

Air Quality Dashboard | August | 2021

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

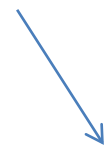
What cargo is
handled at the
Townsville
Port?

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

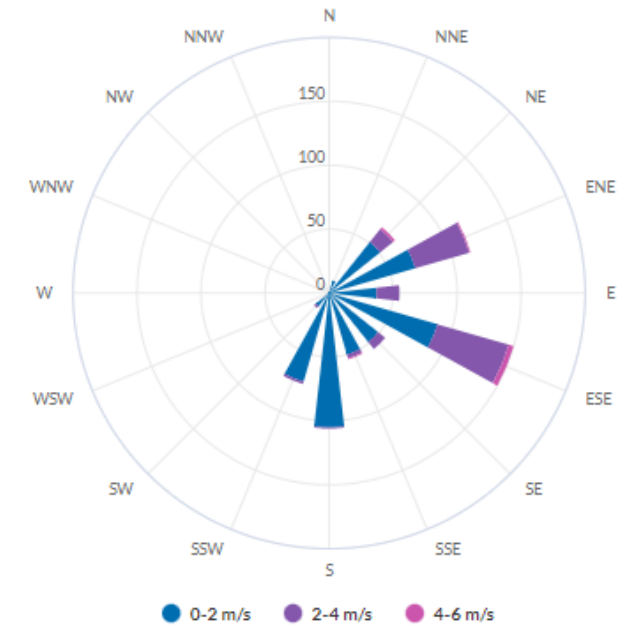
Rainfall Data -
BOM

Air Quality
Monitoring Plan

Air Quality Monitoring Locations



Wind speed ranges correlating to wind direction



Shipping Movements in August 2021

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

Date In/Out	Vessel Name	Cargo	Berth
29 Jul - 01 Aug	PACIFIC CONDOR	NIL	T03N
31 Jul - 01 Aug	GREYMAN EXPRESS	Cattle (EXPORT)	T04
01 Aug - 01 Aug	HMAS CANBERRA	Nil Cargo (IMPORT)	T10
01 Aug - 03 Aug	HMAS CHOULES	Nil Cargo (IMPORT)	T09
01 Aug - 03 Aug	KLARA SELMER	Urea (IMPORT)	T03S
02 Aug - 04 Aug	AKUNA	Cement (IMPORT)	T04
02 Aug - 04 Aug	HMAS BRISBANE	Nil Cargo (IMPORT)	T10
02 Aug - 03 Aug	TOMINI ENTITY	TBA	T08
03 Aug - 05 Aug	TOMINI ENTITY	Concentrates (EXPORT)	T03S
04 Aug - 06 Aug	OLYMPIA LOGGER	Sugar (EXPORT)	T09
05 Aug - 09 Aug	HMAS MERMAID	TBA	T10
05 Aug - 09 Aug	HMAS PALUMA	TBA	T10
05 Aug - 07 Aug	SUN RUBY	Fertilizer (IMPORT)	T04
06 Aug - 07 Aug	SPAR DRACO	TBA	T03S
06 Aug - 06 Aug	CATTLEYA ACE	Motor Vehicles (IMPORT)	T09
07 Aug - 08 Aug	SOFRANA SURVILLE	NIL	T04
07 Aug - 10 Aug	SPAR DRACO	TBA	T08
10 Aug - 10 Aug	GOLDEN MIND	Fuels (IMPORT)	T01
10 Aug - 11 Aug	TAURUS LEADER	Motor Vehicles (IMPORT)	T10
10 Aug - 12 Aug	HARRISBURG	Fuels (IMPORT)	T01
11 Aug - 13 Aug	LAE CHIEF	NIL	T04
12 Aug - 13 Aug	POAVOSA WISDOM III	Sugar (EXPORT)	T09
12 Aug - 13 Aug	STI LARVOTTO	Fuels (IMPORT)	T01
13 Aug - 16 Aug	YANGTZE HARMONY	Cattle (EXPORT)	T10
13 Aug - 16 Aug	ORIENT GLORY	Urea (IMPORT)	T08
13 Aug - 15 Aug	HANSA REGENSBURG	NIL	T03N
13 Aug - 15 Aug	KEN SKY	Sugar (EXPORT)	T09
14 Aug - 16 Aug	LUGA	Cement (EXPORT)	T04

Date In/Out	Vessel Name	Cargo	Berth
15 Aug - 16 Aug	TOKYO TRADER	NIL	T03S
16 Aug - 18 Aug	FJ VIOLA	Sugar (EXPORT)	T09
16 Aug - 20 Aug	NORD CHESAPEAKE	Zinc Concentrates (EXPORT)	T08
16 Aug - 17 Aug	GENIUS HIGHWAY	Motor Vehicles (IMPORT)	T10
16 Aug - 19 Aug	KYOWA ROSE	NIL	T03N
16 Aug - 22 Aug	LU YANG SHUN	Lead Concentrates (EXPORT)	T04
17 Aug - 18 Aug	GELBRAY EXPRESS	Cattle, Fodder (EXPORT)	T10
18 Aug - 20 Aug	ORIENT GLORY	TBA	T09
18 Aug - 21 Aug	LV SONG HAI	Lead & Zinc Concentrates (EXPORT)	T11
19 Aug - 23 Aug	HMAS CHOULES	TBA	T10
19 Aug - 21 Aug	YANGTZE BRILLIANCE	General/Break Bulk (IMPORT)	T03N
20 Aug - 21 Aug	CHALLENGE PRIME	Fuels,Fuels (IMPORT)	T01
21 Aug - 22 Aug	LV SONG HAI	TBA	T03S
22 Aug - 24 Aug	THERESA MICRONESIA	TBA	T09
23 Aug - 24 Aug	BAUSTELLA	Bitumen (IMPORT)	T04
24 Aug - 26 Aug	FLORA DELMAS	NIL	T03S
27 Aug - 29 Aug	LA PARTENAIS	Lead & Zinc Concentrates (EXPORT)	T03S
27 Aug - 28 Aug	SUVA CHIEF	NIL	T04
27 Aug - 28 Aug	THERESA ORION	Molasses (EXPORT)	T09
27 Aug - 31 Aug	AFRICAN ROOK	Sulphur, Fertilizer, (IMPORT)	T08
28 Aug - 29 Aug	JAL SASVATA	Fuels (IMPORT)	T01
29 Aug - 30 Aug	YANGTZE FORTUNE	Cattle, Fodder (EXPORT)	T03N
29 Aug - 31 Aug	AKUNA	Cement (IMPORT)	T04



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

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

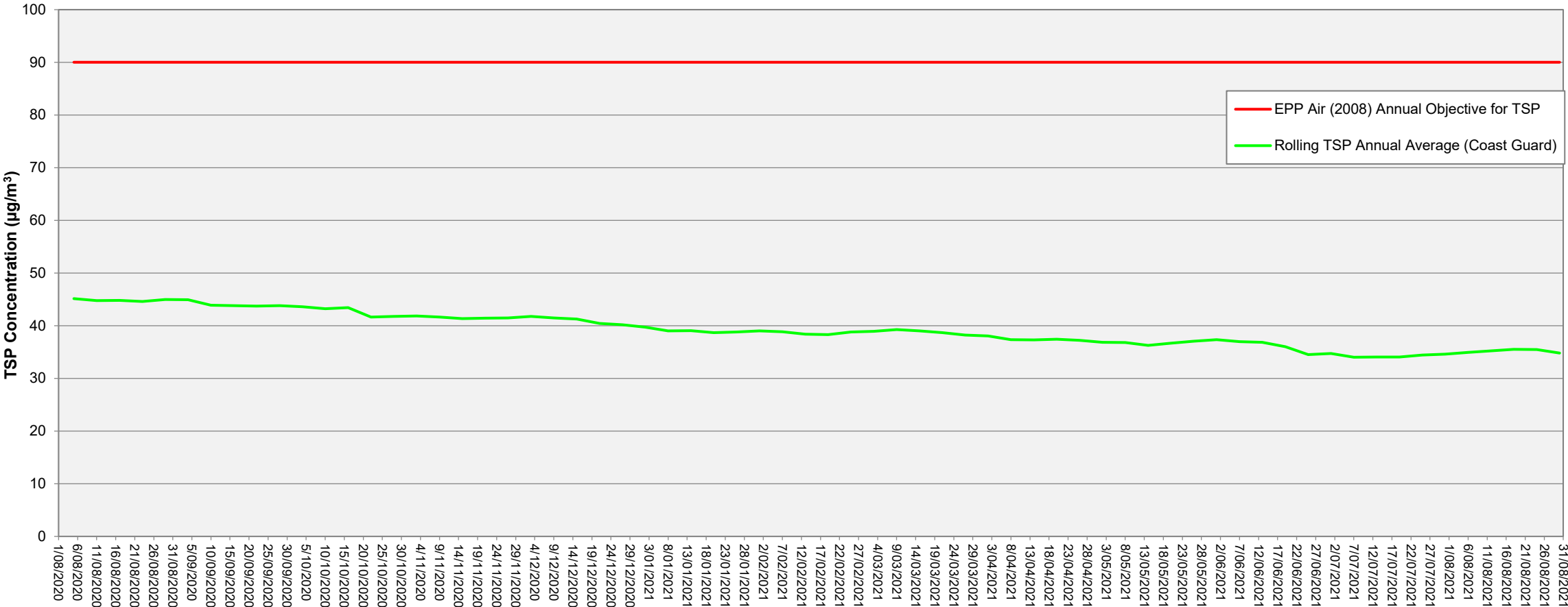
OR

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

Ask a Question / Provide Feedback

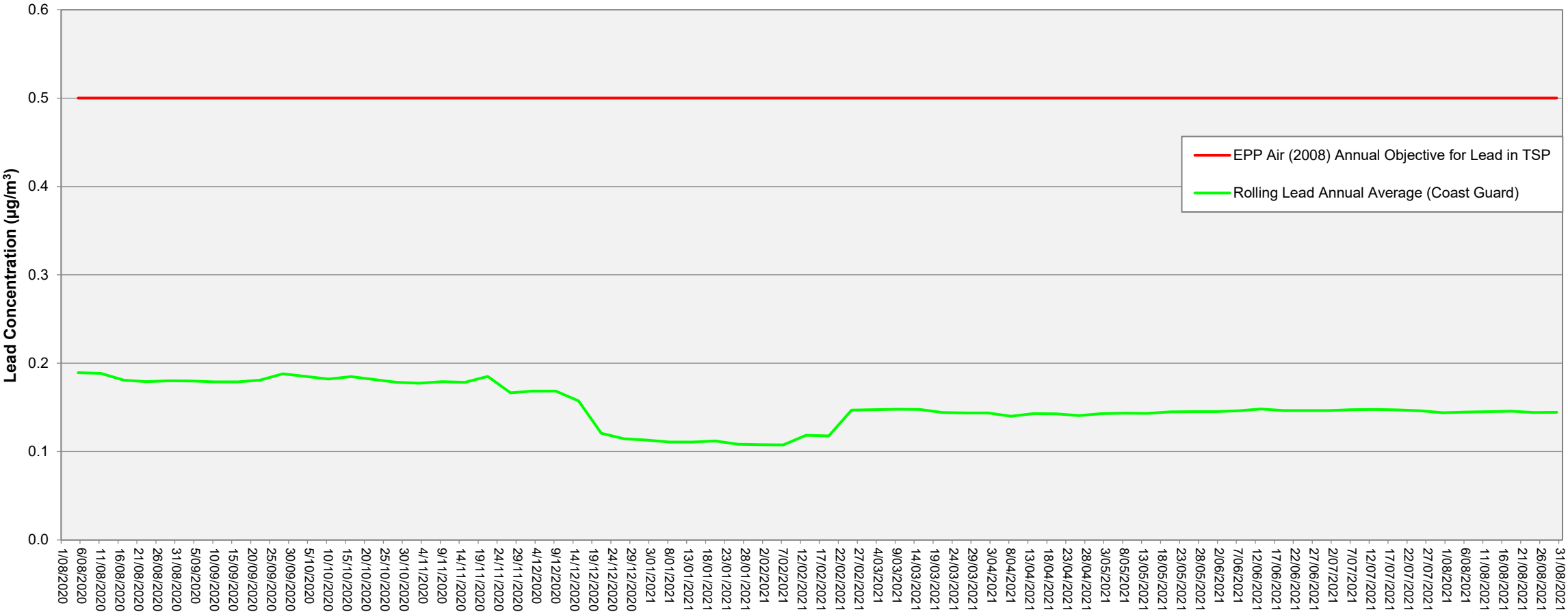
Send your enquiry or feedback to community@townsvilleport.com.au

Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site
AUGUST 2020 – AUGUST 2021



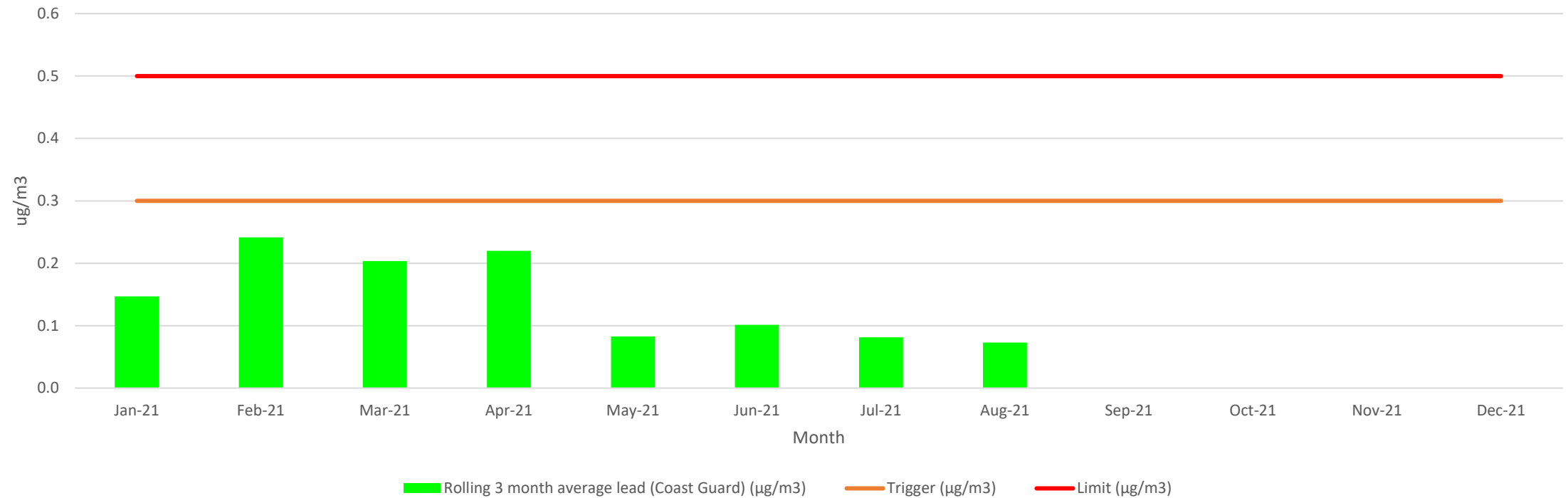
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site
AUGUST 2020 – AUGUST 2021



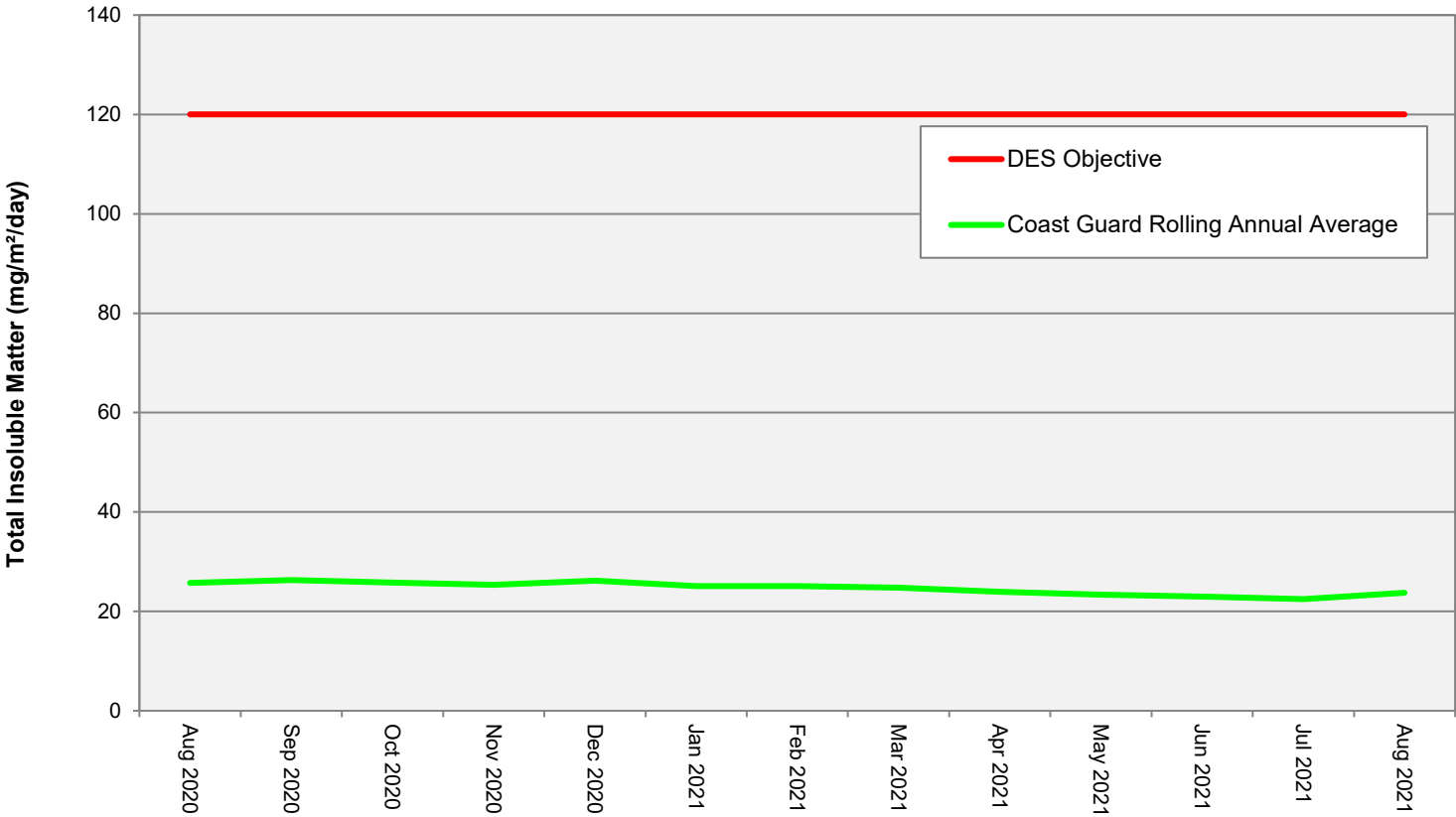
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site
2021



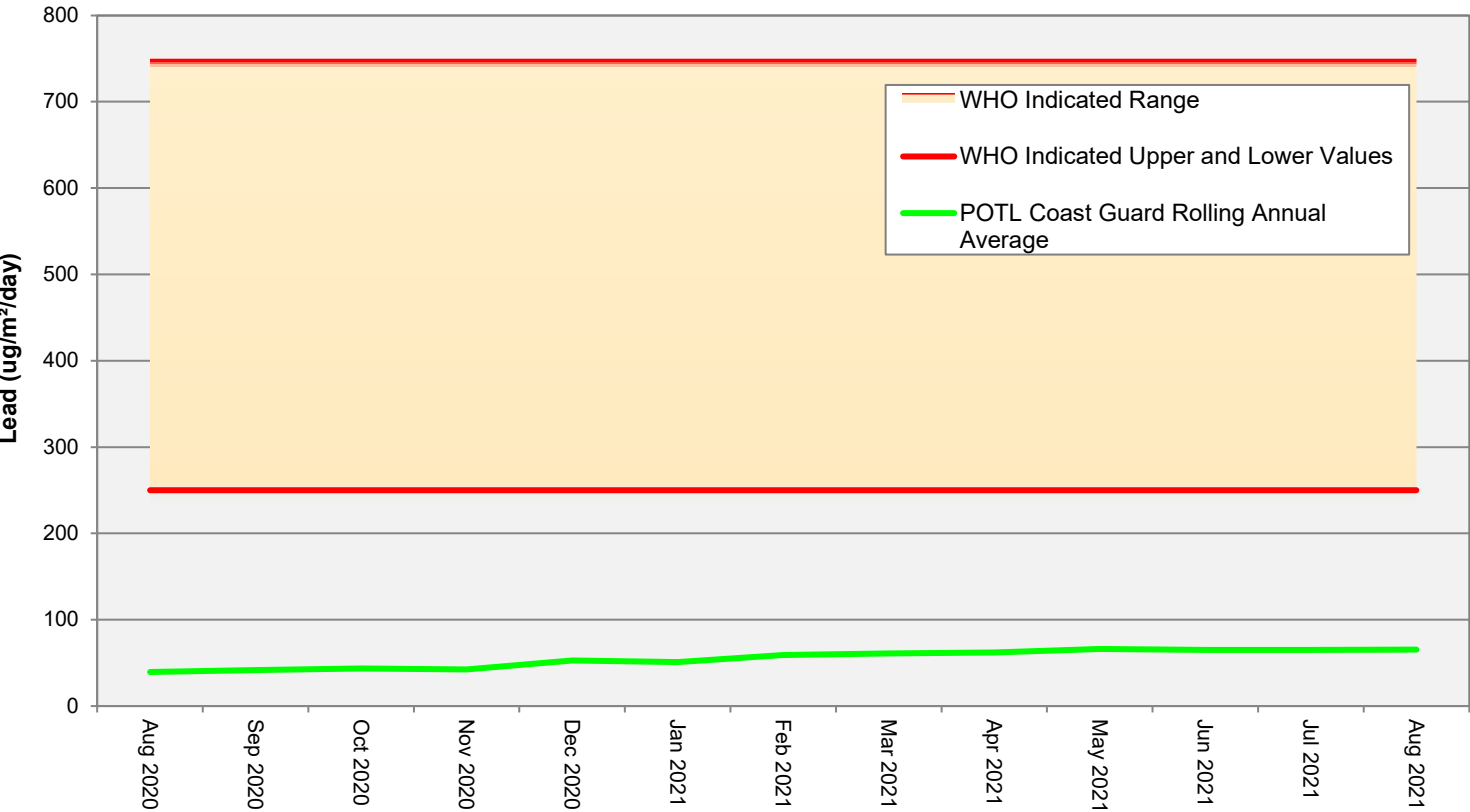
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
AUGUST 2020 – AUGUST 2021



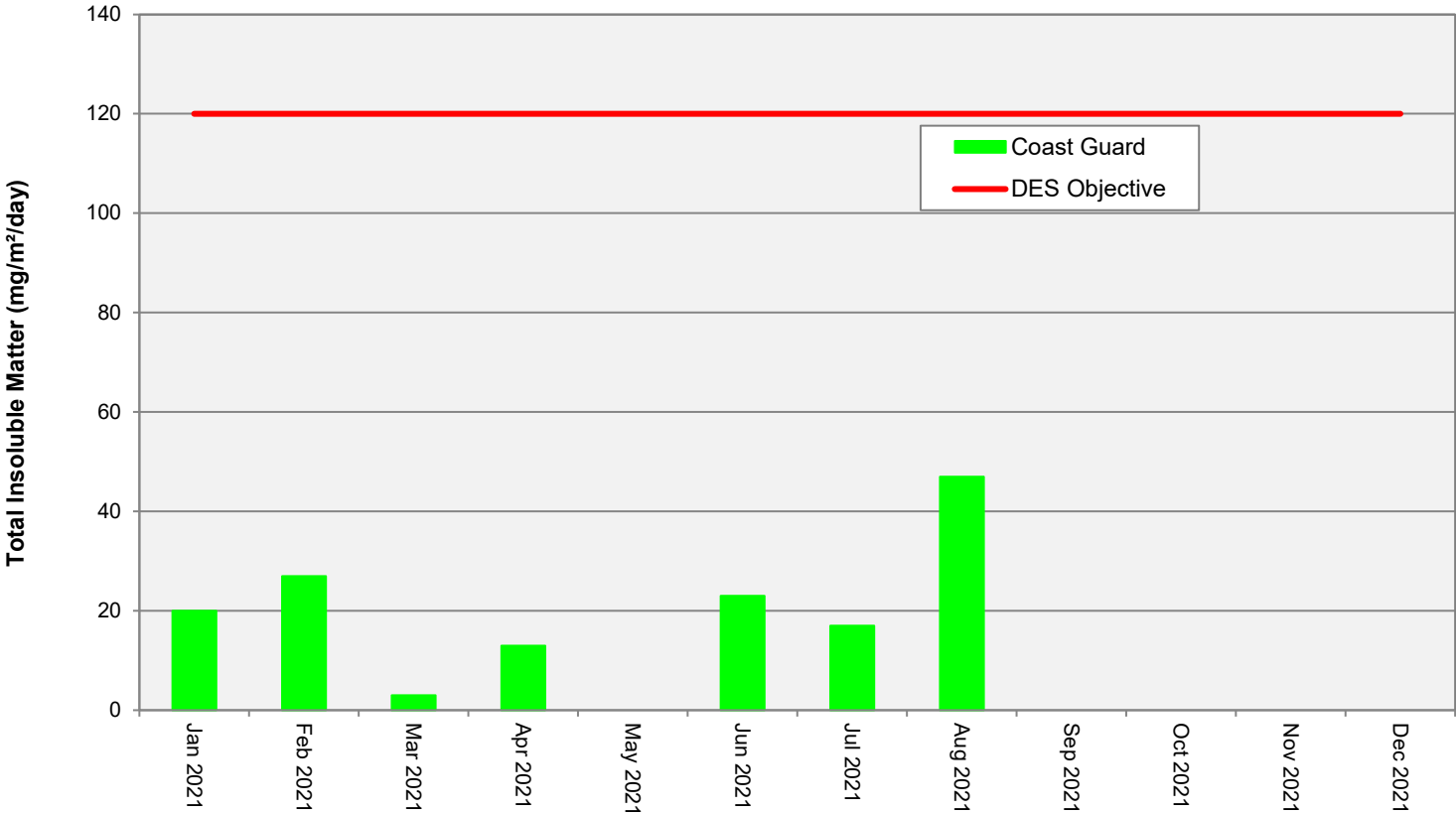
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site
AUGUST 2020 – AUGUST 2021



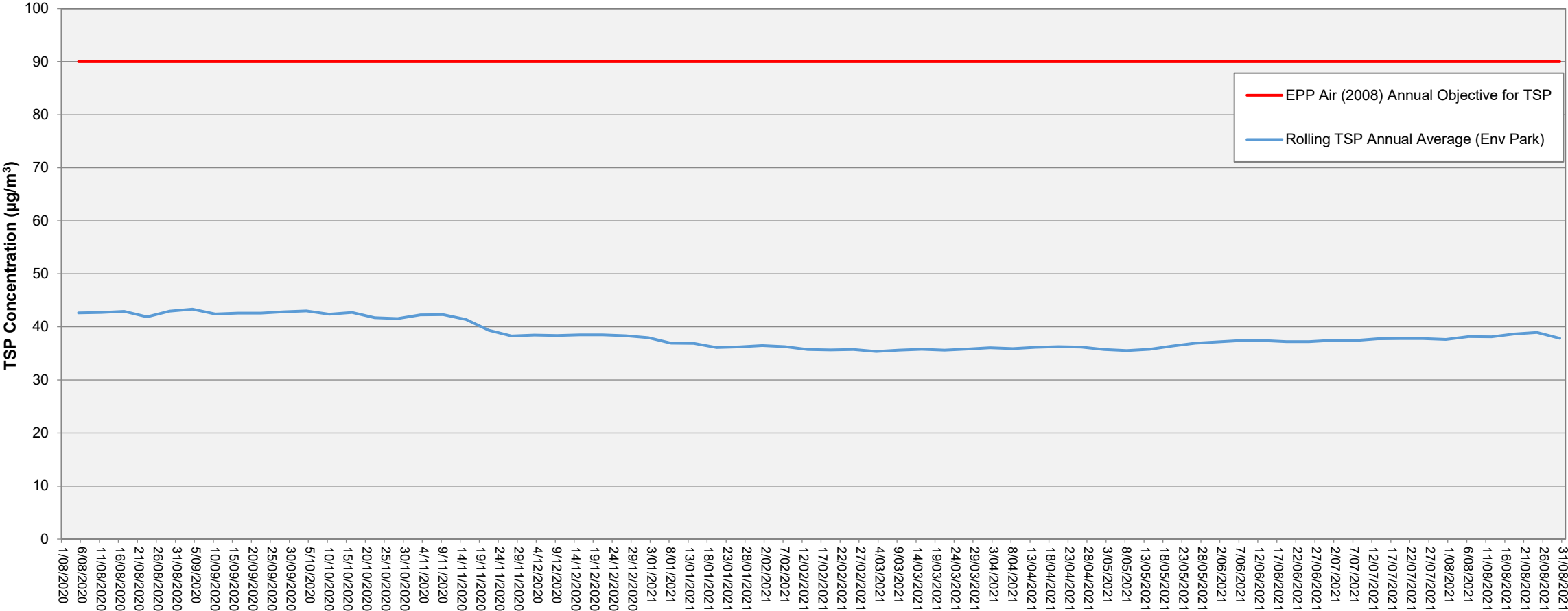
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result.

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site
2021

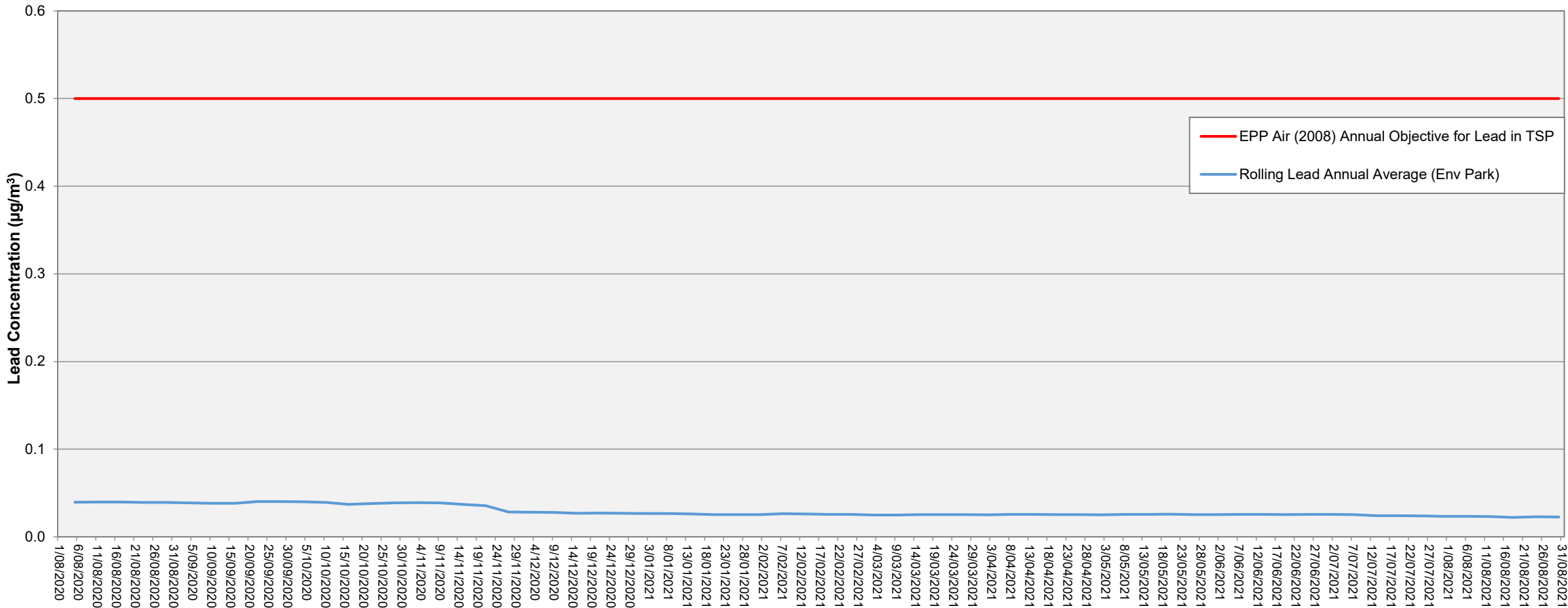


Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^May 2021 invalid result. Nil data for display.

Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site
AUGUST 2020 – AUGUST 2021

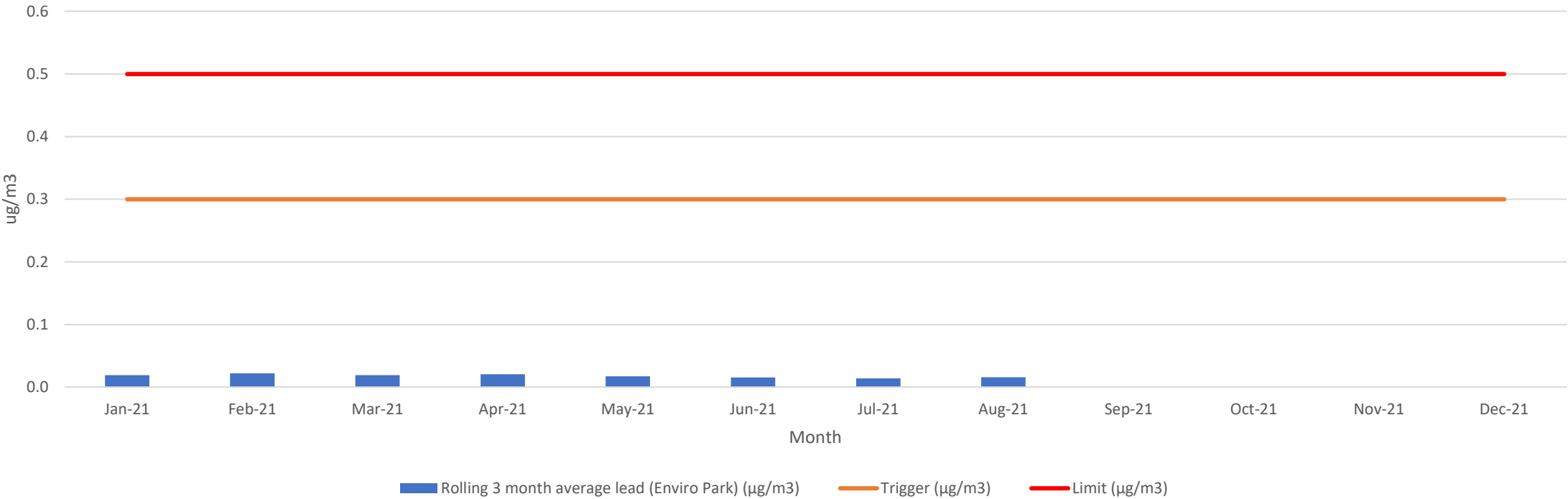


Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
AUGUST 2020 – AUGUST 2021



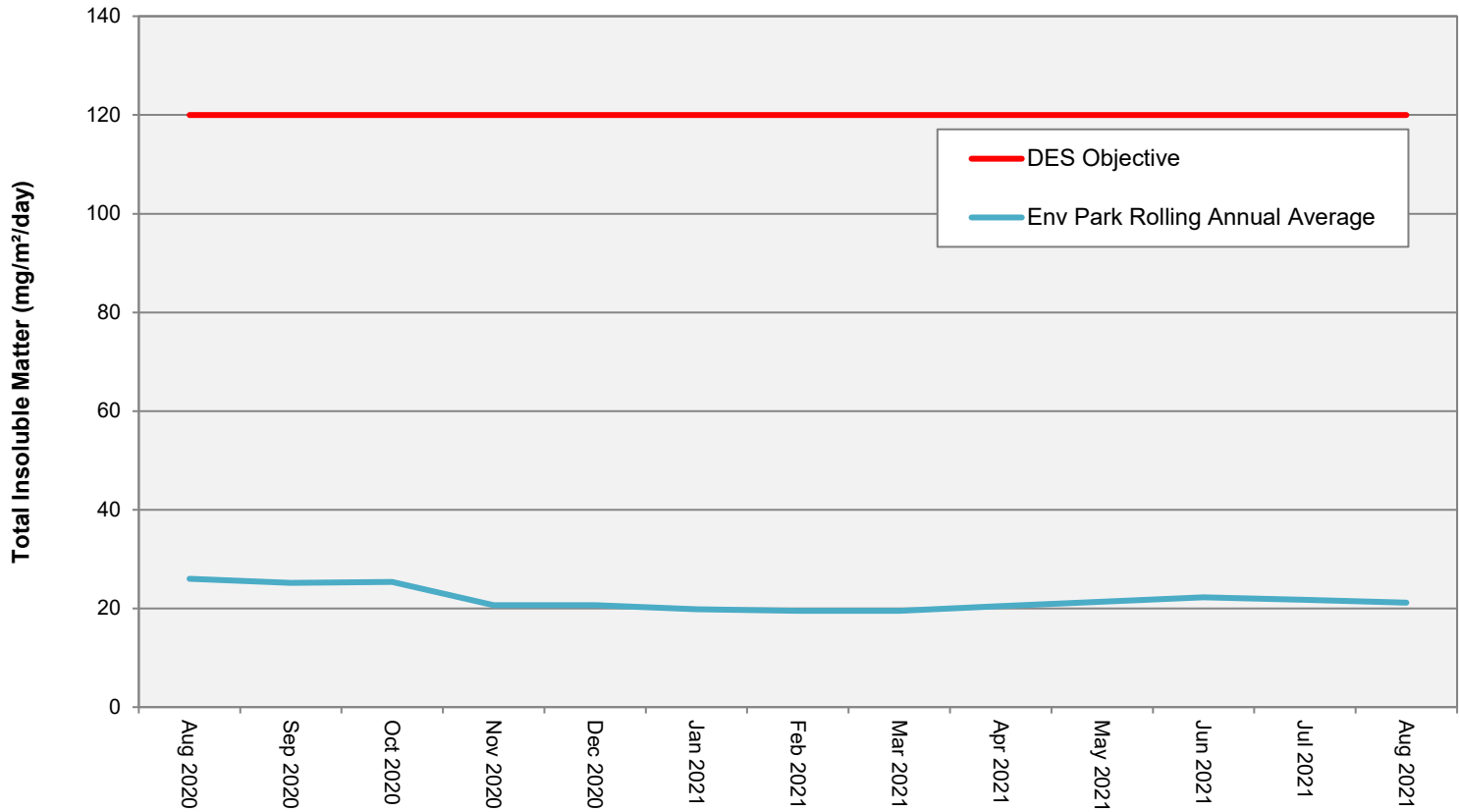
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site
2021



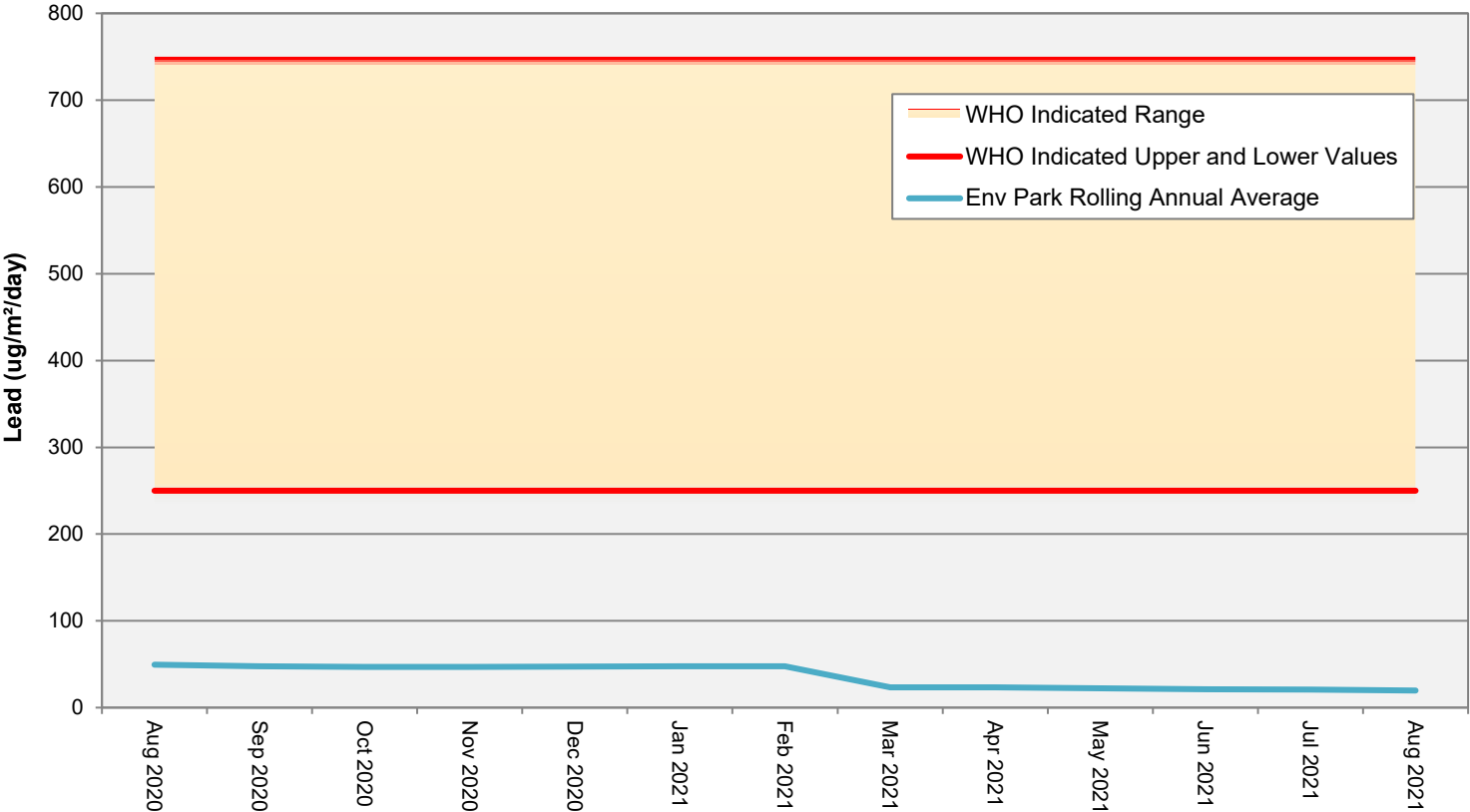
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site
AUGUST 2020 – AUGUST 2021



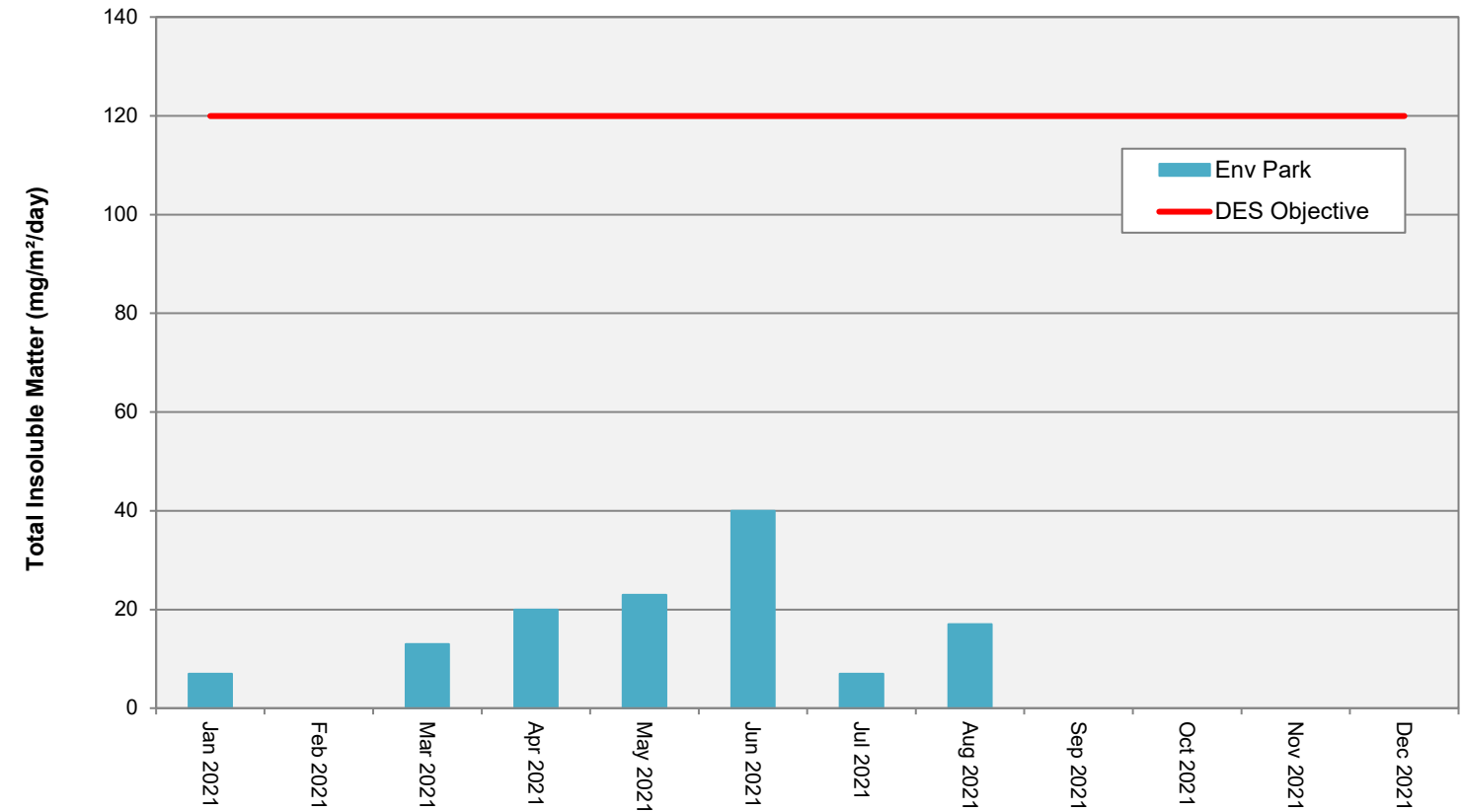
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site
AUGUST 2020 – AUGUST 2021



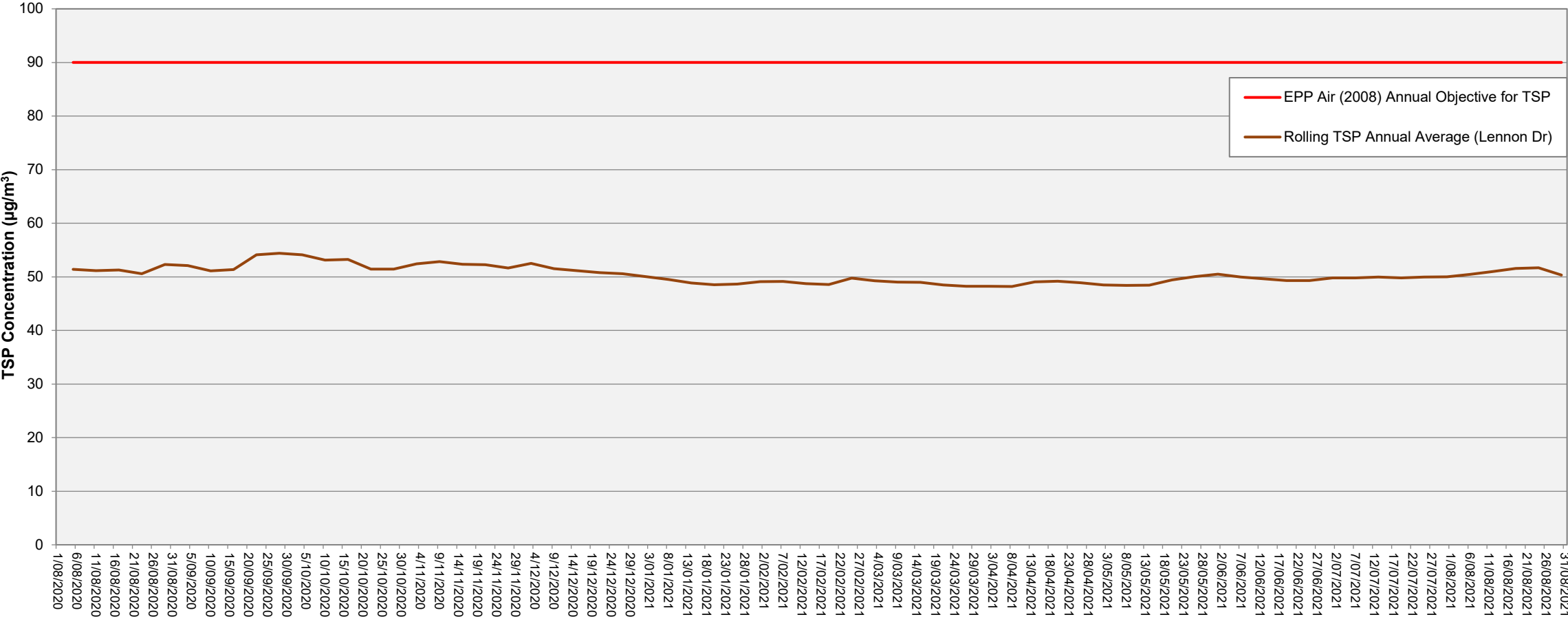
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site
2021



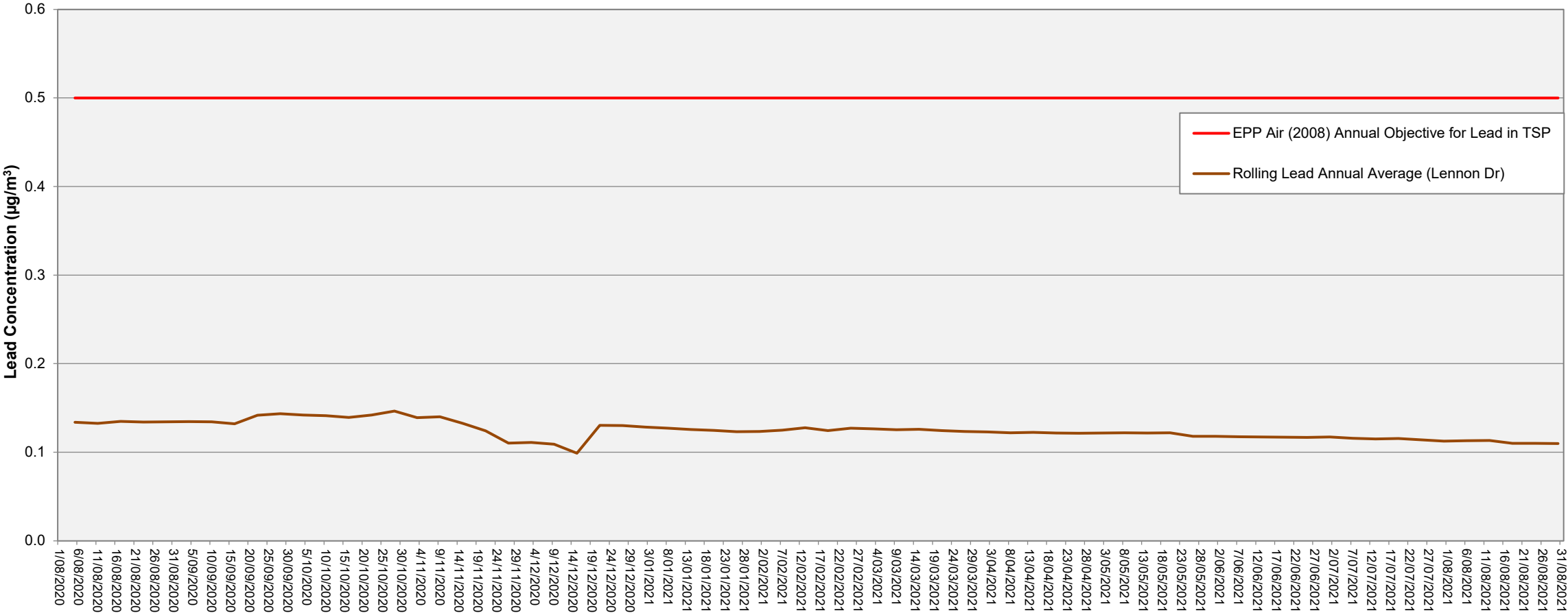
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^February 2021 dust bottle damaged in transit. Nil data for display.

Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site
AUGUST 2020 – AUGUST 2021



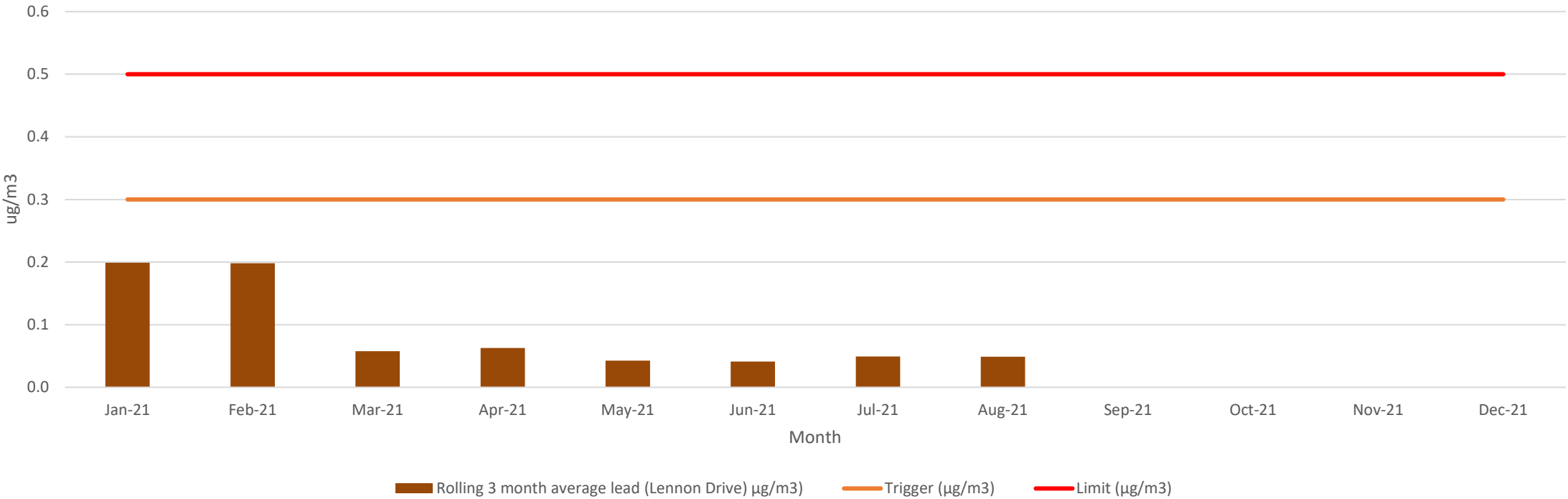
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site
AUGUST 2020 – AUGUST 2021



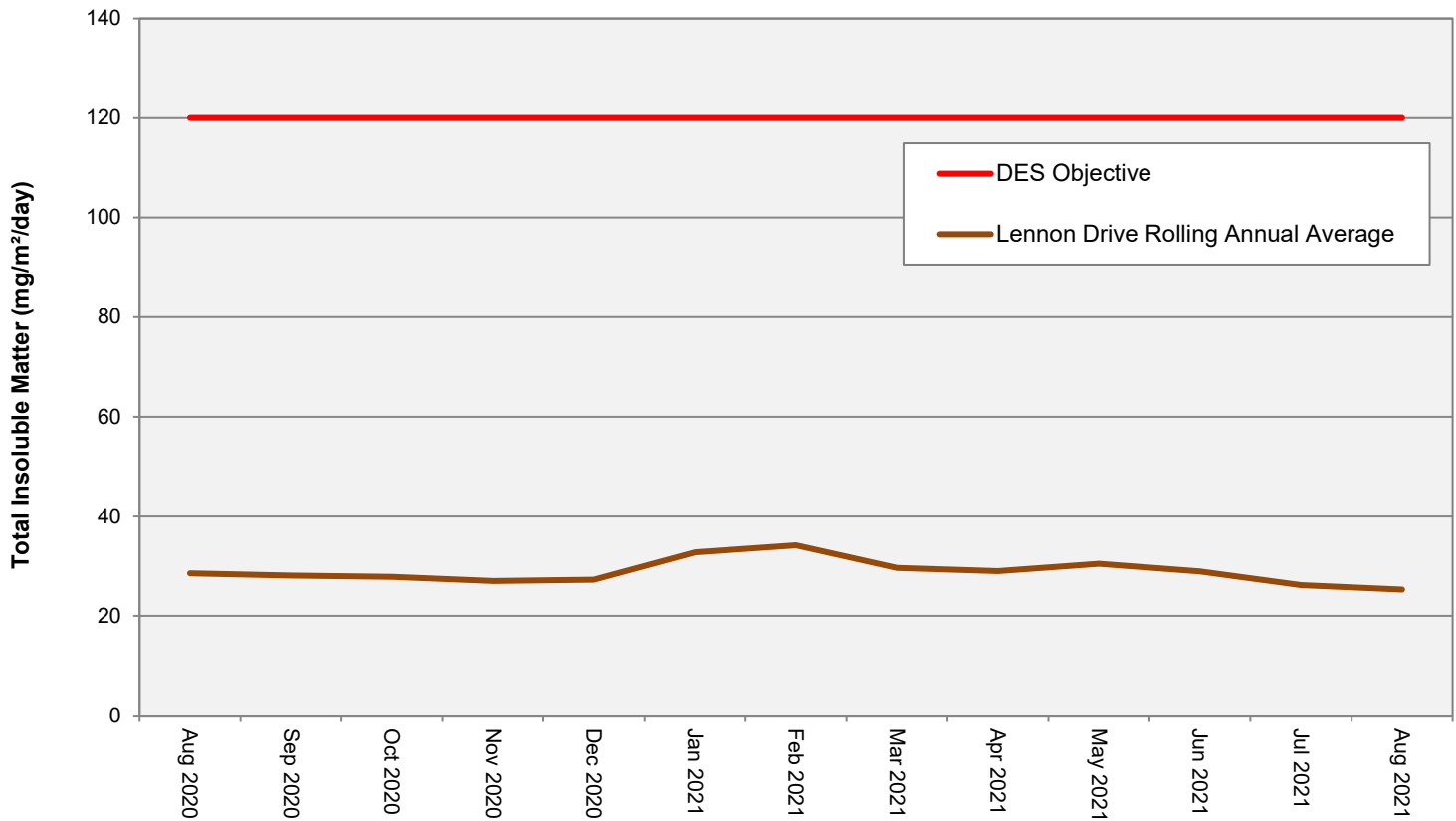
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site 2021



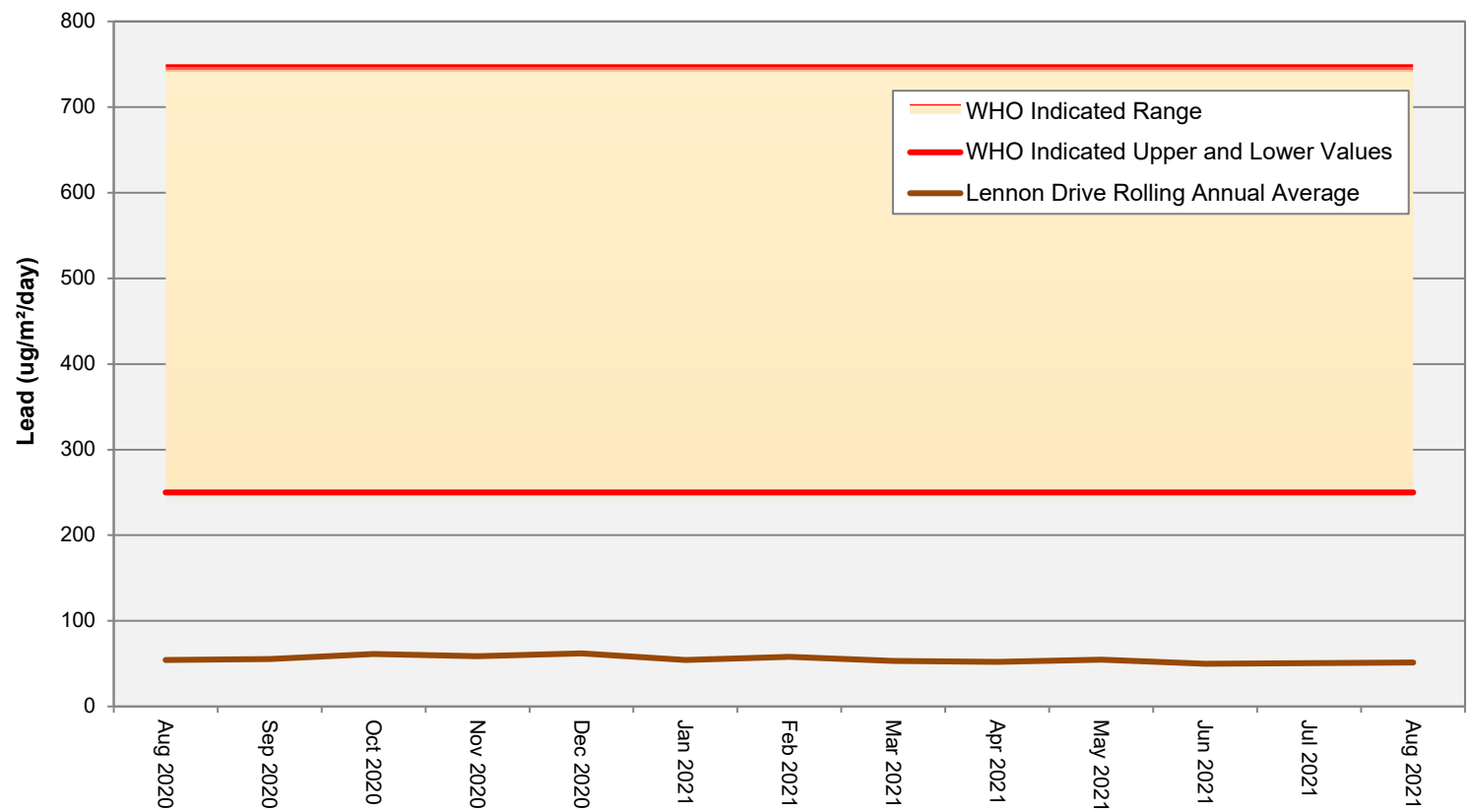
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site
AUGUST 2020 – AUGUST 2021



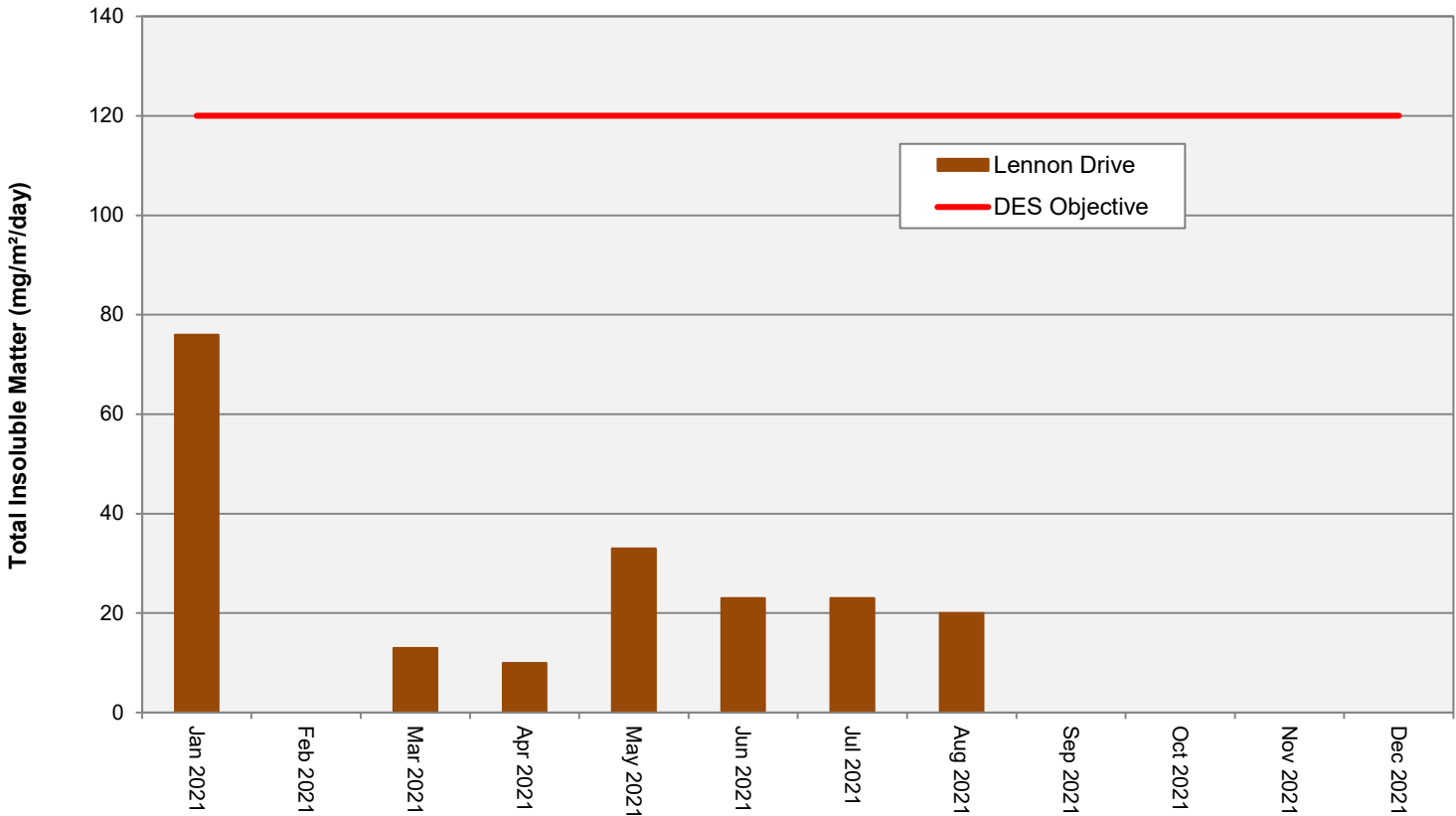
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site
AUGUST 2020 – AUGUST 2021



Note: Lead Concentration units = micrograms per square metre per day
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Dust Deposition Gauge – General dust deposition levels (monthly) at Lennon Drive Site
2021



Note: Total Insoluble Matter Concentration units = milligrams per square metre per day
^February 2021 dust bottle damaged in transit. Nil data for display.

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.