

2017-2018 Republic Lead Results- Individual Filters

Updated 8/20/2018

NAAQS = 0.15 $\mu\text{g}/\text{m}^3$ (3-month average)

June 2017 - July 2018
3-Month Rolling Average




Units – $\mu\text{g}/\text{m}^3$											
Jun17- Aug17	Jul17- Sept17	Aug17 -Oct17	Sept17 -Nov17	Oct17- Dec17	Nov17 -Jan18	Dec17- Feb18	Jan18- Mar18	Feb18- Apr18	Mar18- May18	Apr18- Jun18	May18- Jul18
0.11	0.08	0.05	0.08	0.07	0.06	0.02	0.05	0.06	0.20*	0.18*	0.19*

*See next slide related to this exceedance and actions taken

May 2018 Exceedance and Actions

- 🛡️ On June 27, 2018, the laboratory results for May 2018 filters were received by Canton Air Pollution Control (APC). These results showed that high emissions on May 20, 2018 caused a violation of the National Ambient Air Quality Standard (NAAQS) for lead. Canton APC immediately notified Republic Steel and Ohio Environmental Protection Agency (Ohio EPA) of this exceedance.
- 🛡️ On June 29, 2018, the Director of the Ohio EPA issued [unilateral orders](#) to Republic Steel in Canton to immediately cease leaded-steel operations due the exceedance of the NAAQS for lead. The company can continue production of steel that does not contain lead alloy.
- 🛡️ The orders also require the company to develop and implement a plan to reduce lead emissions before the facility can resume production of leaded steel alloy. The orders further require the company to complete a stack test to demonstrate the company's ability to meet the lead air quality standard.

May 2018 Exceedance and Actions (cont)

-  Canton APC and Ohio EPA will be working hand in hand to ensure that Republic Steel meets the terms of the Ohio EPA orders. Leaded-steel production cannot resume without permission from Ohio EPA. After production resumes, the agencies will ensure that Republic Steel remains in compliance with clean air standards and its operating permits.
-  According to the Ohio EPA, the amount of lead measured on May 20, 2018 at the ambient monitor close to the facility operated by Canton APC was many times lower than levels that would cause short term health effects. The national air quality standard for lead is based on long-term exposures with a generous safety factor to protect sensitive at-risk individuals, including children. The air around Republic Steel has been monitored for the past year, and this is the first violation of the NAAQS.
-  Laboratory analysis for the filters collected at the ambient monitors in June 2018 through June 27, 2018 were expedited and the results show the measured lead values are much lower than the values measured in May 2018.

2017-2018 Republic Lead Results- Composite Filters

Updated 8/20/2018

NAAQS = 0.15 $\mu\text{g}/\text{m}^3$ (3-month average)

June 2017 - July 2018
3-Month Rolling Average

Units – $\mu\text{g}/\text{m}^3$											
Jun17- Aug17	Jul17- Sept17	Aug17 -Oct17	Sept17- Nov17	Oct17- Dec17	Nov17 -Jan18	Dec17- Feb18	Jan18- Mar18	Feb18- Apr18	Mar18- May18	Apr18- Jun18	May18 -Jul18
0.10	0.08	0.05	0.08	0.07	0.07	0.02	0.04	0.05	0.18*	0.17*	0.17*

*See previous slide related to this exceedance and actions taken

2017-2018 Republic PM10 Results

Updated 8/20/2018

NAAQS = 150 $\mu\text{g}/\text{m}^3$ (24-hour average)

December 2017 - July 2018

Highest 24-hour Average per Month
Meets Standard

Units – $\mu\text{g}/\text{m}^3$							
Dec17	Jan18	Feb18	Mar18	Apr18	May18	Jun18	Jul18
22.0	16.6	44.1	50.1	56.8	96.0	58.0	39.0

2017-2018 Republic PM₁₀ Results- Manganese

Updated 8/20/2018

Federal Guideline = 0.30 $\mu\text{g}/\text{m}^3$ (annual average)

December 2017 - June 2018

Annual Average

(average of time period available excluding less than detectable values)

Meets Standard

Manganese Average = 0.149 $\mu\text{g}/\text{m}^3$

What are the standards set by federal government?

- 🛡️ There is a National Ambient Air Quality Standard (NAAQS) for lead – 0.15 $\mu\text{g}/\text{m}^3$ - 3 month rolling average
- 🛡️ There is a National Ambient Air Quality Standard (NAAQS) for PM₁₀ – 150 $\mu\text{g}/\text{m}^3$ – 24-hour average
- 🛡️ There is a guideline for manganese of 0.30 $\mu\text{g}/\text{m}^3$ PM₁₀, long-term (annual) set by federal government - Agency for Toxic Substances and Disease Registry (ATSDR)