

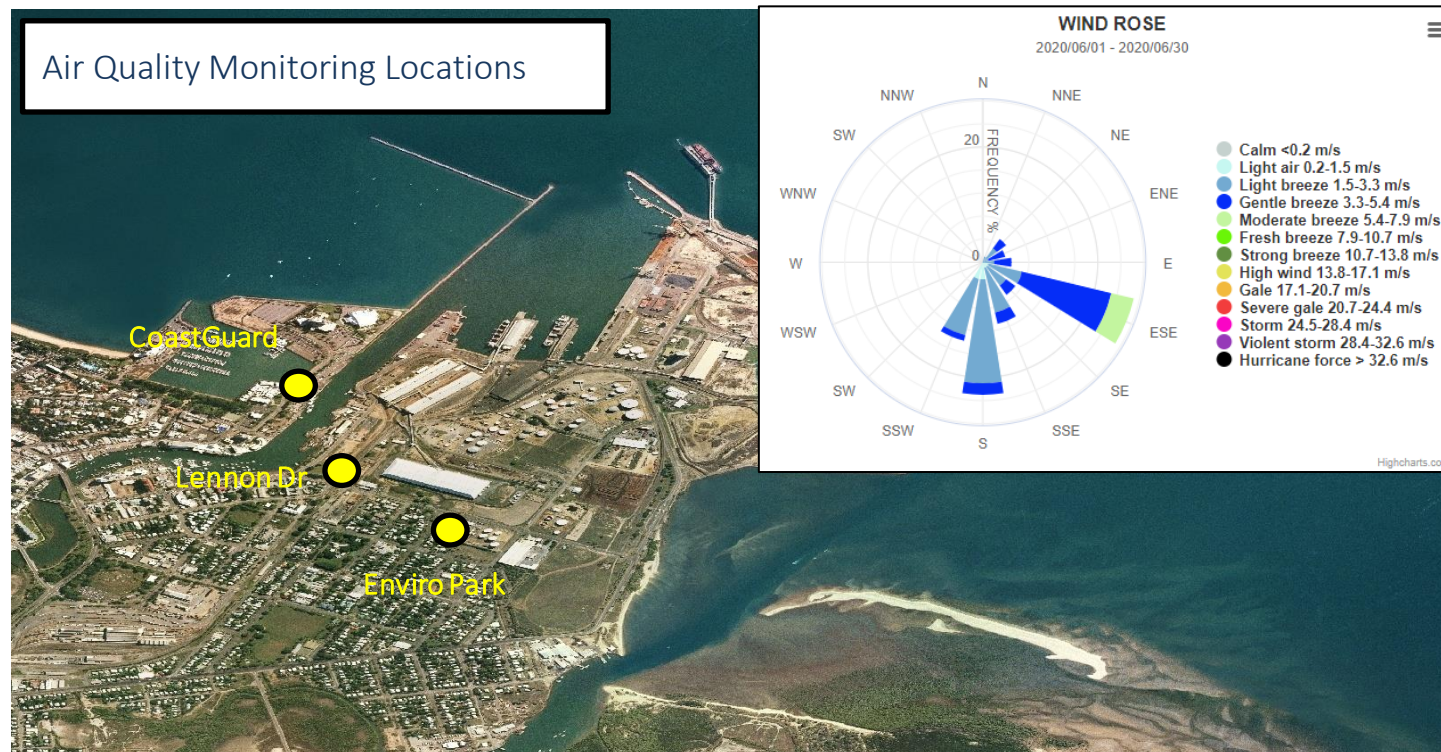
## AIR QUALITY MONITORING IN TOWNSVILLE

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 Dashboard | JUNE | 2020



### 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

# Shipping Movements in June 2020

Date In/Out	Vessel Name	Cargo	Berth/Terminal
31 May - 01 Jun	JULIA	SUGAR	T09
31 May - 02 Jun	OCEAN SWAGMAN	FODDER, CATTLE	T04
02 Jun - 03 Jun	THERESA MICRONESIA	MOLASSES	T09
02 Jun - 03 Jun	OCEAN UTE	FODDER, CATTLE	T04
01 Jun - 04 Jun	ZEА SERVANT	COPPER CONCENTRATES	T03N
05 Jun - 05 Jun	CAPE TOWN HIGHWAY	VEHICLE CARRIER	T09
04 Jun - 05 Jun	WESTERN DURBAN	LEAD INGOTS	T03S
06 Jun - 07 Jun	GRAND ACE7	FUELS	T01
06 Jun - 07 Jun	KOTA HIDAYAH	CONTAINER	T03S
04 Jun - 07 Jun	WYUNA	CEMENT	T04
06 Jun - 07 Jun	NORD TAIPEI	FERTILISER	T08
06 Jun - 08 Jun	KEN HOU	SUGAR	T09
07 Jun - 08 Jun	JAL UPASANA	FUELS	T01
08 Jun - 09 Jun	DAREEN	FODDER, CATTLE	T04
08 Jun - 09 Jun	GUDALI EXPRESS	FODDER, CATTLE	T03N
09 Jun - 10 Jun	GANADO EXPRESS	FODDER, CATTLE	T04
05 Jun - 10 Jun	AFRICAN ROOK	SULPHUR	T10
07 Jun - 11 Jun	DENSA SEA LION	ZINC CONCENTRATES	T08
09 Jun - 11 Jun	GLOBAL TRINITY	ZINC/LEAD CONCENTRATES	T11
11 Jun - 12 Jun	FLORA DELMAS	CONTAINER	T03S
11 Jun - 13 Jun	KEN MEI	ZINC CONCENTRATES	T08
13 Jun - 14 Jun	THE SHERIFF	FUELS	T01

Date In/Out	Vessel Name	Cargo	Berth/Terminal
14 Jun - 15 Jun	ORIENTAL SPIRIT	FERTILISER	T08
15 Jun - 16 Jun	HARVEST LEADER	MOTOR VEHICLE	T04
16 Jun - 17 Jun	HAFNIA MIKALA	FUELS	T01
17 Jun - 18 Jun	YANGTZE HARMONY	FODDER, CATTLE	T04
17 Jun - 18 Jun	PACIFIC CONDOR	TYRES	T03N
19 Jun - 19 Jun	HERMES LEADER	MOTOR VEHICLES	T04
20 Jun - 20 Jun	SOFRANA TOURVILLE	CONTAINER	T04
19 Jun - 21 Jun	OCEAN DROVER	FODDER, CATTLE	T10
19 Jun - 21 Jun	KOTA NIPAH	CONTAINER	T03S
21 Jun - 22 Jun	STRAITS BREEZE	LEAD CONCENTRATES	T03S
22 Jun - 23 Jun	GALLOWAY EXPRESS	FODDER, CATTLE	T04
22 Jun - 23 Jun	HMAS CANBERRA	NAVY	T10
23 Jun - 24 Jun	STOLT MOMIJI	CEMENT	T04
21 Jun - 24 Jun	ZEPHYR VENTURE	COPPER CONCENTRATES	T11
23 Jun - 24 Jun	BW COUGAR	FUELS	T01
25 Jun - 26 Jun	GLOUCESTER EXPRESS	FODDER, CATTLE	T04
26 Jun - 27 Jun	MARYAM D	ZINC CONCENTRATES	T03S
26 Jun - 28 Jun	SOUTHGATE	ZINC CONCENTRATES	T08
27 Jun - 28 Jun	SPRUCE EXPRESS	FUELS	T01
27 Jun - 29 Jun	KONDILI	CEMENT	T04
27 Jun - 30 Jun	KYOWA ROSE	CONTAINERS	T03N



# Port of Townsville - Overview

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

The 2018-19 year was a significant one for the Port of Townsville, with growth in trade driven by a rebound in the resources sector, a strong net profit of \$15.96 million and the advancement of a number of major infrastructure projects. Total trade throughput of 7.68 million tonnes is a 4.7% increase on the previous financial year. There were increases across a range of export commodities, in particular mineral concentrates, zinc ferrites, refined copper, smelted lead, sugar and cattle. Cruise ship visitation grew with 16 arrivals and a doubling the number of passengers and crew to almost 20,000 people.

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

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 [Port of Townsville Facebook page](#) and click on “Sign up” at the top of the page.

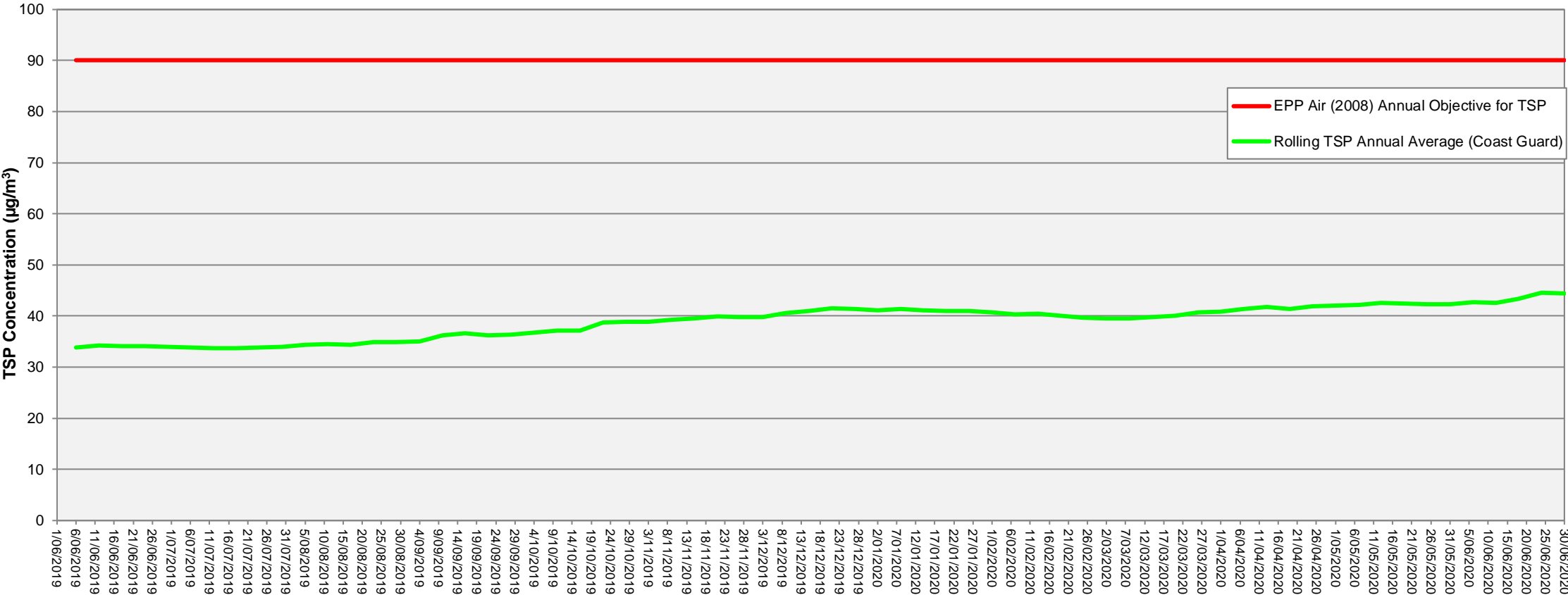
OR

Phone 07 47 811 500 and asked to be added to the list.

## Ask a Question / Provide Feedback

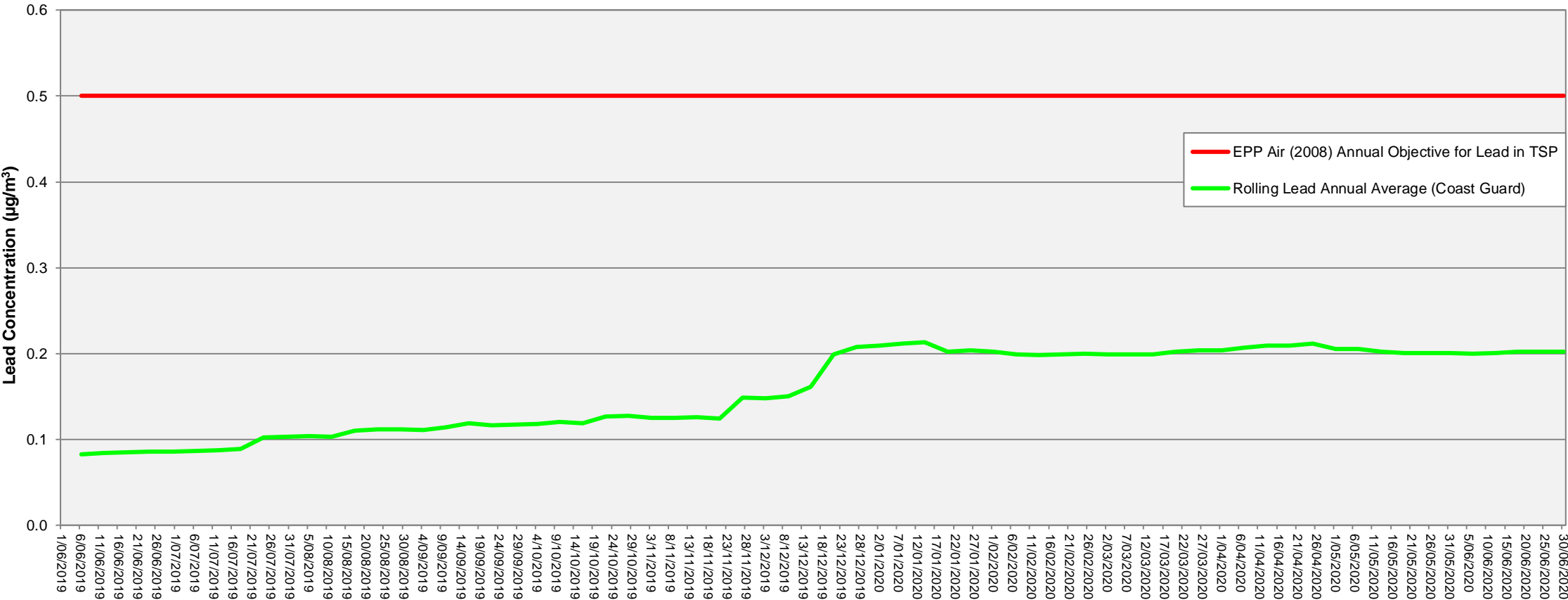
Send your enquiry or feedback to [community@townsvilleport.com.au](mailto:community@townsvilleport.com.au)

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

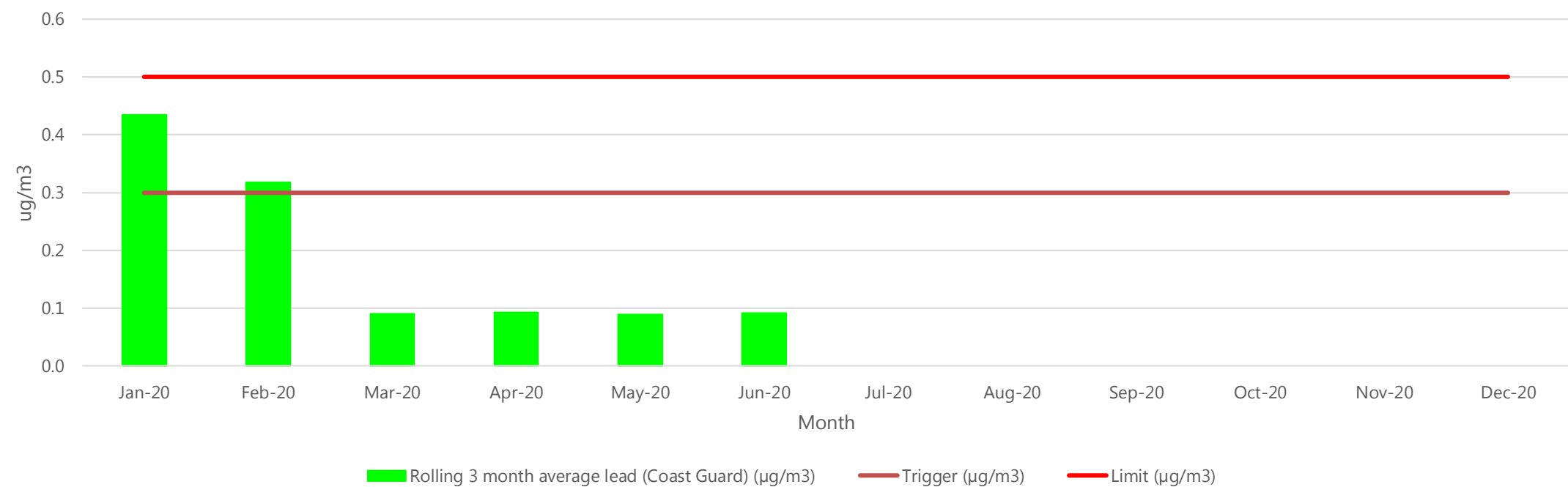


Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
Rolling annual average = the moving average of the previous 11 results and the current result

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

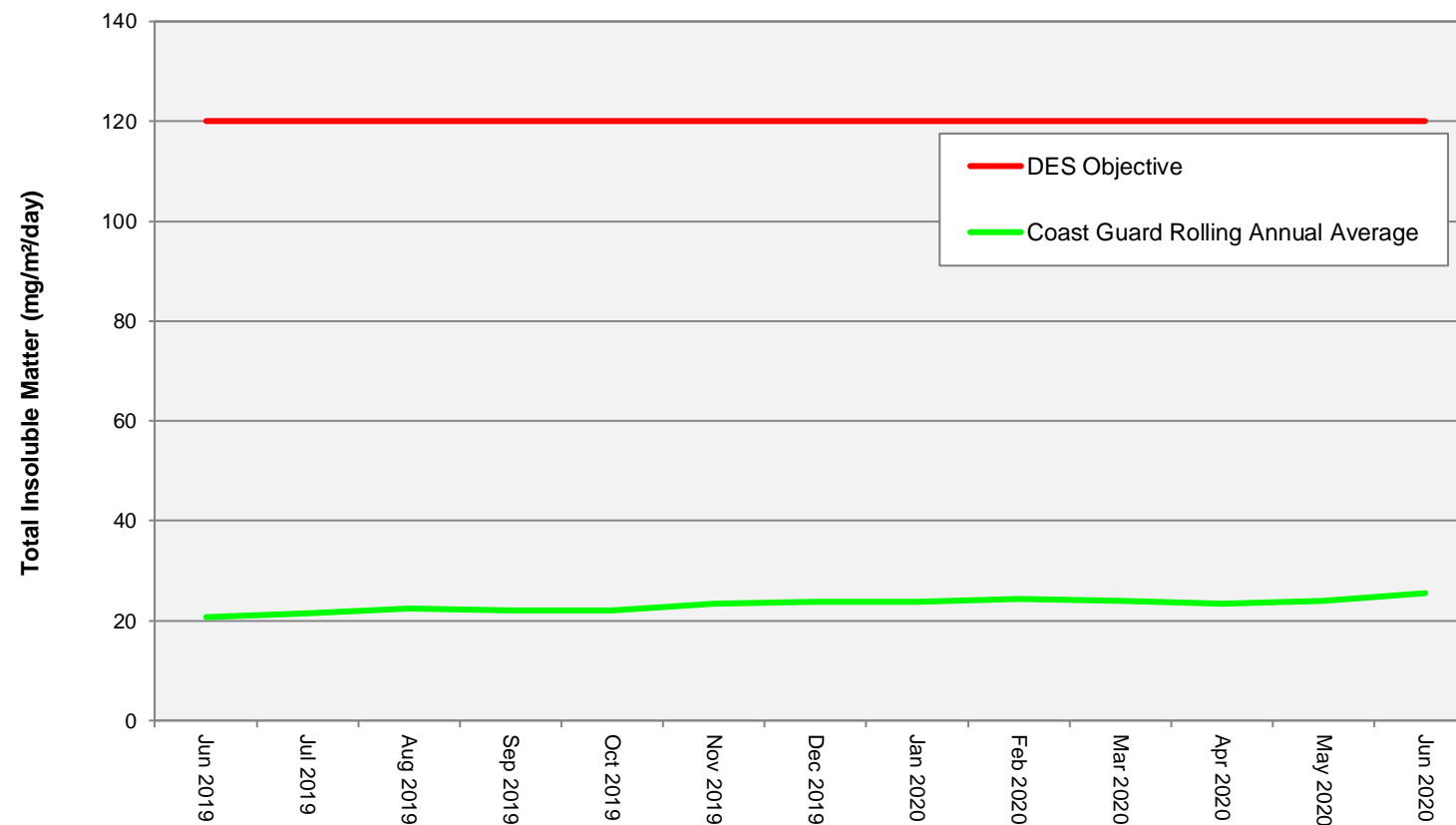


## Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site 2020



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

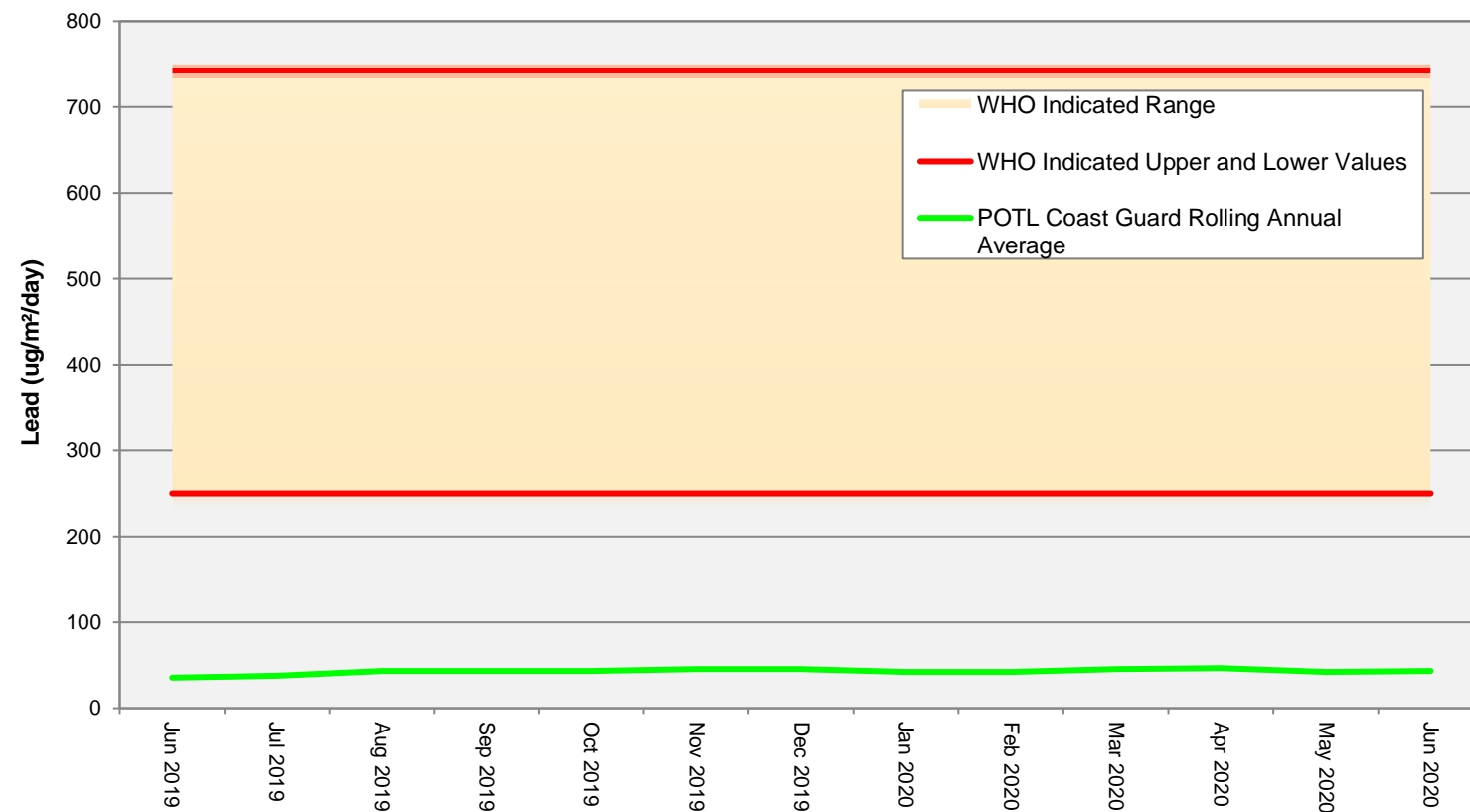
## Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site JUNE 2019 – JUNE 2020



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

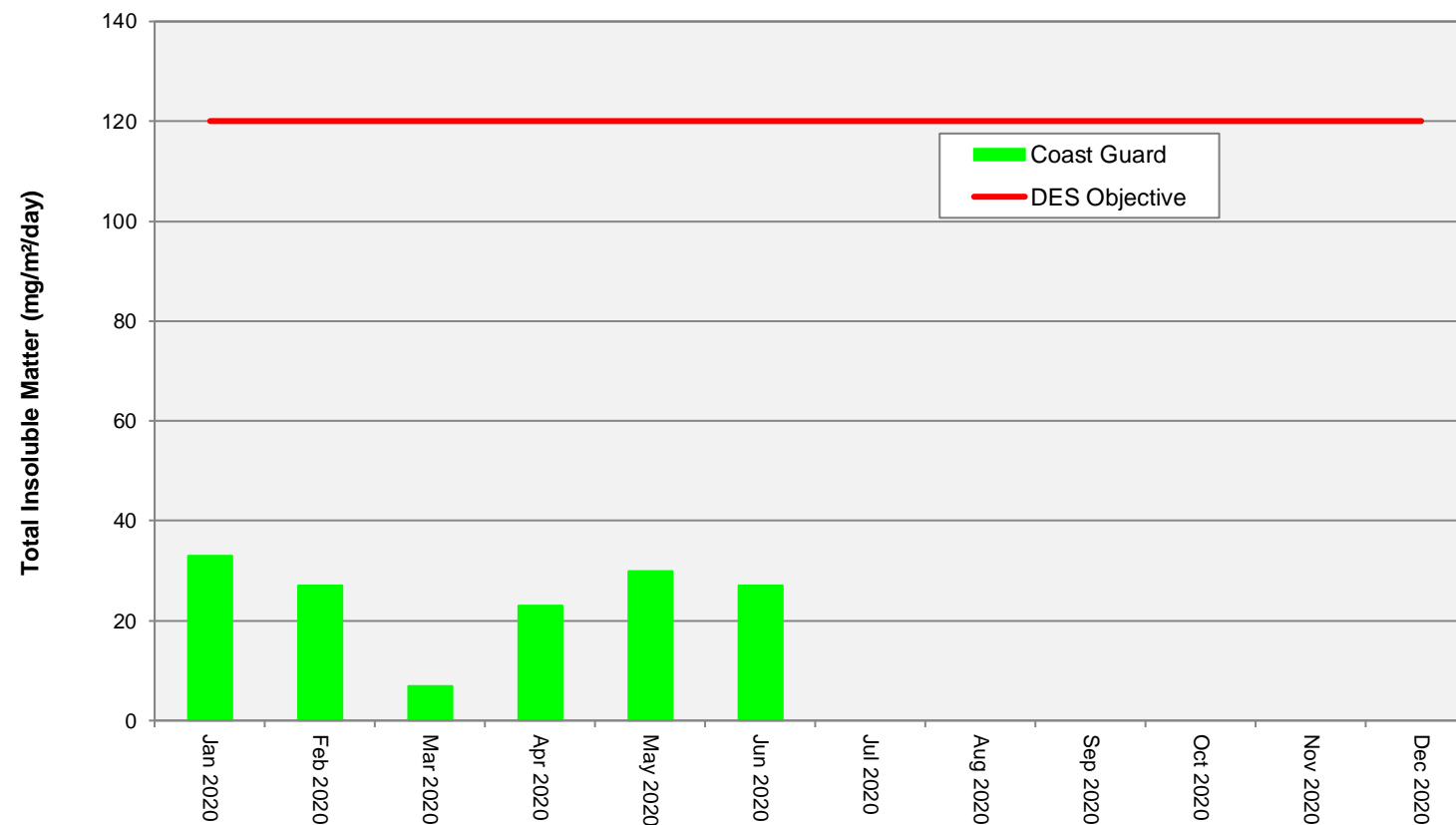


## Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site JUNE 2019 – JUNE 2020



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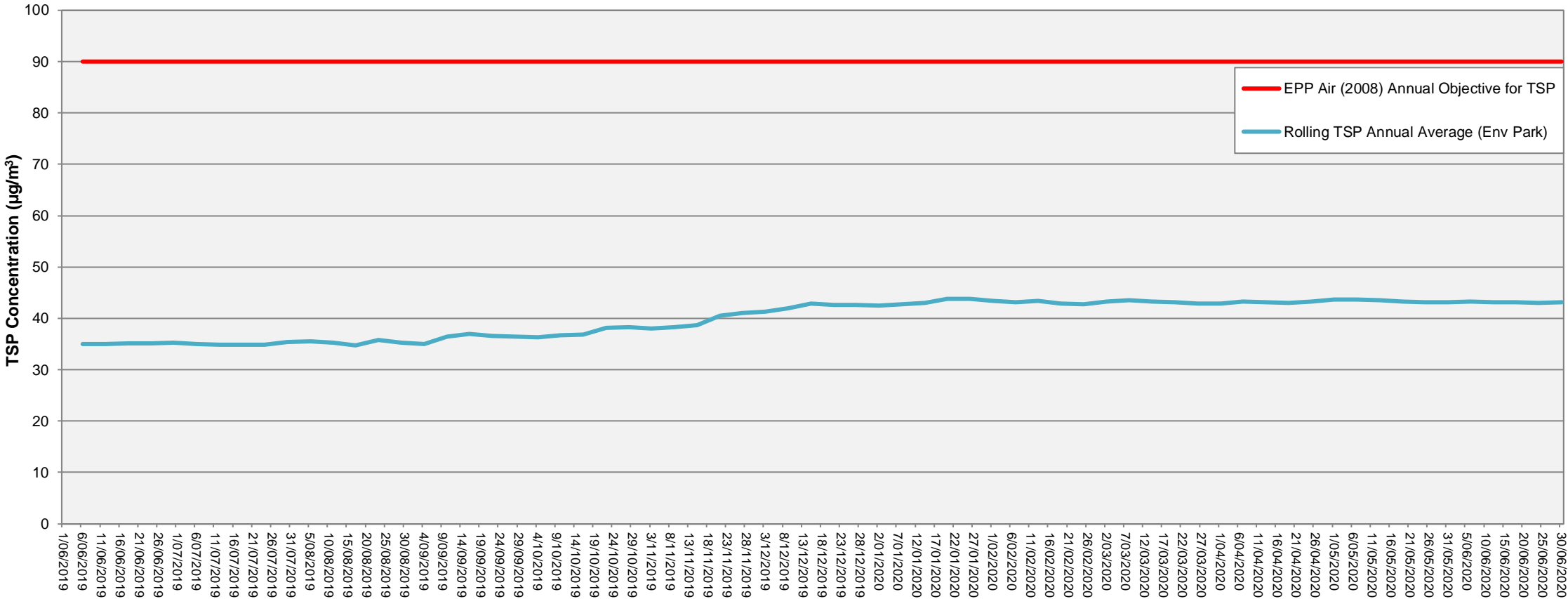
## Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site 2020



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

[Click here](#) for information on how to interpret this data

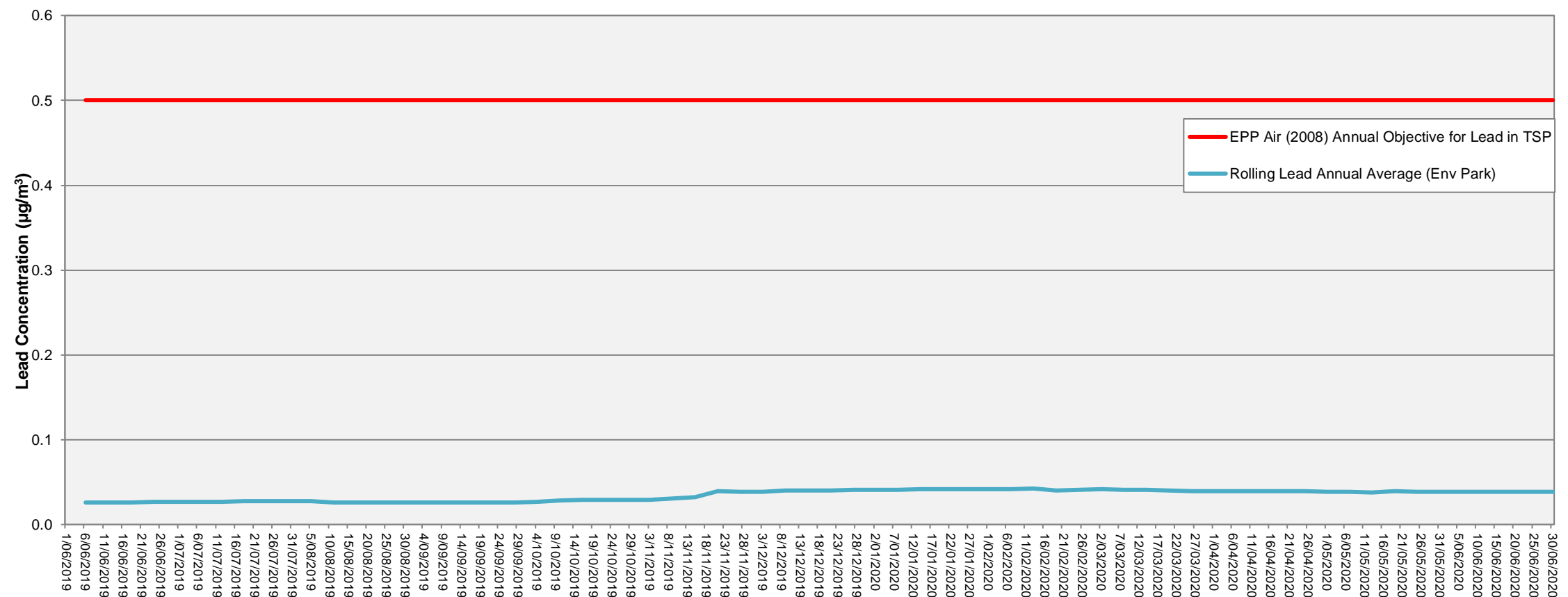
Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site  
JUNE 2019 – JUNE 2020



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

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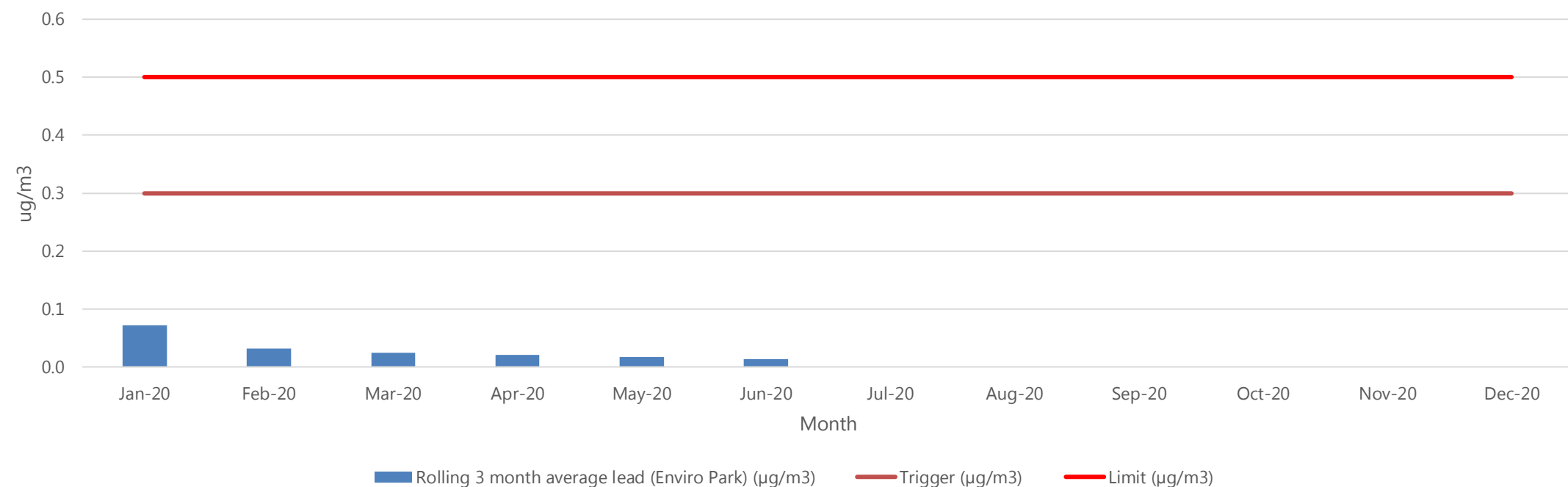
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## Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site 2020

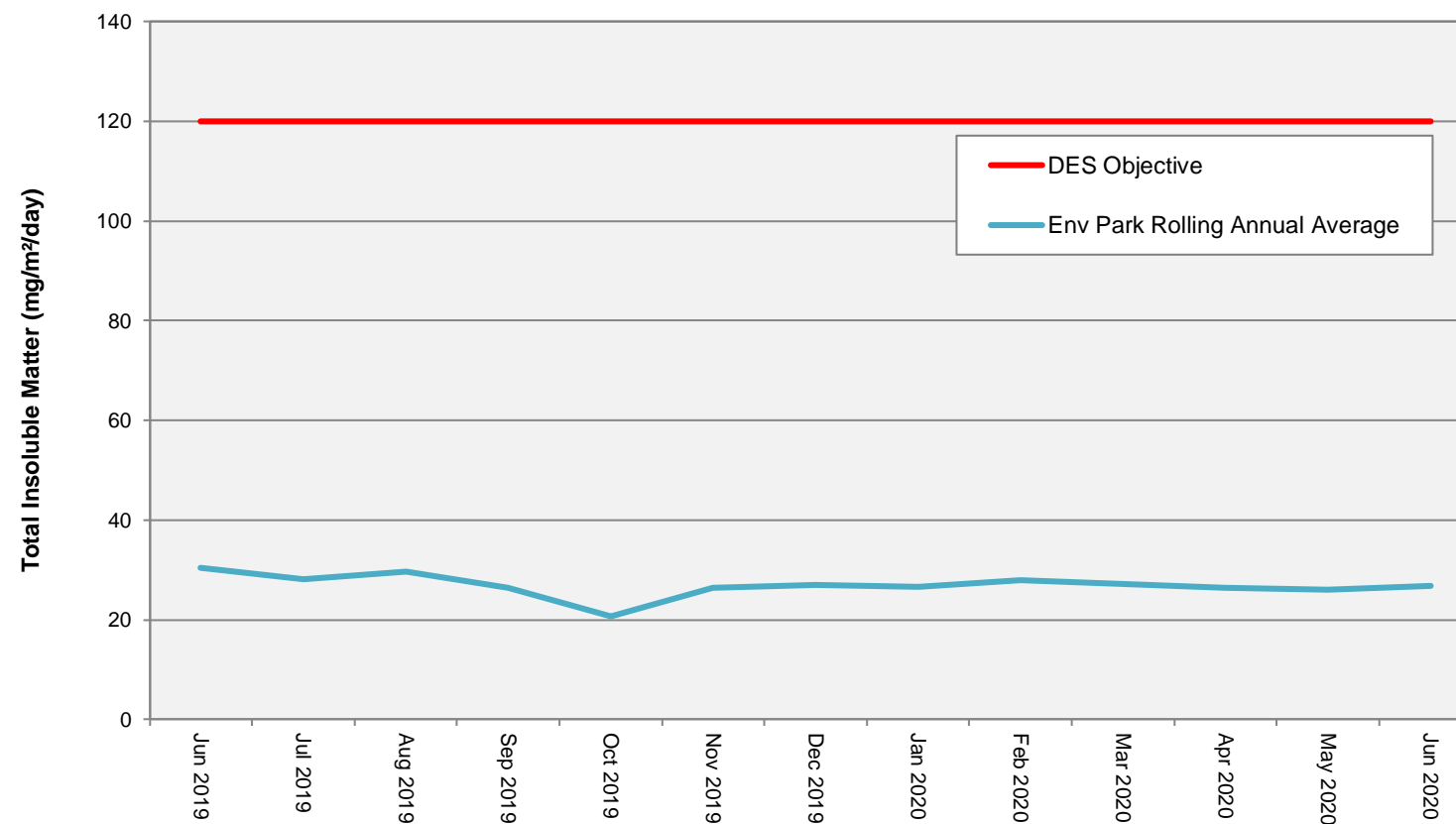


Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result



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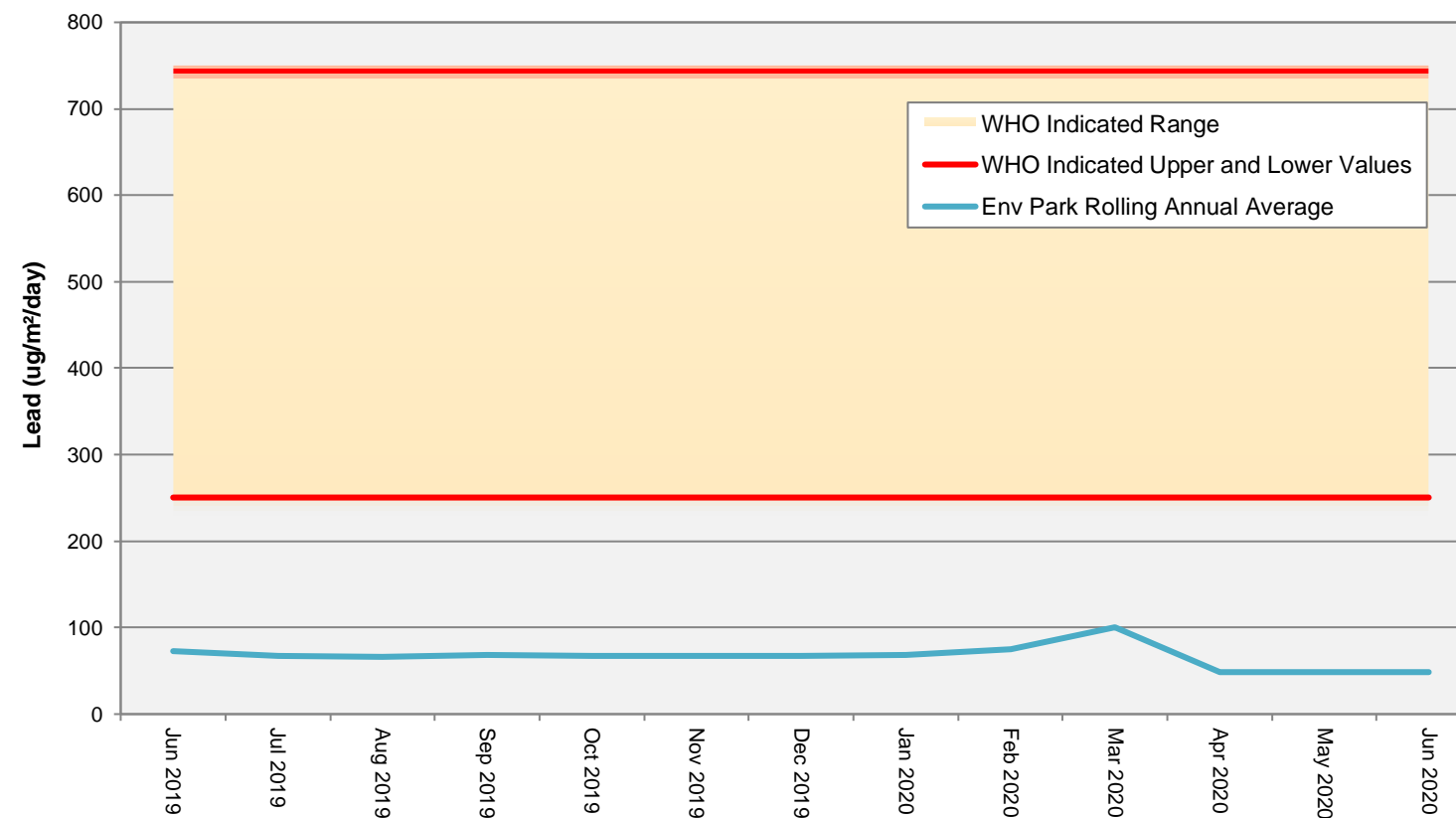
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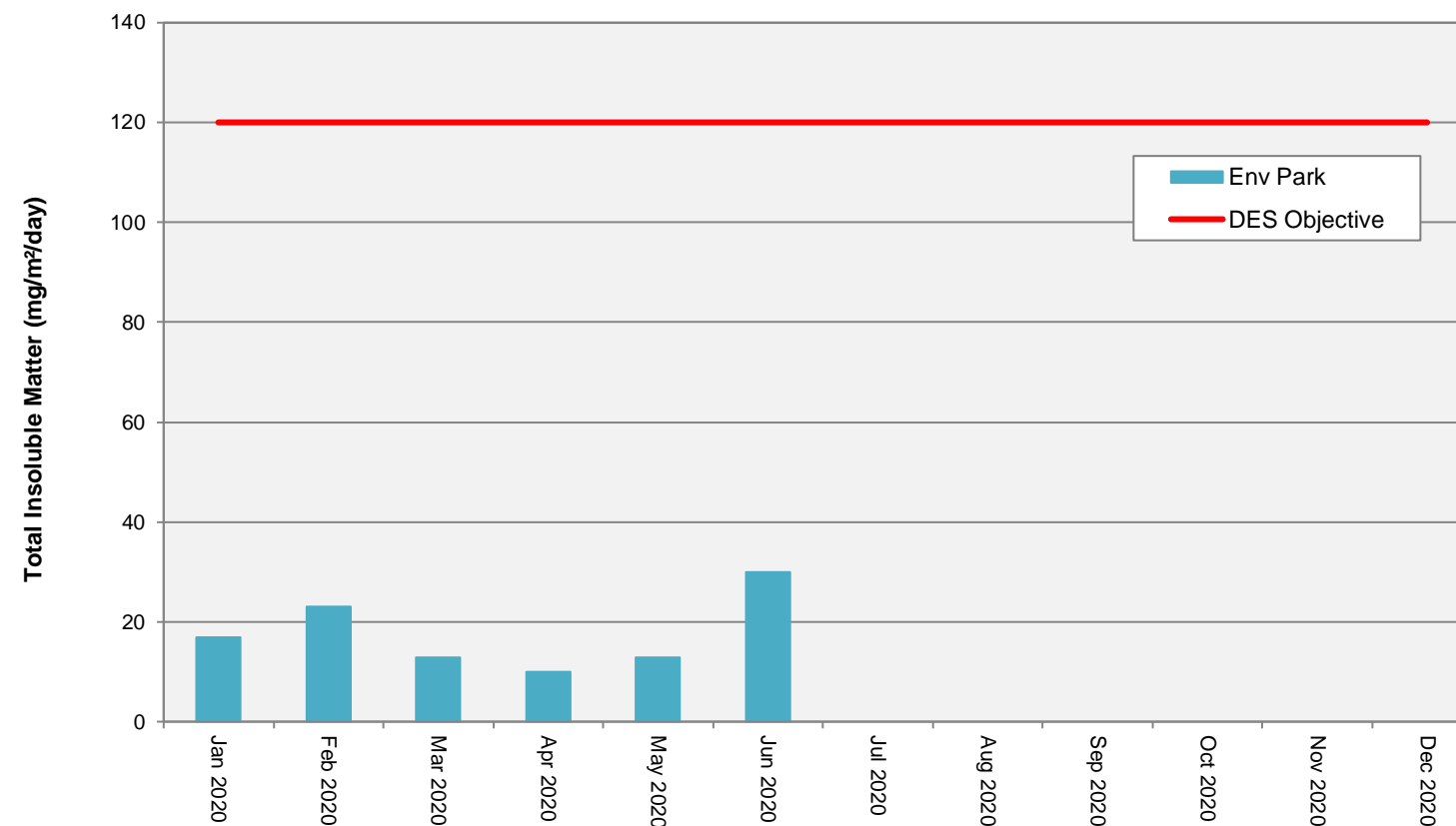
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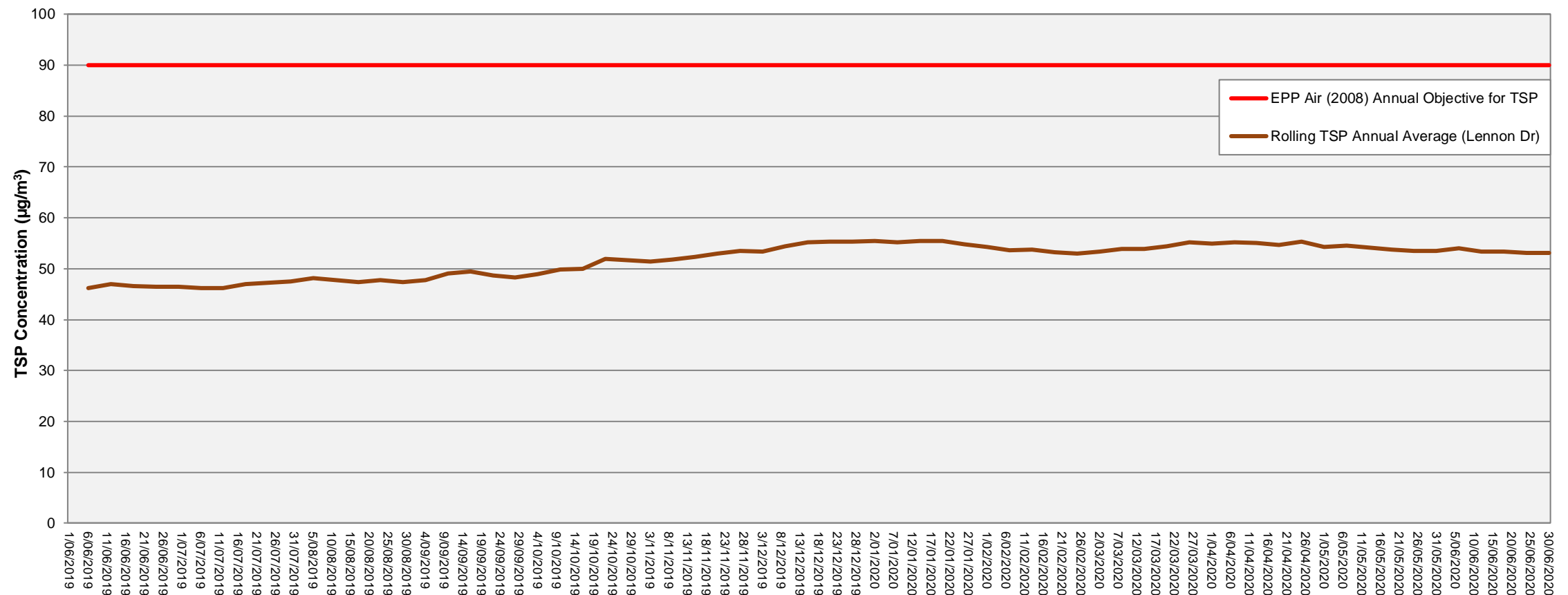
## Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site 2020



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

[Click here](#) for information on how to interpret this data

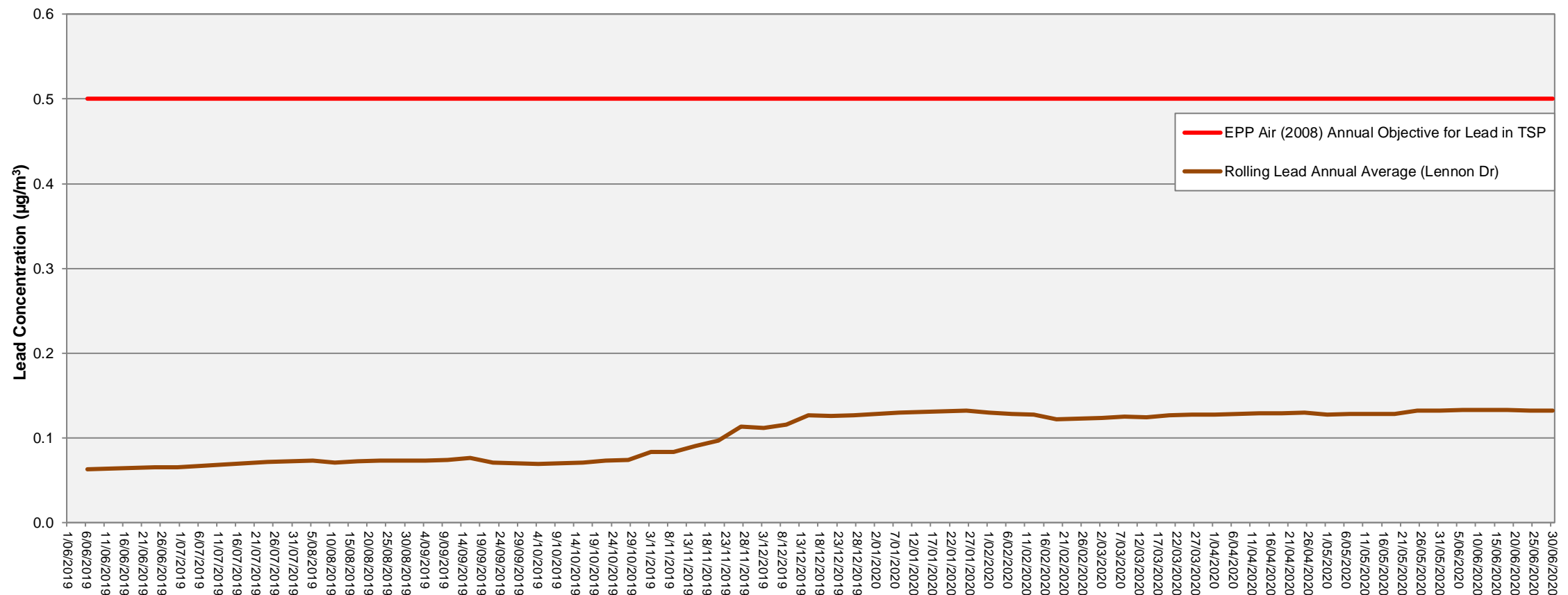
## Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site JUNE 2019 – JUNE 2020



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

[Click here](#) for information on how to interpret this data

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

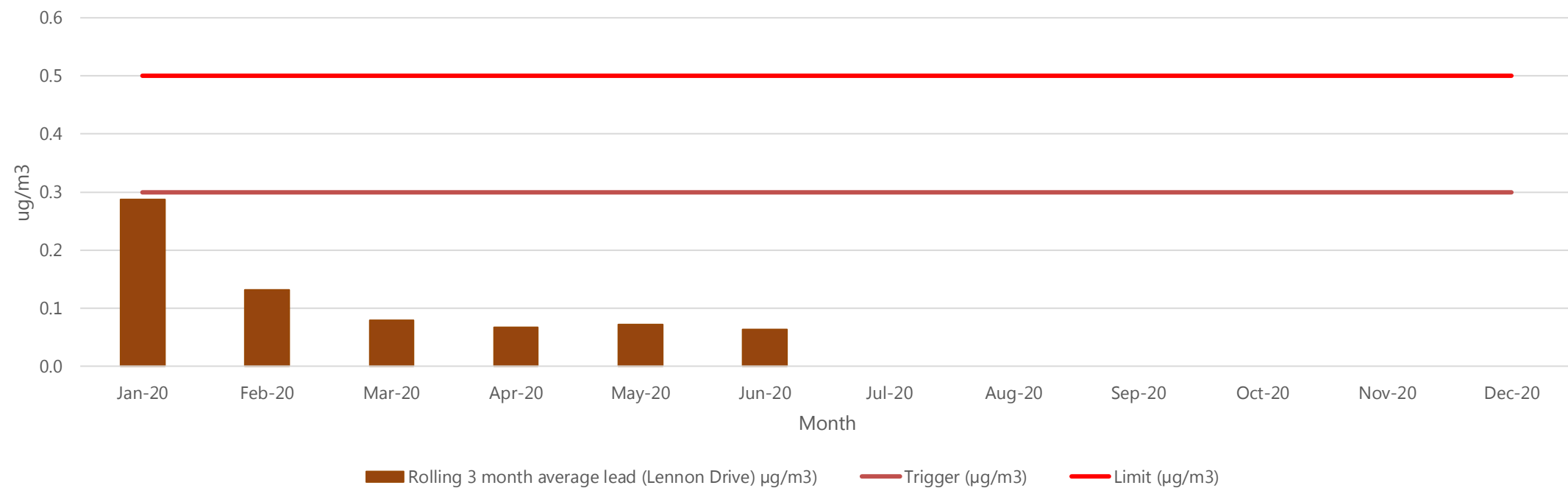


Note: Lead Concentration units = micrograms per cubic metre per 24 hour period  
 Rolling annual average = the moving average of the previous 11 results and the current result



[Click here](#) for information on how to interpret this data

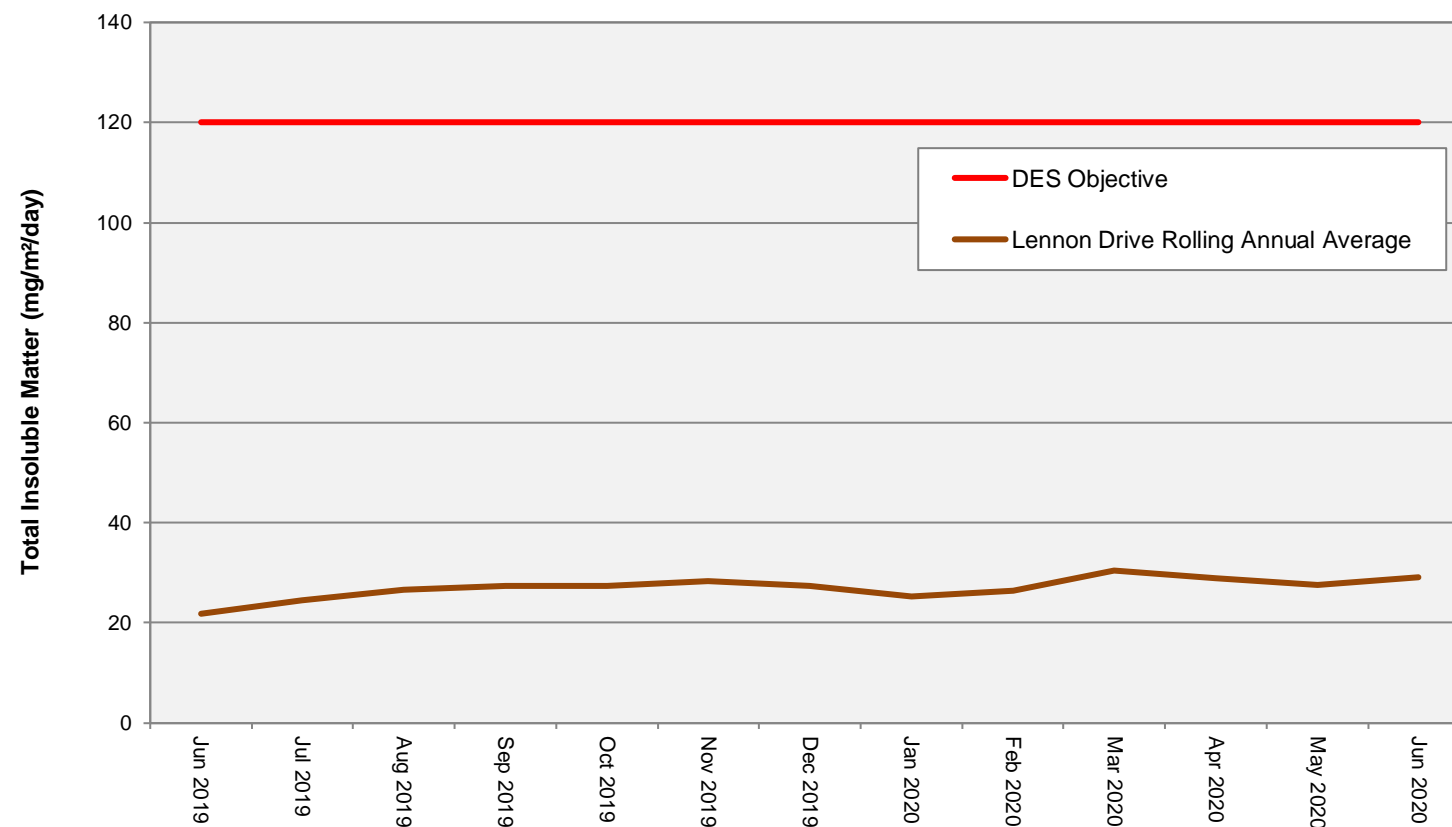
## Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site 2020



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

[Click here](#) for information on how to interpret this data

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

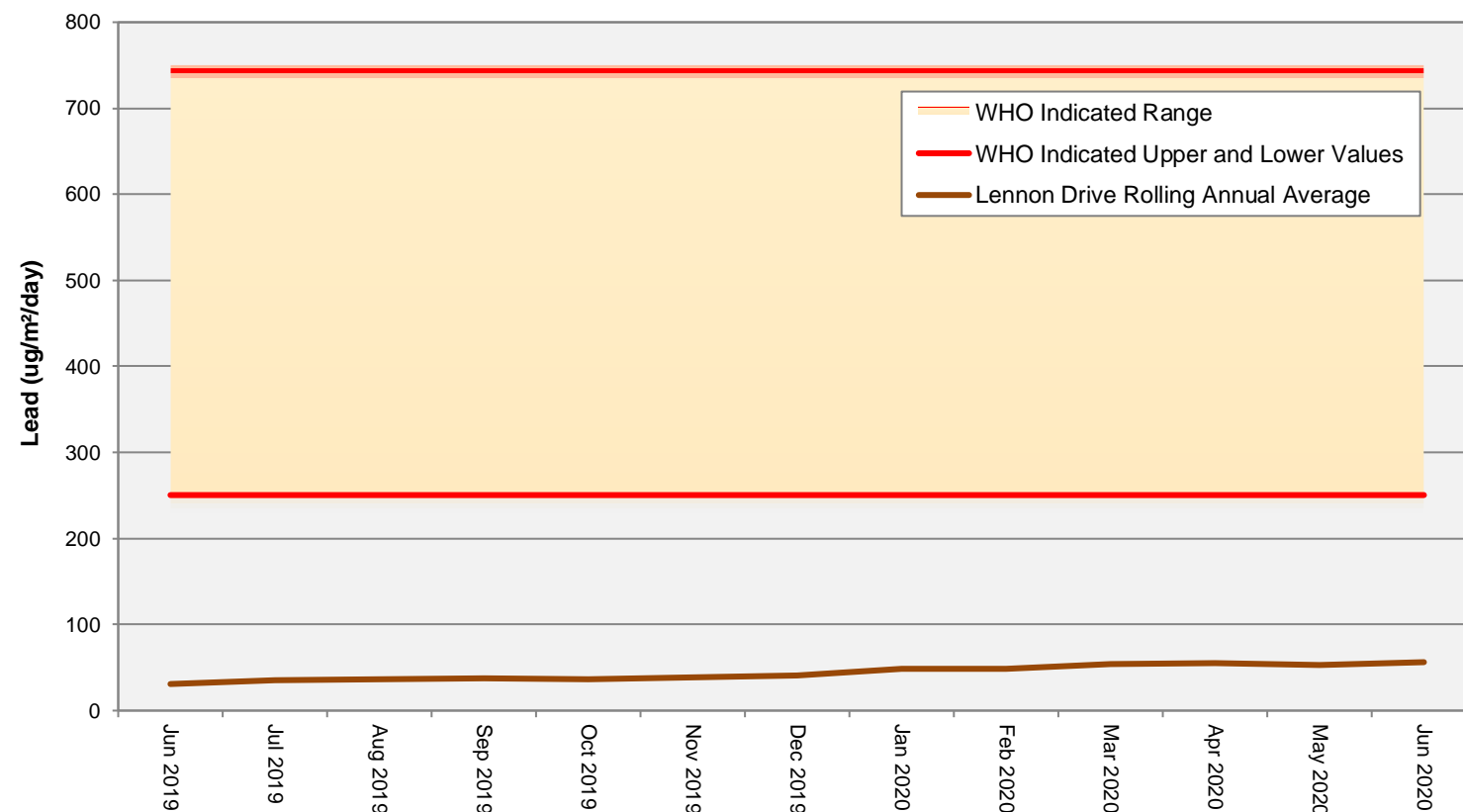


Note:

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

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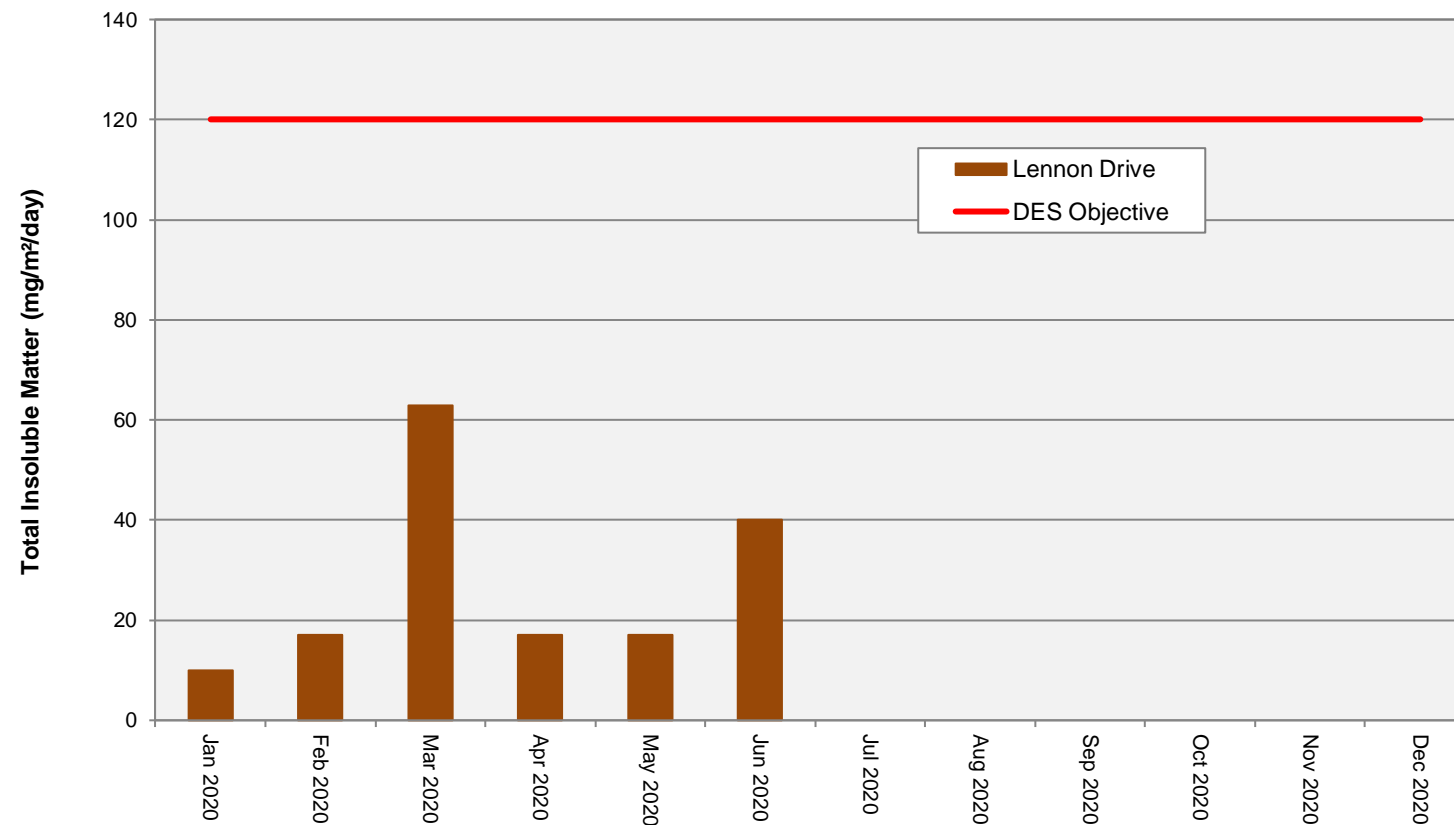
## Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site JUNE 2019 – JUNE 2020



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



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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 out. 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.