

## 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 September 2018

Date In/Out	Vessel Name	Berths	Cargo
02-06	OCEAN PHOENIX TREE	3,8	Lead Ingots
03-09	SEA ANGEL	10,8	Fertilizer
03-04	GREYMAN EXPRESS	3	Fodder, Cattle
04-06	SMILEY LADY	3	Containers
04-06	NEPTULUS	4	Nil Cargo
04-05	THERESA MICRONESIA	9	Scrap Metal
04-06	GLADIATOR	L1	Sugar
06-06	GOLDEN CREATION	9	Tallow
06-08	BBC RIO GRANDE	3,10	Zinc Concentrates
06-08	CHAYANEE NAREE 1	L1	Sugar
07-09	MIA SCHULTE	3	Containers
07-07	PACIFIC EDEN	10	Passenger Vessel
07-08	PROMISE 3	9	Sugar
07-09	GLORY ATLANTIC	4	Cement
09-09	MERCURY LEADER	10	Motor Vehicles
10-10	NEPTUNE ACE	4	Motor Vehicles
10-12	UNI CHALLENGE	11	Lead Concentrates
10-14	PACIFIC CONDOR	3	Tyres, Refined copper
10-11	CEPHEUS LEADER	9	Motor Vehicles
11-11	PACIFIC ARIA	10	Passenger Vessel
11-12	GREAT MANTA	1	Fuels
11-14	KOTA NAGA	4	Containers
12-13	GLORIOUS FUJI	9	Sugar
12-15	SCF PRUDENCIA	1	Fuels
14-16	UNI CHALLENGE	3	Zinc Concentrates
14-15	OCEAN DROVER	4	Fodder, Cattle
15-16	STAR RIVER	1	Bitumen
15-15	SOFRANA TOURVILLE	3	Containers
15-16	BRASILIA HIGHWAY	10	Motor Vehicles
15-18	AFRICAN EAGLE	8	Fertilizer

Date In/Out	Vessel Name	Berths	Cargo
16-17	ATLANTIC DIANA	9	Sugar
16-25	FEDERAL TRIDENT	10,3	Zinc Concentrates
16-18	GLORY ATLANTIC	4	Cement
17-18	FLORA DELMAS	3	Containers
18-19	LUCKY LIFE	9	Sugar
18-19	TS HONOUR	8	Zinc Concentrates
18-20	CLIPPER AMSTERDAM	L1	Sugar
20-21	GREAT MANTA	1	Fuels
21-25	STENAWECO CATERINA CORRADO	8,9	Molasses
21-23	KOTA NIPAH	3	Containers
21-22	HIGH SATURN	1	Fuels
22-23	MMA LEVEQUE	4	Nil Cargo
22-23	LAUREL ACE	9	Sugar
23-23	LEO ASPHALT I	4	Bitumen
23-25	TS INDEX	8	Fertilizer
24-24	COLUMBIA HIGHWAY	10	Motor Vehicles
24-25	KONDILI	4	Cement
24-27	SSI MAJESTIC	10	Urea
25-28	FLEVOGRACHT	8	Copper Concentrates
25-01	WUCHANG	3	Zinc Concentrates
26-26	GREYMAN EXPRESS	3	Fodder, Cattle
26-26	SUN TRITON	4	Caustic Soda
27-29	PORT ANGELES	3	Zinc Concentrates
29-30	SHANGHAI SPIRIT	8	Lead 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 – expecting 19 vessel visits in 2018.

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.



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OR

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

OR

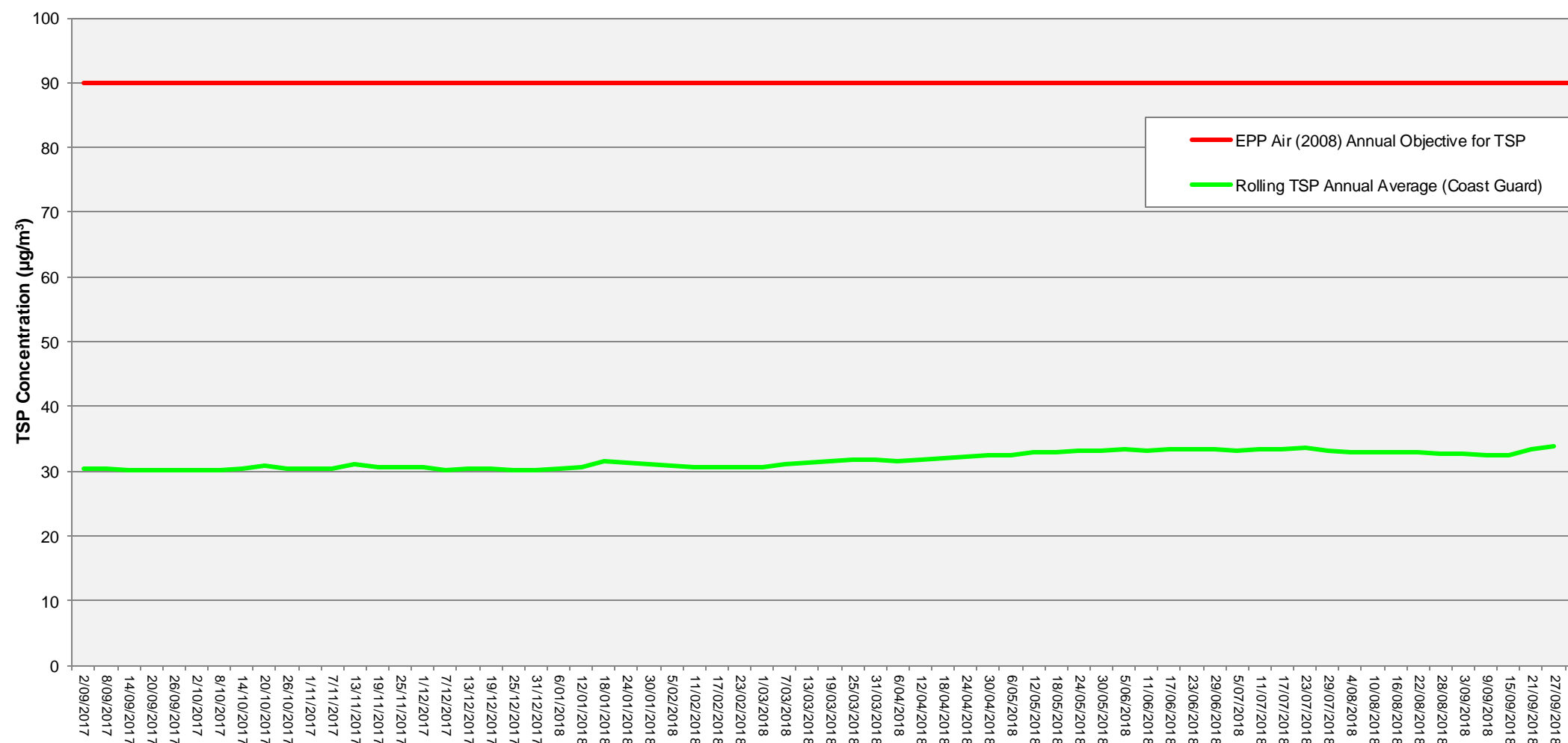
Phone 07 47 811 500 and asked to be added to the list.

## Ask a Question / Provide Feedback

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

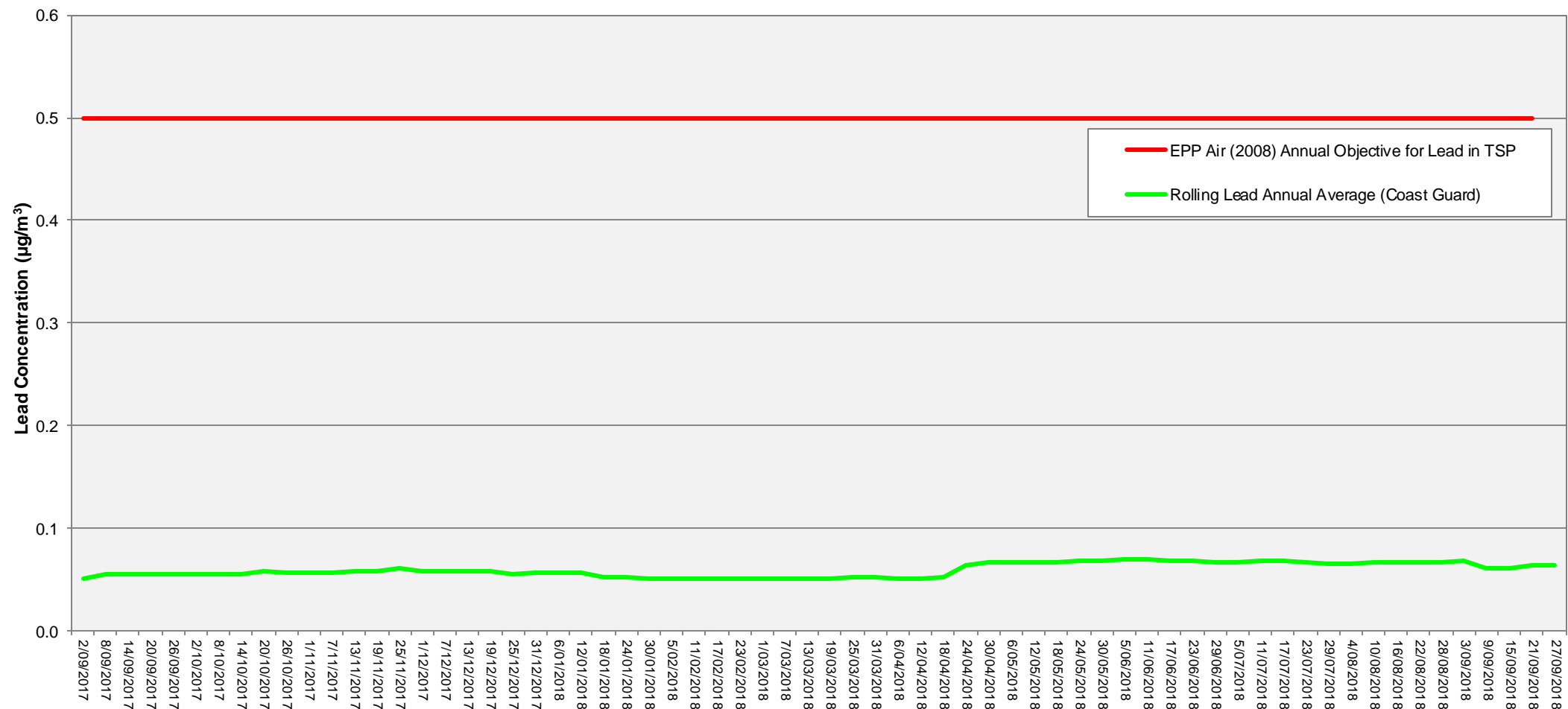


## Hi-Volume Sampler – General total dust levels (one in six days) at Coast Guard Site SEPTEMBER 2017 – SEPTEMBER 2018



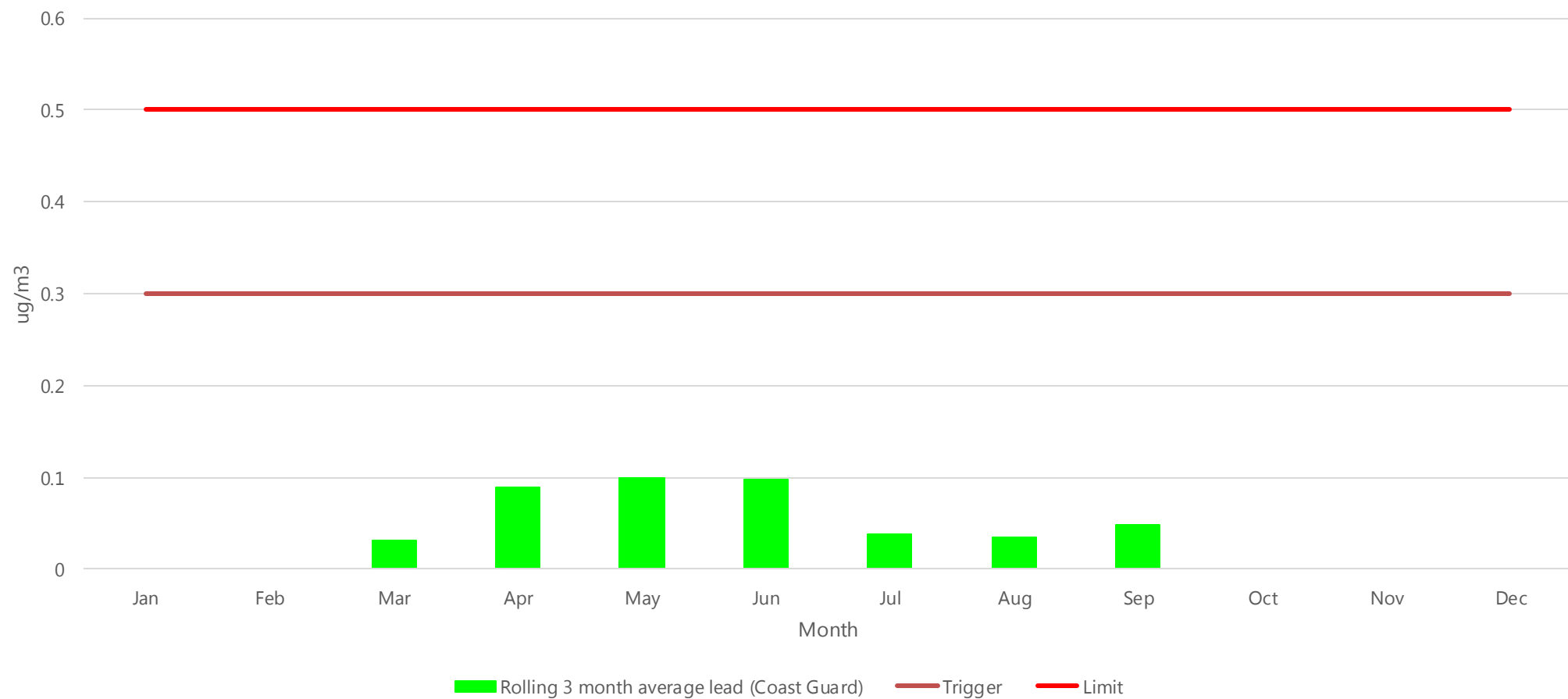
Note: TSP Concentration units = micrograms per cubic metre per 24 hour period  
 Rolling annual average = the moving average of the previous 11 results and the current result

## Hi-Volume Sampler – Lead in dust levels (one in six days) at Coast Guard Site SEPTEMBER 2017 – SEPTEMBER 2018



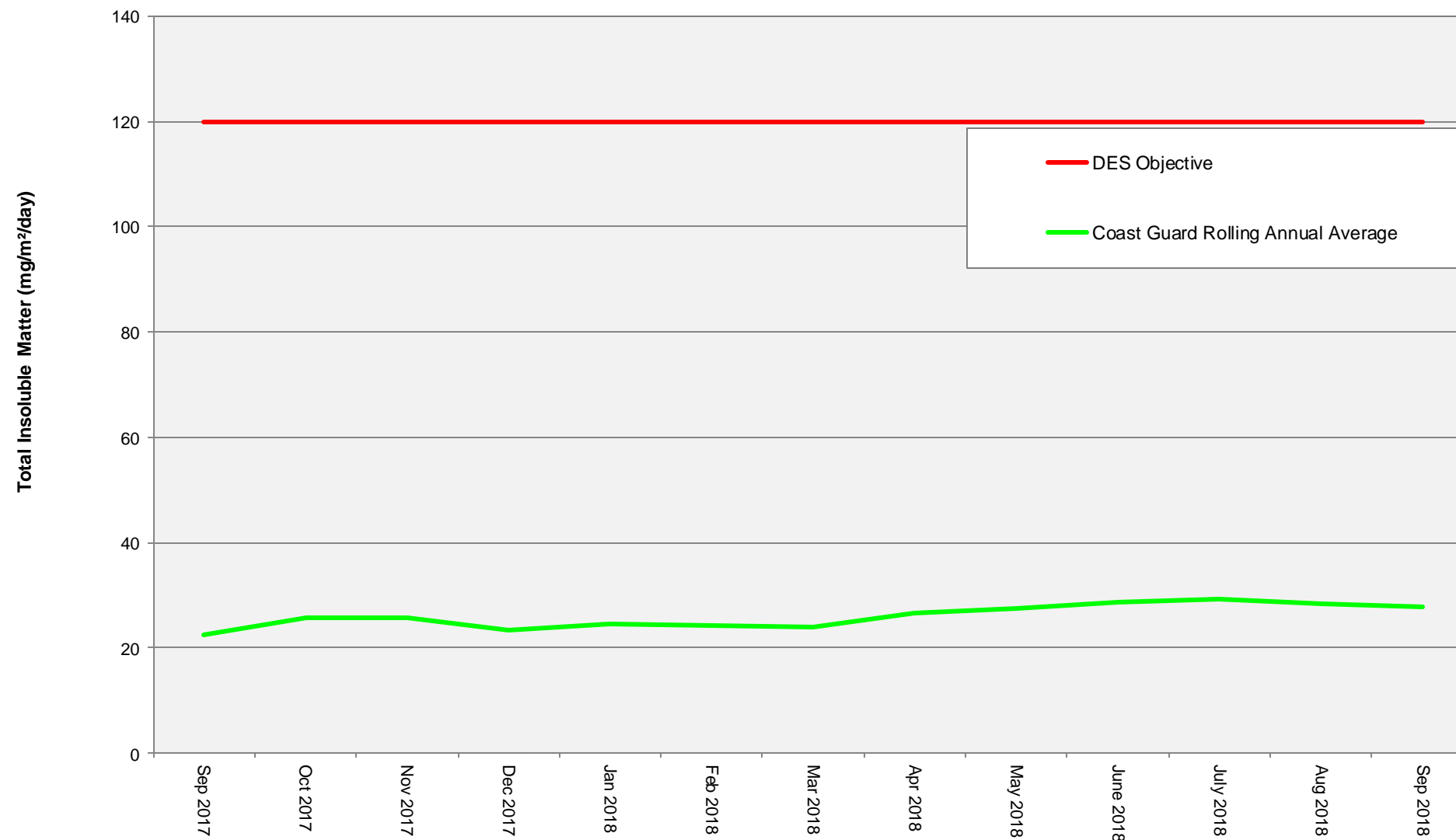
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## Hi-Volume Sampler - Lead in dust levels (one in six days) at Coast Guard Site JANUARY 2018 – SEPTEMBER 2018



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

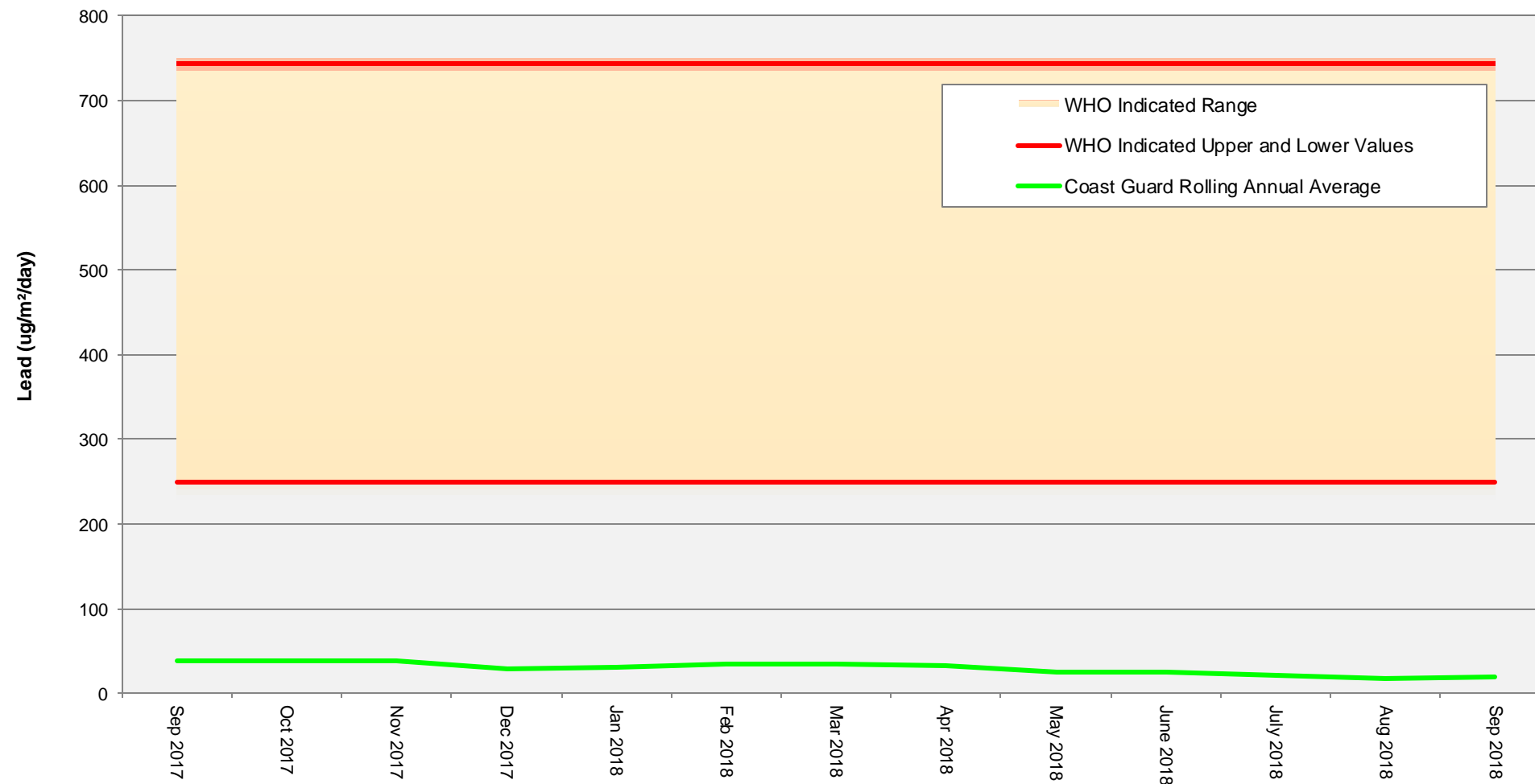
## Dust Deposition Gauge – General dust deposition levels (monthly) at Coast Guard Site SEPTEMBER 2017 – SEPTEMBER 2018



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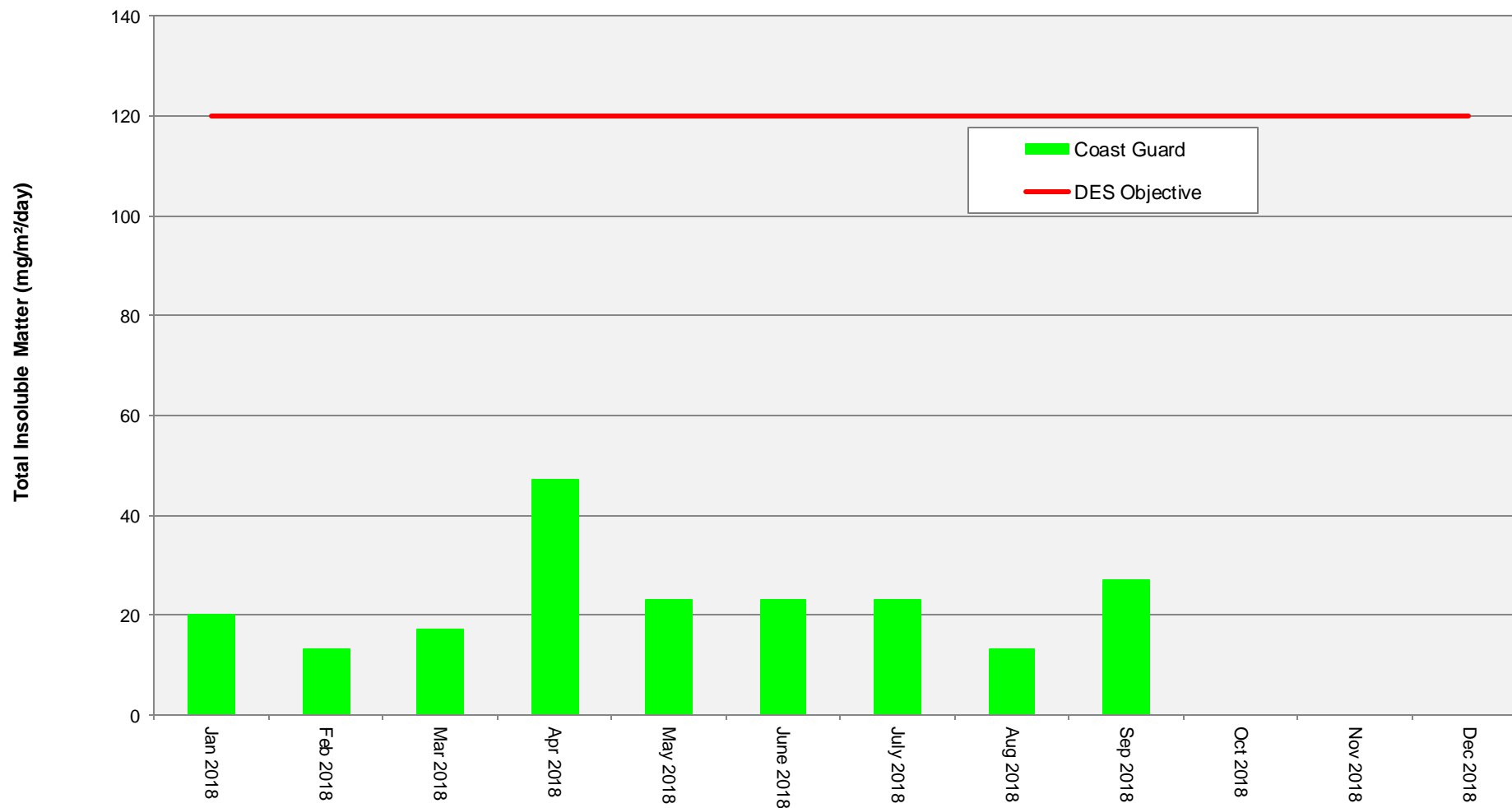


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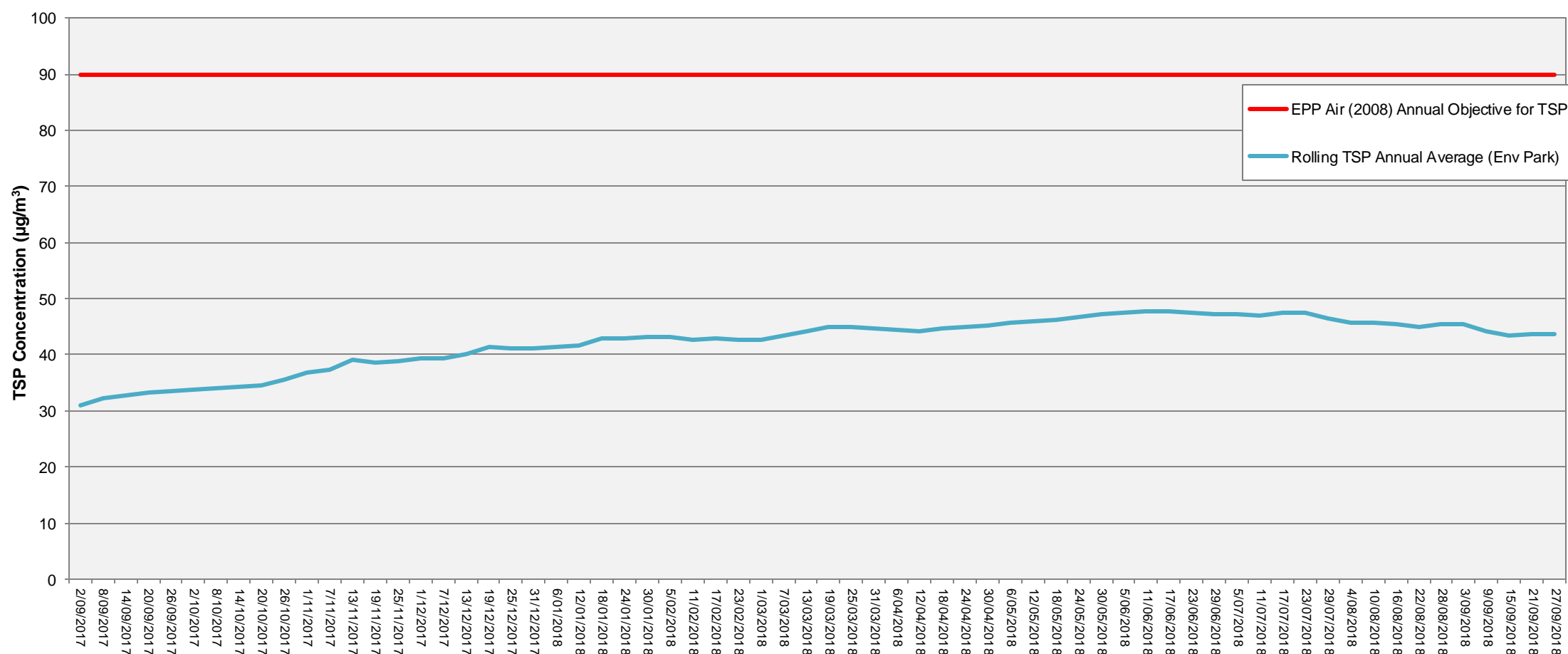
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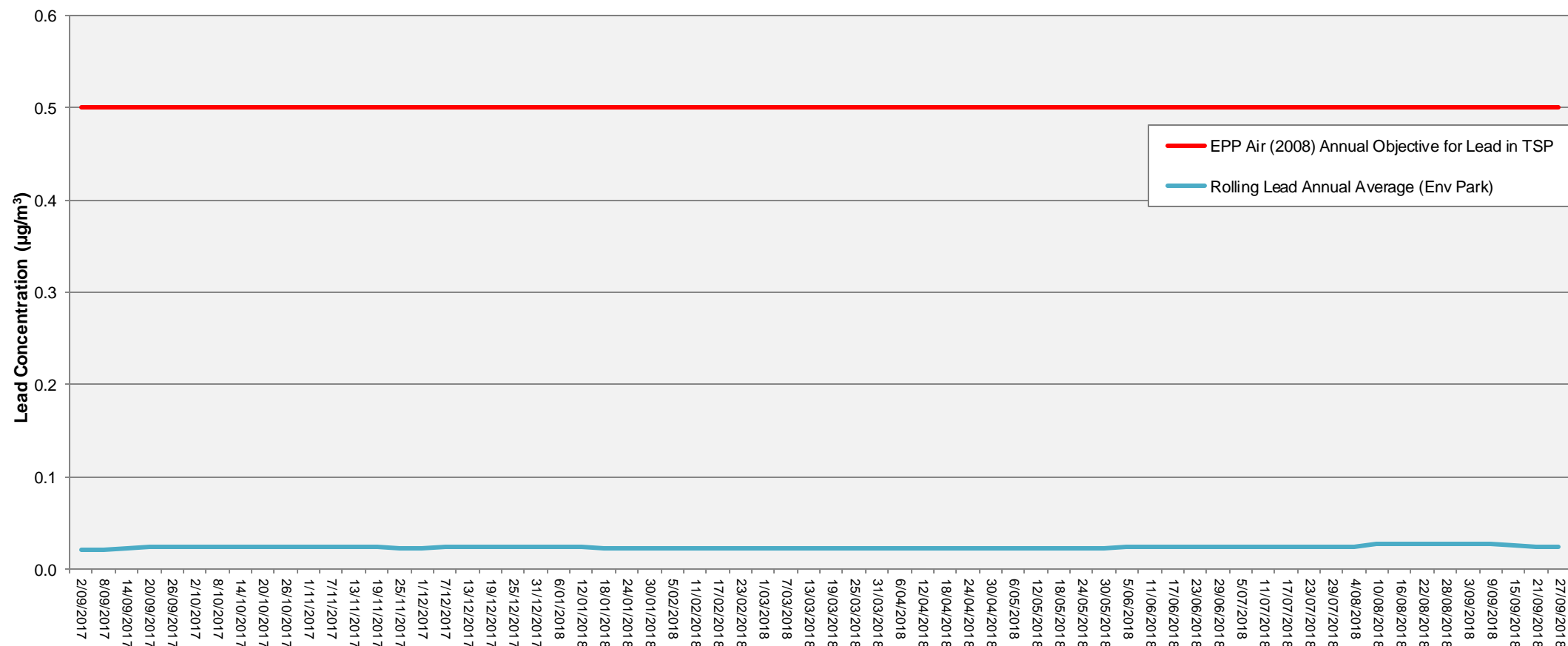


Note: Total Insoluble Matter Concentration units = milligrams per square metre per day

## Hi-Volume Sampler - General total dust levels (one in six days) at Environment Park site SEPTEMBER 2017 – SEPTEMBER 2018



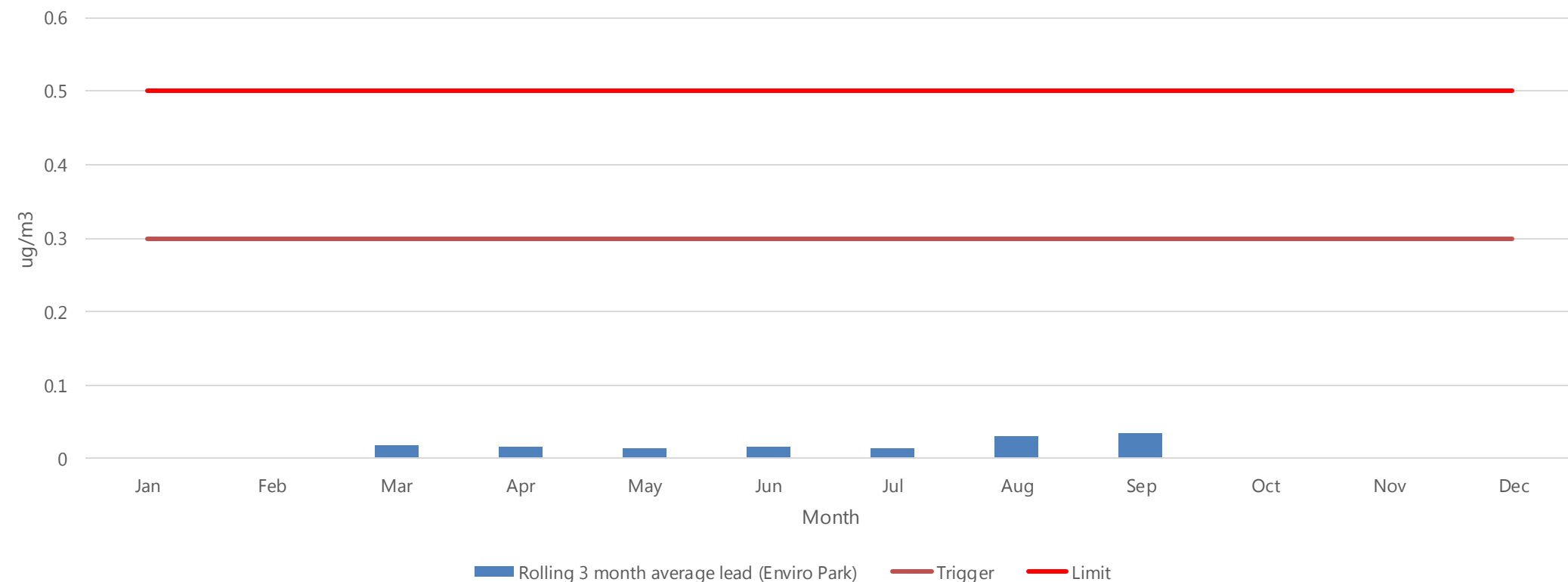
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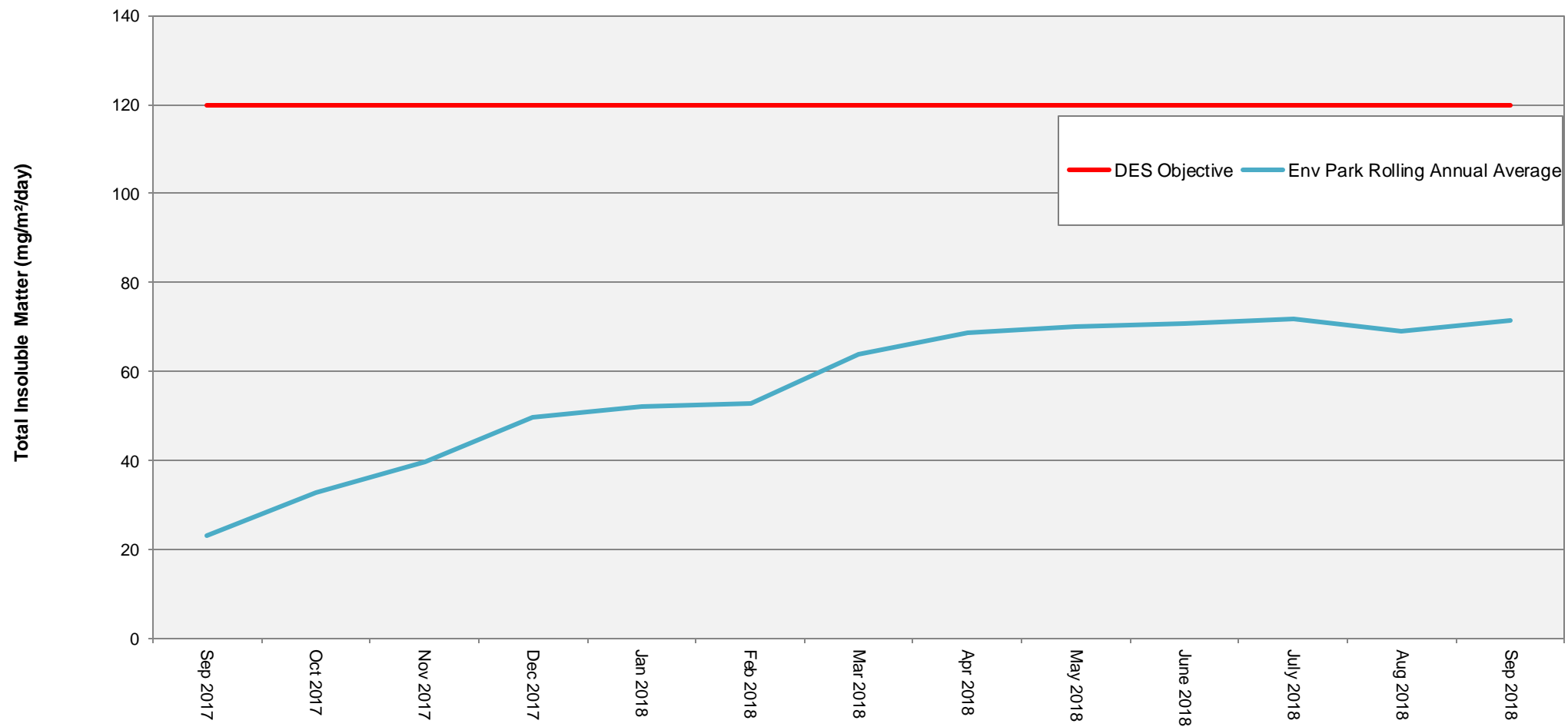


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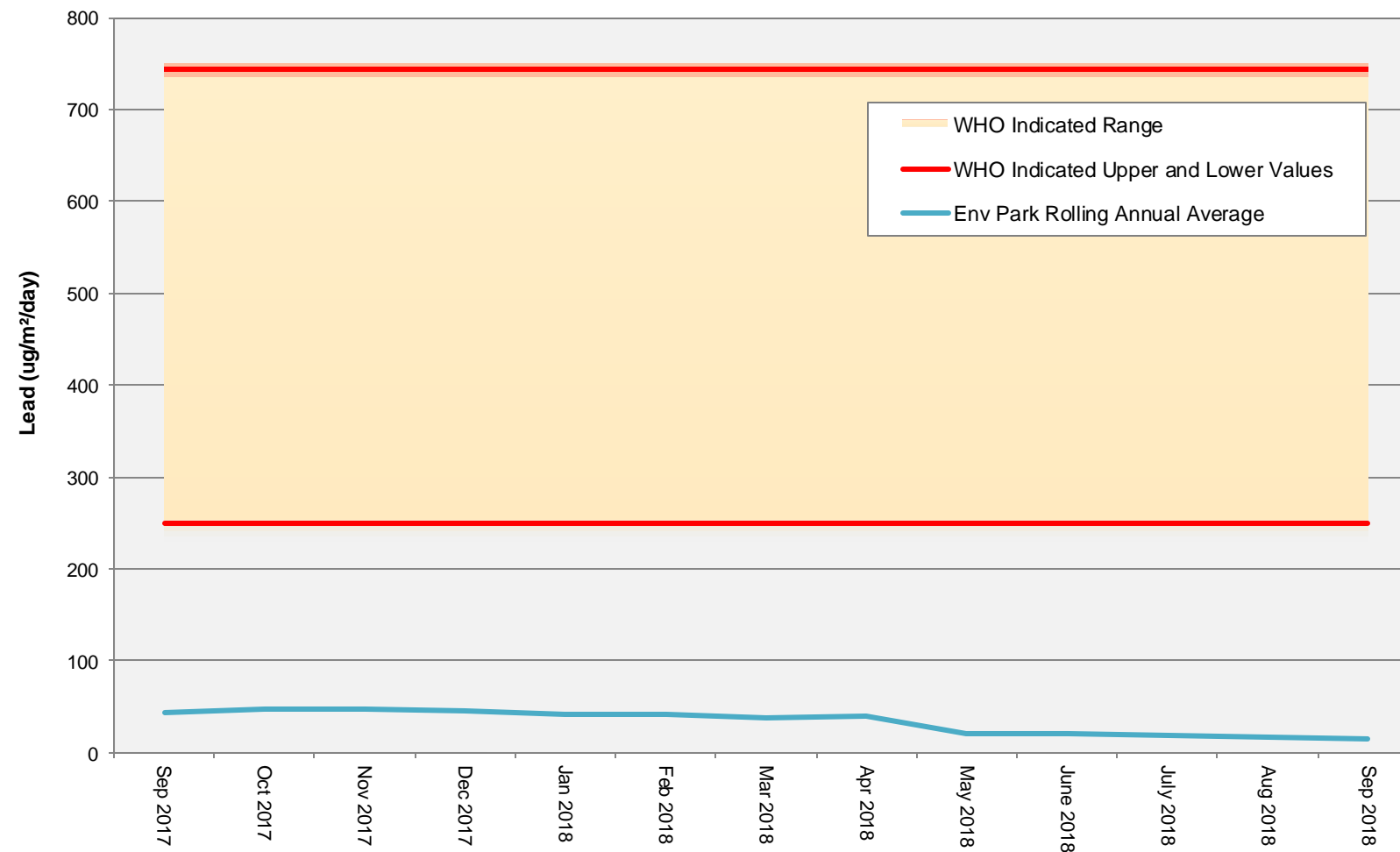
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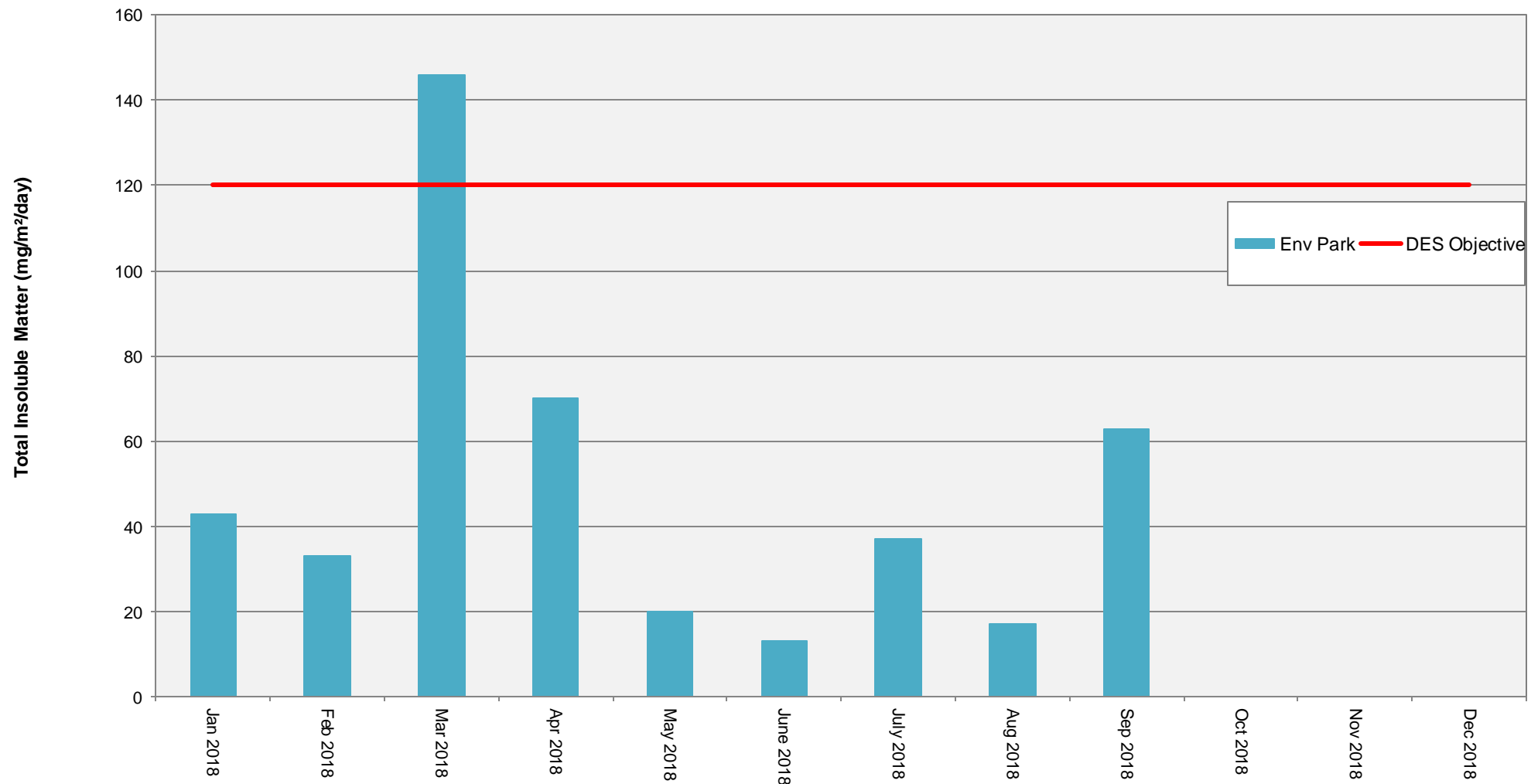
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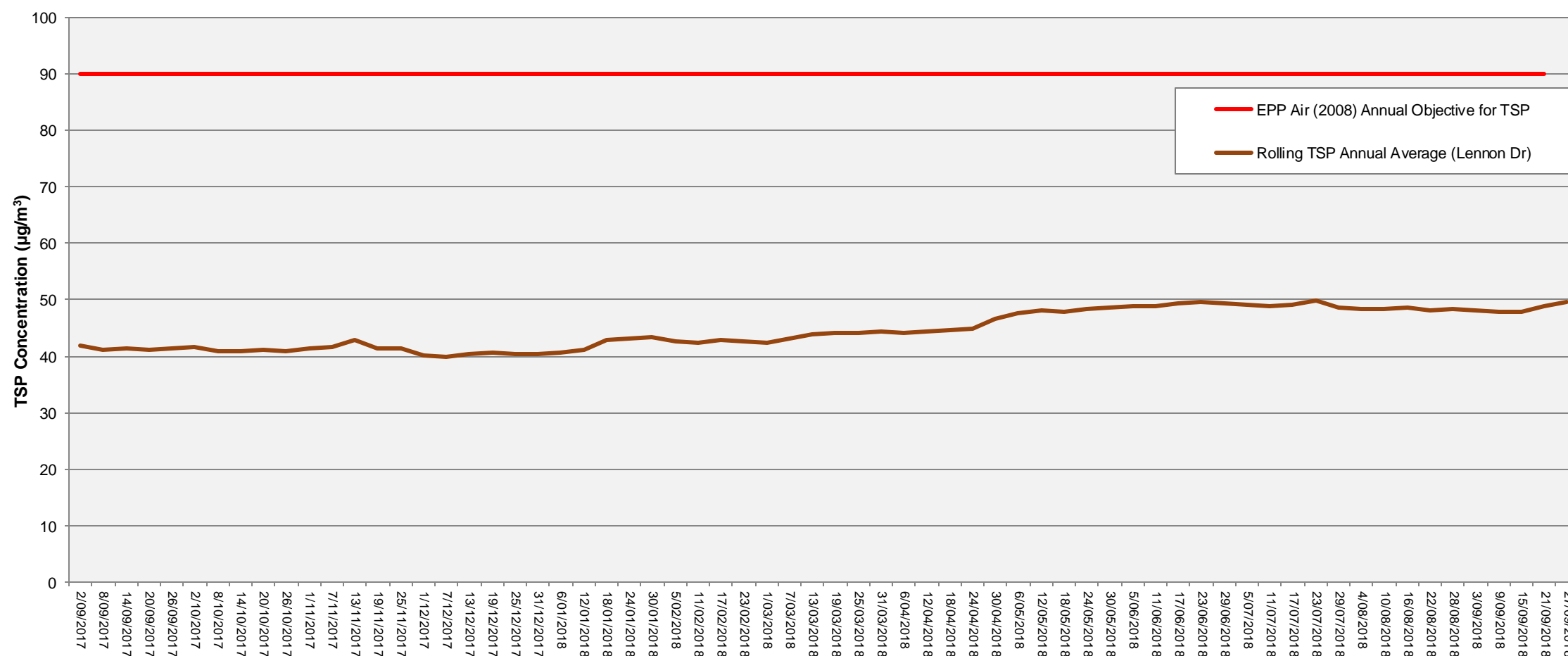
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## Hi-Volume Sampler - General total dust levels (one in six days) at Lennon Drive site SEPTEMBER 2017 – SEPTEMBER 2018

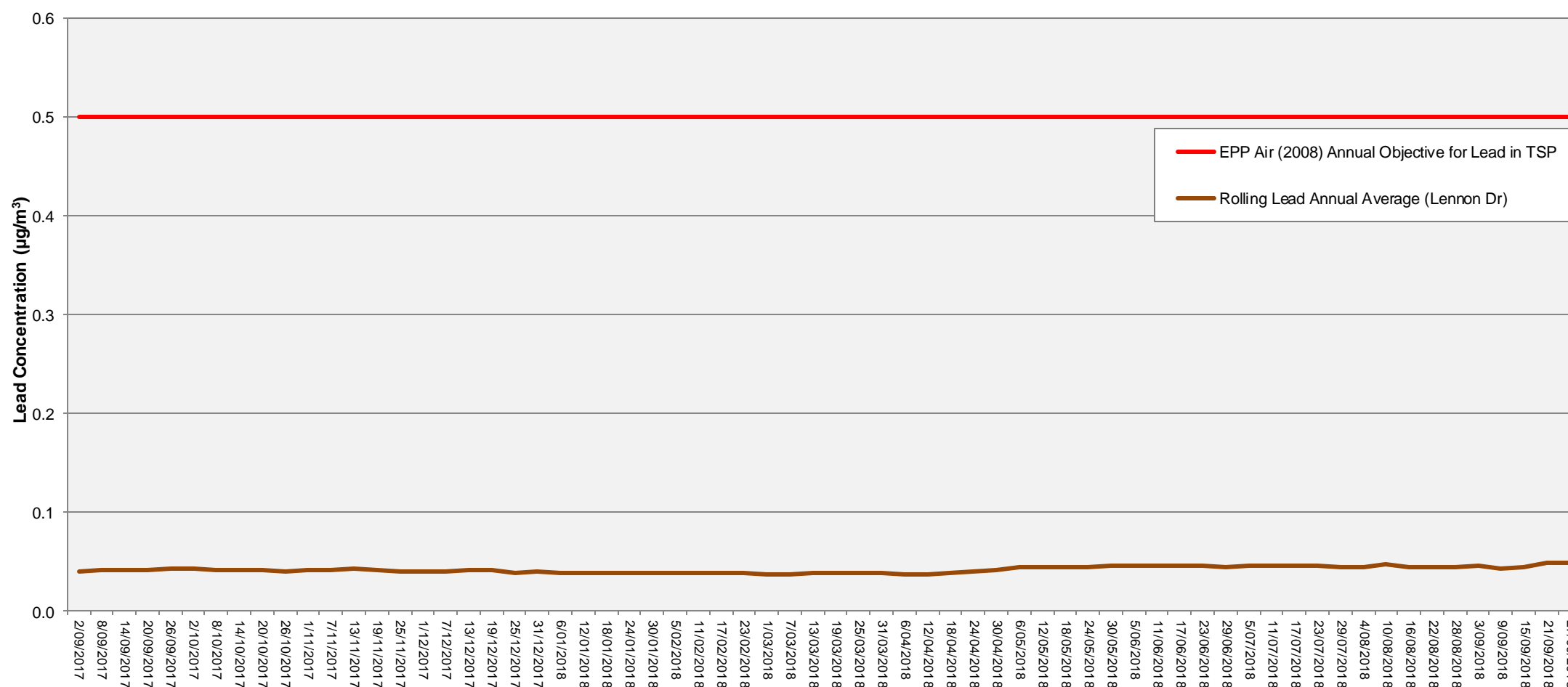


Note:

TSP Concentration units = micrograms per cubic metre per 24 hour period

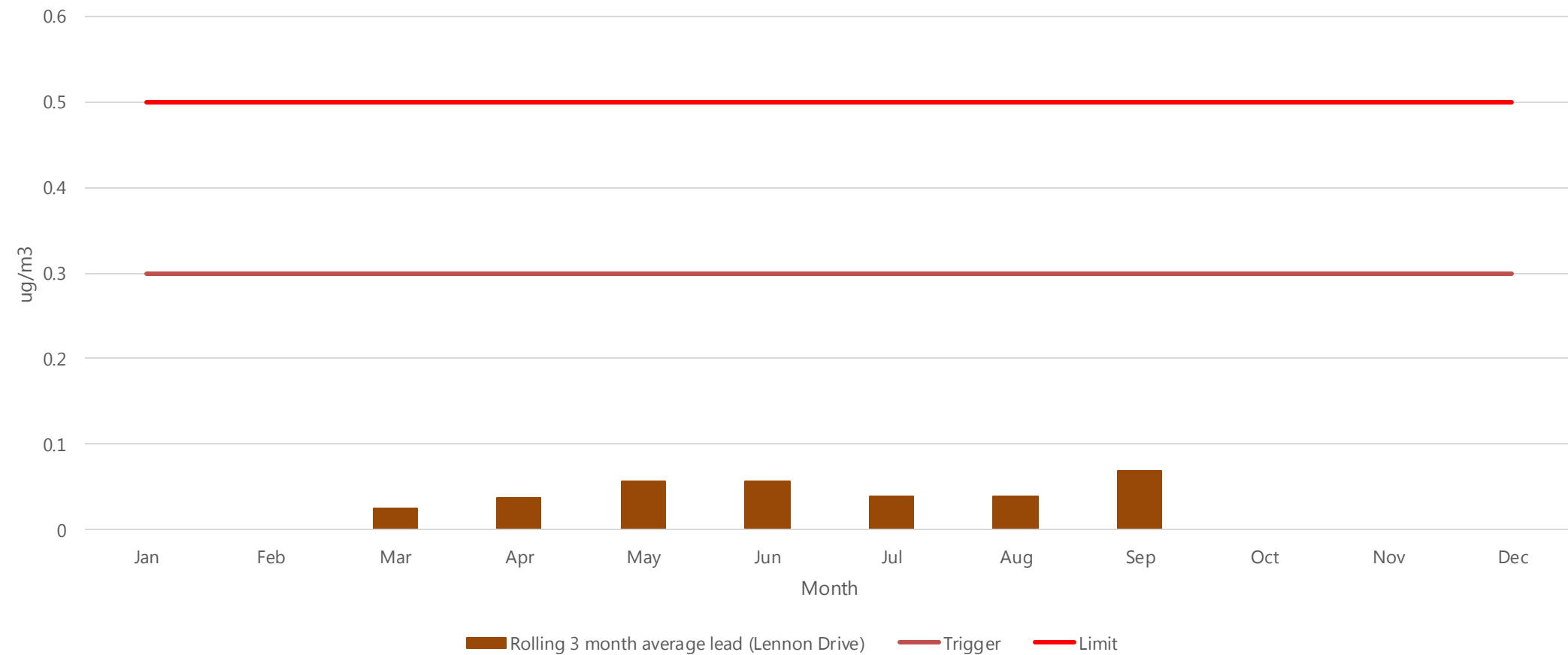
Rolling annual average = the moving average of the previous 11 results and the current result

## Hi-Volume Sampler - Lead in dust levels (one in six days) at Lennon Drive Site SEPTEMBER 2017 – SEPTEMBER 2018



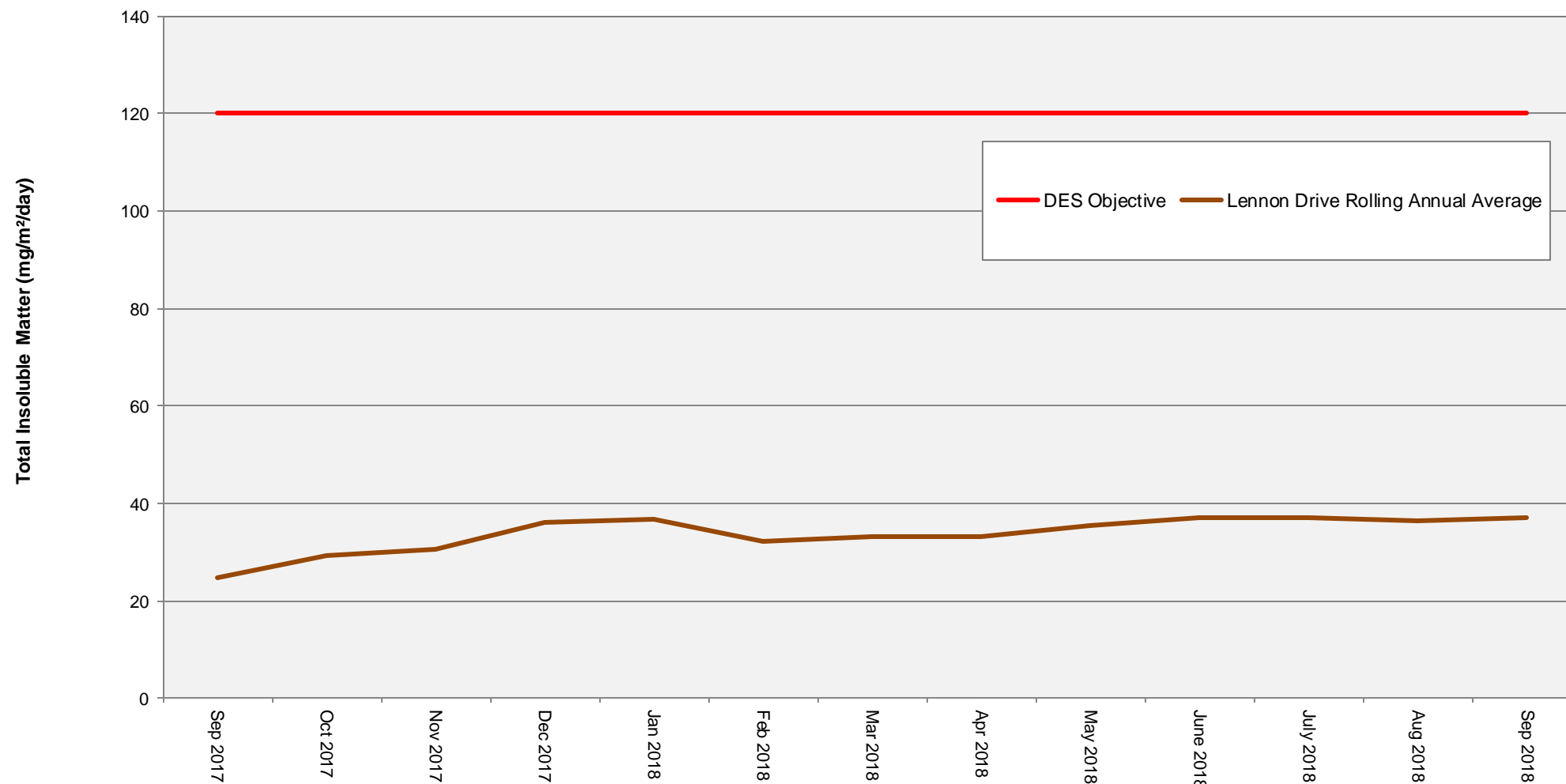
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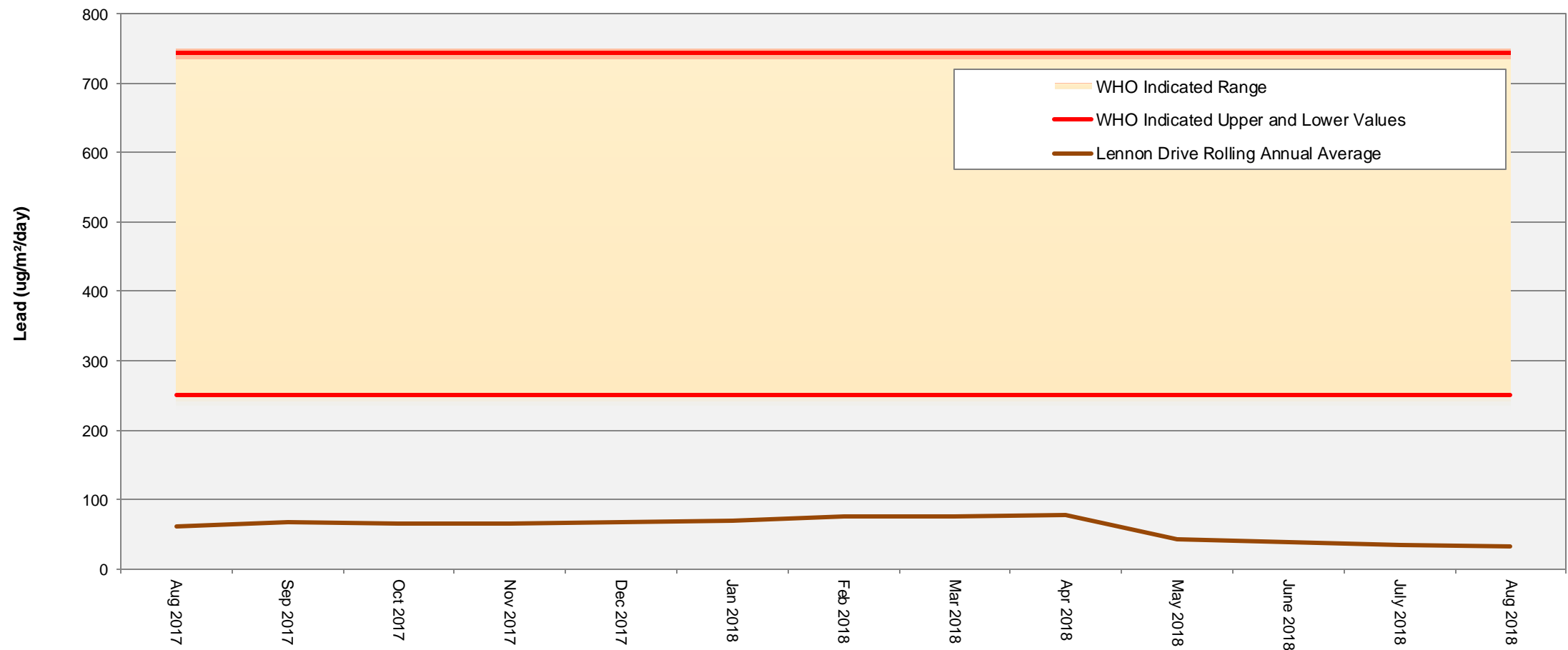
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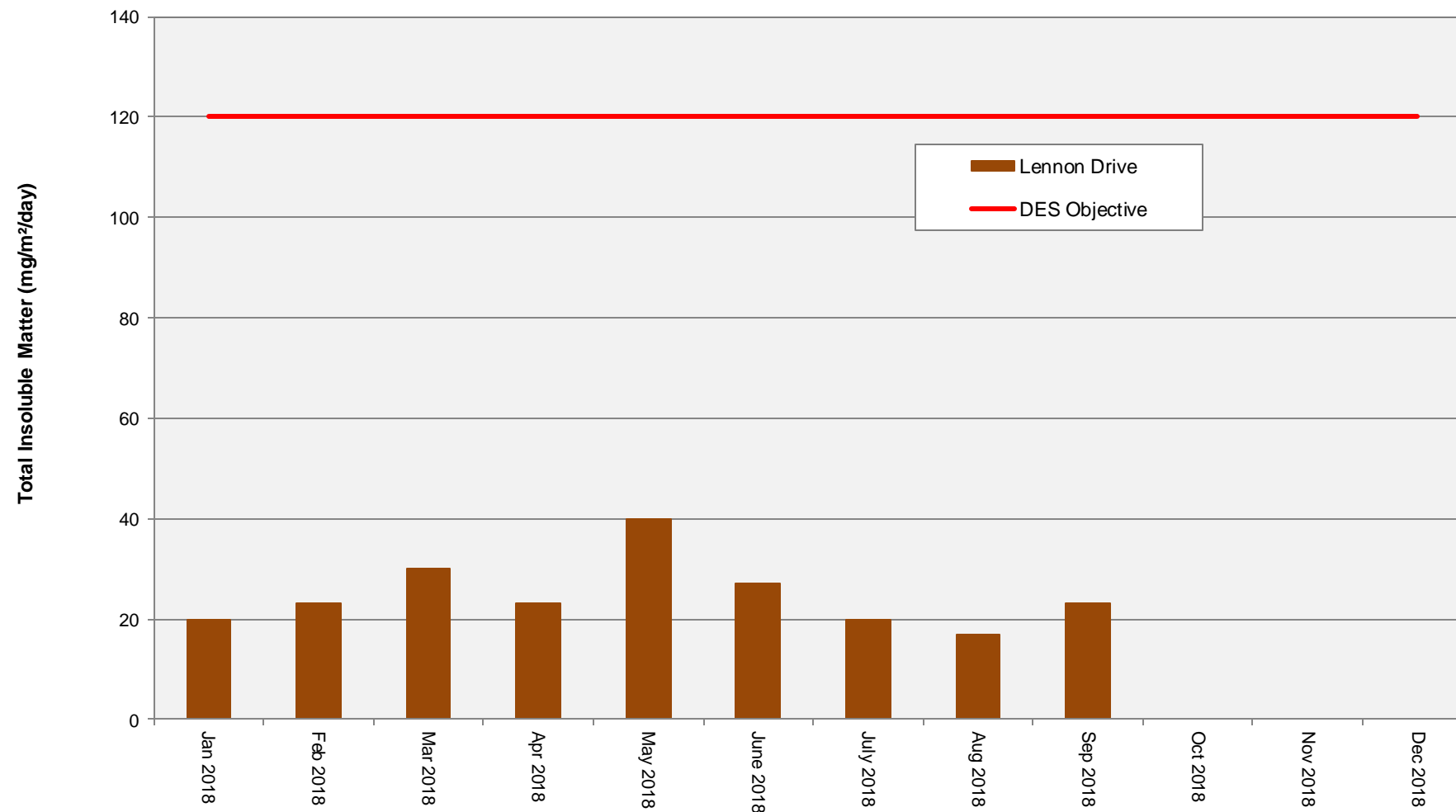


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This statement/advice was provided by Queensland Health in relation to blood lead levels in Townsville in April 2016

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.