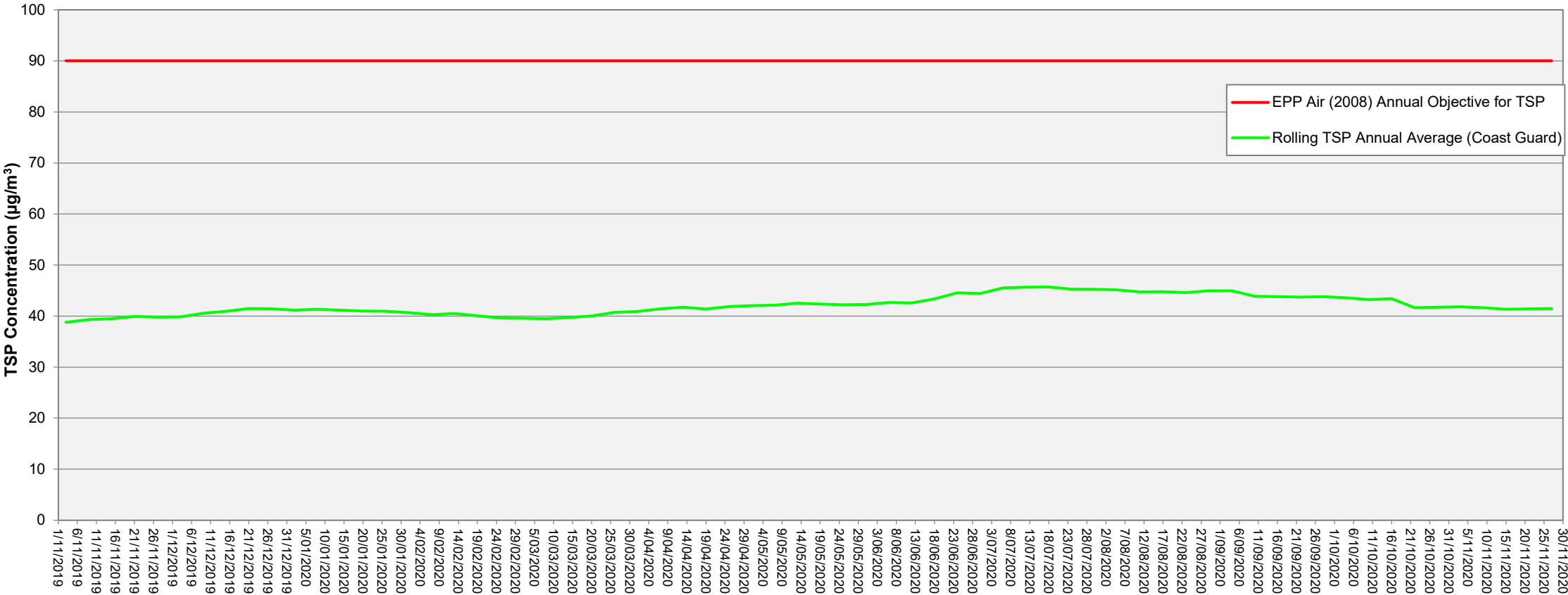
OR

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

Ask a Question / Provide Feedback

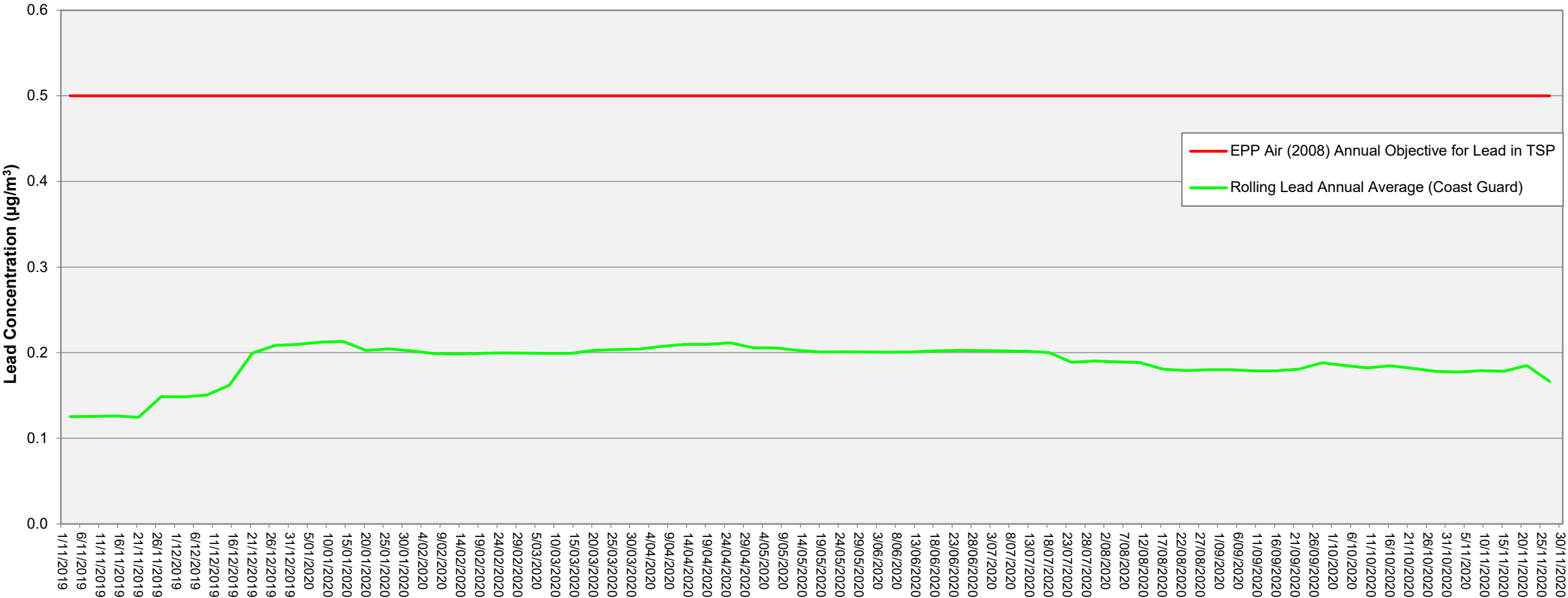
Send your enquiry or feedback to community@townsvilleport.com.au

Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site
NOVEMBER 2019 – NOVEMBER 2020



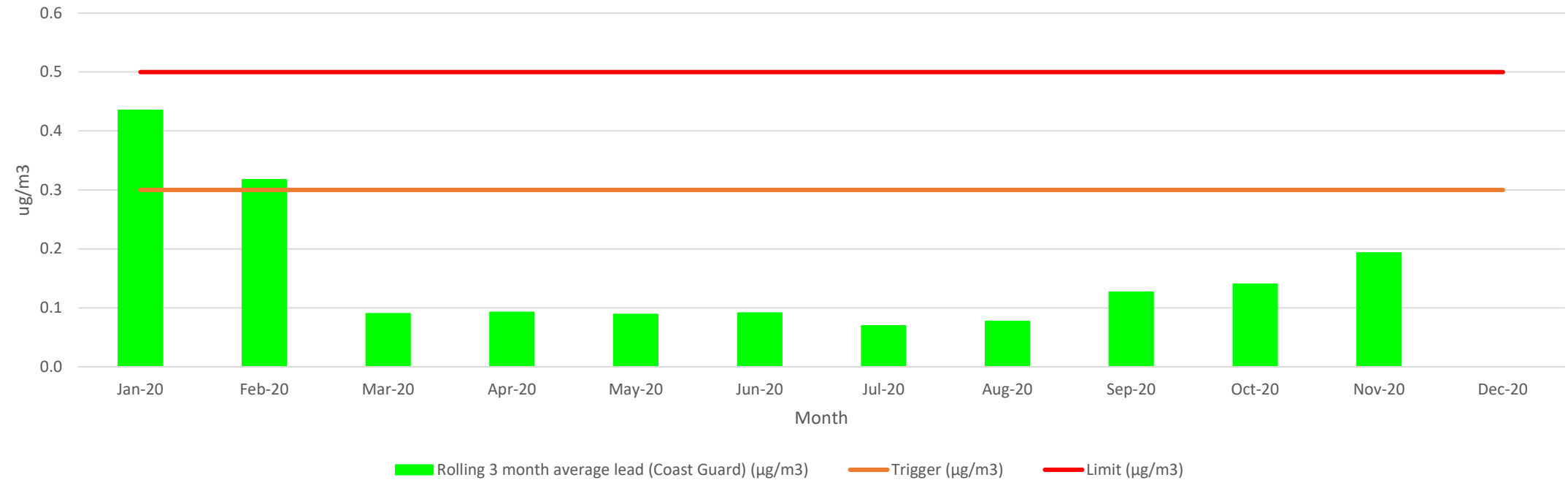
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site
NOVEMBER 2019 – NOVEMBER 2020



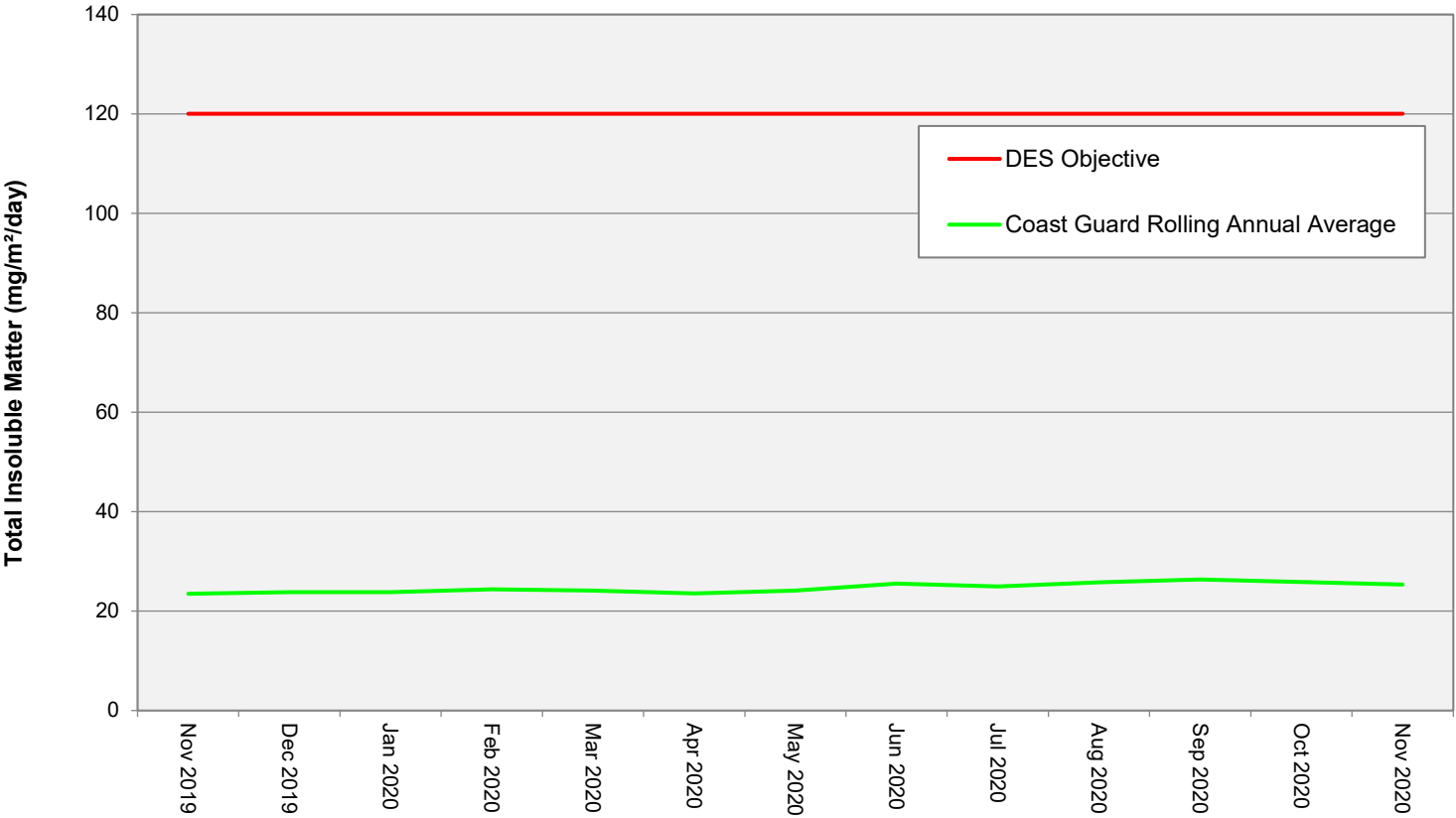
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site
2020



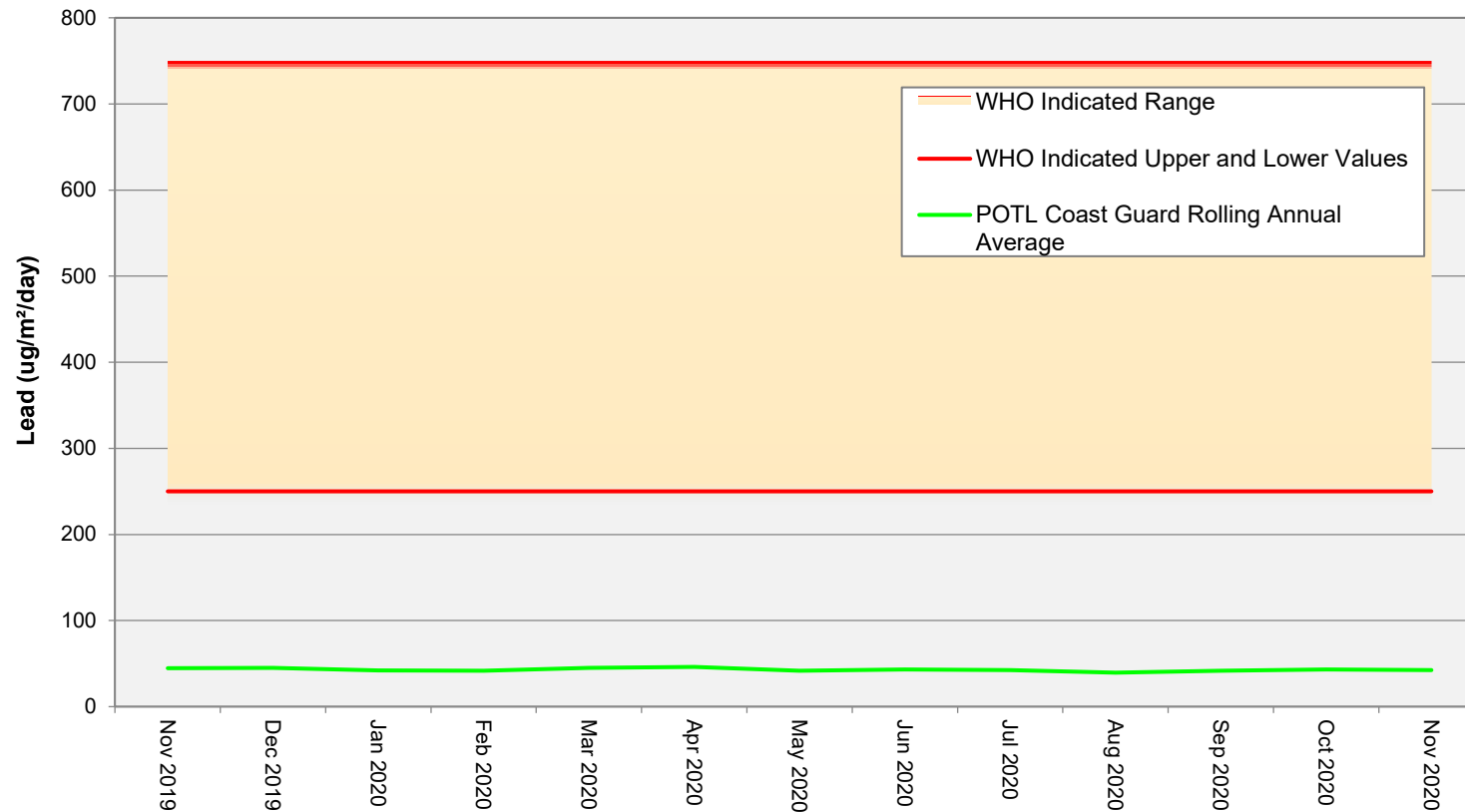
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
NOVEMBER 2019 – NOVEMBER 2020



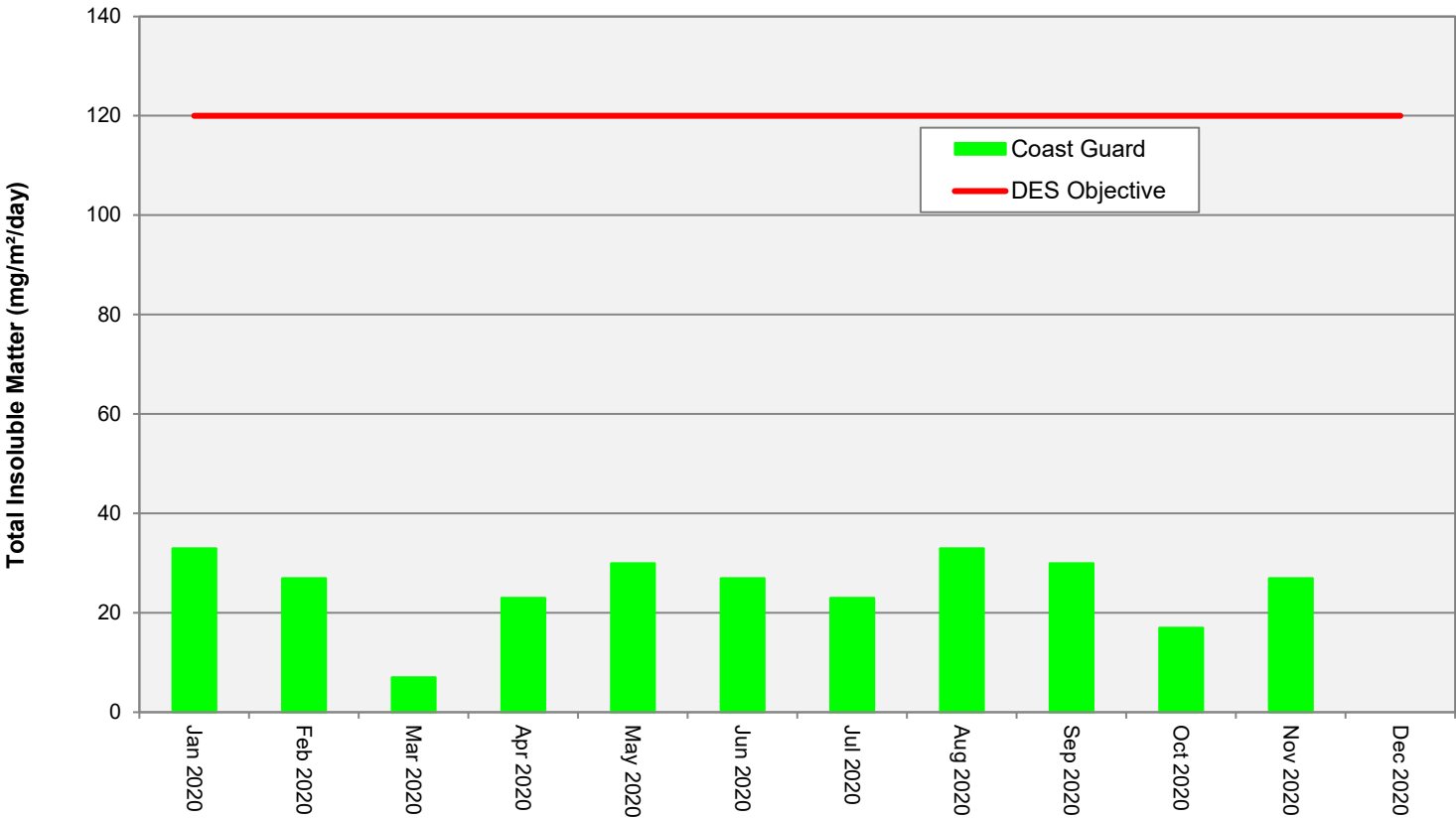
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site NOVEMBER 2019 – NOVEMBER 2020



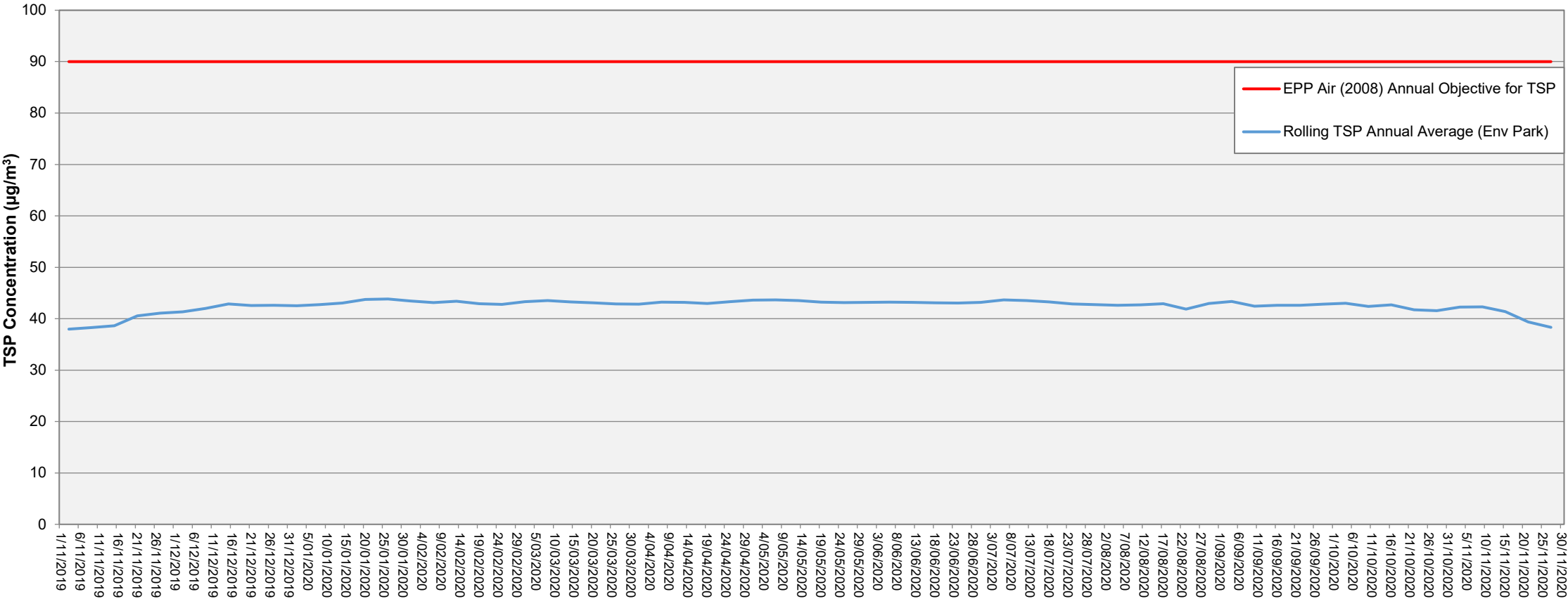
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result.

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
2020



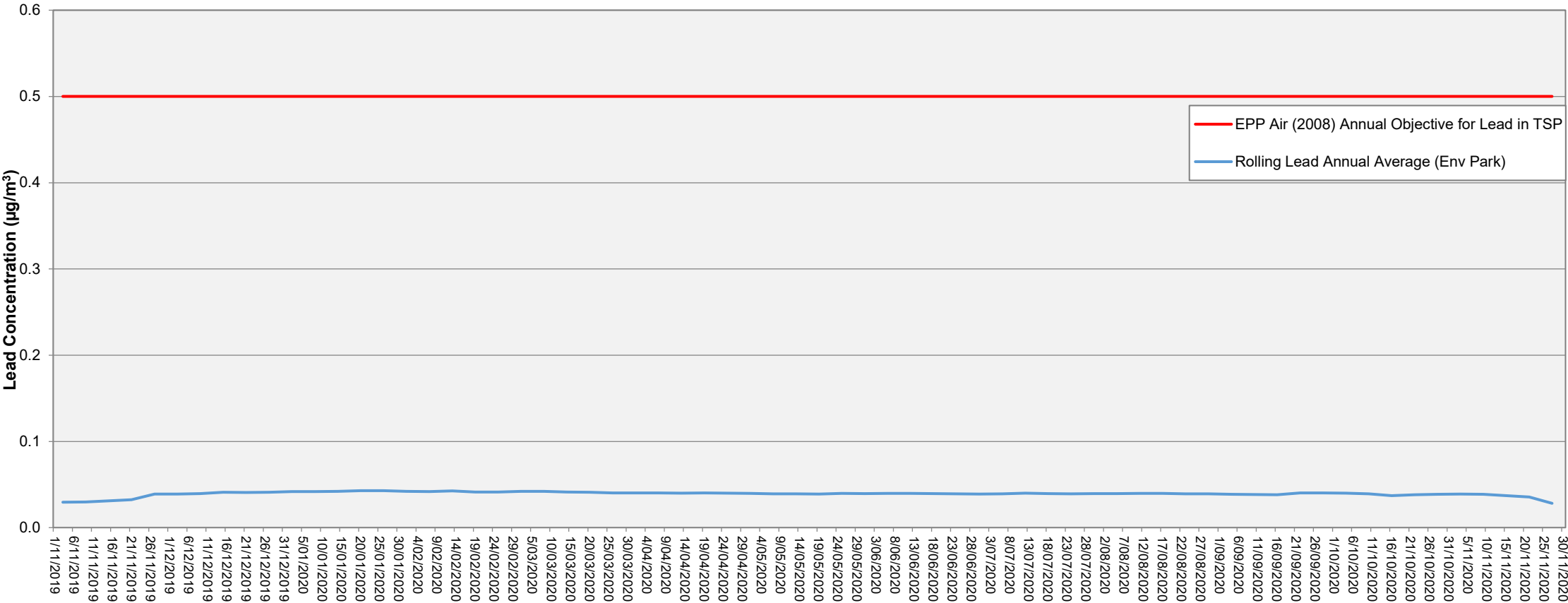
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site
NOVEMBER 2019 – NOVEMBER 2020



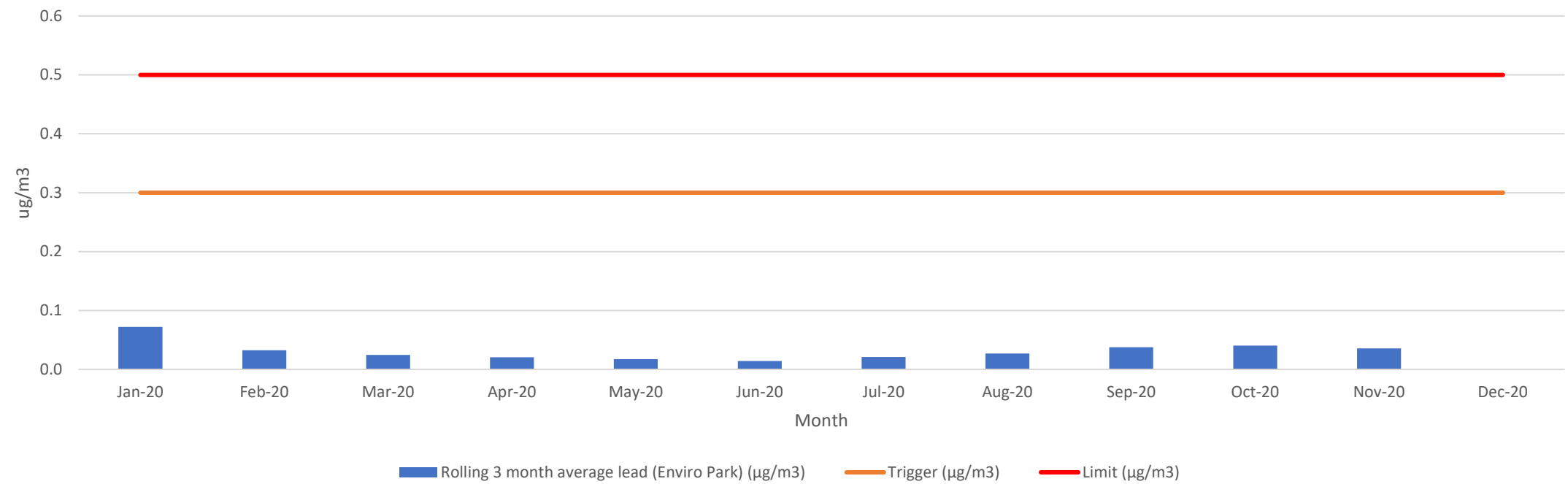
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
NOVEMBER 2019 – NOVEMBER 2020



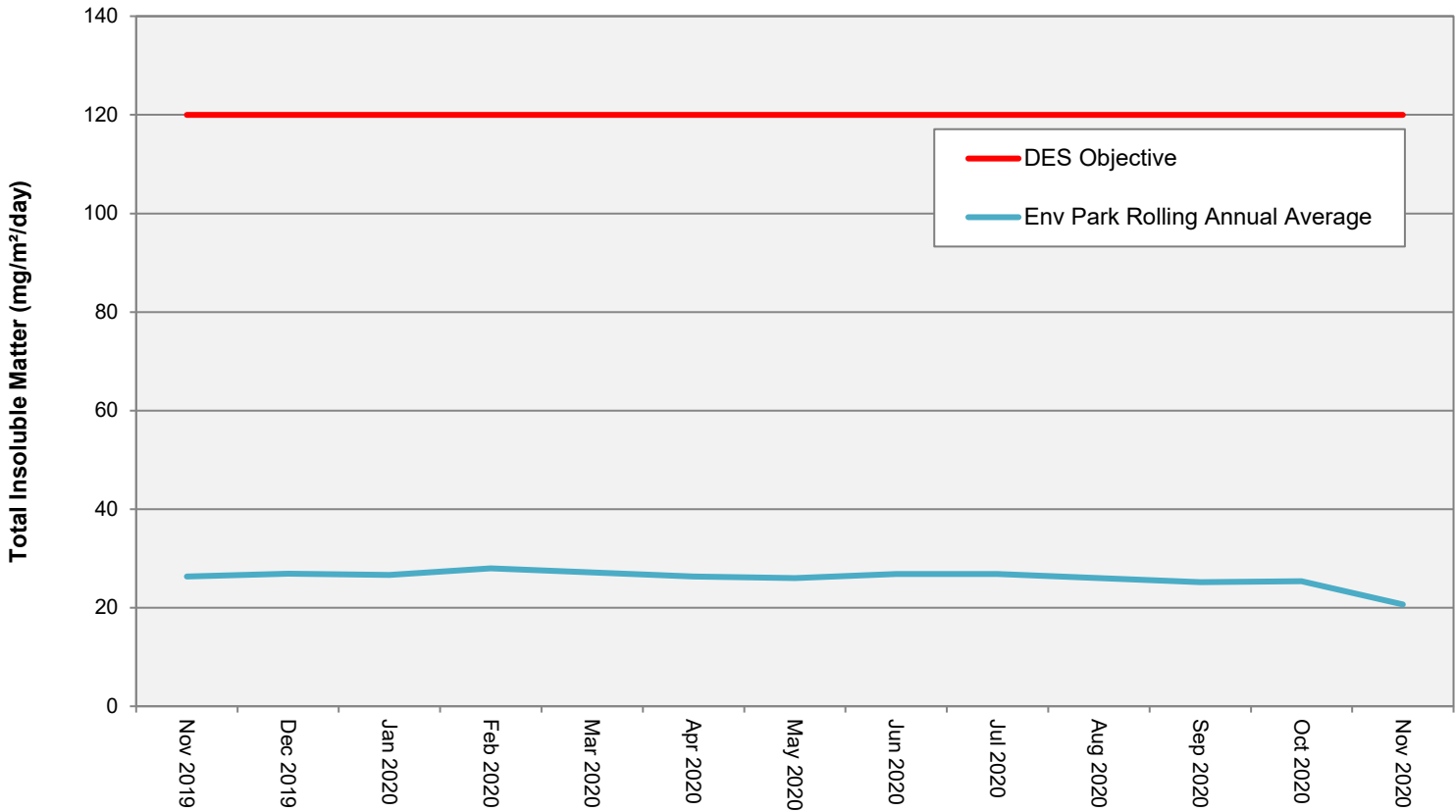
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
2020



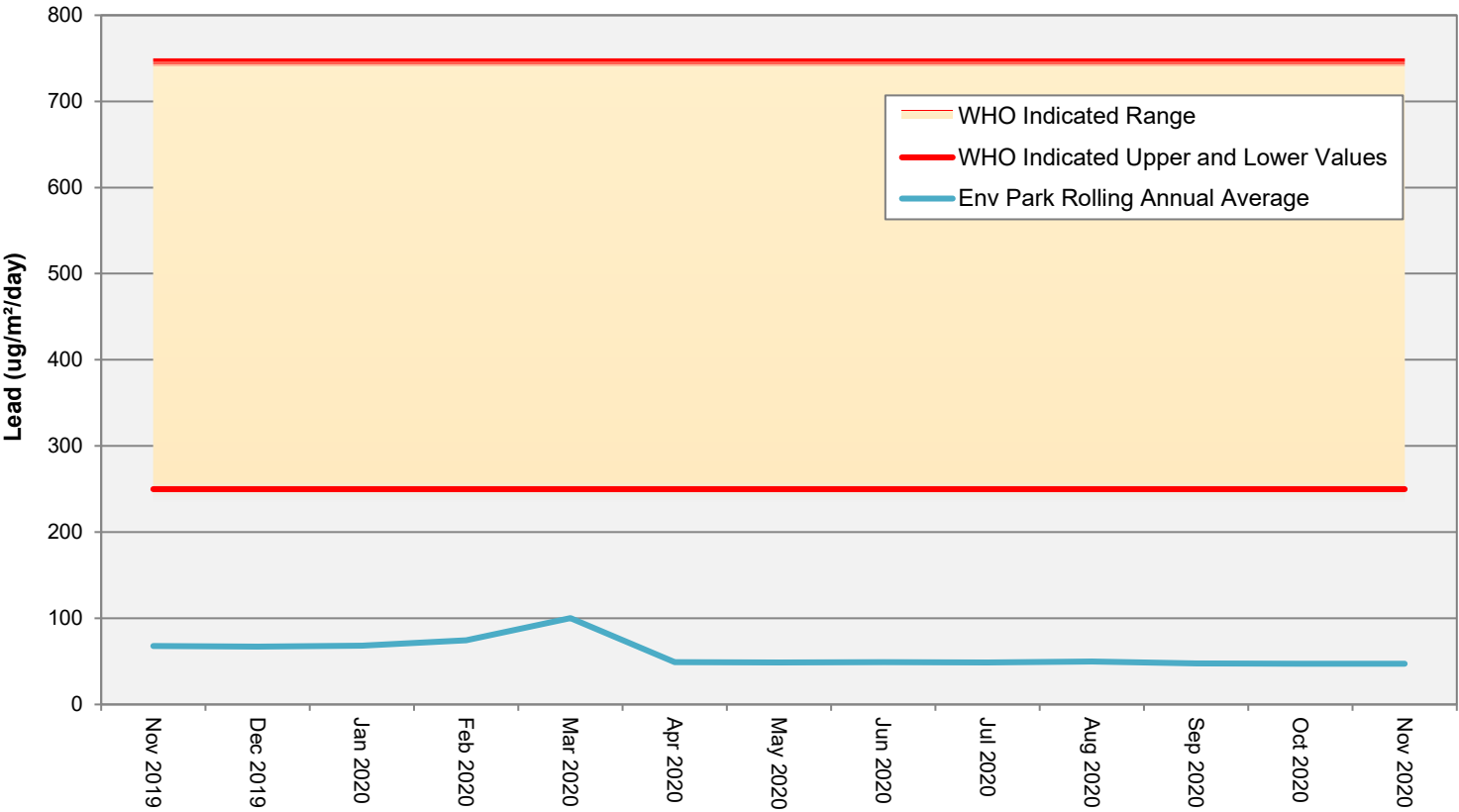
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site
NOVEMBER 2019 – NOVEMBER 2020



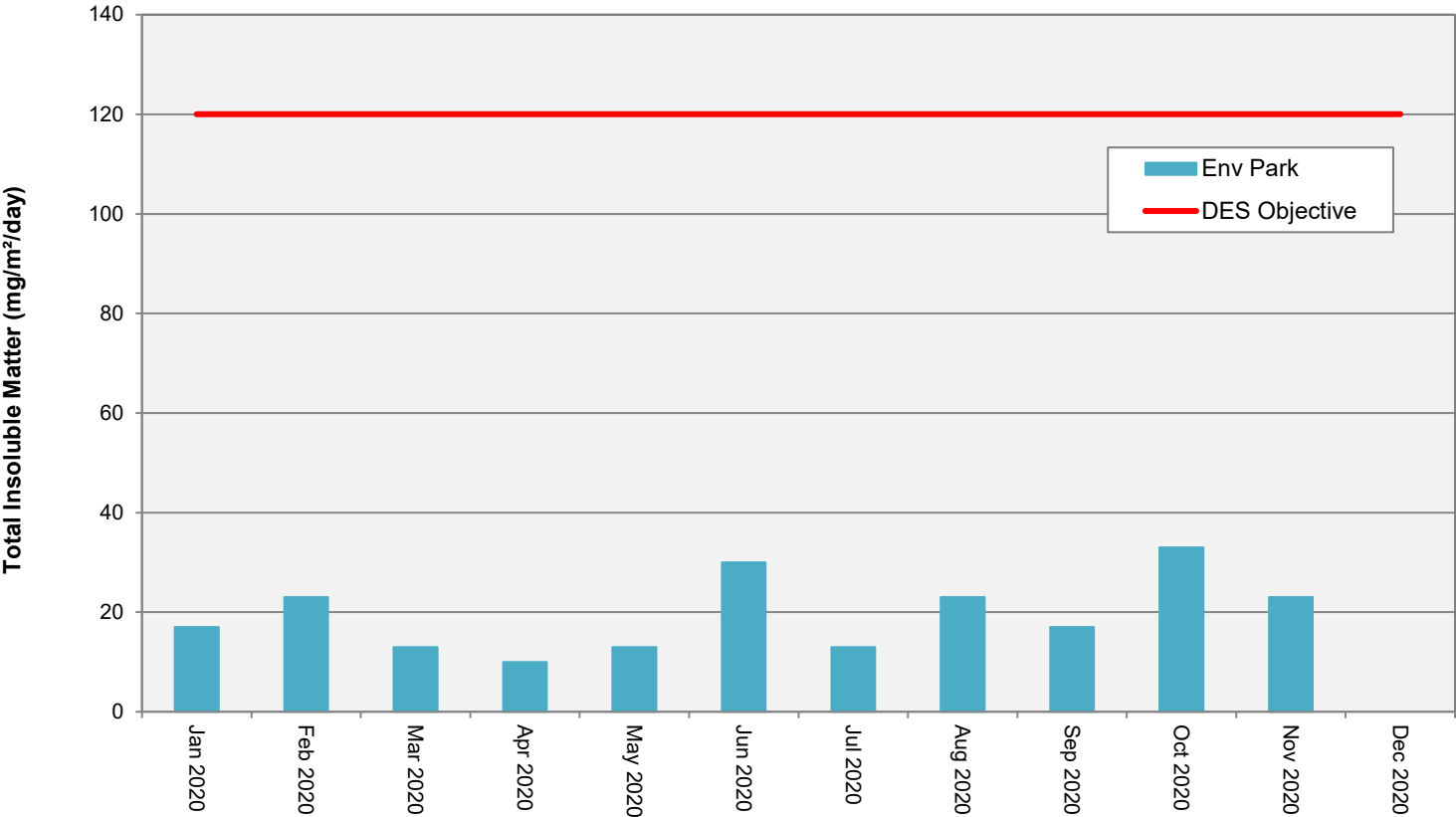
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site
NOVEMBER 2019 – NOVEMBER 2020



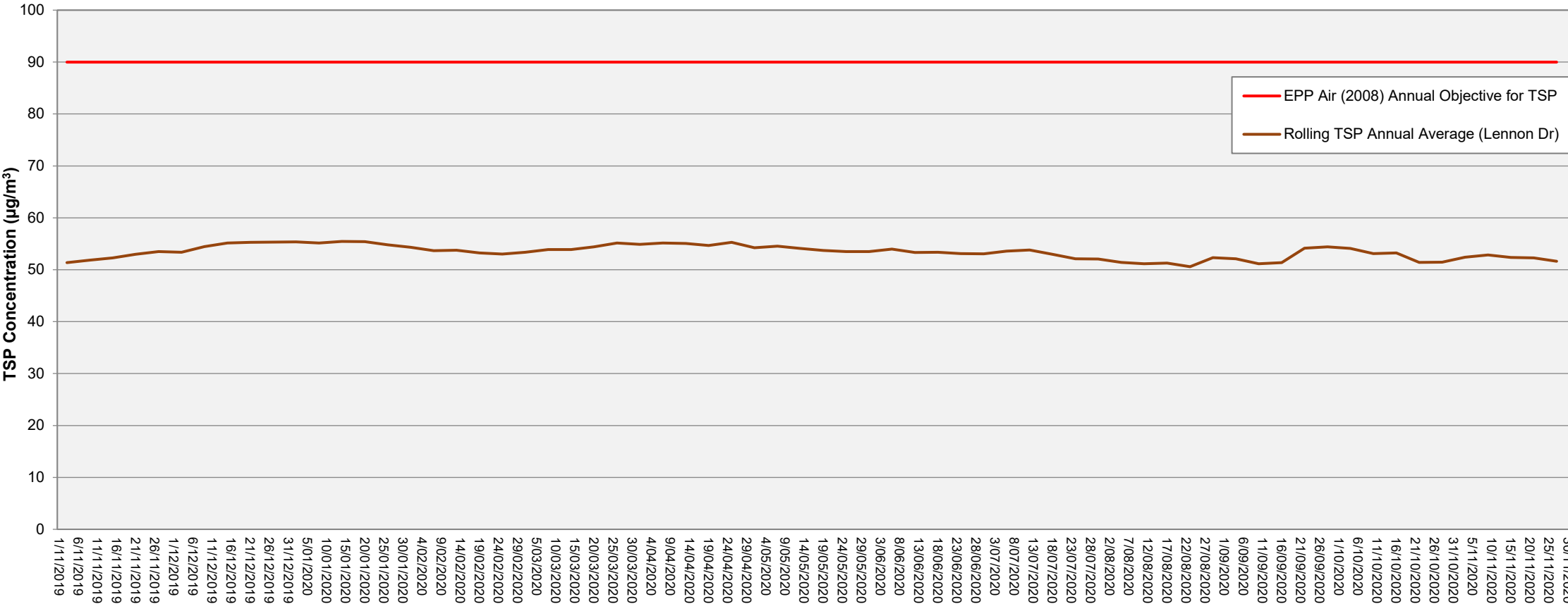
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Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site
2020



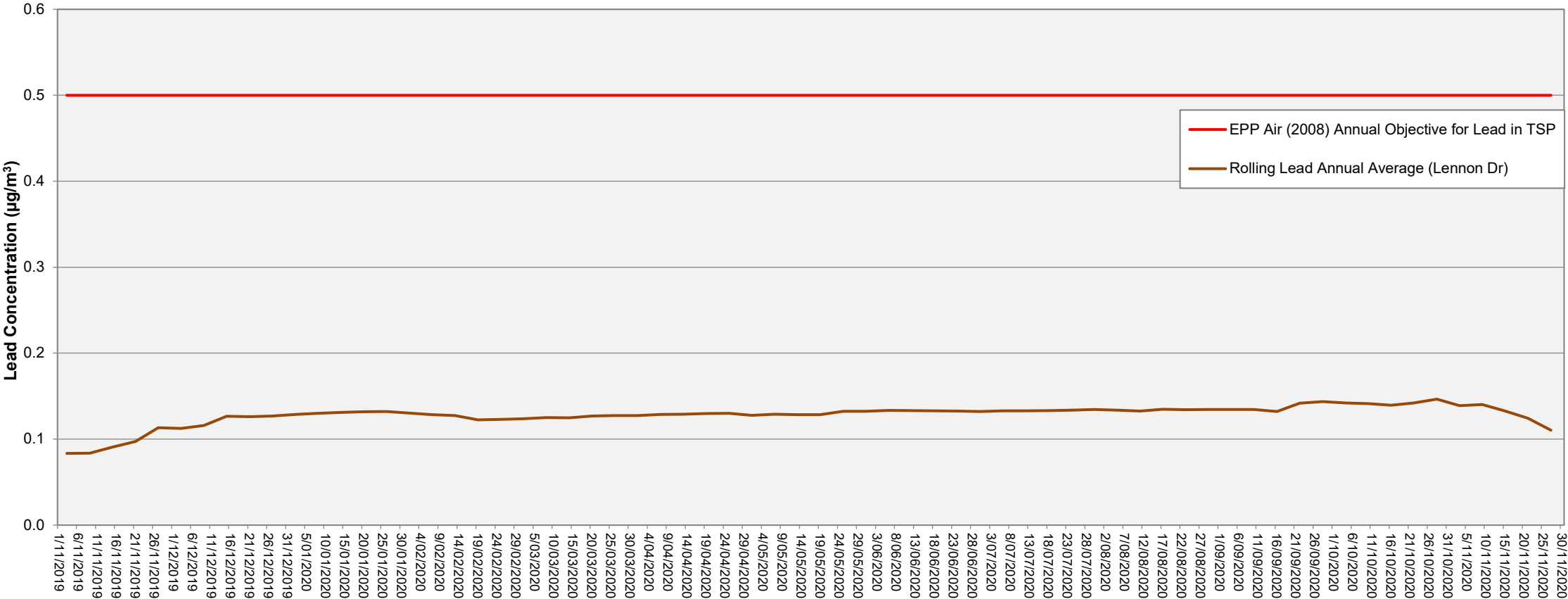
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site
NOVEMBER 2019 – NOVEMBER 2020



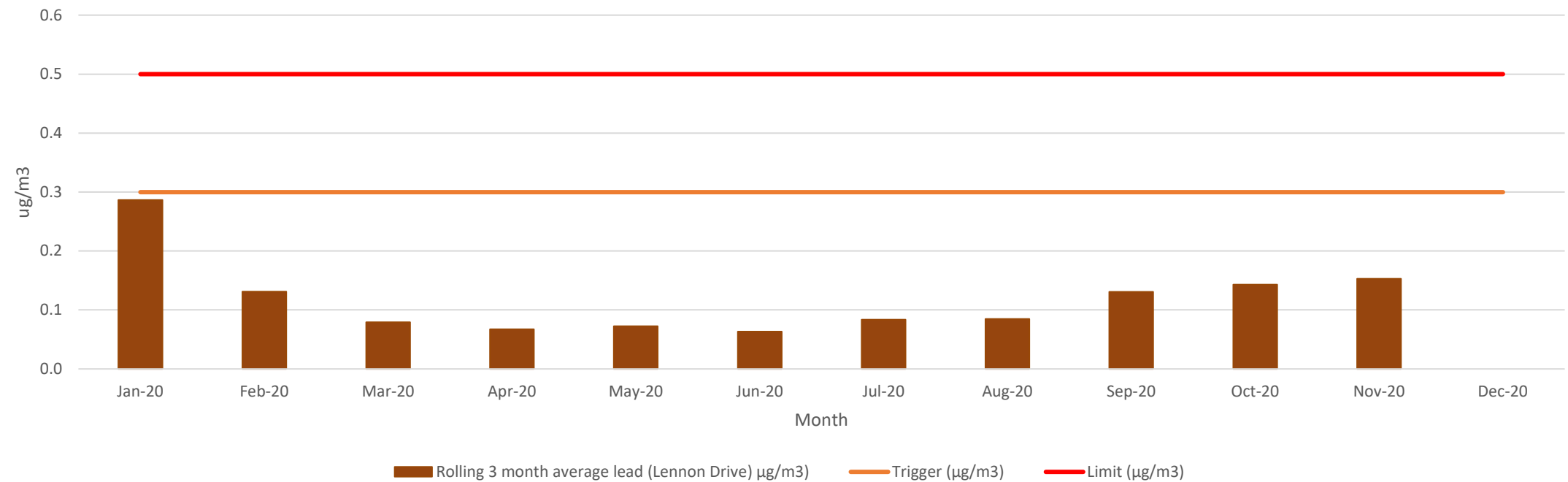
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site
NOVEMBER 2019 – NOVEMBER 2020



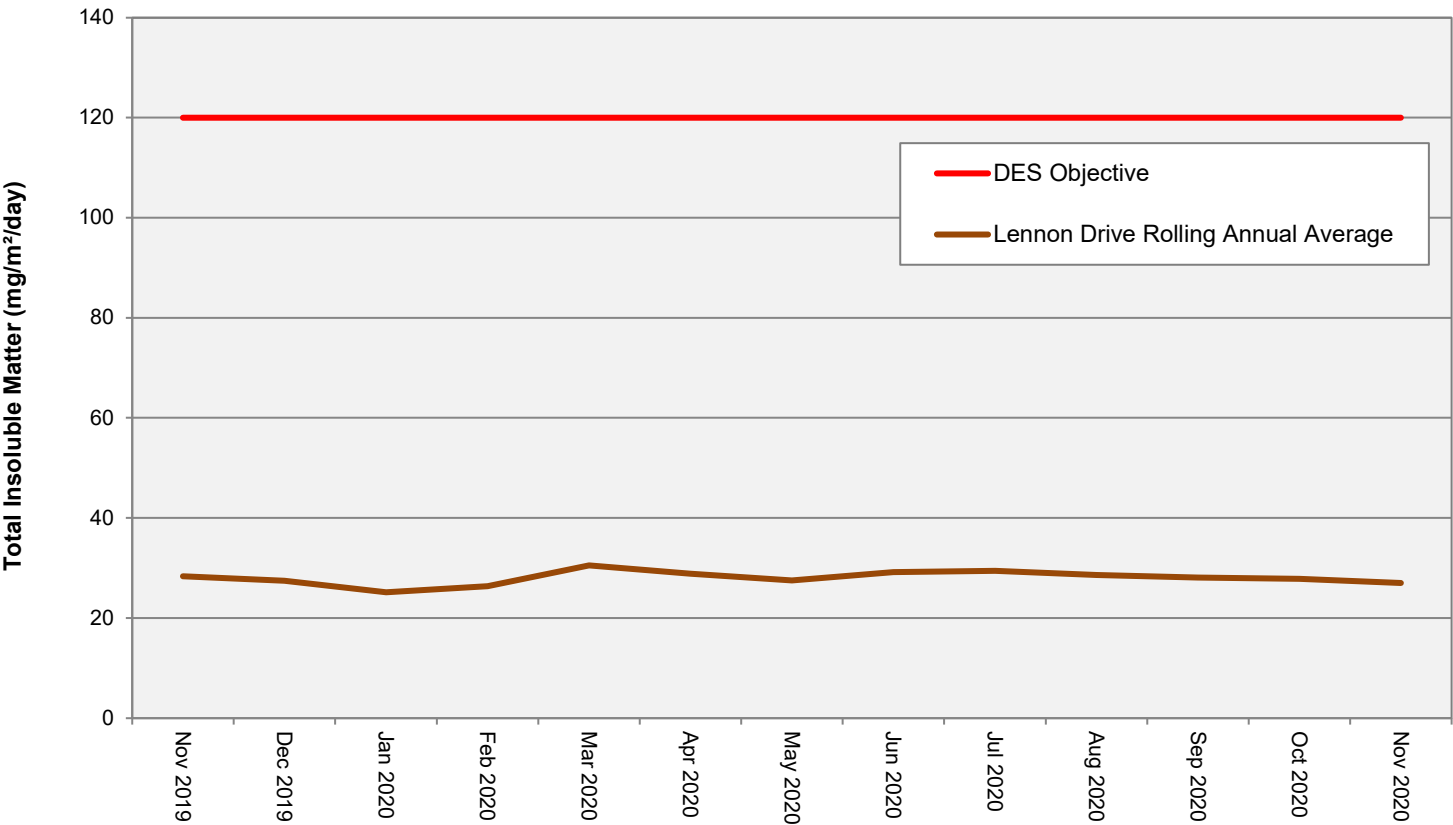
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site
2020



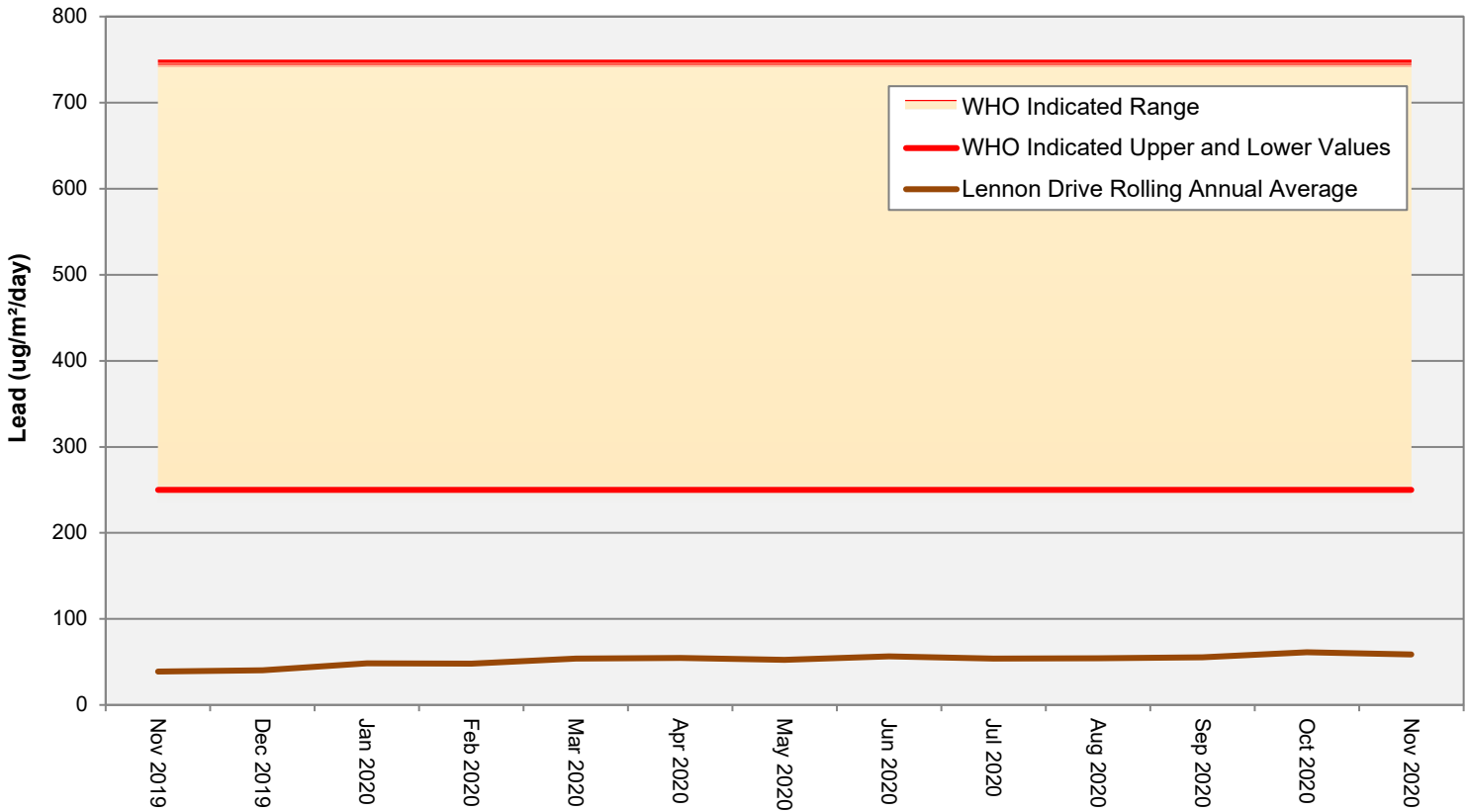
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site
NOVEMBER 2019 – NOVEMBER 2020



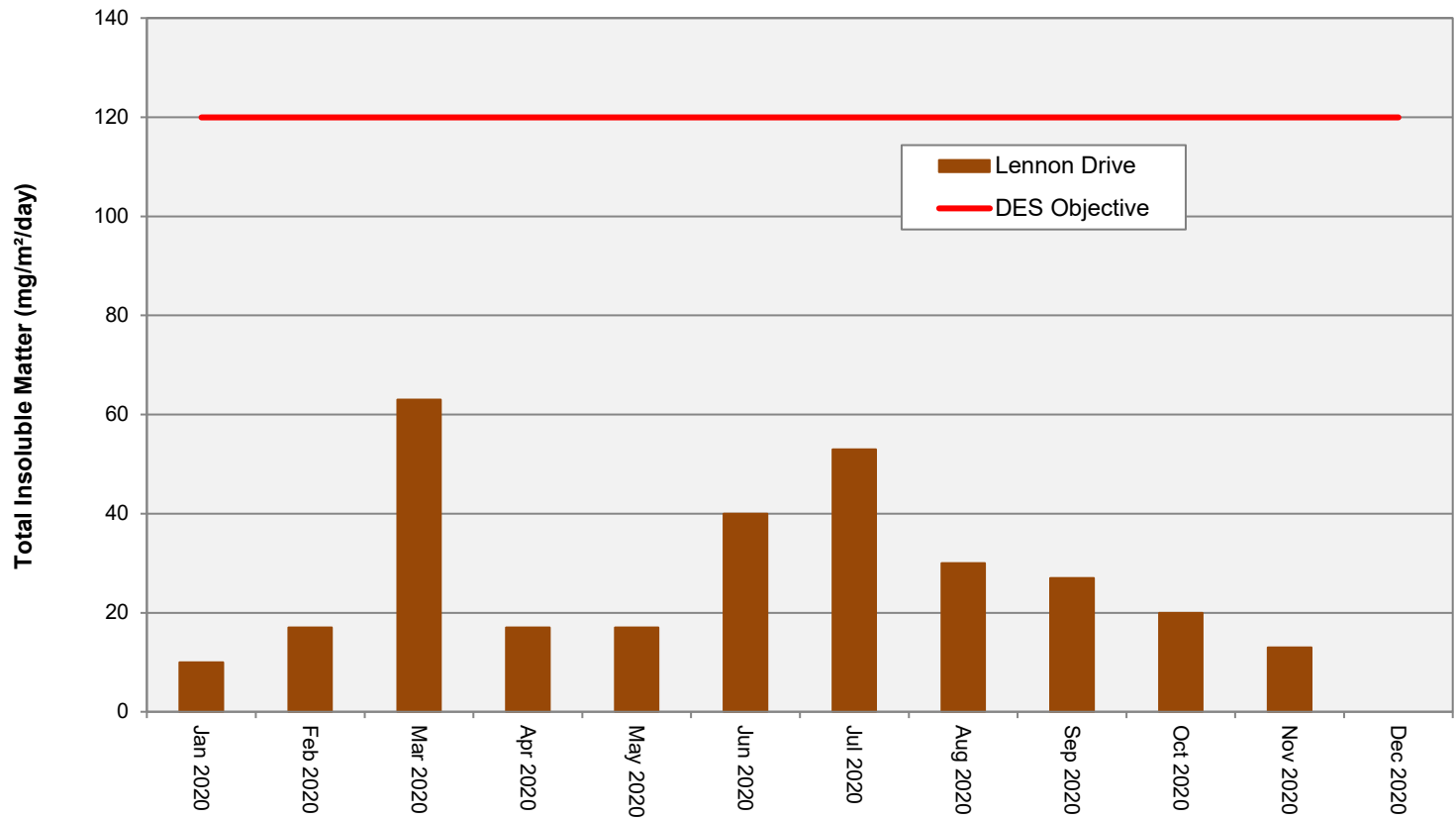
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site
NOVEMBER 2019 – NOVEMBER 2020



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Dust Deposition Gauge – General dust deposition levels (monthly) at Lennon Drive Site
2020



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 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.