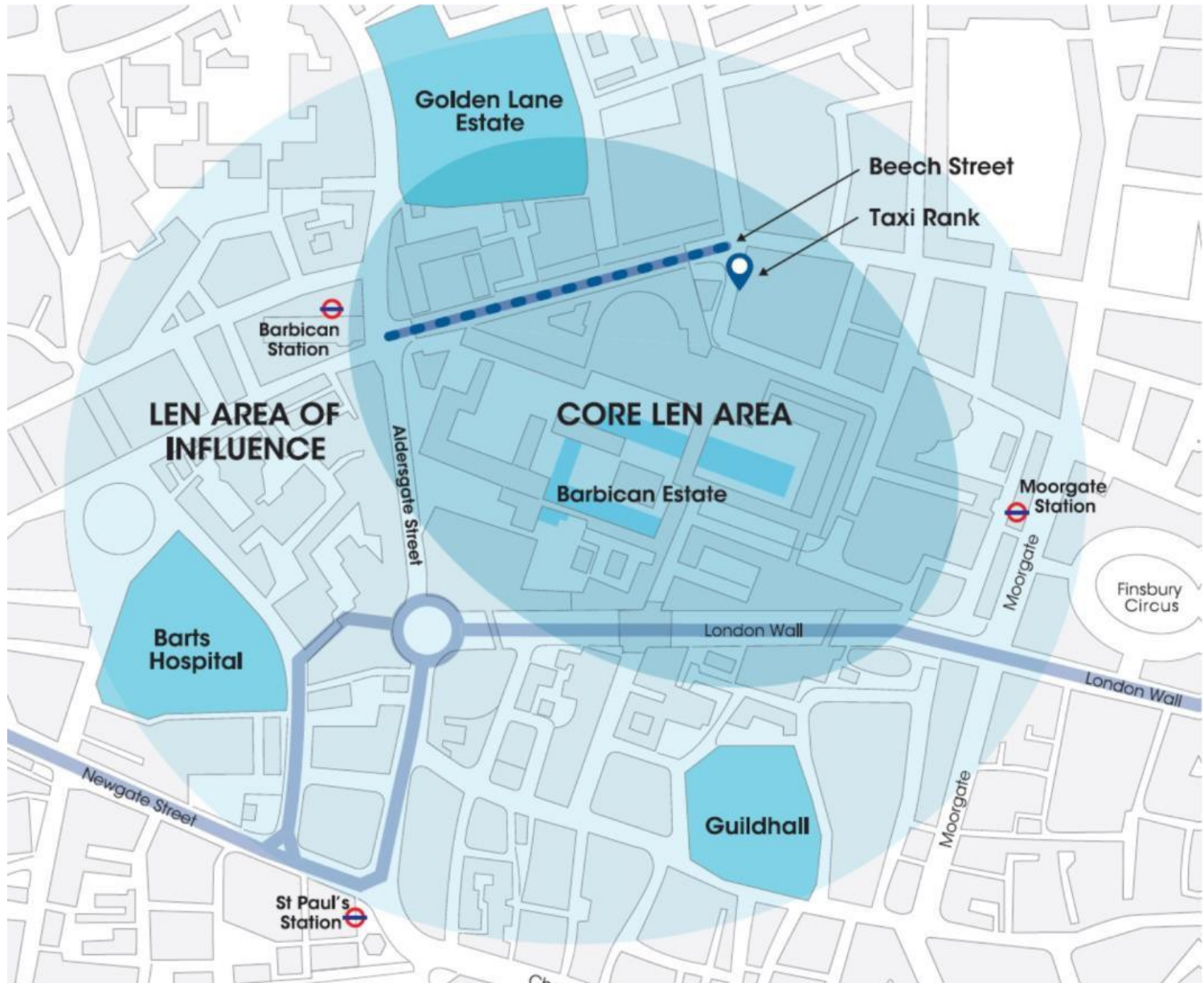


Appendix A: Summary of City of London Low Emission Neighbourhood (LEN) schemes undertaken in 2nd year of the project to August 2018



LEN Area Map

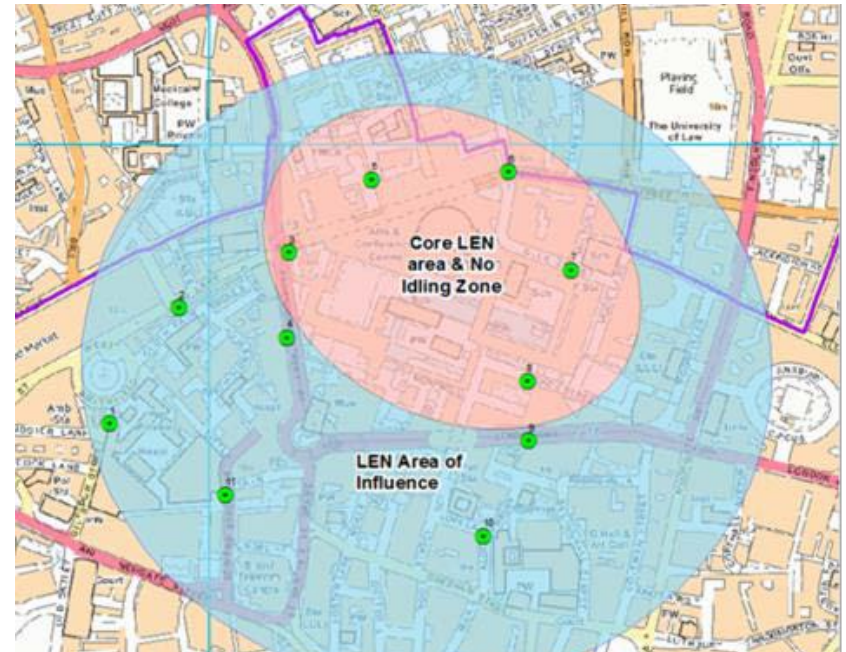


Monitoring

Monitoring of nitrogen dioxide levels by use of diffusion tubes continues across the LEN area. In September 2018, an automatic air pollution monitor will be installed in the eastern area of Smithfield Markets.

Through the CityAir Business Engagement programme, individuals are given the opportunity to monitor particulate matter on their commutes into and around the city.

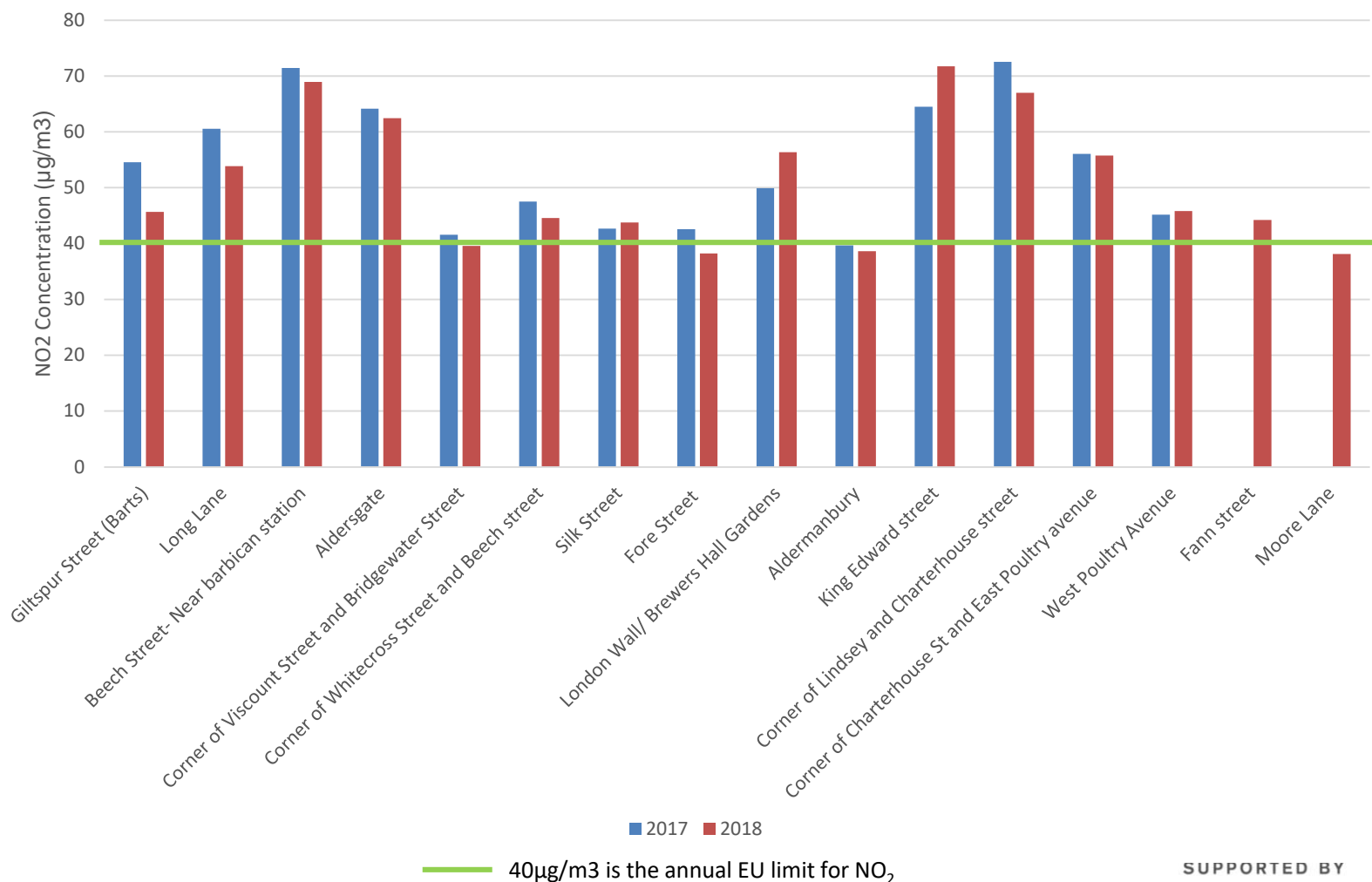
Monitoring in 2018 has shown that the average NO₂ levels across the LEN area have remained steady over the 18 months. Three sites have average pollution levels below the EU legal limits for 2018.



Location of diffusion tubes in LEN area

Monitoring – *Diffusion Tubes*

Average levels of nitrogen dioxide in the LEN area
(40 $\mu\text{g}/\text{m}^3$ is the EU/WHO threshold)



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Engagement – CityAir Newsletter

The City of London Air Quality team is now releasing an e-newsletter every 2 months. Every newsletter contains regular updates of the LEN initiatives that have been implemented or are on-going.

To subscribe to the newsletter please follow the link under the *Stakeholder Engagement and Awareness Raising* section of the LEN webpage: <https://www.cityoflondon.gov.uk/LEN>

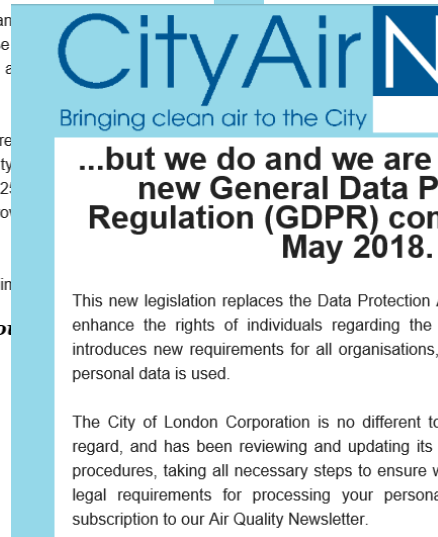
Past copies of the newsletter can be found here:

March – July 2018:

<https://us12.campaign-archive.com/home/?u=3b542c4538287dc627a7a3632&id=388e83f5c1>

November 2017 – January 2018:

<https://us16.campaign-archive.com/home/?u=2e161f03ef0fa6d5e10439d77&id=6aabd6be43>



Engagement – *Pop Up Events*

The LEN project continues to raise awareness of air quality issues and interventions through one-off pop up events and stalls. In the last year, the LEN project officers have participated at a range of events including:

- Cycle to Work Day pop up breakfast stall September 2017
- Have your Say @ Museum of London November 2017
- Clean City Awards January 2018
- Resident's Meeting May 2018



Engagement – *City in Bloom Celebration November 2017*

Throughout 2017, the LEN project supported Friends of City Gardens to deliver the City in Bloom, Clean and Green for Seventeen challenge, part of the Royal Horticultural Society's (RHS) *City in Bloom* and Greening Grey Britain campaign.

Over the year, 19 Clean Air Gardens were designed and installed by a variety of participants, including residents, community groups and several businesses in the local area. These Clean Air gardens range from open spaces, to planters, through to plant pots – the idea to promote greening and clean air wherever possible, using specific plants to trap particulate matter whilst enhancing biodiversity.

To celebrate the achievements of all involved, in November 2017 the LEN and FoCG teamed together to host a celebration evening.



City in Bloom 2017
The Clean Air Gardens

Engagement – *Air Quality themed walks*

In March 2018, as part of OpenFest, Citizen Sense, the Museum of London and the LEN partnered together for a Phytosensor walk.

This hour long walk around the Urban Gardens in the Barbican area involved learning about air quality plants, and was followed by a workshop. The toolkit is available:

<https://www.museumoflondon.org.uk/discover/phyto-sensor-toolkit-citizen-sense-air-pollution>

In June 2018, to celebrate the Open Gardens and Squares Weekend, LEN project officer and Friends of City Gardens volunteers led hour long walks, around the 'Clean Air gardens' across the Barbican Estate. This provided a great opportunity to share LEN initiatives and outcomes with a variety of people from further afield.

All walks so far have been well-attended, with a manageable size of ~15 people per walk.



Engagement – City of London Girls School

In May 2018, the LEN project officer worked with Friends of City Gardens and MACE to run a day of air quality learning and hands-on gardening experience for Year 8 pupils from City of London Girl's school.

The groups of girls alternated between planting the garden, and an interactive Air Quality lesson held on the Barbican Podium, learning about the sources of air pollution, the health costs and brainstorming ways to both reduce personal exposure and contribute to improving air quality.

The Moor Lane Bridge garden is now being maintained by Friends of City Gardens volunteers.



Engagement – *Breathe: A Green Lung installation*

The LEN project funded an art installation at the Barbican Centre. *Breathe: A Green Lung* was exhibited in the central foyer of the Barbican Centre from March – May 2018.

Breathe: A Green Lung

13 Mar – 7 May 2018

An installation reflecting upon the interactions between people and plants, that are essential for creating healthier cities.

A lack of clean air is a recognised problem in urban areas. One way of addressing this is by increasing the amount of plants we have in our buildings, and the spaces around them. By creating 'living walls' (structures often made of foliage, flowers and trees), we allow these organic systems to purify the air we breathe, both indoors and outdoors. Plants absorb carbon dioxide through their root systems and trap other polluting matter, and *Breathe: A Green Lung* is a creative interpretation of the 'ecosystem services' they are providing.

The installation comprises two living wall structures forming a triangular enclosure, with openings that provide vantage points to view an inner sanctuary with stained-glass greenhouse inside. You're invited to immerse yourself in the sound and light that emanates from inside and contemplate the new relationships we must continue to forge with the natural world.

Devised by Cityscapes with Heywood & Condie and delivered in partnership with Treebox by Biotecture. The project is funded as part of the City of London Corporation's Low Emission Neighbourhood (LEN) project and is supported by the Mayor of London.



Business Engagement – *CityAir Lunchtime workshops*

Recent workshops include:

'Monitoring Air Quality' hosted at T. ROWE. Price in November 2017 – Andrew Grieve, Kings College London discussed recent research looking at pollution on commuting journeys, and the potential link between 'no-idling' action events and reduction in local pollution during those events.

'Building Engineer Toolkit' hosted at Linklaters in May 2018. The toolkit provides case studies and initiatives to reduce air pollution as a result of building emissions (heating, employee transport, delivery and servicing). The updated toolkit can be found on the LEN webpage – www.cityoflondon.gov.uk/cityair

The next Business Engagement lunchtime workshop in November 2018 will see the launch of an updated **Supply Chain Guide**, providing case studies and methods to incorporate air quality improving measures at all stages of the supply chain, from procurement contracts through to fleet services.



Business Engagement – *Air Quality Champions Grant Scheme*

£70,000 has been awarded to City businesses as Air Quality Grants. A range of initiatives are being funded through the grant, including:

- Air Quality planters - *Business Environment, 45 Beech Street*



- Green Screen - *Prior Weston Primary School*



- *Cycle parking and improved provision of cycle and shower facilities*



Residential Electric Vehicle Charging Points

The LEN project funded the installation of 23 charging units (of different charging capabilities – 3kW, 7kW, 22kW), servicing 30 bays, across five car parks on the Barbican Estate: Breton, Bunyan, Cromwell, Thomas More and Willoughby.

Chargemaster UK were commissioned to provide and install the charging units, and on 14th May 2017, the units went live, accompanied by a Launch event.

Over 80 people attended both the afternoon demonstrations and the evening reception, which included presentations regarding the Low Emission Neighbourhood project, the pilot trial, and the attitude toward EV's in London and across the UK.



Cargo Bike delivery scheme

In December 2017, the LEN project funded the implementation of a pilot cargo-bike delivery service operating out of Smithfield Market car park to deliver anywhere in the EC and WC postcodes.

This project supported Zedify, a collaborative cargo bike operation between two cargo bike delivery companies, RechargeCargo and Outspoken.

Beginning mid-December, this scheme offered meat traders the opportunity to use a air-quality improving and sustainable method of delivery for the extra deliveries over the Christmas period.

After a successful trial, and increasing interest from businesses within the vicinity of Smithfield Market, the initial trial scheme was extended into early 2018, and has since continued to grow.

From an initial 2 bikes, Zedify has now expanded their team at the Smithfield Market base, adding more bikes and hiring a full time operations manager for this site. The LEN project continues to promote this delivery scheme to businesses in the area.

This initiative received a wide-range of press coverage in a variety of medias, a selection of which are linked here:



<http://news.cityoflondon.gov.uk/new-air-pollution-busting-cargo-bike-scheme-launches-in-square-mile/>
<https://www.airqualitynews.com/2018/01/04/square-mile-businesses-offered-zero-emission-deliveries/>
<http://www.citymatters.london/city-valentines-day-flower-delivery-clean-air/>
<https://news.cityoflondon.gov.uk/city-florist-delivers-200-clean-air-valentines-bouquets/>