

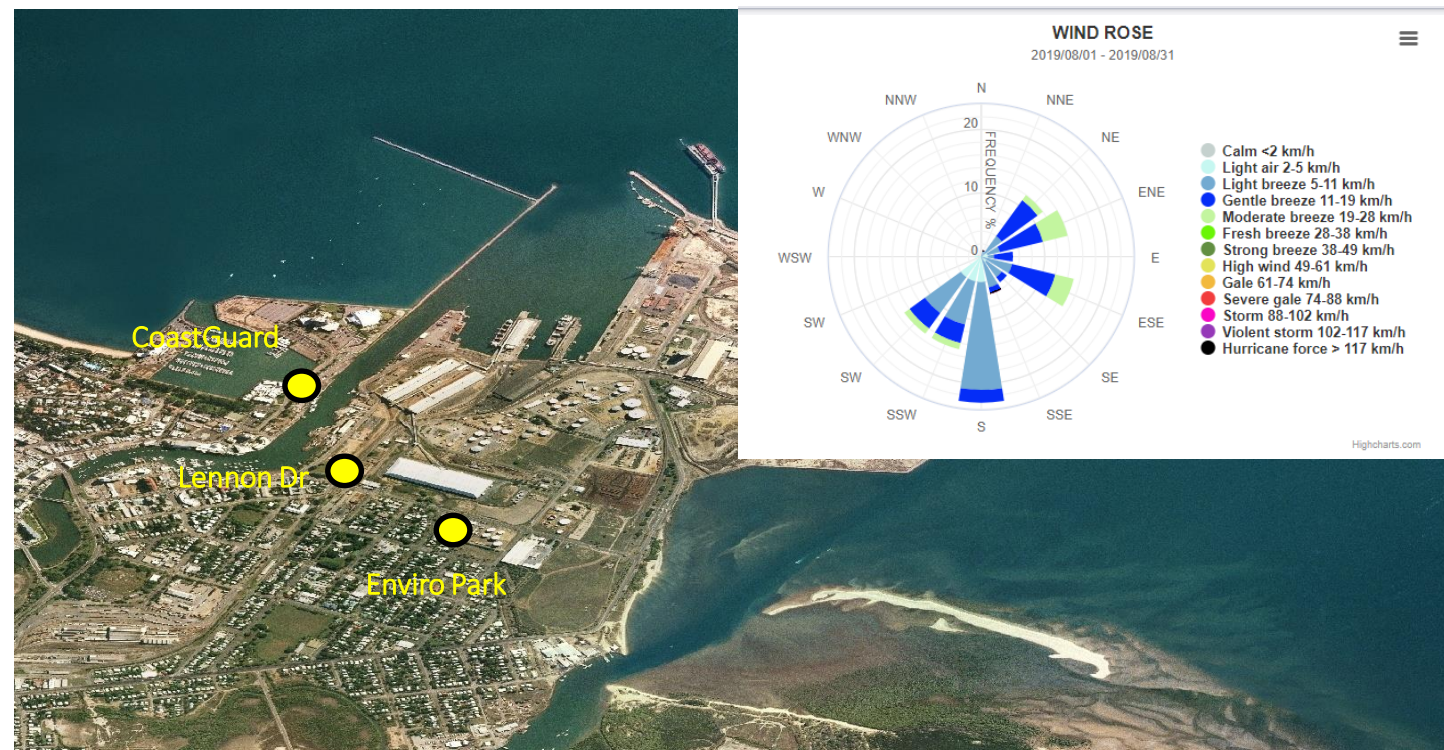
## AIR QUALITY MONITORING IN TOWNSVILLE

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 Monitoring Locations



### 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 August 2019

Date In/Out	Vessel Name	Berths	Cargo	Date In/Out	Vessel Name	Berths	Cargo
01-01	AEGEAN HIGHWAY	10	Motor Vehicles	14-15	OREGON HIGHWAY	4	Motor Vehicles
01-02	LUGA	4	Cement	14-17	SANIA	L1	Sugar
01-02	SOFRANA TOURVILLE	3 NTH	Containers	15-16	LAKE KONPIRA	8	Zinc Concentrates
01-02	ALPINE MATHILDE	1	Fuels	16-18	BRONZE LADY	11	Concentrates
01-03	JUMEIRAH BEACH	8	Zinc Concentrates	17-18	KYOWA ROSE	3 NTH	General/Break Bulk
02-05	DENSA FALCON	10	Urea	17-19	CIELO DI SAN FRANCISCO	8	Fertilizer
03-05	DAIWAN HERO	4	Containers	17-19	PAKHOI	9	Sugar
03-06	OUTRIDER	3 NTH	Zinc Concentrates	17-19	GULF CRYSTAL	1	Nil Cargo
03-05	THERESA MICRONESIA	9	Molasses	18-18	MAREX NOA	4	Tallow
05-14	MAPLE AMBITION	10	Zinc Concentrates	19-19	BLUE RIDGE HIGHWAY	4	Motor Vehicles
05-06	OCEAN SWAGMAN	3 STH	Fodder, cattle	20-20	GUDALI EXPRESS	3 NTH	Fodder, cattle
05-06	COREOCEAN OL	9	Sugar	20-21	STI GRAMERCY	1	Fuels
06-06	LAKE KONPIRA	4	Nil Cargo	20-21	MS EAGLE	4	Containers
06-08	SUNRISE BRIGHT	8	Fertilizer	23-24	NINE EAGLE	4	Fodder, cattle
07-08	ANDES QUEEN	9	Sugar	23-26	VIALLI	L1	Sugar
07-11	GLORY SKY	4	Cement	24-25	DAISY	3 NTH	General Cargo
07-09	MARATHA PRIDE	3 NTH	Zinc Concentrates	25-27	KOTA NEBULA	4	Containers
08-08	GOLDEN RESOLUTION	1	Fuels	25-28	LA BRIANTAIS	9	Scrap
08-08	GALAXY LEADER	10	Motor Vehicles	25-28	SEA FALCON	3 NTH	Lead Ingots
09-09	GREYMAN EXPRESS	3 NTH	Fodder, cattle	27-27	GIROLANDO EXPRESS	10	Fodder, cattle
10-11	KOTA NIPAH	3 NTH	Containers	27-28	CORONADO BAY	4	Containers
11-14	KINGFISHER_1	8	Fodder, cattle	28-29	CHALLENGE PEGASUS	1	Fuels
12-13	SEN TREASURE	9	Sugar	28-31	AKUNA	4	Cement
12-13	JAWAN	4	Fodder, cattle	29-30	HINASE	9	Sugar
12-14	SEOUL TOWER	3 STH	Containers	30-31	JIANGMEN TRADER	9	Sugar
12-13	DIVINE ACE	3 NTH	Motor Vehicles	30-31	STOLT RENGE	1	Sulphuric Acid
13-13	GLOUCESTER EXPRESS	4	Fodder, cattle	30-01	ALENTEJO	8	Fertilizer
14-17	TRANSFORMER OL	9	scrap metal	31-01	OCEAN SWAGMAN	4	Fodder, cattle
14-15	WARNOW MERKUR	3 NTH	General/Break Bulk	31-01	GOLDEN UNITY	1	Fuels
14-20	MAPLE AMBITION	10	Zinc Concentrates				



## 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.

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

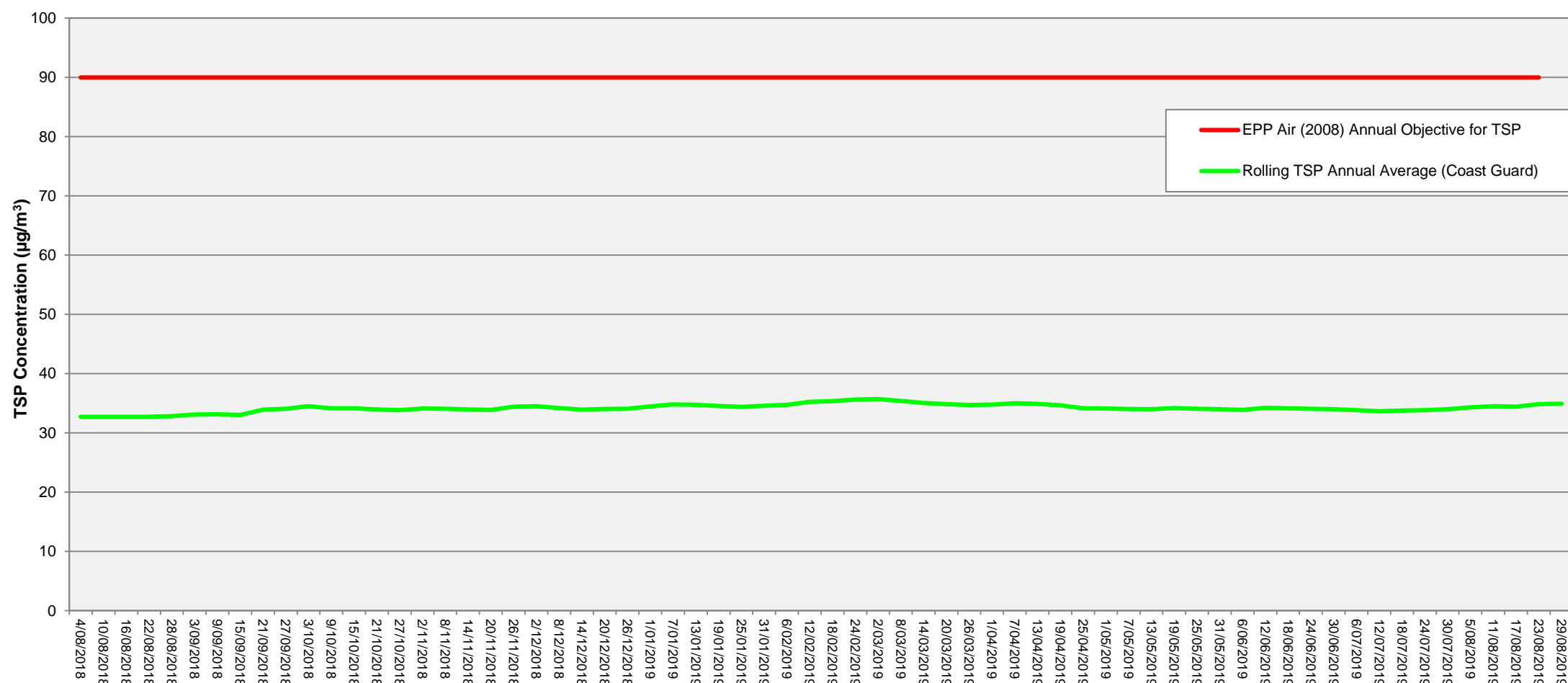
Phone 07 47 811 500 and asked to be added to the list.

## Ask a Question / Provide Feedback

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

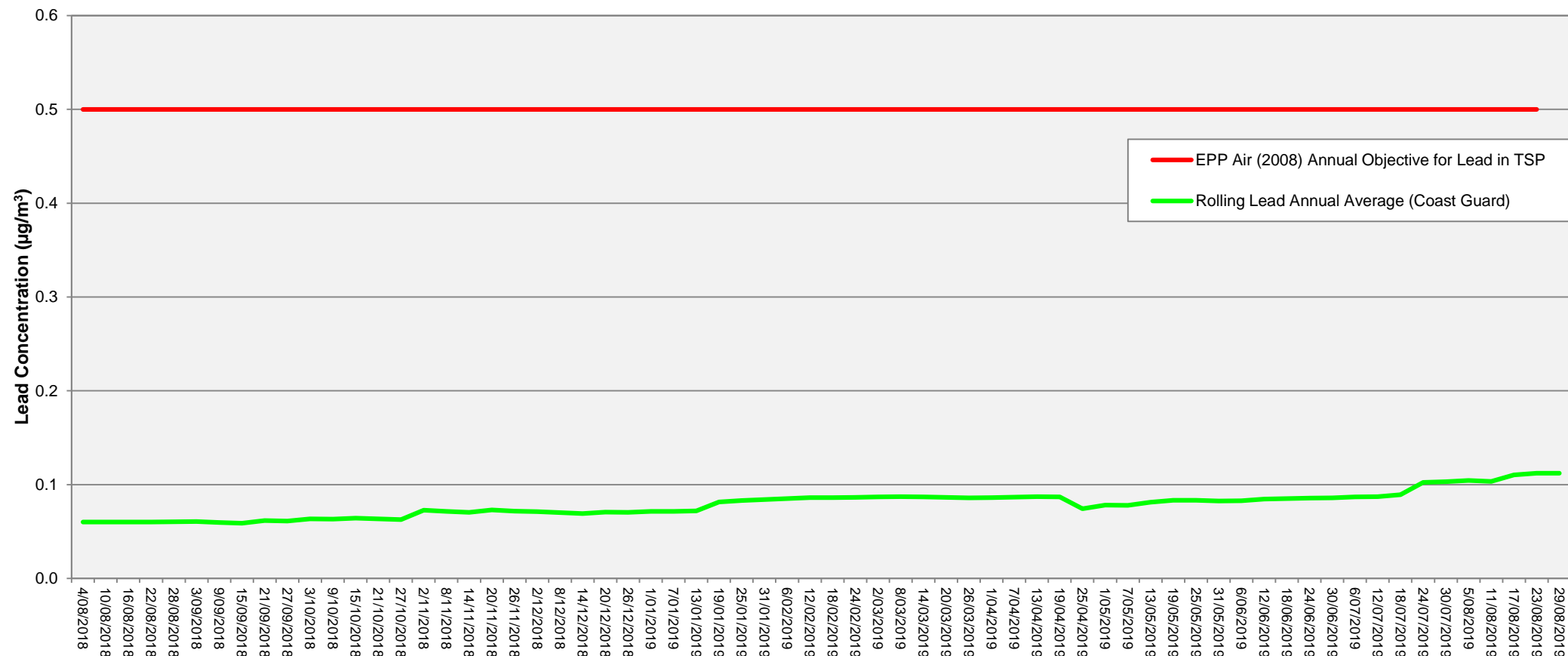


## Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site AUGUST 2018 – AUGUST 2019



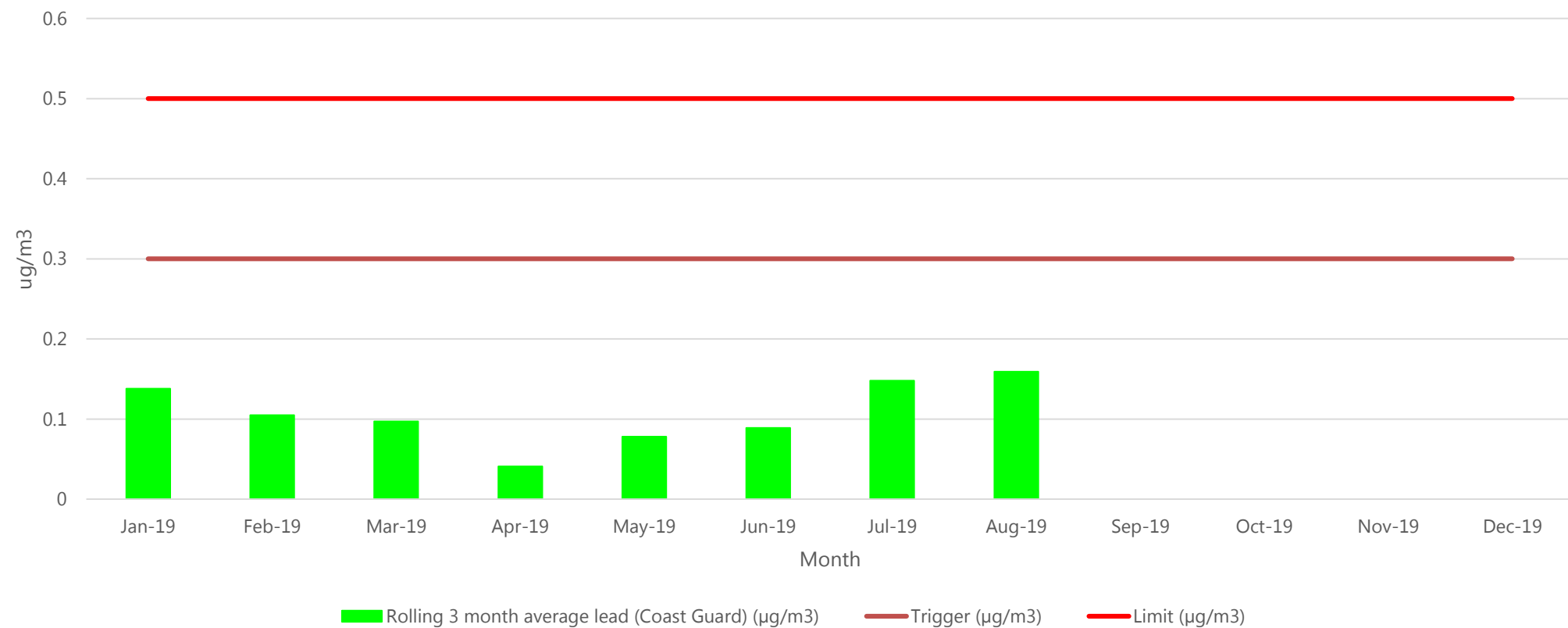
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
 Rolling annual average = the moving average of the previous 11 results and the current result

## Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site AUGUST 2018 – AUGUST 2019



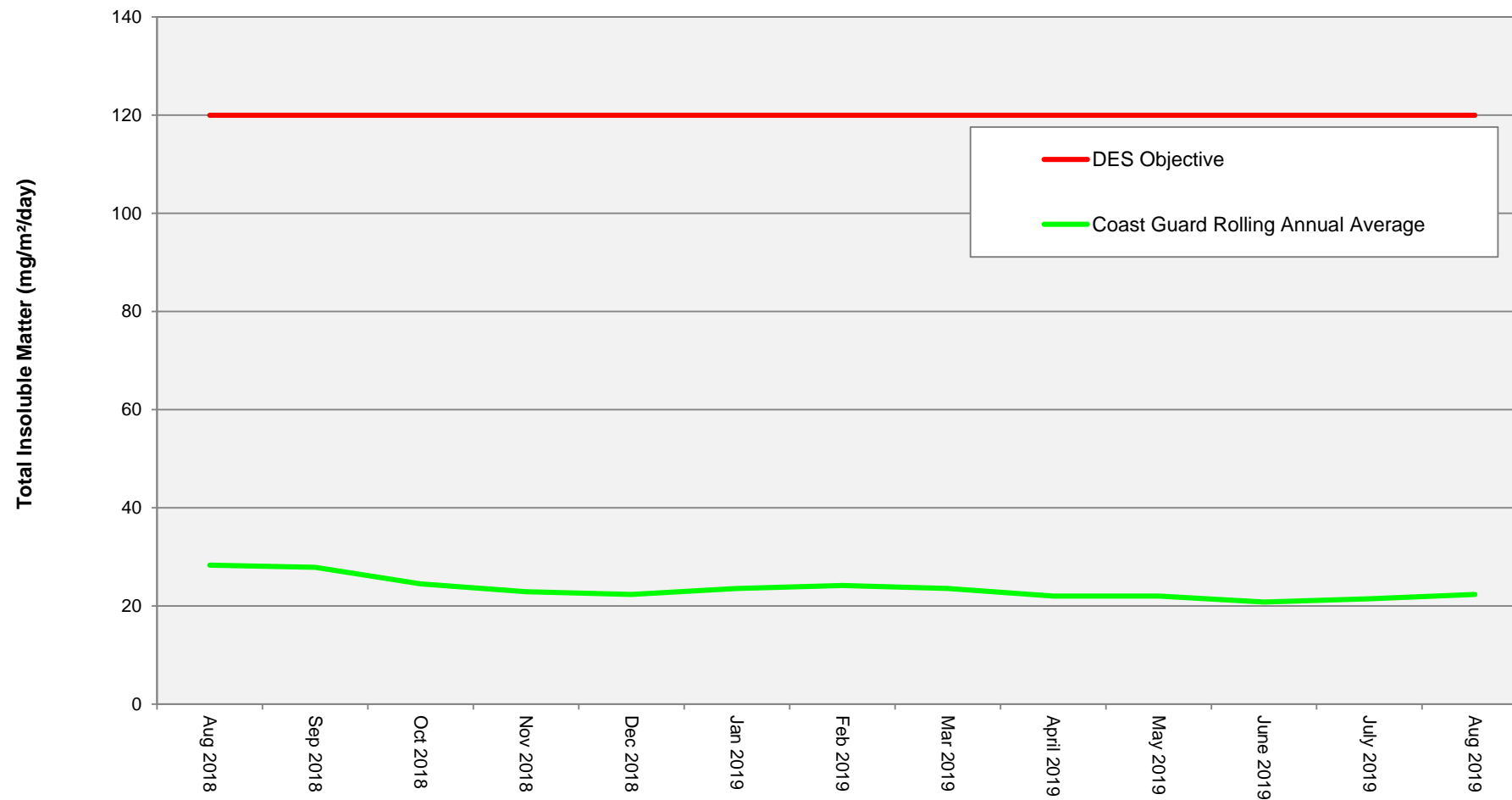
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## Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site 2019



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

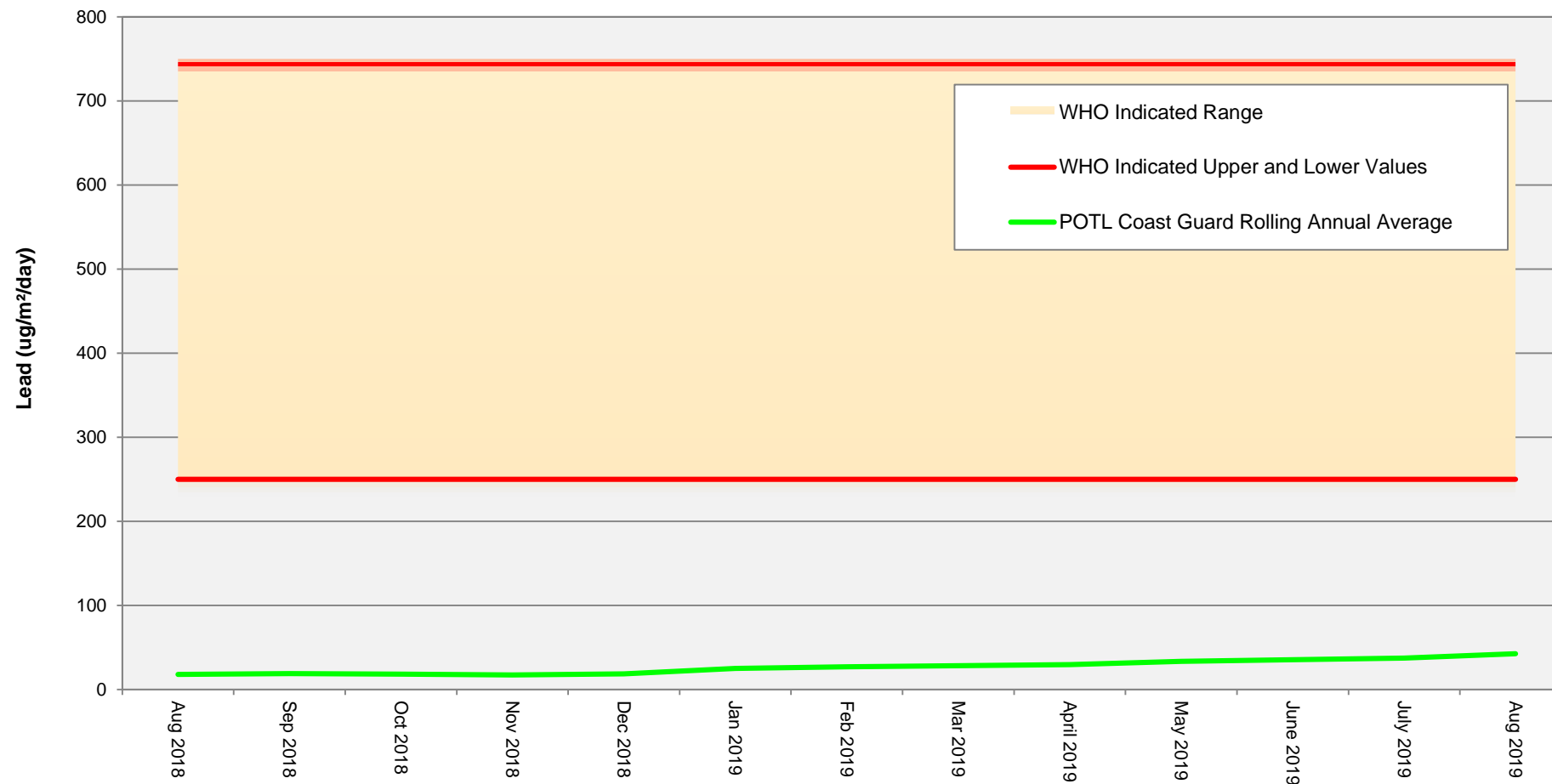
## Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site AUGUST 2018 – AUGUST 2019



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

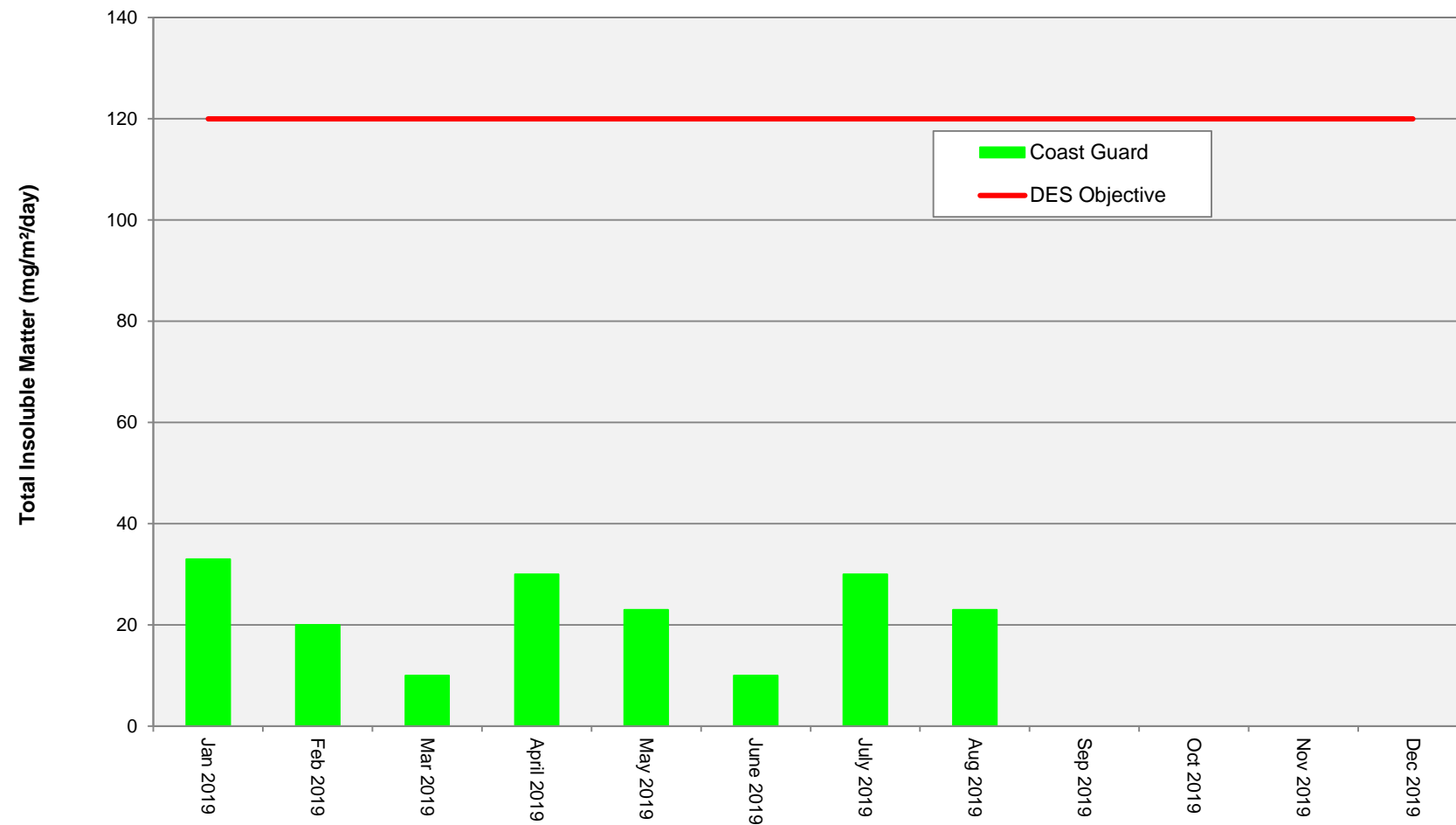


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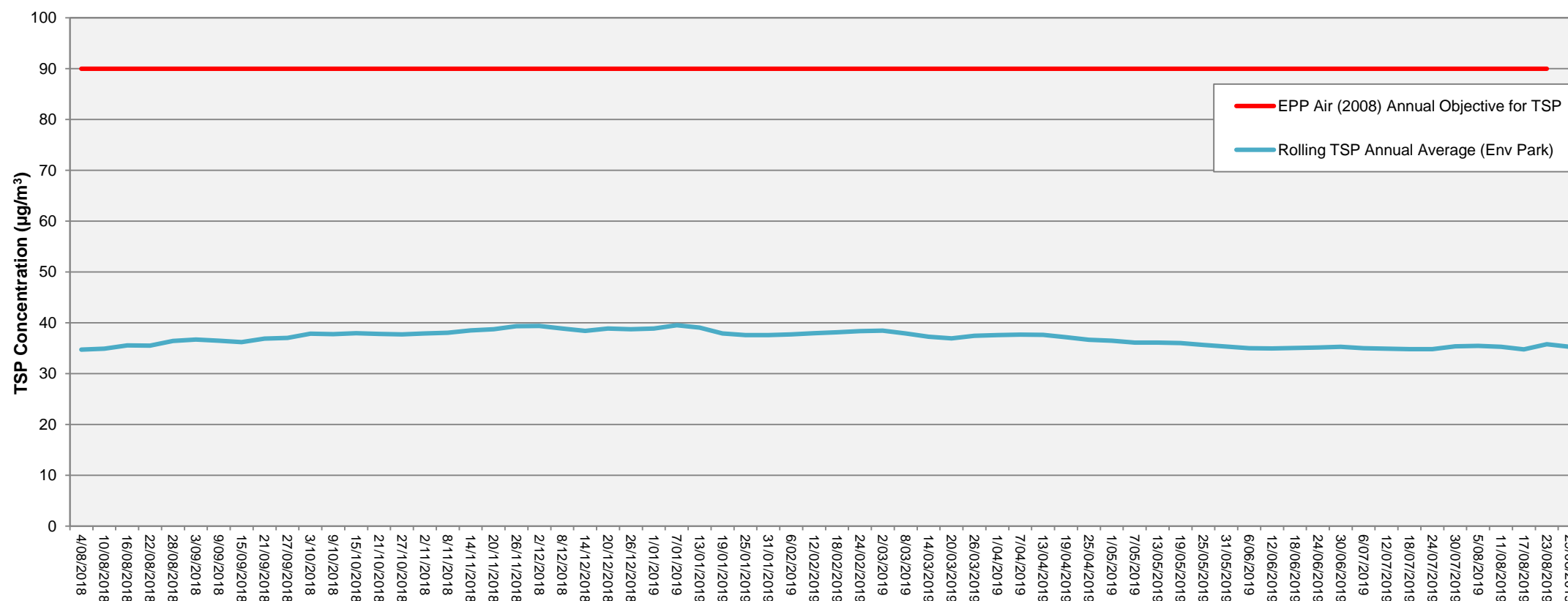
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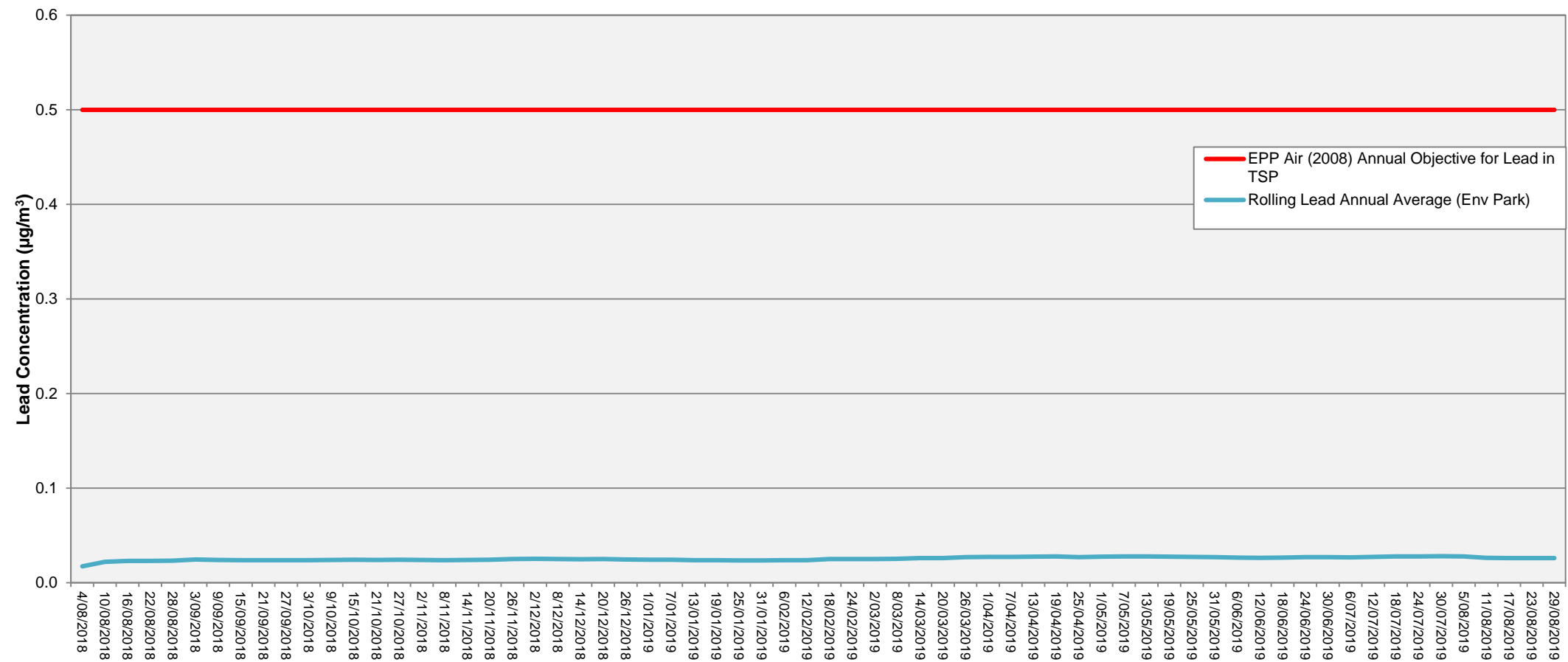
Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

## Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site AUGUST 2018 – AUGUST 2019

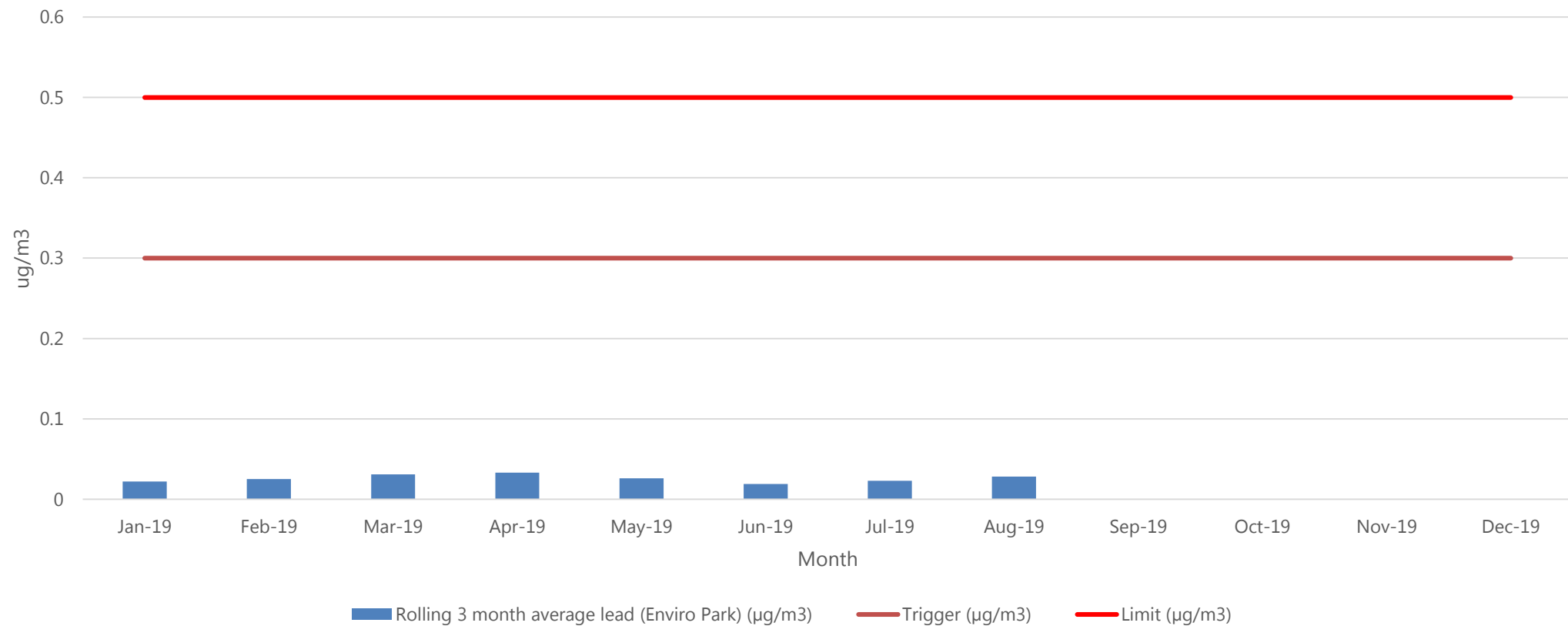


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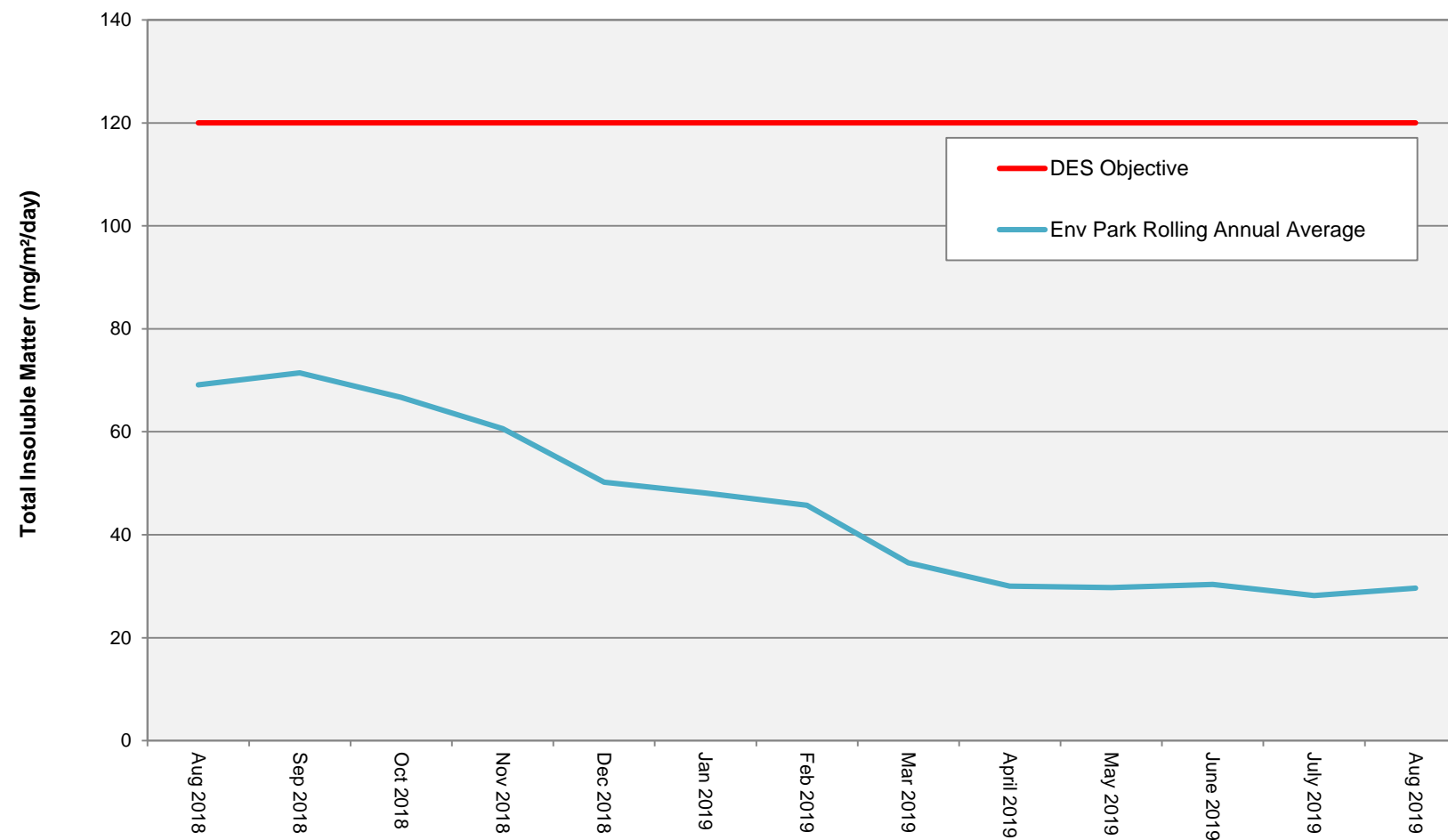
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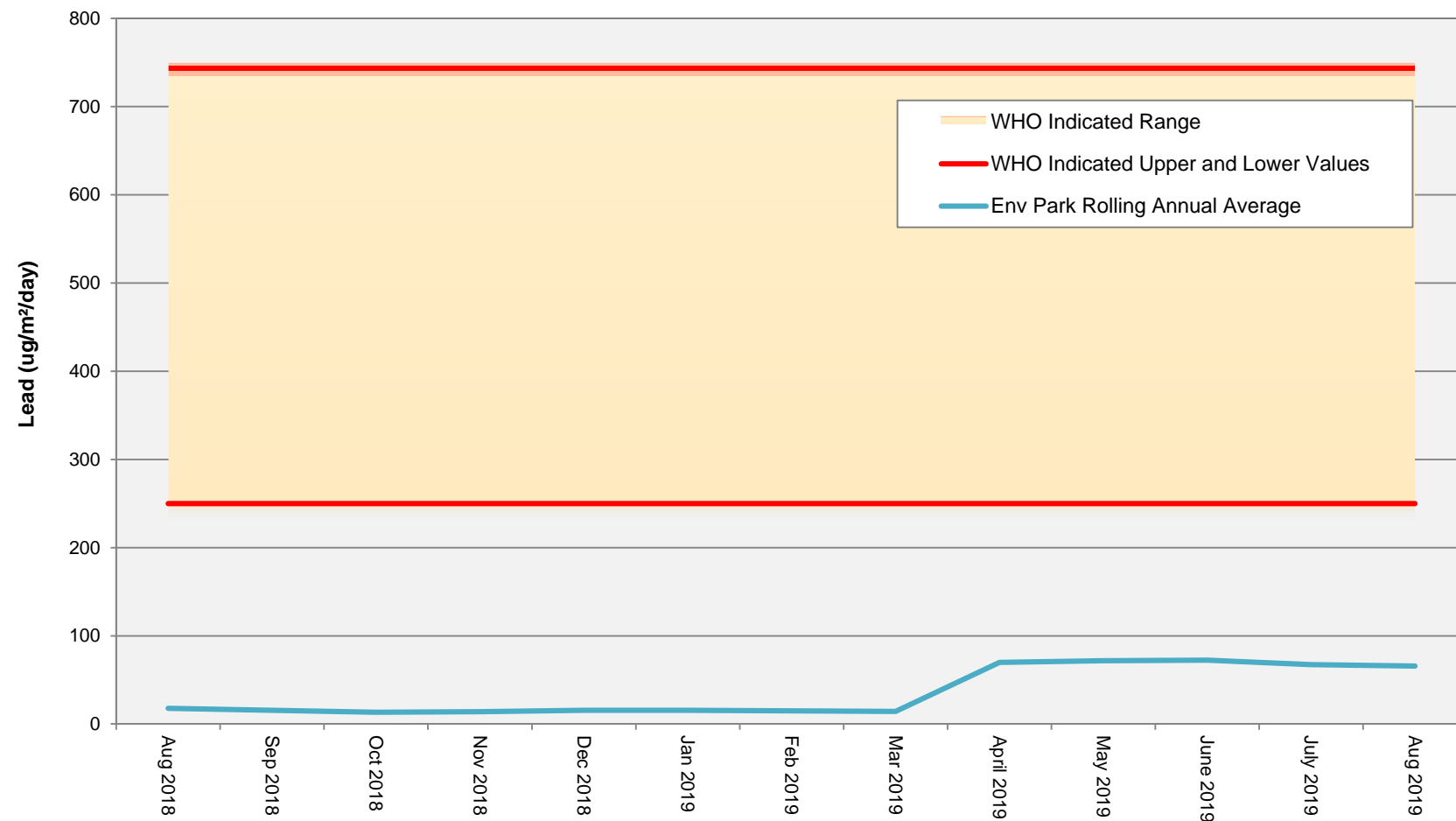


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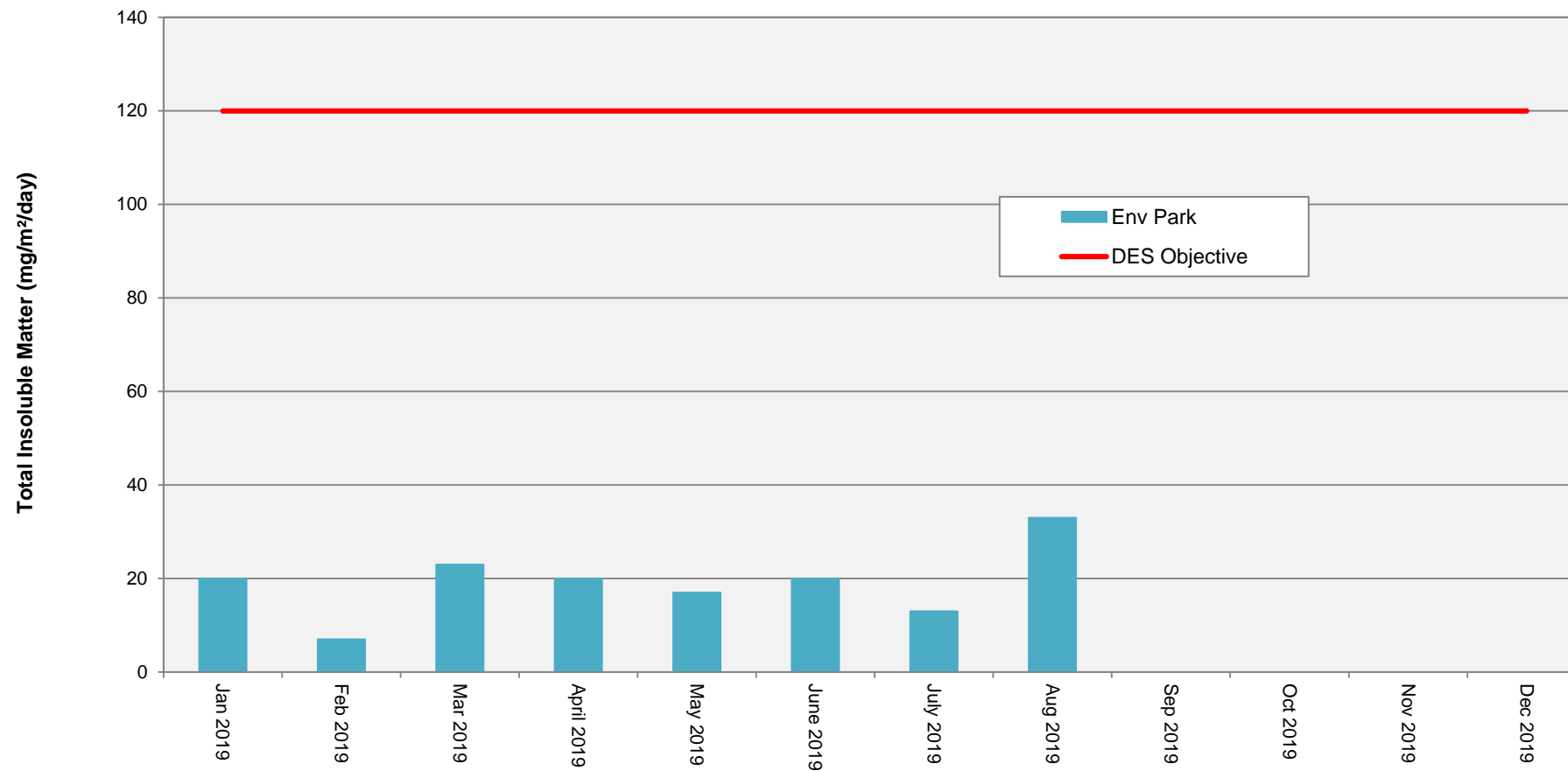
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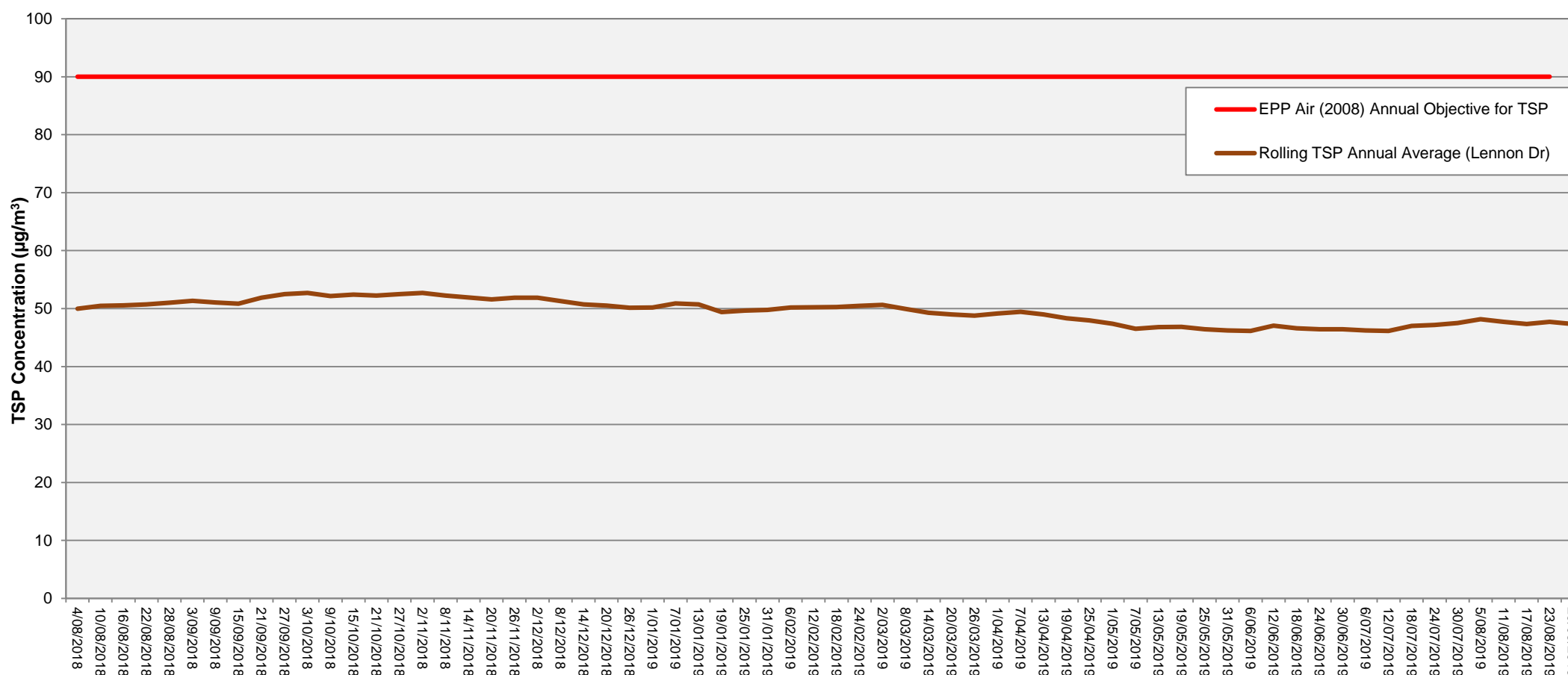
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## Dust Deposition Gauge – General dust deposition levels (monthly) at Environment Park Site 2019



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## Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site AUGUST 2018– AUGUST 2019

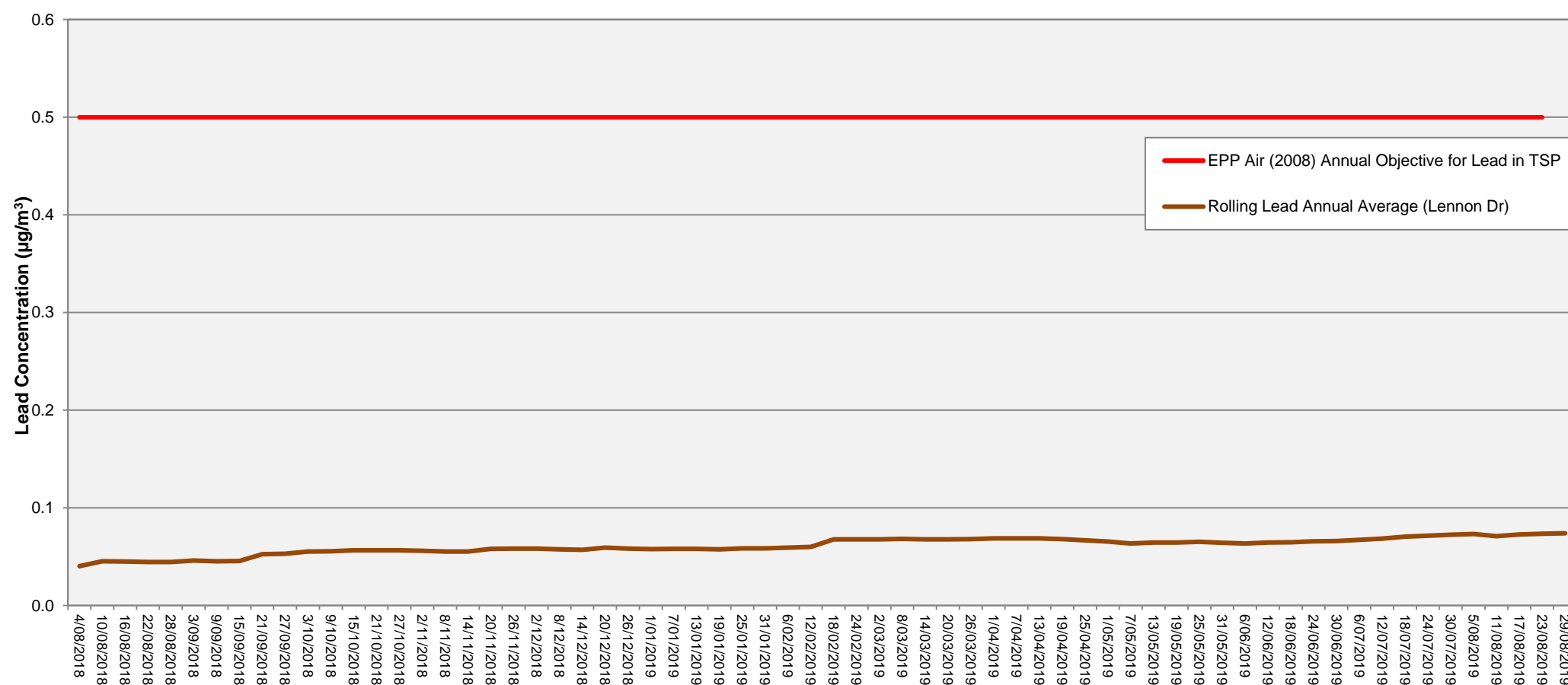


Note:

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

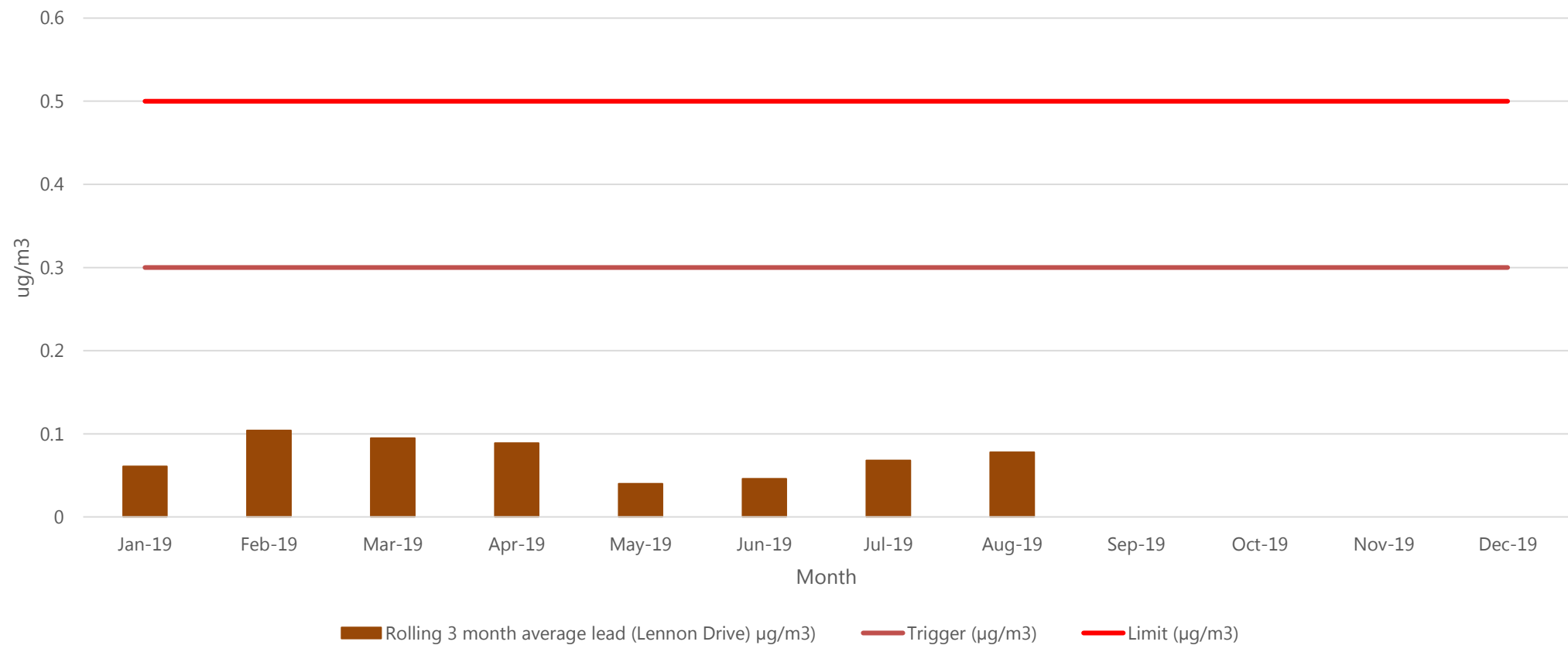
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Note: Lead Concentration units = micrograms per cubic metre per 24 hour period  
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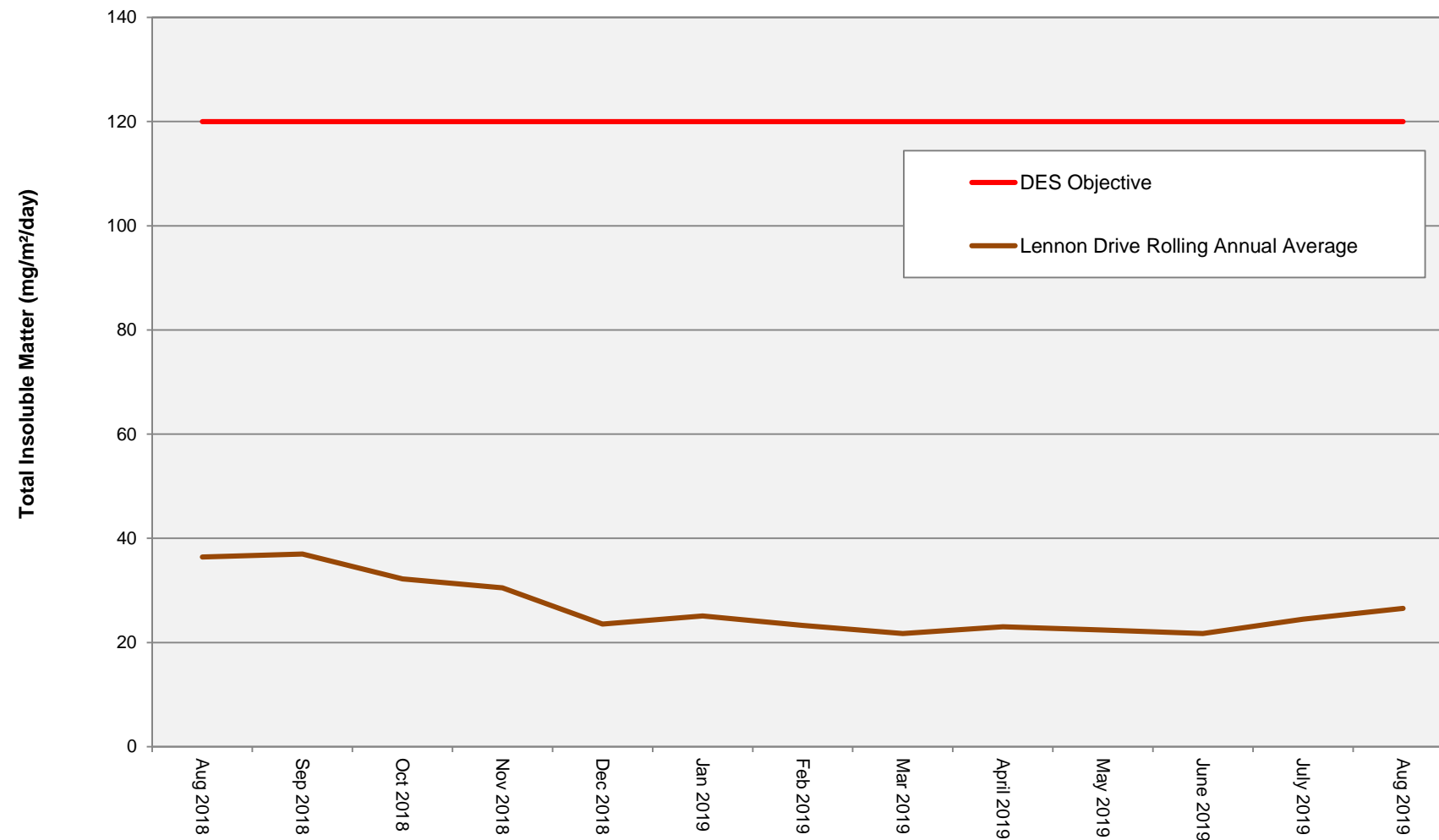


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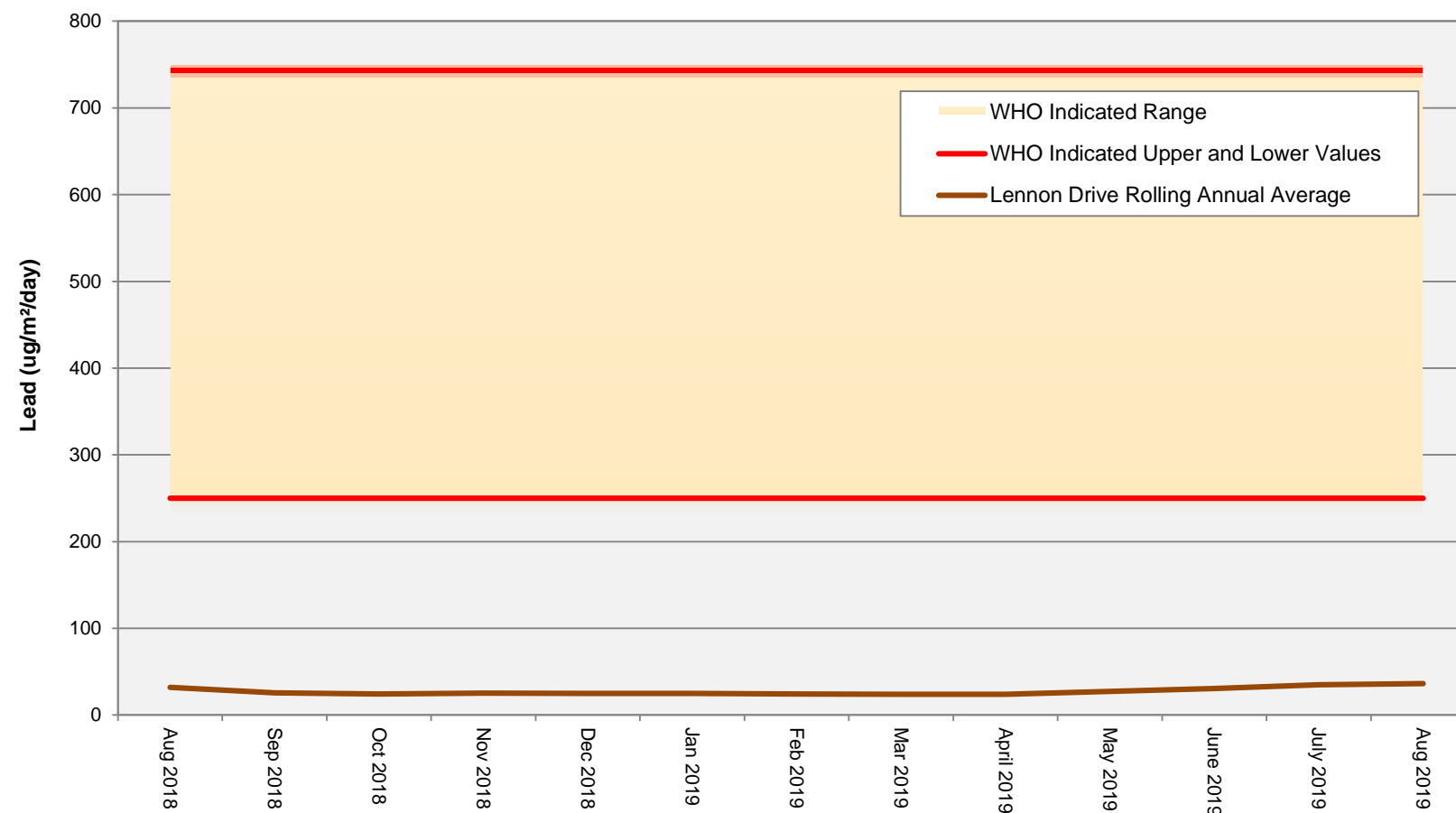


Note:

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

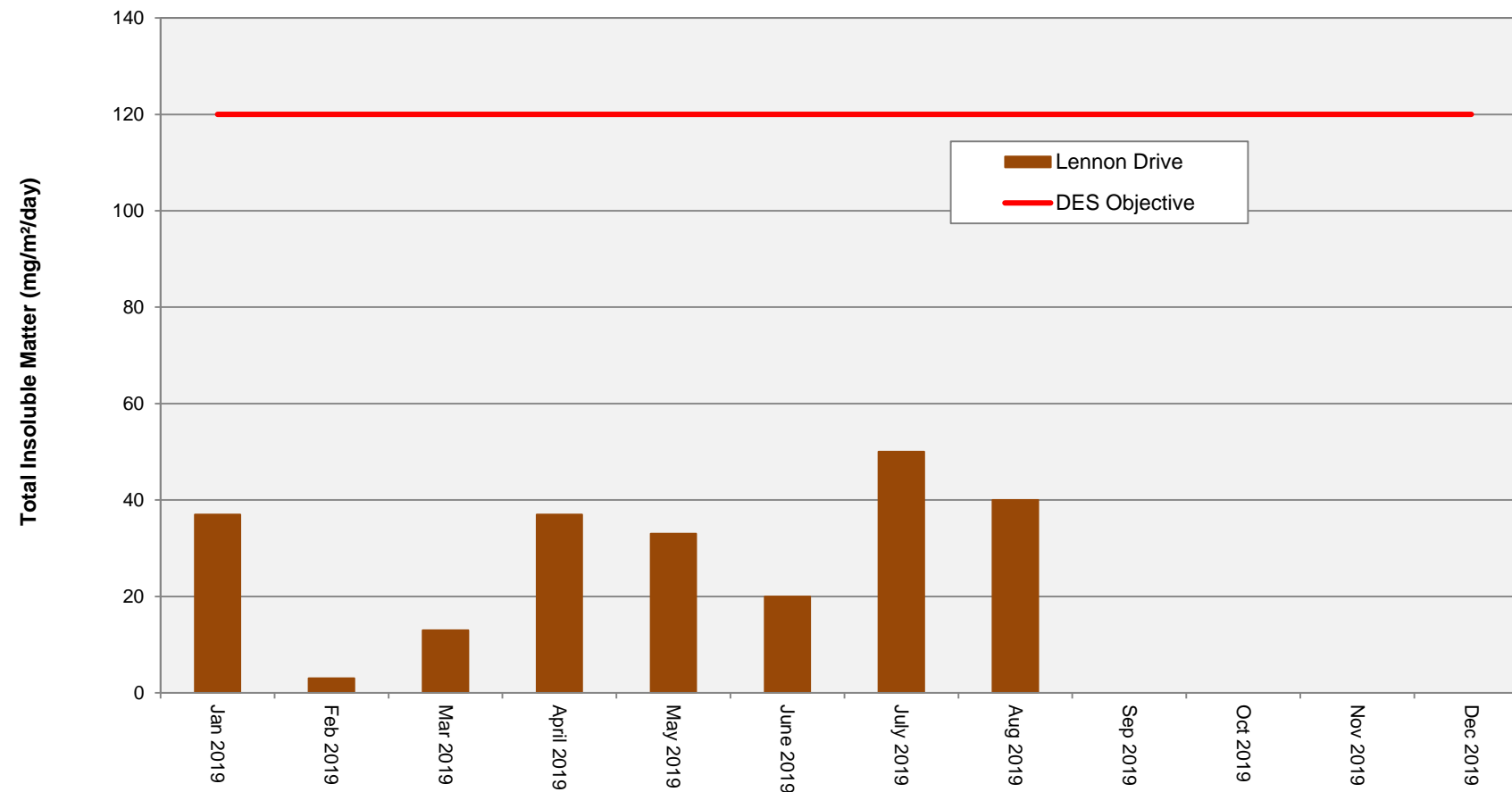
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This statement/advice was provided by Queensland Health in relation to blood lead levels in Townsville in April 2016

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.