

Newport Plant Fugitive Emissions Report Summary for 2016

Introduction

It is a requirement of our permit to review fugitive emissions annually. The fugitive emission review covers all aspects of the Newport Plant operation;

Results

The fugitive emissions considered to be a medium risk from analysis of 2016 data are:

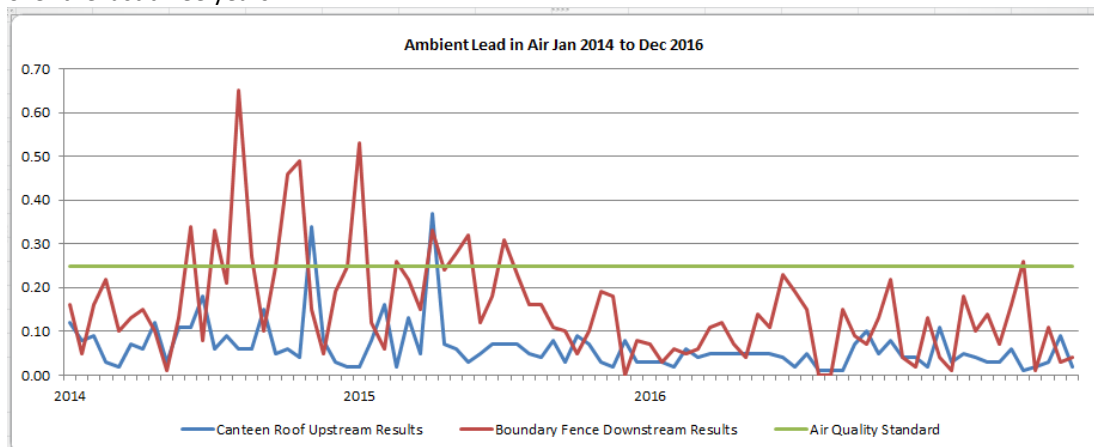
- A4 stack, grey oxide blower, Cell 1B. One occurrence in November of the stack emitting lead at 0.59mg/m³, which is above the current emission limit of 0.25mg/m³. A4 has been tested close to the current agreed limit on numerous occasions. As part of the permit variation currently being reviewed EnerSys are proposing to increase this limit to 0.75mg/m³, which is still well below the BAT level of 1.0mg/m³ for lead. Natural Resources Wales are currently reviewing this proposal.
- Occasional open doors and windows in Metallics, Assembly, Maintenance Toolrooms and Waste Management allowing fugitive emissions to escape. There are new projects for 2017 in these areas to ensure doors and windows are closed amongst other actions. These are building upon the fugitive emissions reduction work that has been ongoing in the last few years.
- No equipment or tools with lead on them can be stored outside. Any such items can only be moved between buildings if lidded or wrapped in plastic. The key message is lead containment at source reducing both environmental and occupational health exposure.

BAT Conclusions

As part of the review against the BAT Conclusions for the Non-ferrous Metals Sector two areas were highlighted as requiring further improvement. These were BAT Conclusions 5 and 6 regarding fugitive emissions. We have commenced a fugitive emissions reduction plan in 2017 which will work on specific areas of the factory – Metallics, Assembly, Maintenance Toolrooms and Waste Management and build on the work already done that has reduced the lead in air as evaluated by on site ambient monitors.

Lead Ambient Monitor Results

The downstream, ambient monitor, positioned on the eastern boundary of the site had a rolling average reading of 0.10ug/m³ for 2016, well below the 0.25ug/m³ limit. The upstream, western boundary monitor averages 0.04ug/m³ for 2016. The following graph demonstrates the downward trend in lead emissions over the last three years.



EnerSys remains committed to protecting the environment, preventing pollution and reducing emissions by improving environmental performance.

Paula S. Terrett

Paula Terrett, SHEQ Advisor 2016, March 30th 2017