

Air Quality Dashboard | December | 2022

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

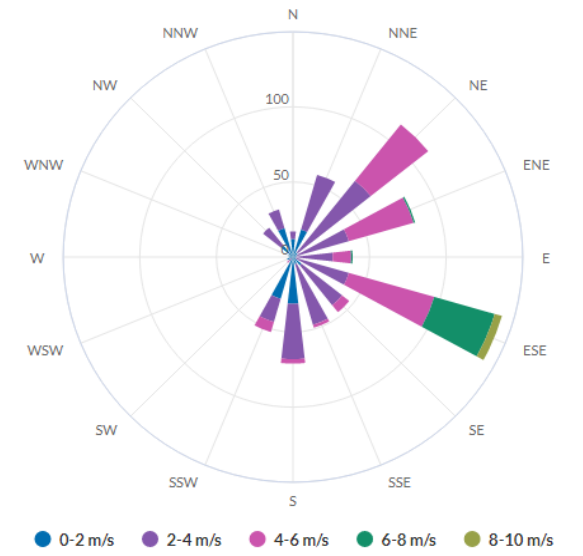
Rainfall Data - BOM

Air Quality Monitoring Plan

Air Quality Monitoring Locations



Wind speed ranges correlating to wind direction



Shipping Movements in December 2022

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

| Date In/Out | Vessel Name | Cargo | Berth |
|---------------------------|--------------------|---|-------|
| 26 Nov 2022 - 01 Dec 2022 | ADMIRALTY SPIRIT | ZINC INGOTS (EXPORT) | 10 |
| 27 Nov 2022 - 01 Dec 2022 | KYTHIRA | FERTILIZER (EXPORT) | 8 |
| 29 Nov 2022 - 01 Dec 2022 | KEN EI | CONCENTRATES (EXPORT) | 3 STH |
| 01 Dec 2022 - 02 Dec 2022 | ECO CITY OF ANGELS | FUELS (IMPORT) | 1 |
| 01 Dec 2022 - 02 Dec 2022 | ADMIRALTY SPIRIT | ZINC INGOTS (EXPORT) | 4 |
| 02 Dec 2022 - 02 Dec 2022 | VIKING ORION | | 10 |
| 02 Dec 2022 - 04 Dec 2022 | EIDSVAAG OMEGA | GENERAL/BREAK BULK (IMPORT) | 10 |
| 03 Dec 2022 - 05 Dec 2022 | GREAT PROFIT | UREA (IMPORT) | 8 |
| 04 Dec 2022 - 05 Dec 2022 | KEN BOS | CONCENTRATES (EXPORT) | 10 |
| 06 Dec 2022 - 10 Dec 2022 | KEN SPIRIT | CONCENTRATES (EXPORT) | 11 |
| 07 Dec 2022 - 08 Dec 2022 | SUVA CHIEF | CONTAINERS (IMPORT) CONTAINERS (EXPORT) | 4 |
| 07 Dec 2022 - 07 Dec 2022 | BELUGA ACE | MOTOR VEHICLES (IMPORT) | 3 NTH |
| 07 Dec 2022 - 09 Dec 2022 | GOLDEN SAGITTARIUS | MOLASSES (EXPORT) | 9 |
| 08 Dec 2022 - 10 Dec 2022 | HARRISBURG | FUELS (IMPORT) | 1 |
| 08 Dec 2022 - 10 Dec 2022 | ADF | ARMY EQUIPMENT (IMPORT) | 10 |
| 09 Dec 2022 - 10 Dec 2022 | WOODGATE | CONCENTRATES (EXPORT) | 8 |
| 09 Dec 2022 - 11 Dec 2022 | CL CENTURY | ZINC CONCENTRATES (EXPORT) | 3 STH |
| 10 Dec 2022 - 11 Dec 2022 | FOREVER PROSPERITY | FUELS (IMPORT) | 1 |
| 11 Dec 2022 - 12 Dec 2022 | CL CENTURY | ZINC CONCENTRATES (EXPORT) | 8 |
| 11 Dec 2022 - 12 Dec 2022 | GOLDEN ASPIRANT | FUELS (IMPORT) | 1 |
| 11 Dec 2022 - 13 Dec 2022 | KONDILI | CEMENT (IMPORT) | 4 |
| 12 Dec 2022 - 15 Dec 2022 | LYDDEN | MOTOR VEHICLES (IMPORT) | 10 |
| 13 Dec 2022 - 14 Dec 2022 | HANSA FREYBURG | CONTAINERS (IMPORT) | 3 STH |
| 14 Dec 2022 - 14 Dec 2022 | ATLAS LEADER | MOTOR VEHICLES (IMPORT) | 4 |
| 14 Dec 2022 - 15 Dec 2022 | LINDANGER | FUELS (IMPORT) | 1 |
| 15 Dec 2022 - 17 Dec 2022 | FLORA DELMAS | CONTAINERS (IMPORT) CONTAINERS (EXPORT) | 3 STH |
| 16 Dec 2022 - 17 Dec 2022 | ADRIATIC HIGHWAY | MOTOR VEHICLES (IMPORT) | 4 |
| 16 Dec 2022 - 18 Dec 2022 | THERESA GRACE | SUGAR (EXPORT) | 9 |
| 17 Dec 2022 - 18 Dec 2022 | CAPITAINE BARET | CONTAINERS (IMPORT) CONTAINERS (EXPORT) | 3 STH |
| 17 Dec 2022 - 18 Dec 2022 | OCEAN UTE | CATTLE (EXPORT) | 4 |

| Date In/Out | Vessel Name | Cargo | Berth |
|---------------------------|--------------------|---|-------|
| 17 Dec 2022 - 17 Dec 2022 | REGATTA | | 10 |
| 18 Dec 2022 - 19 Dec 2022 | CL CENTURY | ZINC CONCENTRATES (EXPORT) | 8 |
| 18 Dec 2022 - 19 Dec 2022 | CONTSHIP YEN | CONTAINERS (IMPORT) CONTAINERS (EXPORT) | 3 STH |
| 18 Dec 2022 - 19 Dec 2022 | PS ATENE | FUELS (IMPORT) | 1 |
| 19 Dec 2022 - 19 Dec 2022 | DAREEN | FODDER (EXPORT) | 4 |
| 20 Dec 2022 - 22 Dec 2022 | ALAMO | FERTILIZER (EXPORT) | 8 |
| 20 Dec 2022 - 23 Dec 2022 | EASTGATE | FERTILIZER (IMPORT) | 9 |
| 20 Dec 2022 - 21 Dec 2022 | FOREVER CORDIALITY | FUELS (IMPORT) | 1 |
| 21 Dec 2022 - 23 Dec 2022 | JOO HYE | CONCENTRATES (EXPORT) | 3 STH |
| 21 Dec 2022 - 21 Dec 2022 | VIKING MARS | | 10 |
| 21 Dec 2022 - 23 Dec 2022 | KONDILI | CEMENT (IMPORT) | 4 |
| 23 Dec 2022 - 24 Dec 2022 | JOO HYE | CONCENTRATES (EXPORT) | 8 |
| 23 Dec 2022 - 24 Dec 2022 | EASTGATE | FERTILIZER (IMPORT) | 3 STH |
| 24 Dec 2022 - 26 Dec 2022 | NADI CHIEF | CONTAINERS (IMPORT) CONTAINERS (EXPORT) | 4 |
| 26 Dec 2022 - 28 Dec 2022 | EASTGATE | FERTILIZER (IMPORT) | 11 |
| 27 Dec 2022 - 27 Dec 2022 | CAPRICORNUS LEADER | MOTOR VEHICLES (IMPORT) | 4 |
| 27 Dec 2022 - 29 Dec 2022 | BW COUGAR | FUELS (IMPORT) | 1 |
| 28 Dec 2022 - 30 Dec 2022 | AFRICAN TOUCAN | LEAD INGOTS (EXPORT) | 3 STH |



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 2020-21, the Port of Townsville delivered strong financial results and continued to roll-out major infrastructure investments despite the impacts of the ongoing global pandemic, COVID-19. In a year where supply chains across the world have been tested, a total of 7.7 million tonnes of freight passed over our wharves, which was a 6.3 per cent decrease on last year. With a focus on cost management, the Port also reported a \$14.33 million net profit for 2020/21, 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 (down 8.14%), fertiliser (up 9.7%) and livestock (down 6%). Townsville is the number one port in Australia for copper, zinc, lead and sugar exports and services 75% 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

Subscribe to Dashboard Updates

Visit our website and subscribe here www.townsville-port.com.au/community/

OR

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

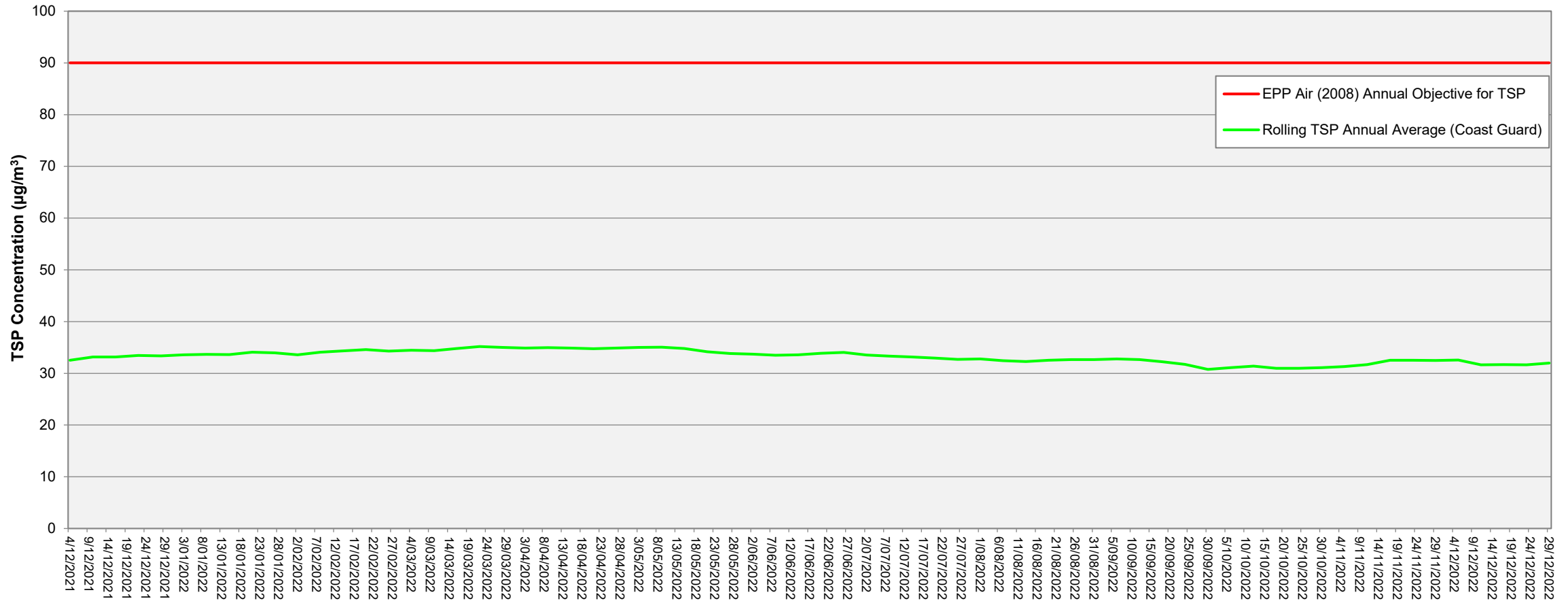
OR

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

Ask a Question / Provide Feedback

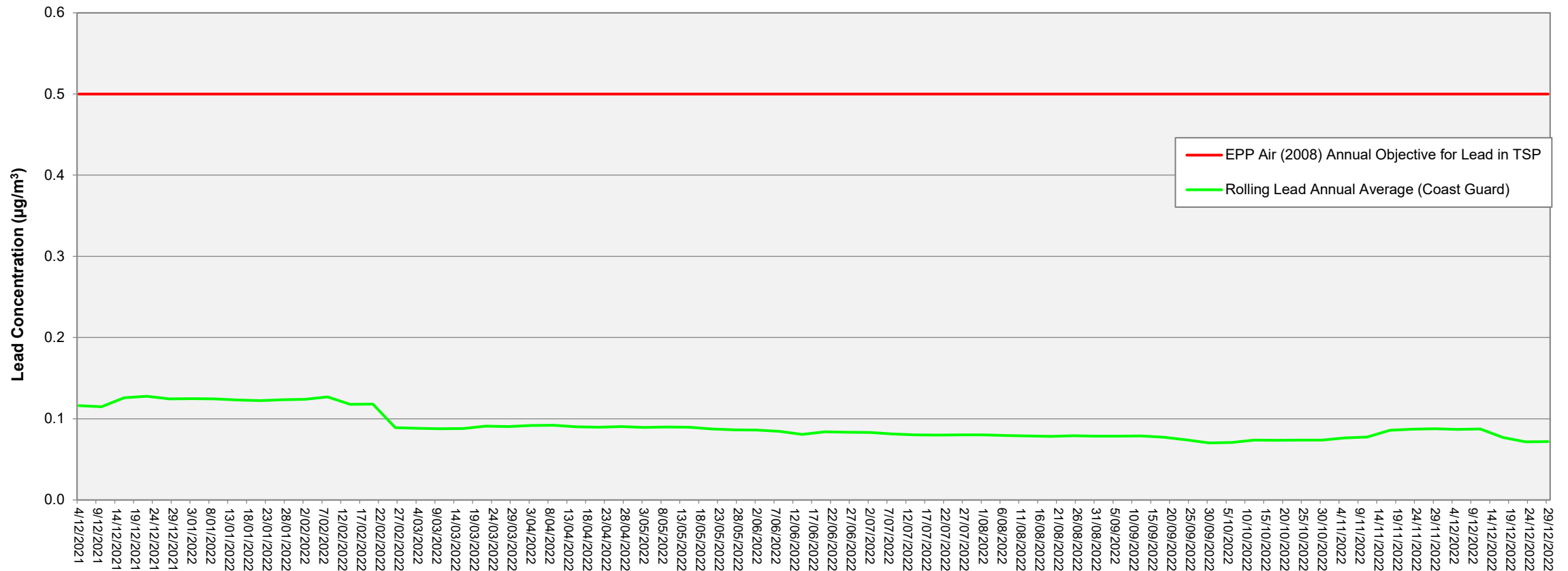
Send your enquiry or feedback to community@townsvilleport.com.au

Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site December 2021 – December 2022



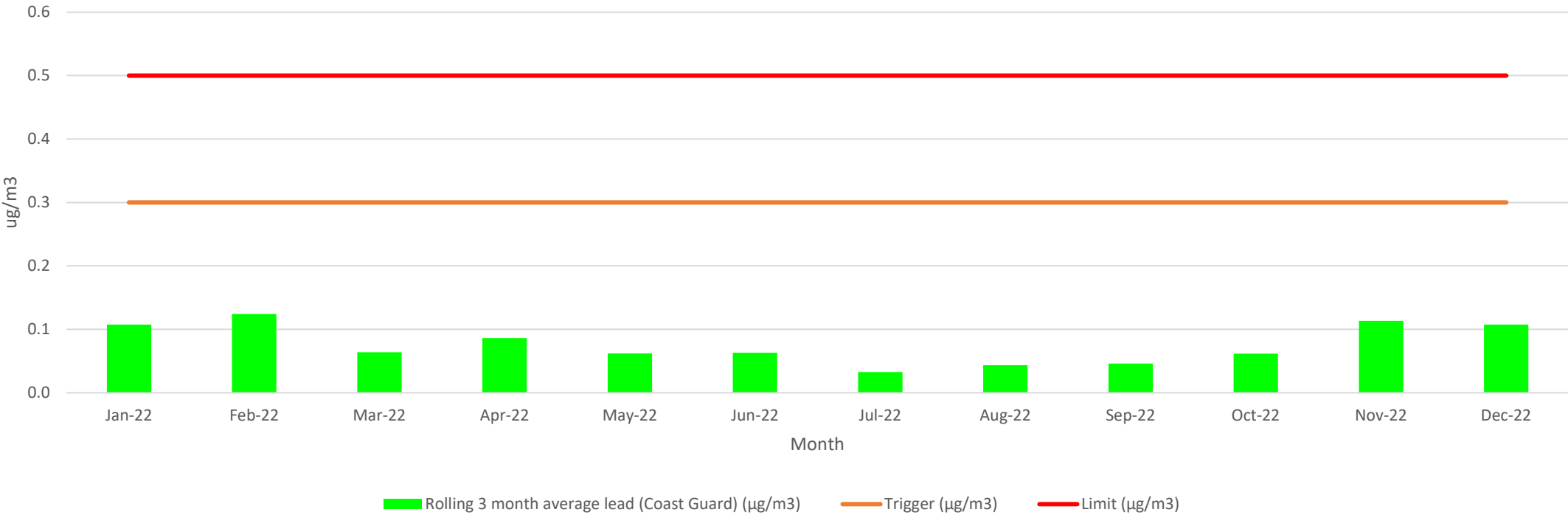
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site December 2021 – December 2022



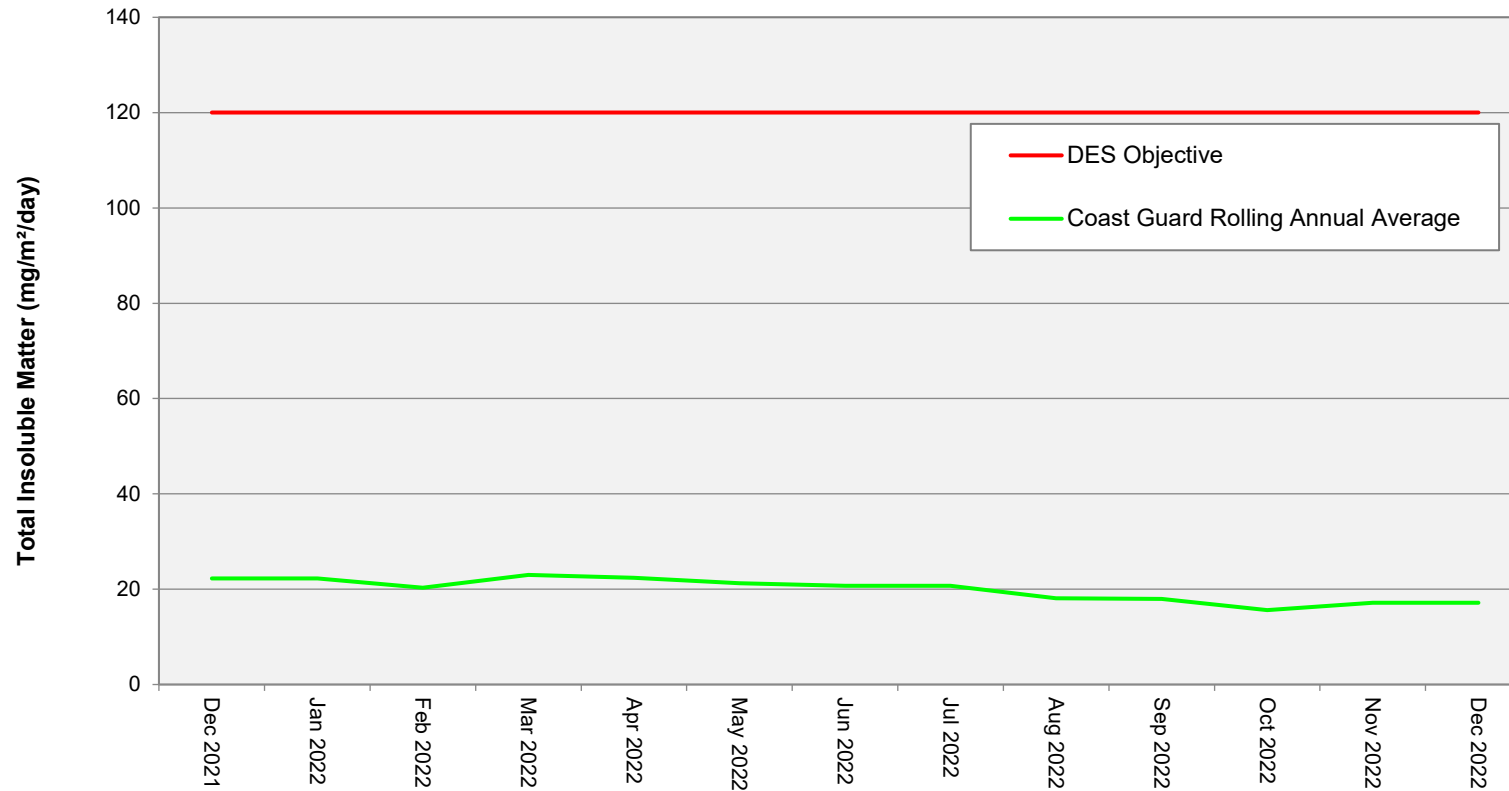
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site 2022



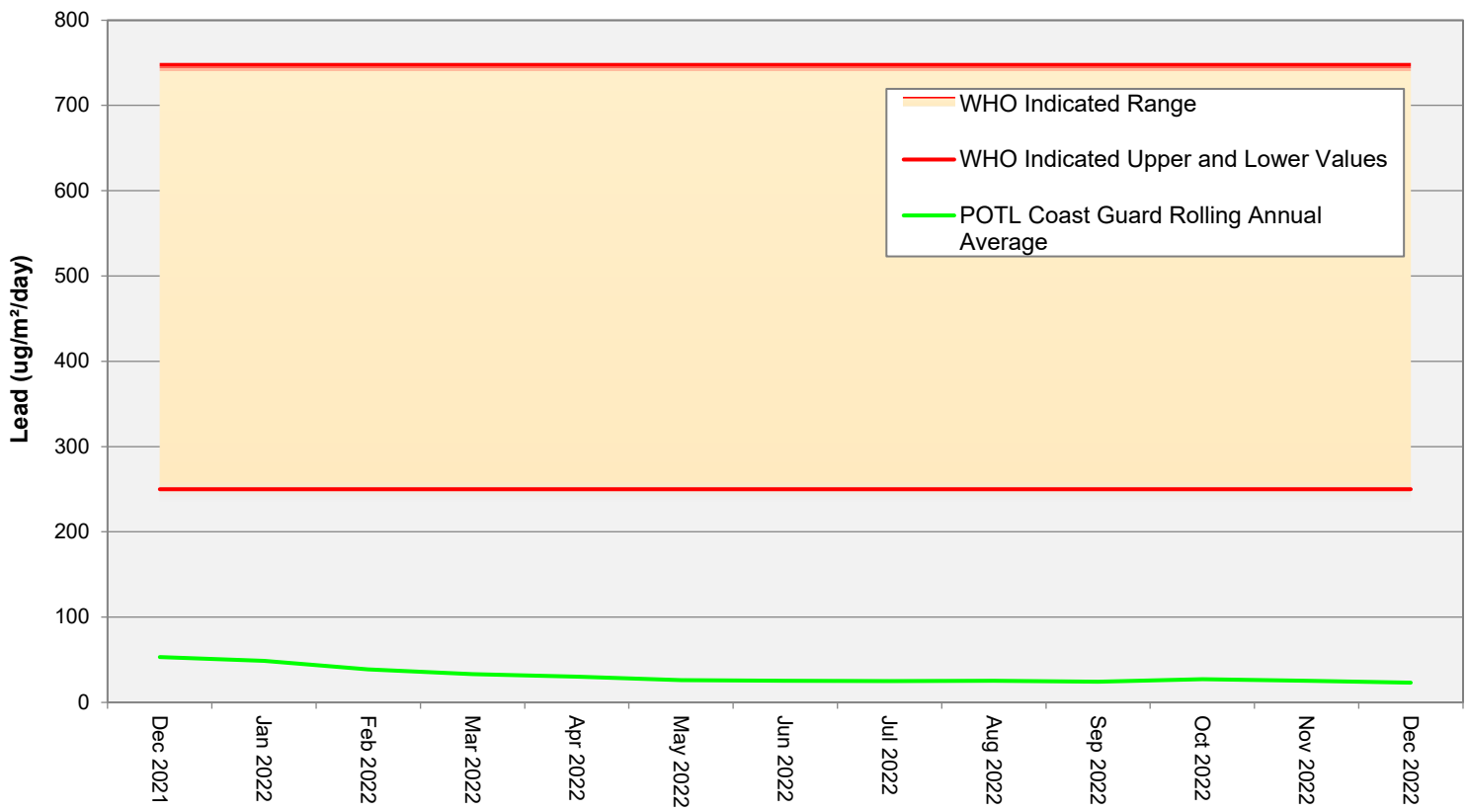
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site December 2021 – December 2022



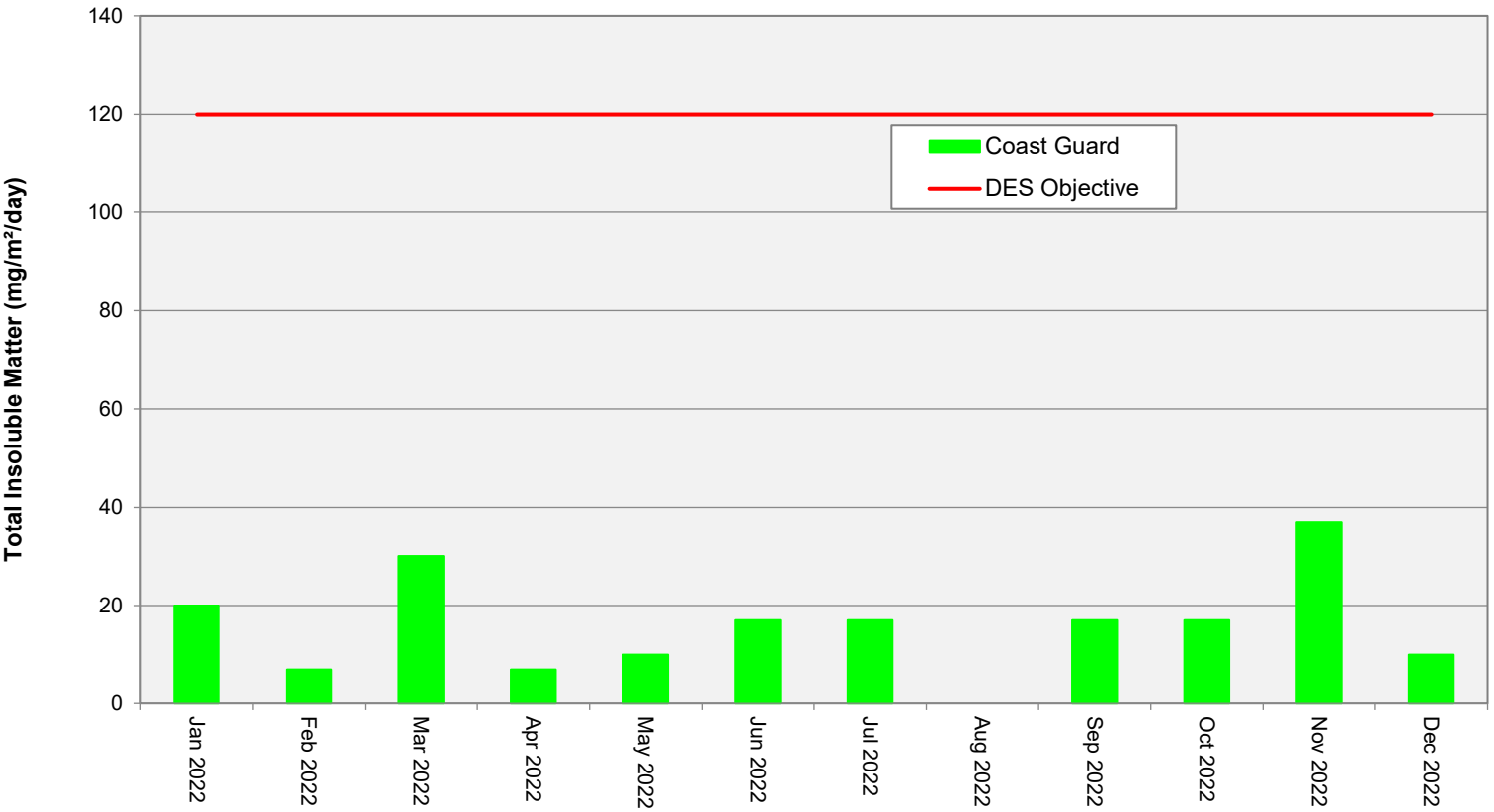
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Coast Guard Site DECEMBER 2021– DECEMBER 2022



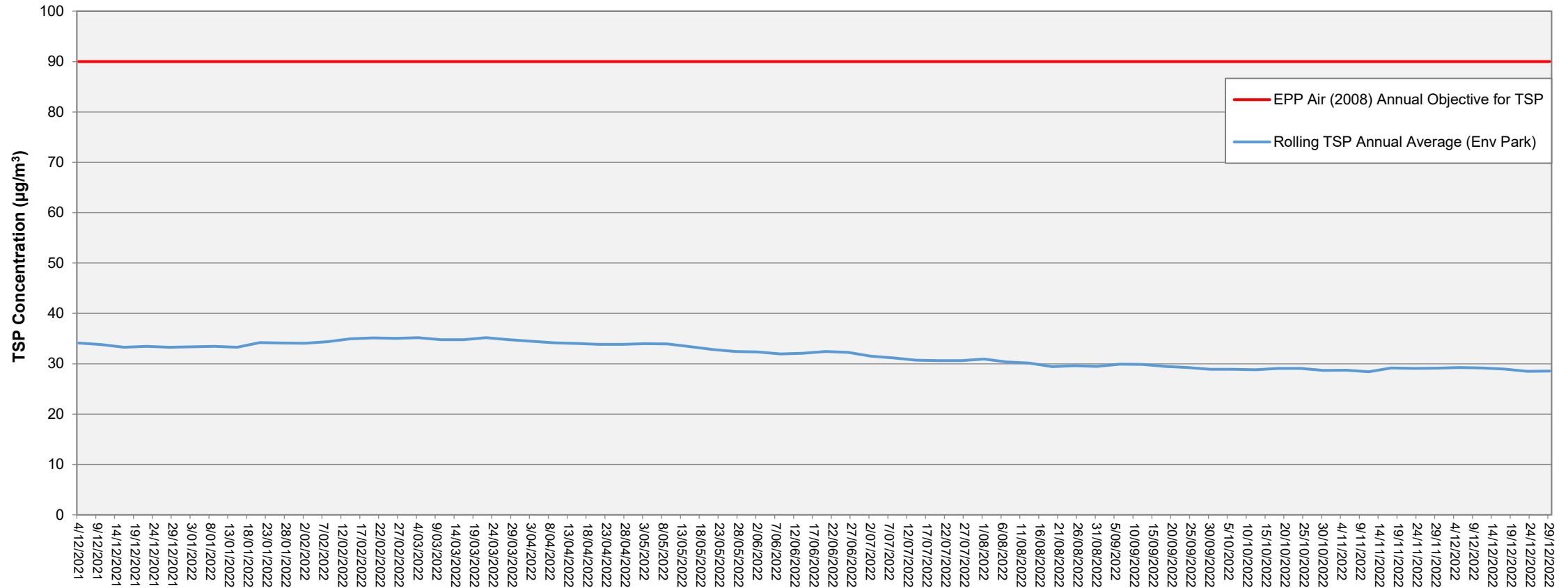
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result.

Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site 2022



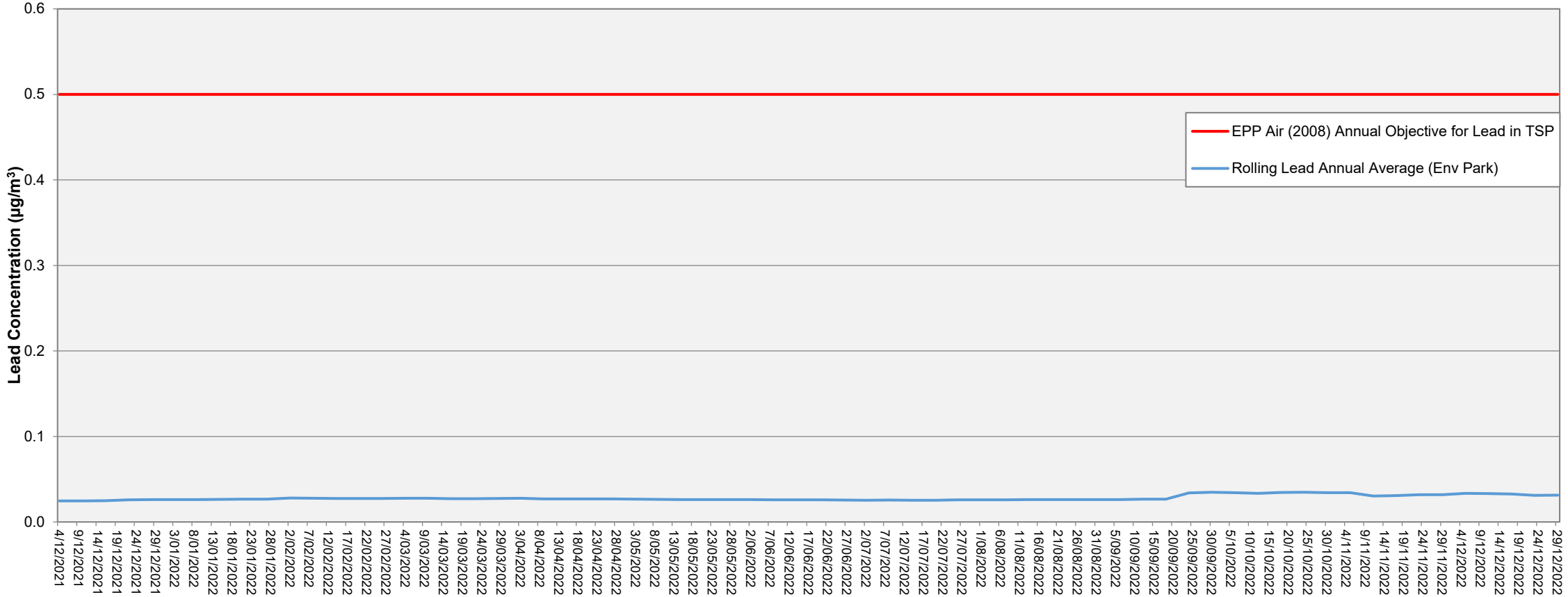
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day.
No result for August 2022 due to Laboratory error.

Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site December 2021 – December 2022



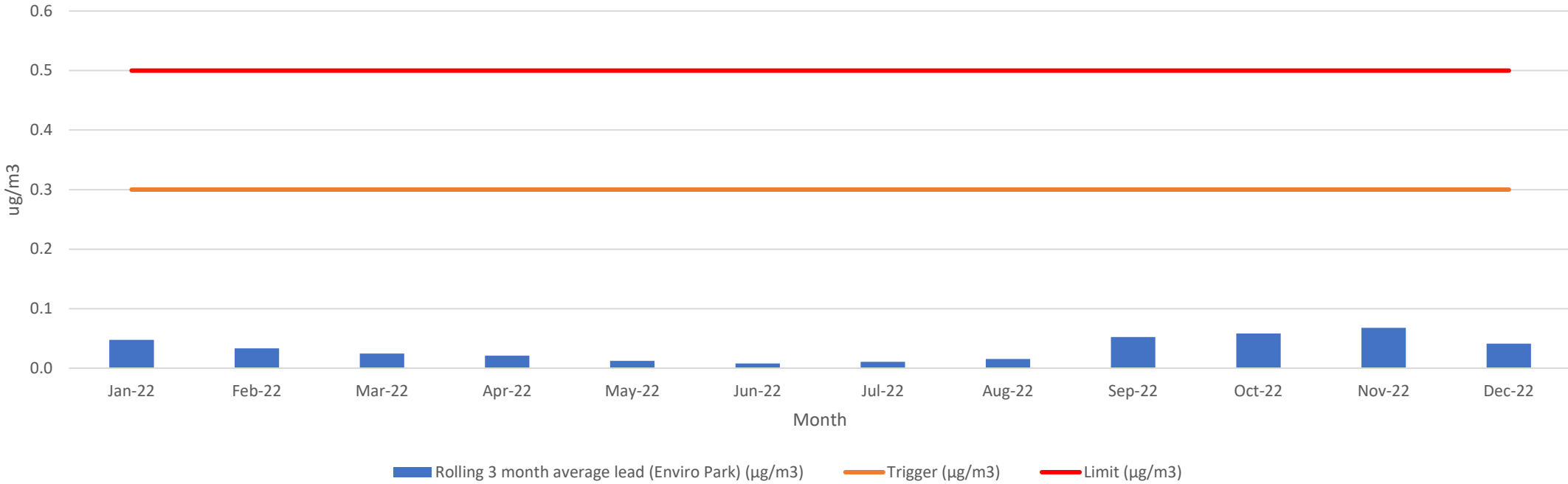
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site December 2021 – December 2022



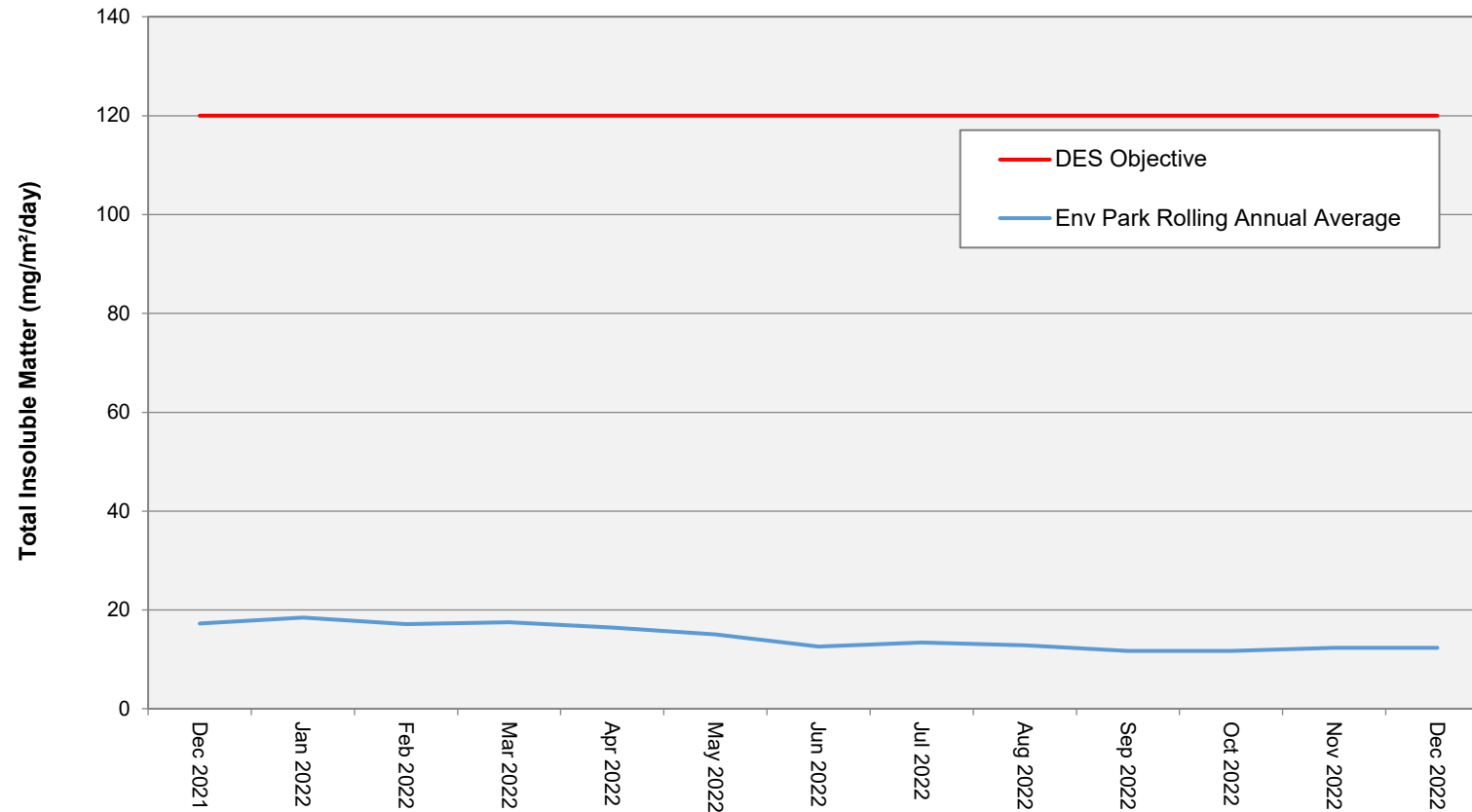
Note: Lead Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Environment Park site 2022



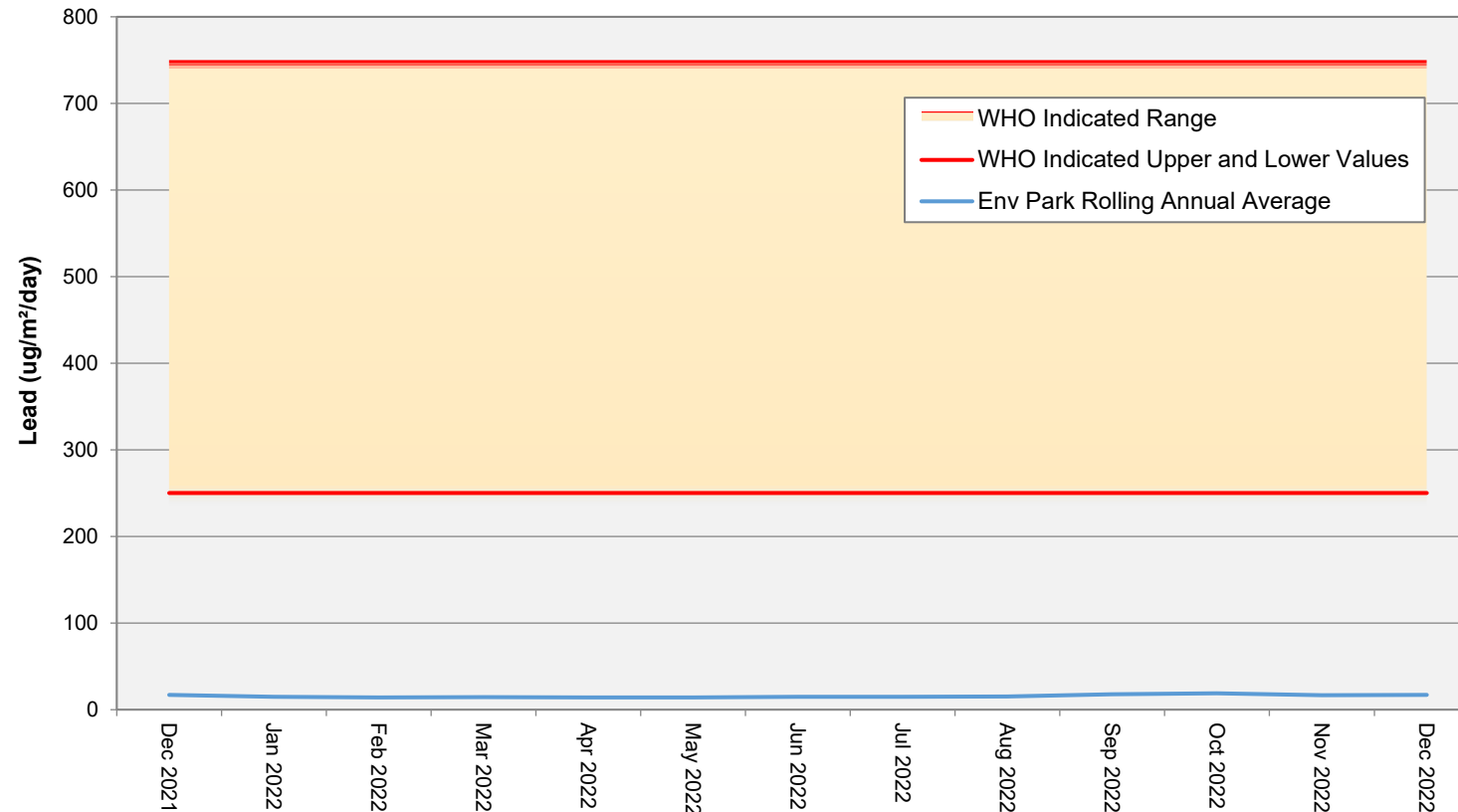
Note: Rolling 3 month average = the moving average of the previous 2 months and the current month result

Dust Deposition Gauge - General dust deposition levels (monthly) at Environment Park site December 2021 – December 2022



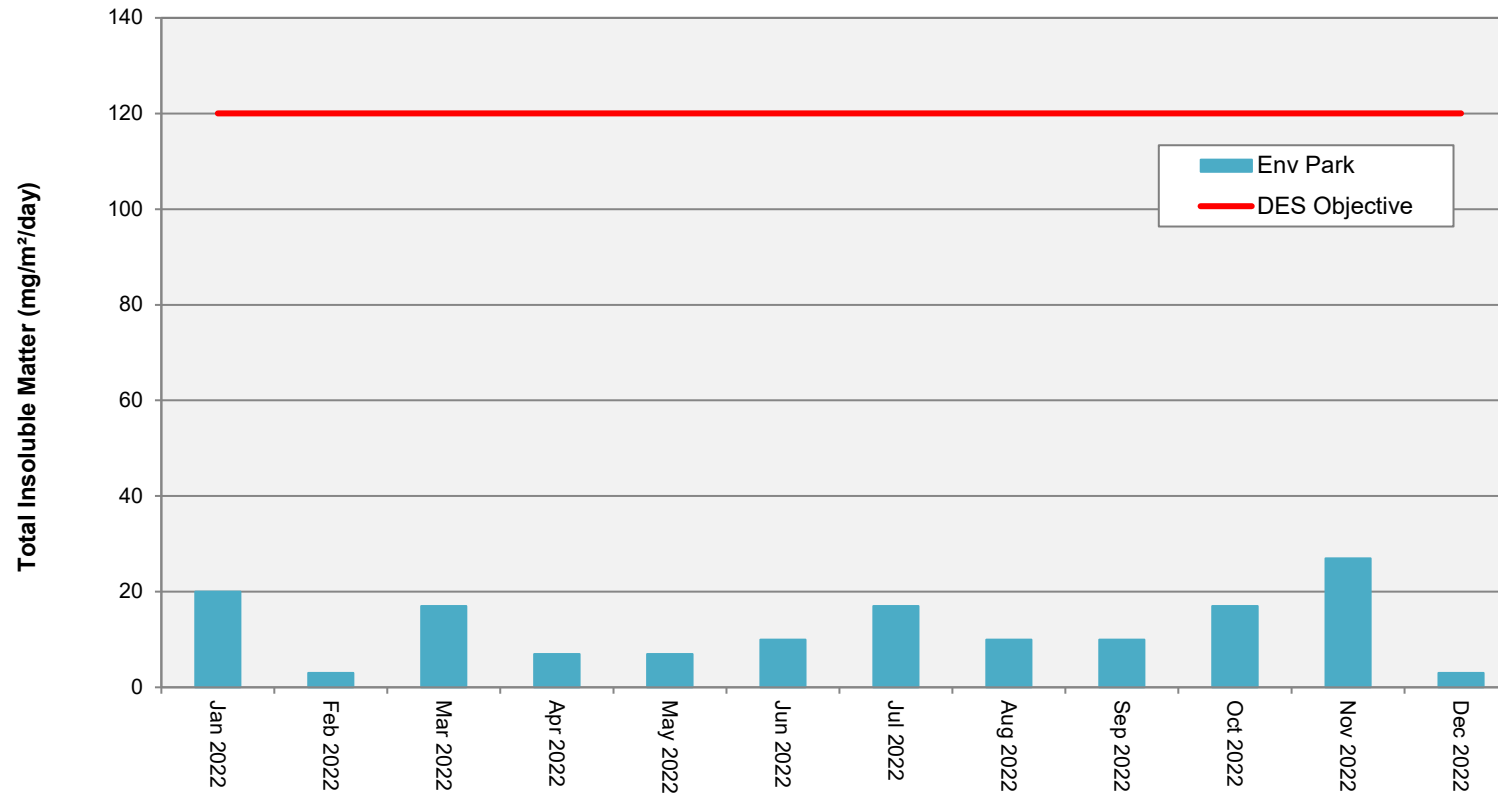
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Environment Park site DECEMBER 2021 – DECEMBER 2022



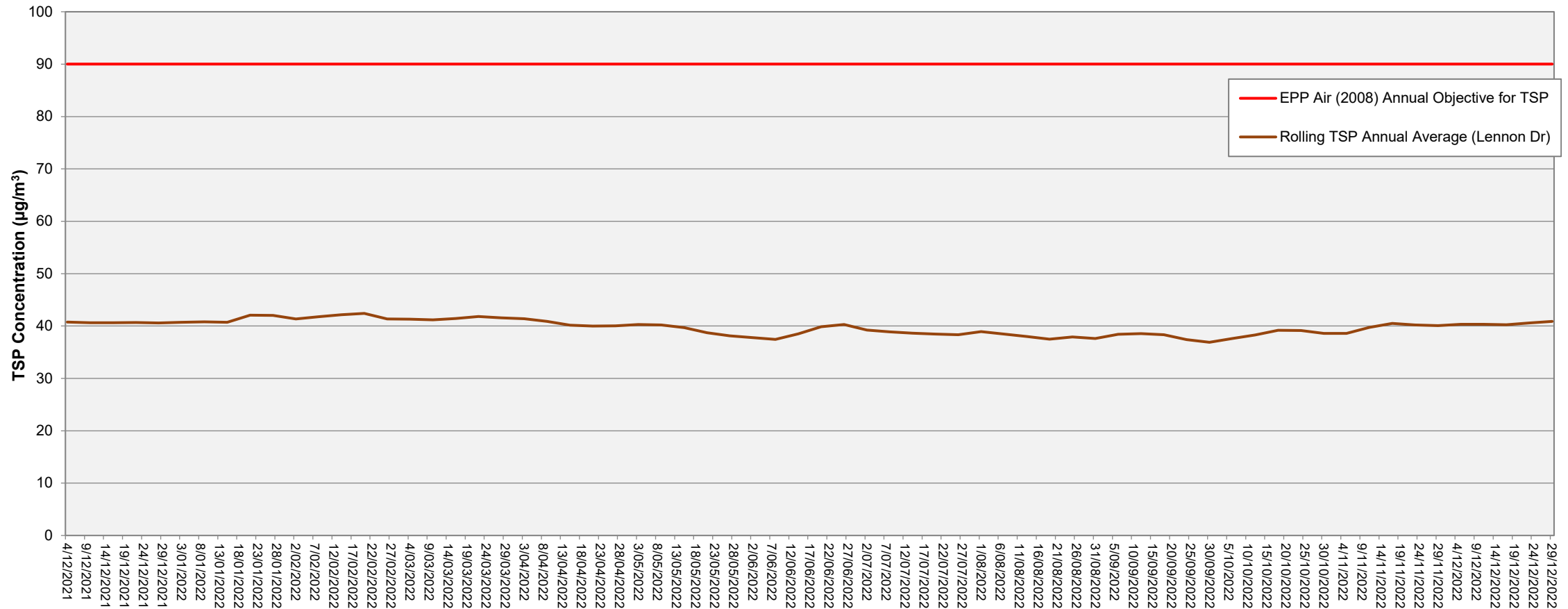
Note: Lead Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site 2022



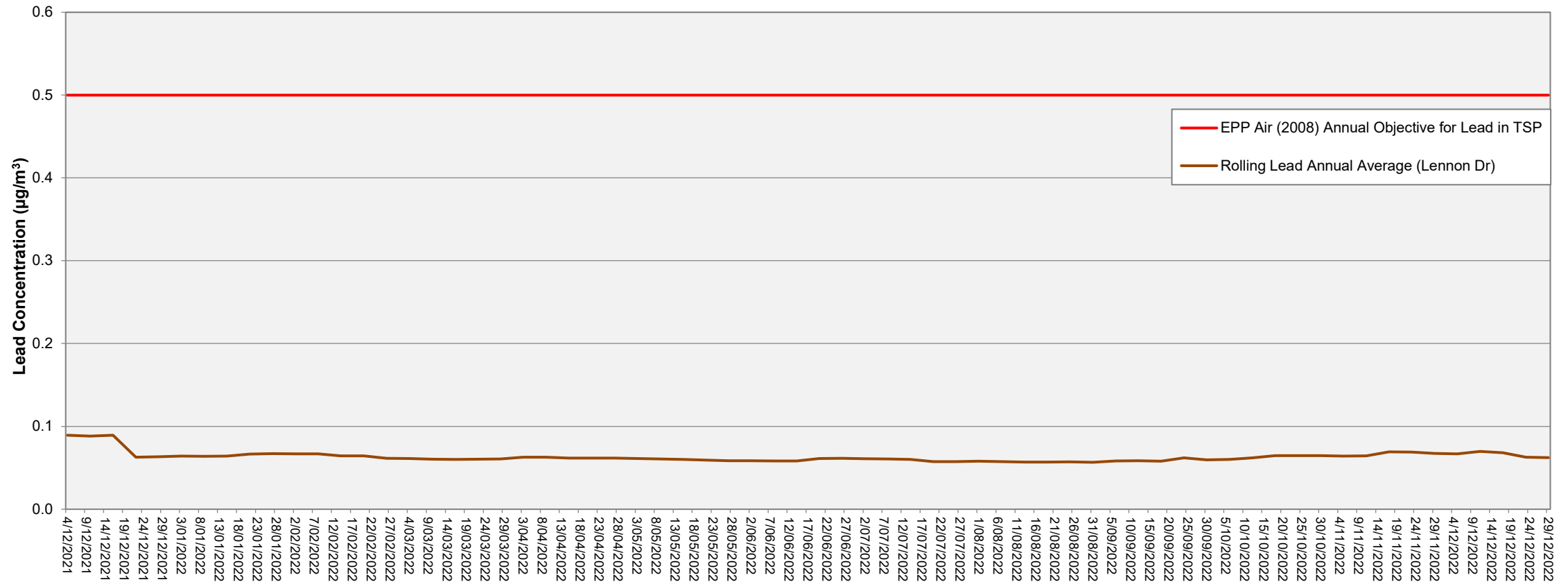
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site December 2021 – December 2022



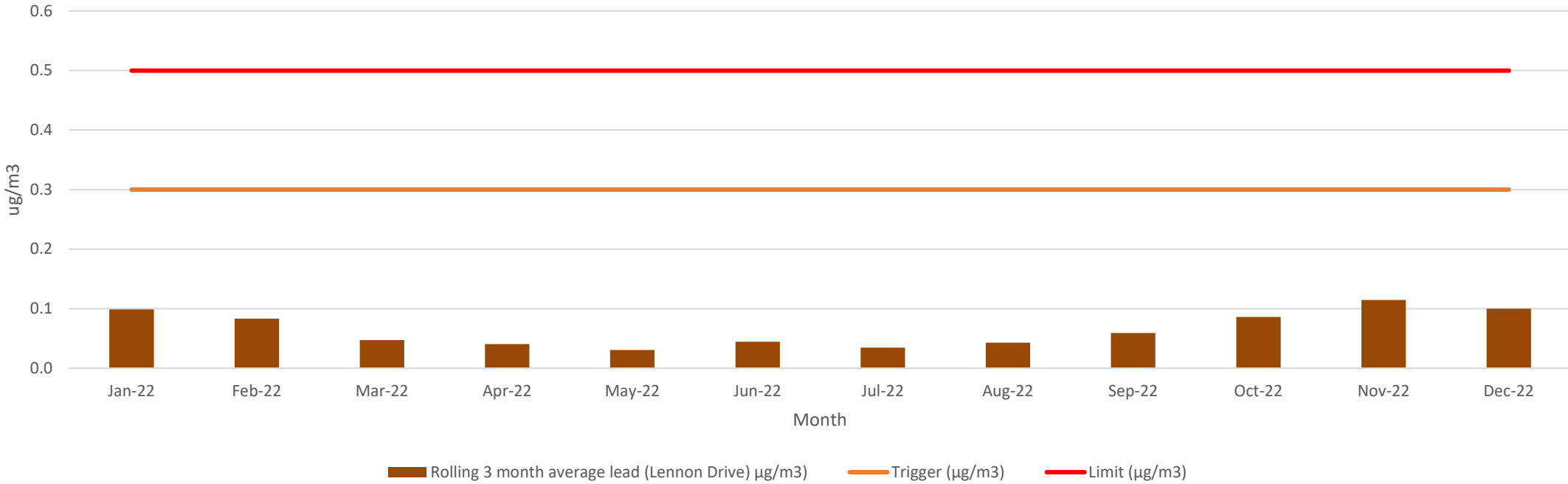
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period
Rolling annual average = the moving average of the previous 11 results and the current result

Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site December 2021 – December 2022



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

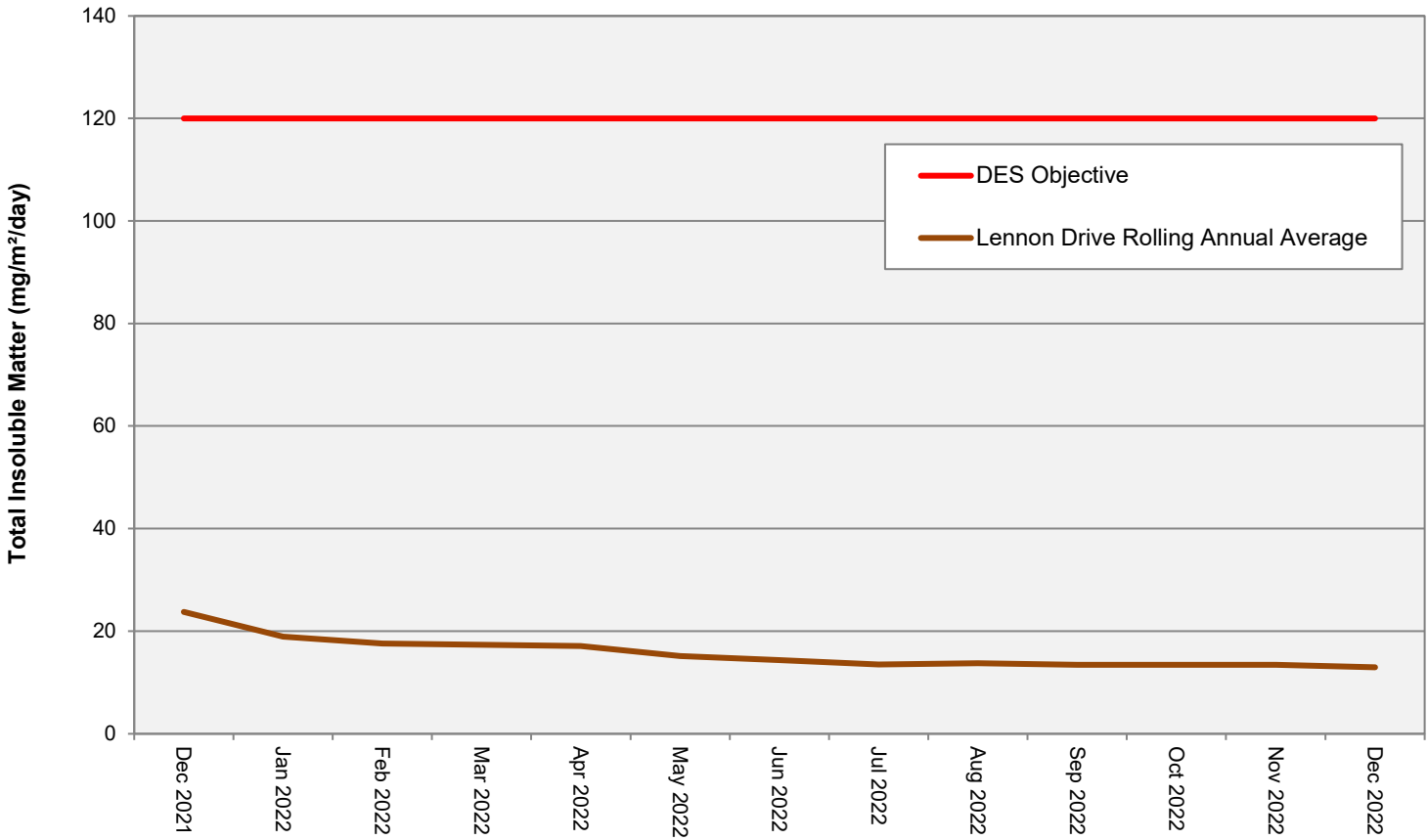
Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site 2022



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

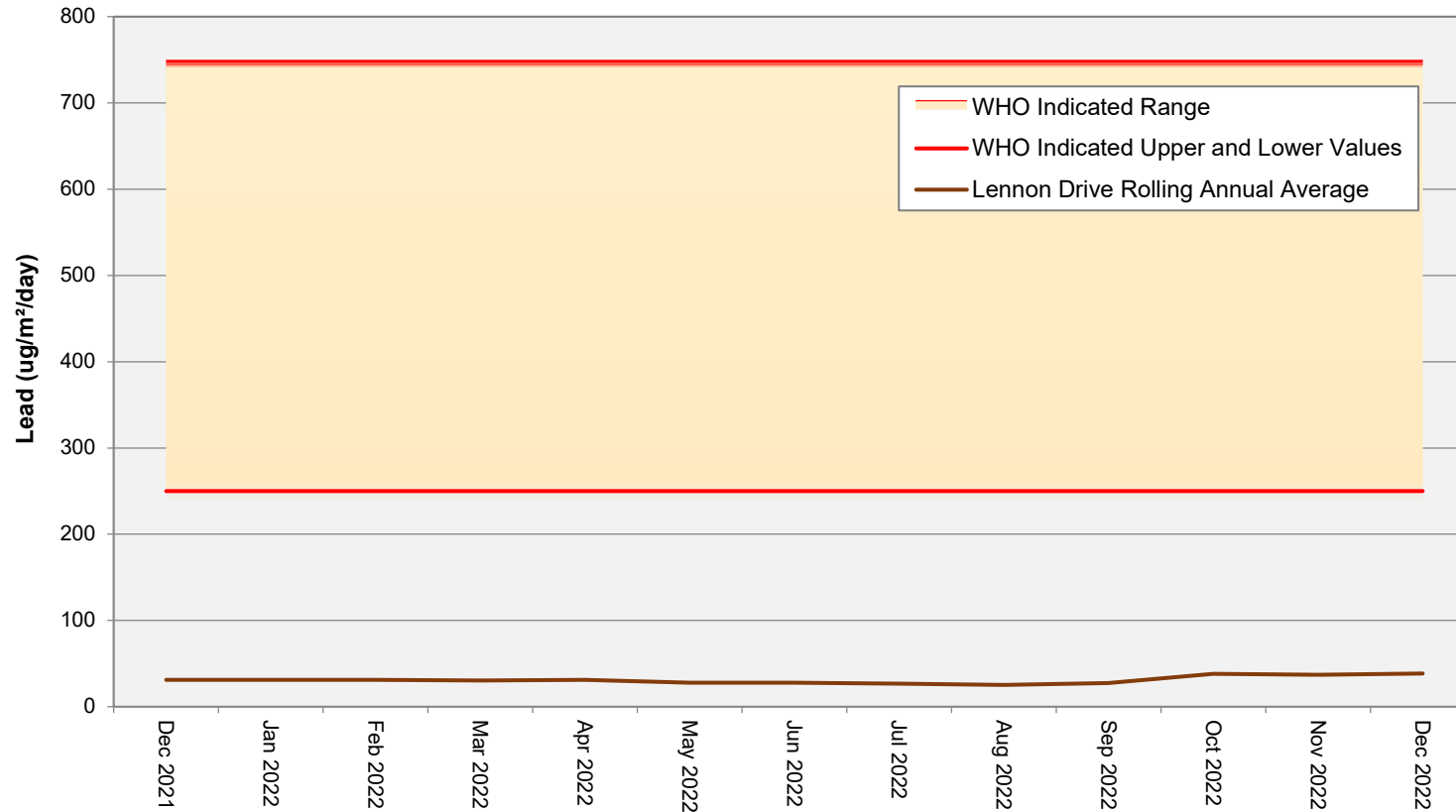
[Click here](#) for information on how to interpret this data

Dust Deposition Gauge - General dust deposition levels (monthly) at Lennon Drive Site December 2021 – December 2022



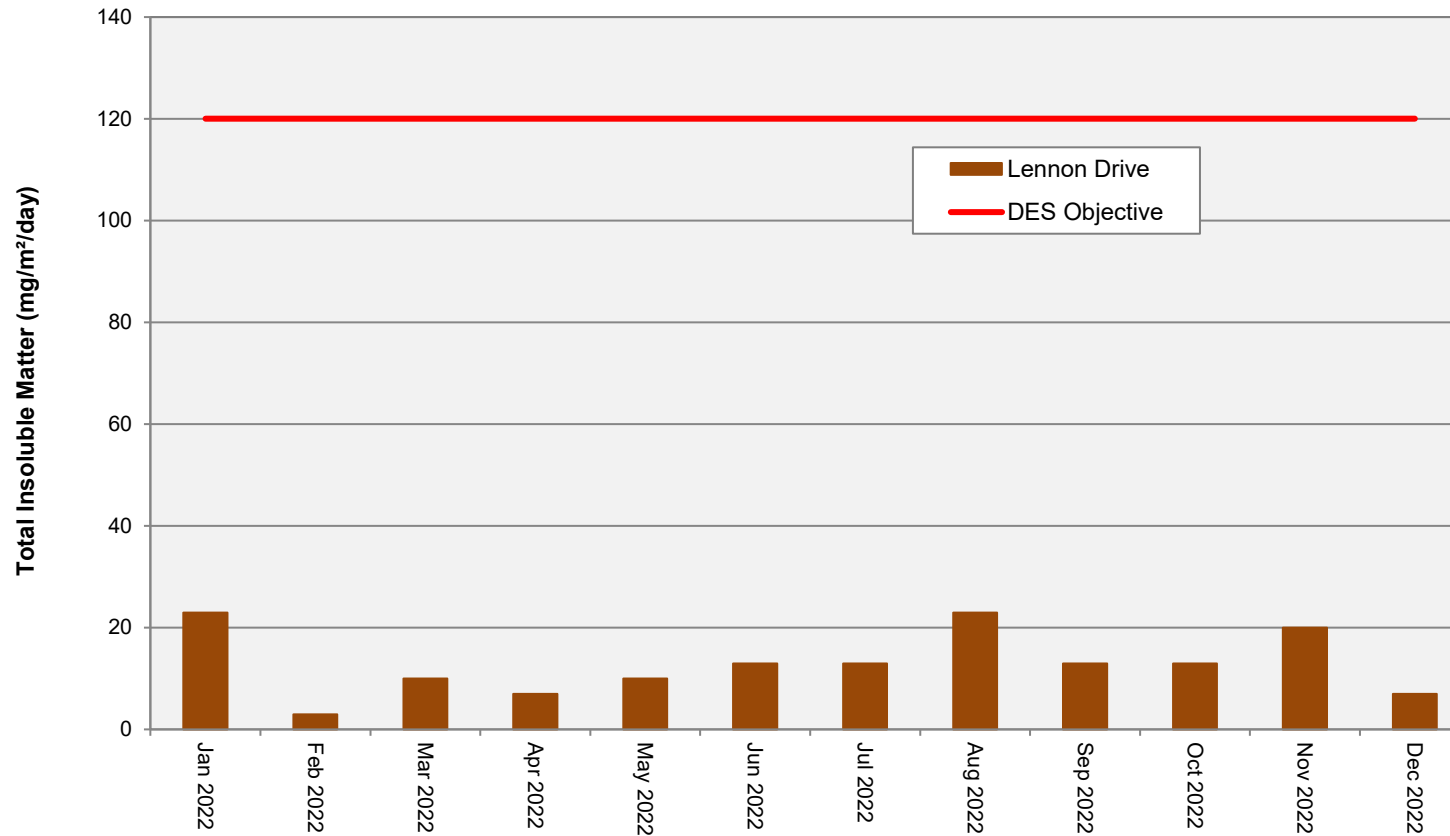
Note: Total Insoluble Matter Concentration units = micrograms per square metre per day
Rolling annual average = the moving average of the previous 11 results and the current result

Dust Deposition Gauge – Lead in dust deposition levels (monthly) at Lennon Drive Site DECEMBER 2021– DECEMBER 2022



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 2022



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 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.