

Barbican Air Quality Champions



Sarah Hudson

ba_sustainability@btinternet.com

Citizen Science Air quality mapping project Oct 2013 – Oct 2014

NO₂:

48 residents hosted 69
diffusion tubes for a
year

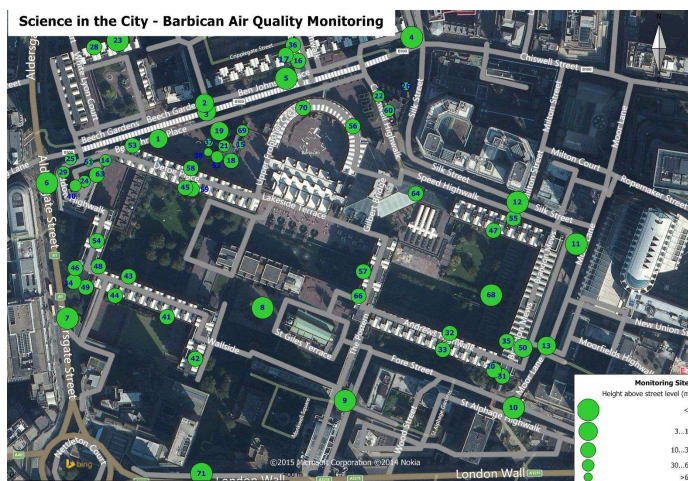
PM_{2.5}:

21 residents hosted
SidePak Aerosol
Monitors/GPS for one
week



Over 100 residents took part in meetings or
completed interviews and questionnaires

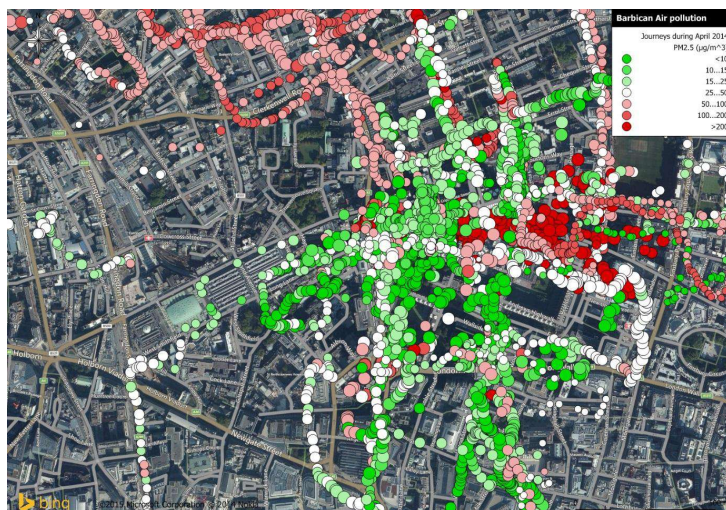
Barbican NO₂ monitoring sites



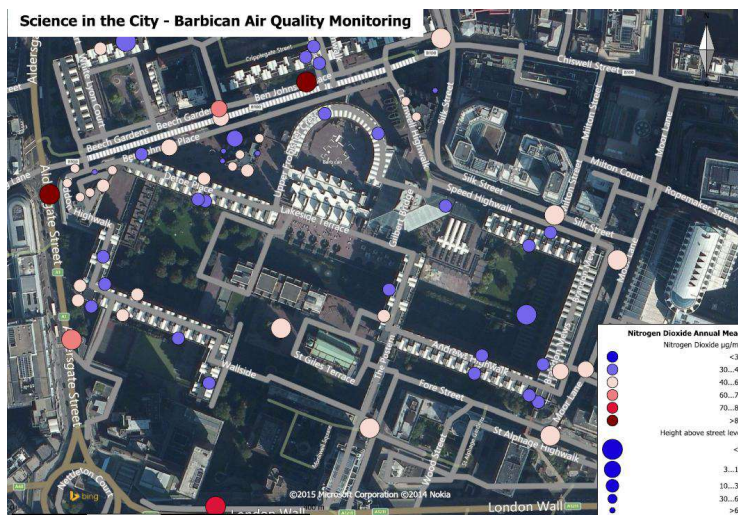
PM_{2.5} monitoring journeys

April 2014

32 journeys by 8 individuals

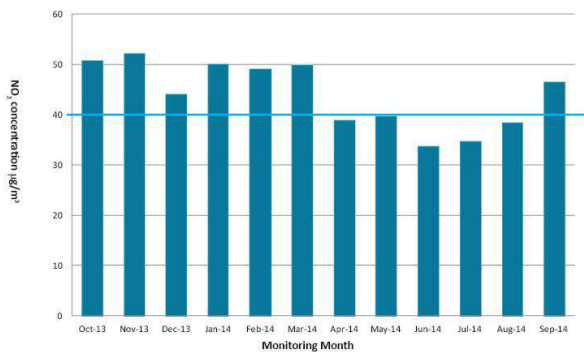


NO₂ monitoring results



NO₂ monitoring results

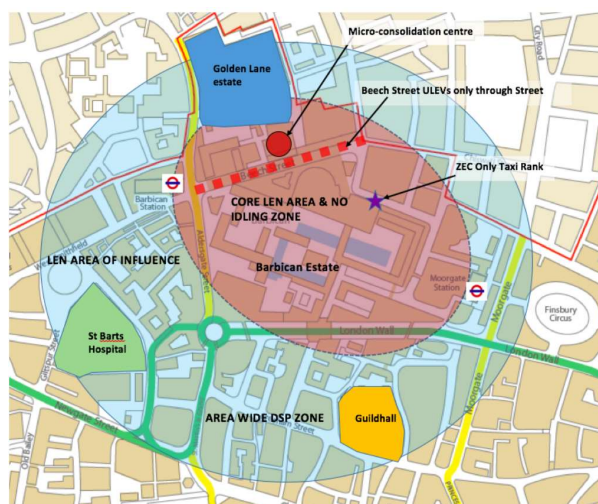
- average for the year 44.03 $\mu\text{g}/\text{m}^3$
- 7 out of the 12 months had levels above 40 $\mu\text{g}/\text{m}^3$
- Beech Street tunnel closed 21 June to 15 August



Residents' wish list

- Traffic restriction and control of polluting vehicles
- Green infrastructure
- Control of emissions from construction sites

What happened next Low Emission Neighbourhood



What happened next

Idling engine action days



What happened next

Greening



References

- Mapping for Change - Barbican air quality map
<https://communitymaps.org.uk/project/air-quality-monitoring?center=51.5191:-0.0932:17>
- City LEN
<https://www.cityoflondon.gov.uk/business/environmental-health/environmental-protection/air-quality/Pages/Low-Emission-Neighbourhood.aspx>