



THE FESTIVAL OF THRIFT

14 & 15 SEPTEMBER 2019

KIRKLEATHAM, REDCAR TS10 5NW

Clean Air and Festival of Thrift – what do you think you know?

June 27th 2019

Tracy Hilton and Stella Hall

Presentation Overview

- Air Pollution – What's all the fuss about?
- European and national context
- Impact of pollution on health and the environment
- Where do the pollutants come from?
- Has Middlesbrough and Redcar and Cleveland cleaned up their air?
- Local air quality monitoring
- South Tees Clean Air Strategy coming soon
- Festival of Thrift – How are we working together?

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Air Pollution – What's the fuss?



- Air pollution is the greatest environmental threat to health in 2019 (World Health Organisation)
- Air pollution can severely harm your health and kill you

European and National Context

- EU Ambient Air Quality Directive (2008/50/EC)
- Local Air Quality Management – Part 1V Environment Act 1995
- 25 Year Environment Plan (2018) – sets out goals to achieve clean air and protect the environment
- Client Earth– 3rd High Court victory over UK governments plan to tackle air pollution
- Clean Air Strategy 2019 – a tool to tackle air pollution
- UK commitment to ‘net zero’ greenhouse emissions by 2050

Air Pollution Matters!

- 7 million deaths worldwide (WHO, **2018**)
- 28,000 to 36,000 deaths annually in UK (PHE, 2019)
- Every death attributable to air pollution is one to many!

Elli Kissi-Debrah, 9 year's old



(photo Copyright BBC website)

Died in 2013 from acute respiratory failure and severe asthma

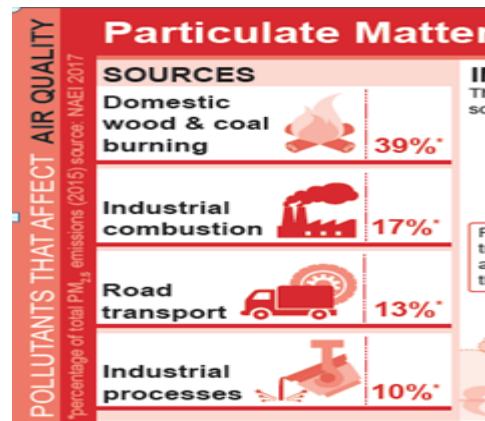
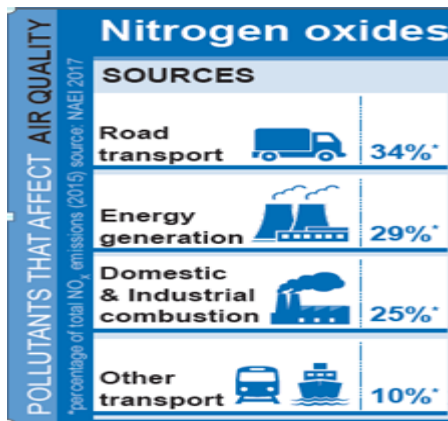
2018 report: Likely that unlawful levels of pollution detected at a monitoring station one mile from Elli's home contributed to her fatal asthma attack.

Air pollution – Wildlife, Habitat & Plant impact

- Animals inhale, ingest and absorb air pollution
- Acid deposits harm water quality, plant and soil health
- Ammonia is toxic to fish, enriches water with nutrients, leads to build up of algae and smothering of the river bed
- <http://www.apis.ac.uk/>



Where do air pollutants come from and which are the main ones?



Copyright, Choreograph

The Great Smog of 1952 and London 2014 Smog



Marble Arch – Police using flames to direct traffic in 1952 (copyright, Trinity Mirror/Albany)



General view through fog of the Canary Wharf financial district, 2nd April, 2014 (copyright Dan Kitwood/Getty Images)

How Clean is the Air in Middlesbrough and Redcar and Cleveland?



Anyone heard of the Teesside Mist phenomena?



(copyright Vis Cartoons)



Wilton Emissions

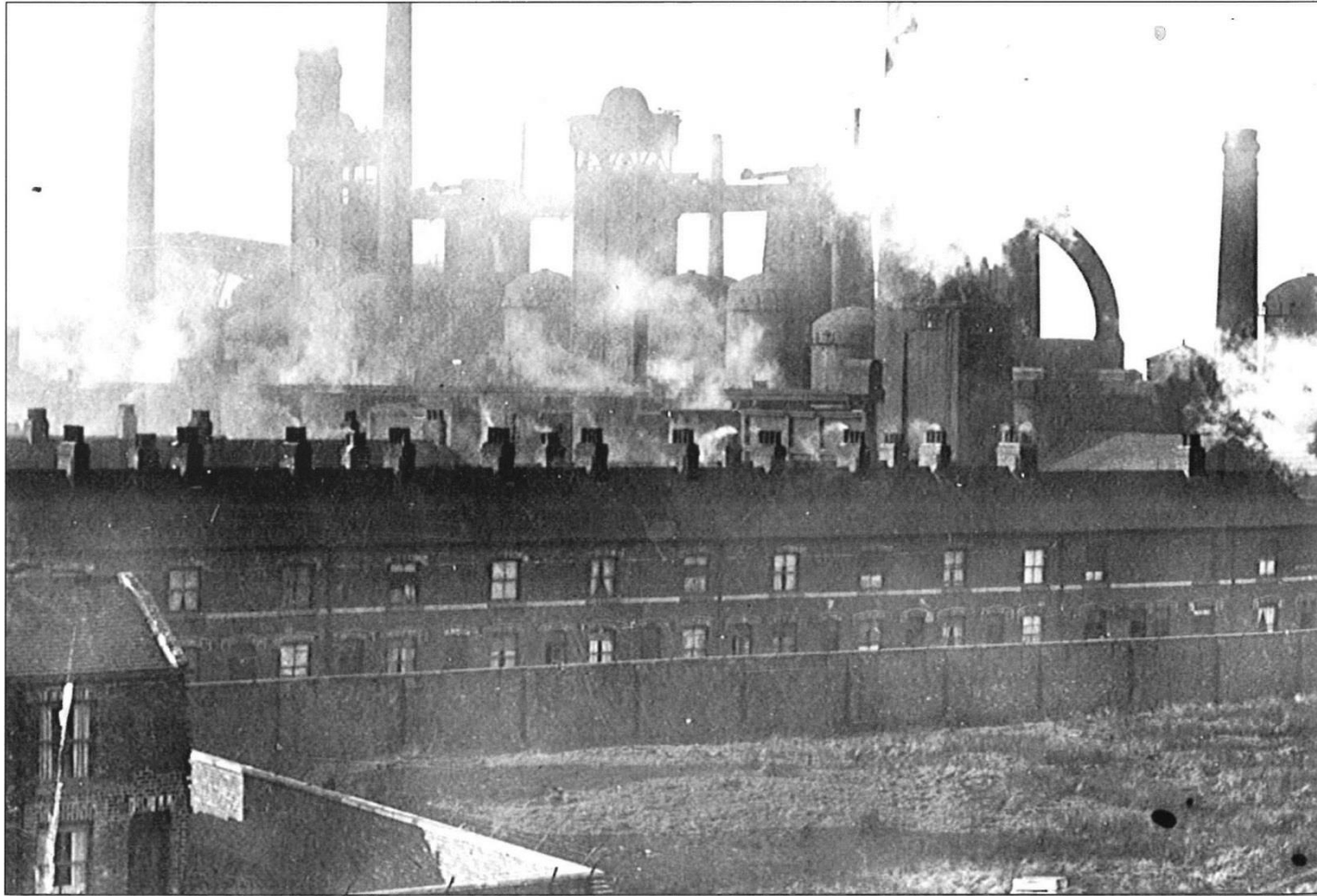
**Wilton ICI December 1973
(copyright East Cleveland Image
Archive)**



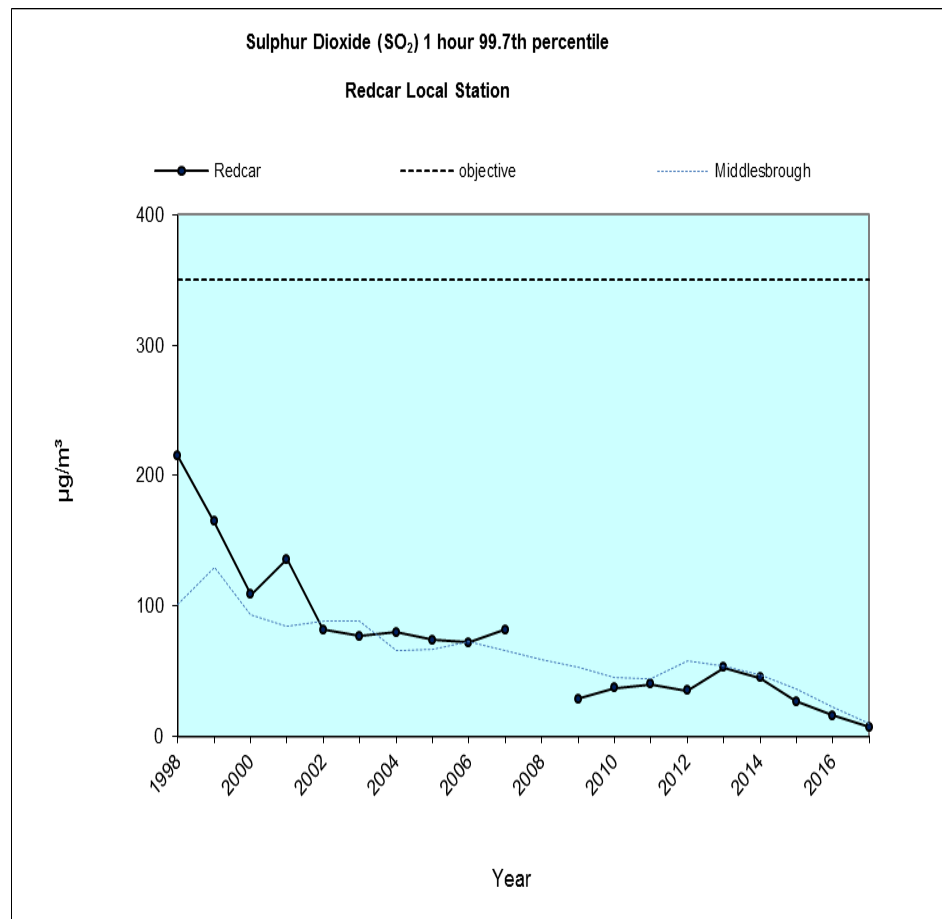
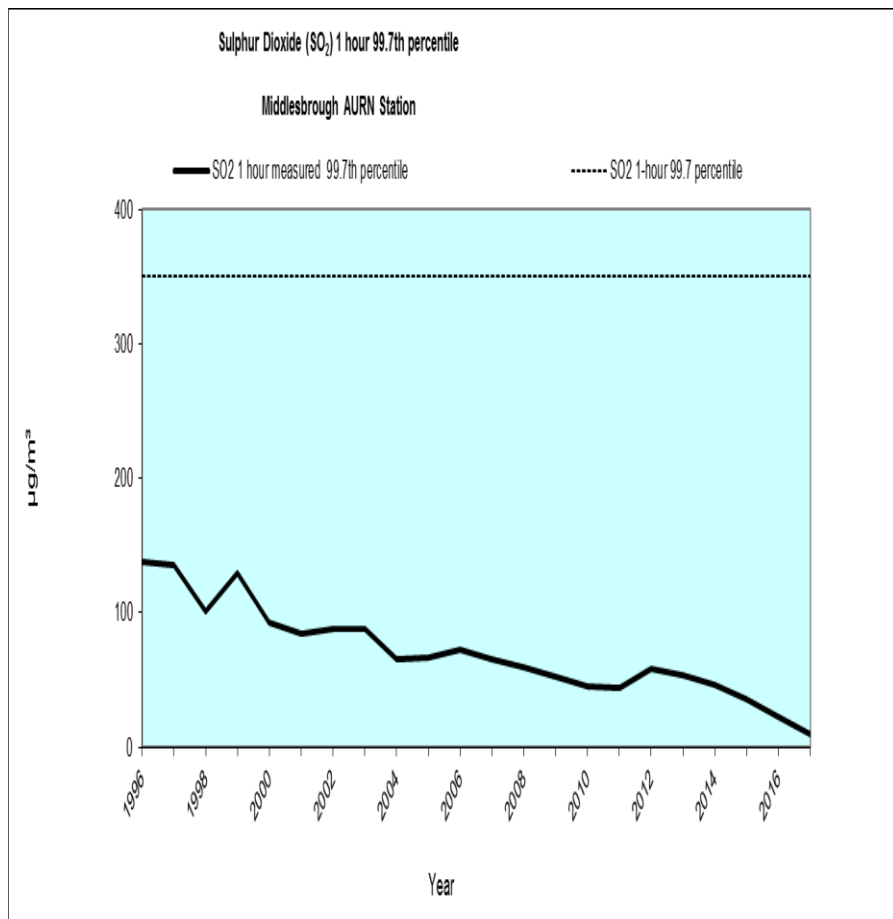
**Wilton (copyright Evening Gazette,
18th July, 2017)**



Middlesbrough - Newport

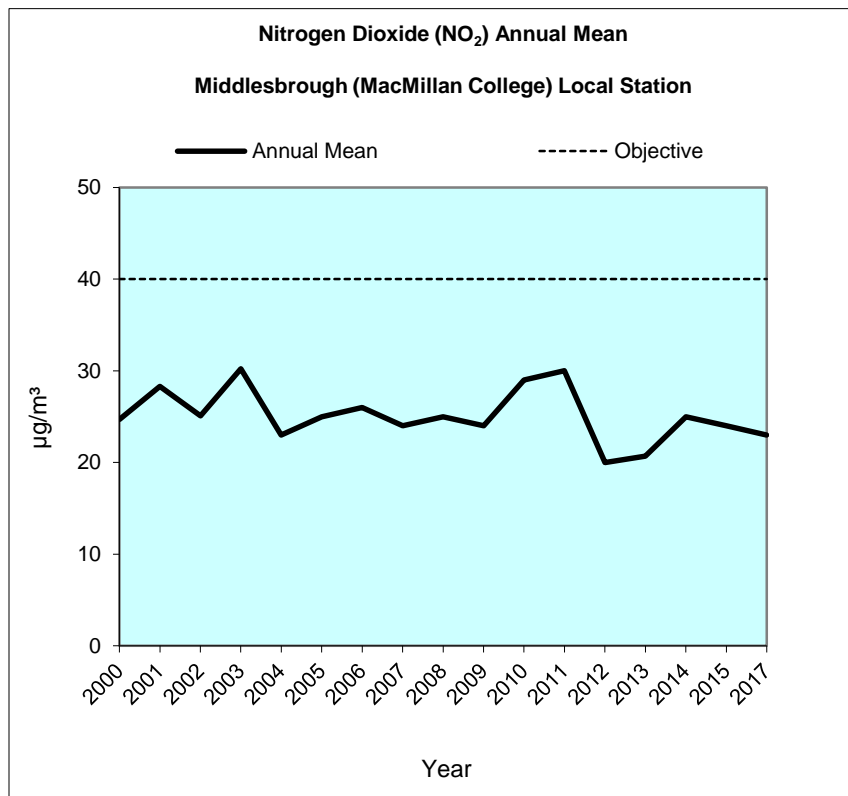


Sulphur Dioxide hourly mean emissions

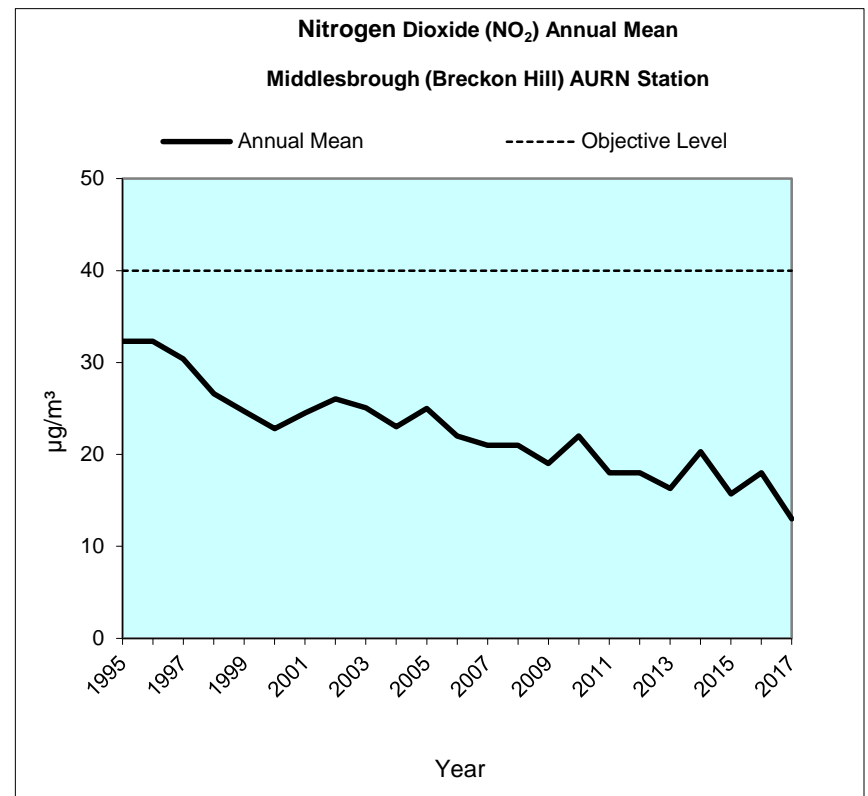


Middlesbrough - Nitrogen Dioxide

Macmillan College Station

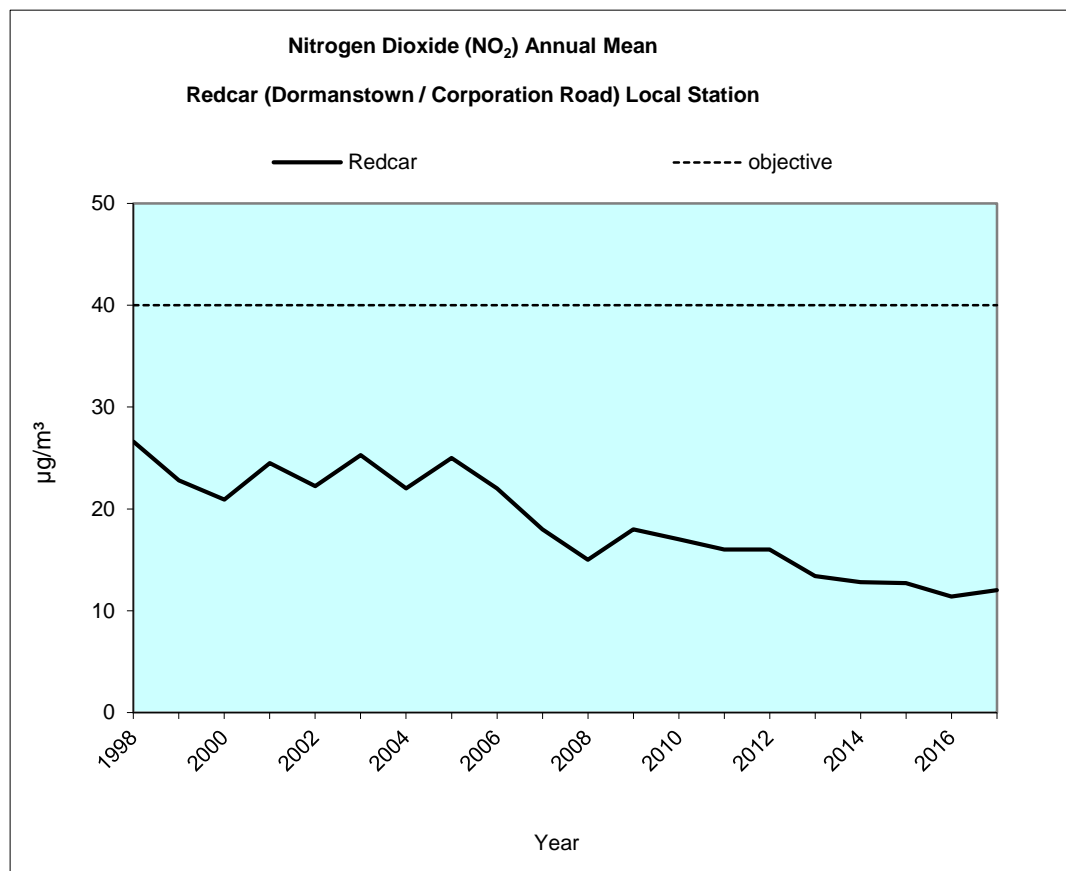


Breckon Hill Station



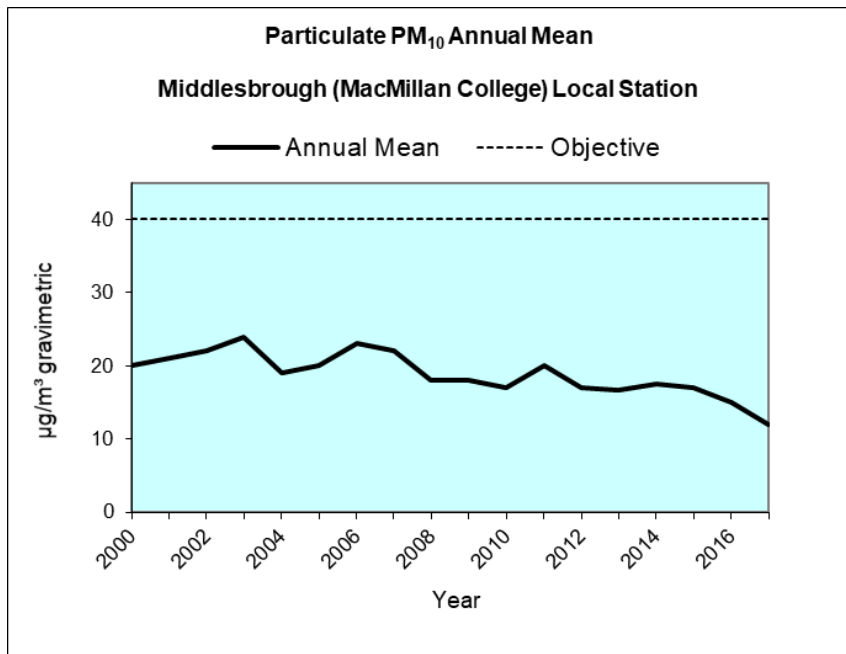
Redcar - Nitrogen dioxide

Redcar Dormanstown / Corporation Road

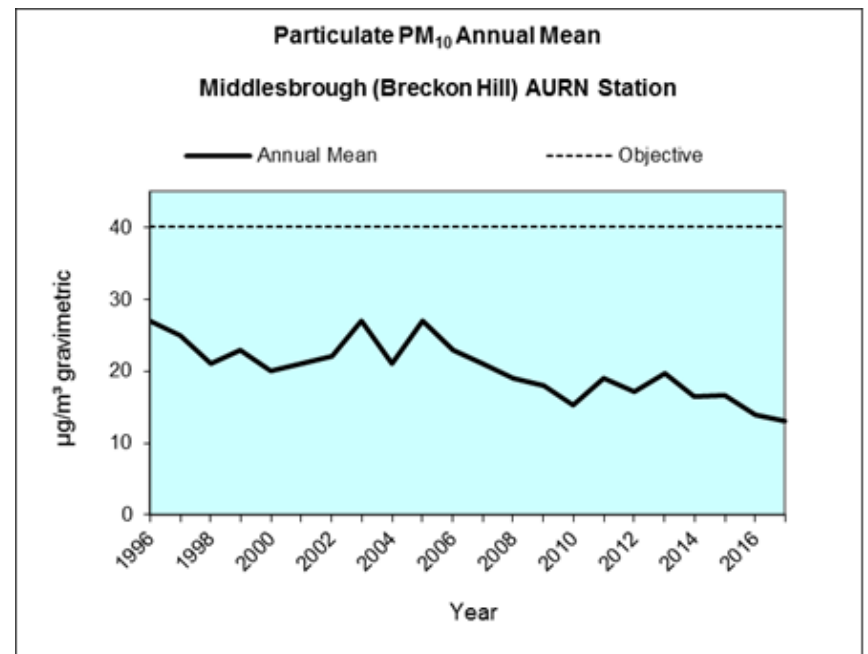


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Macmillan College Station

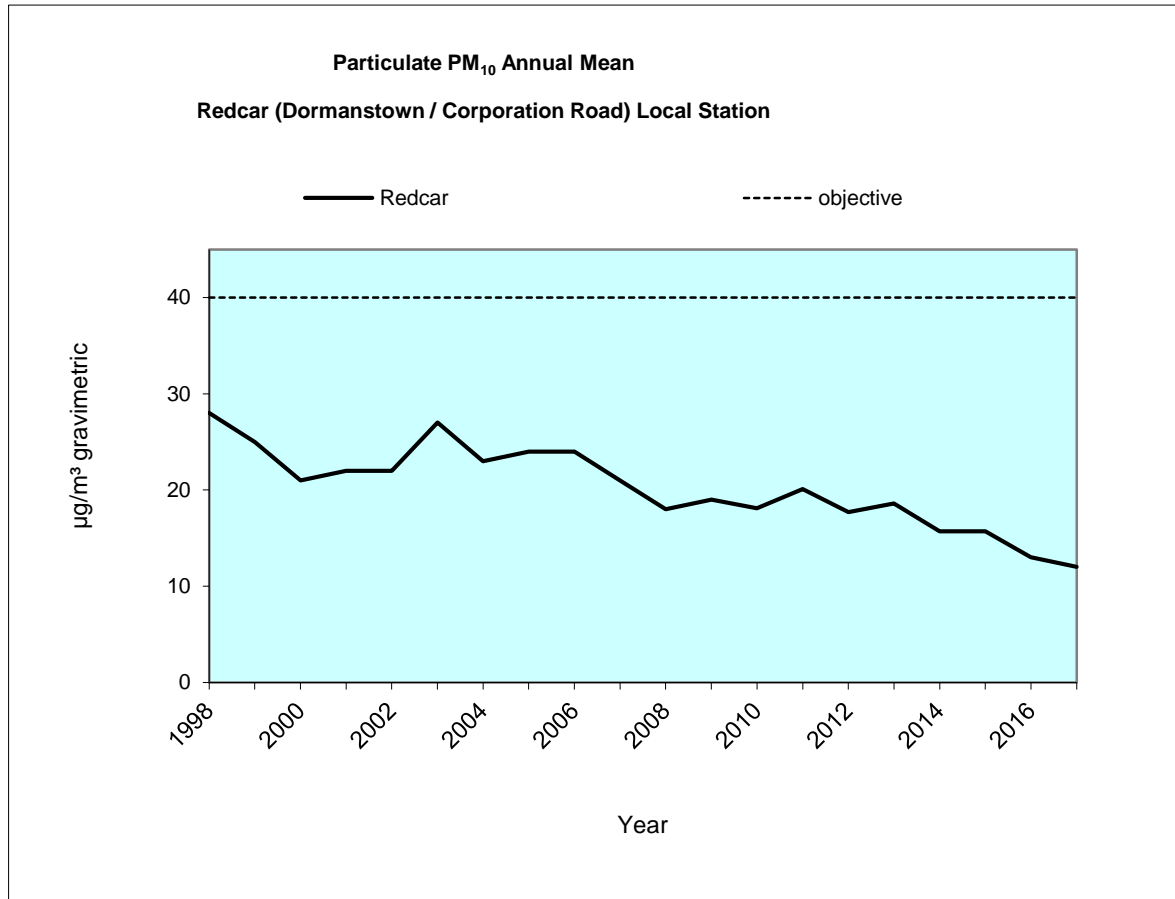


Breckon Hill Station



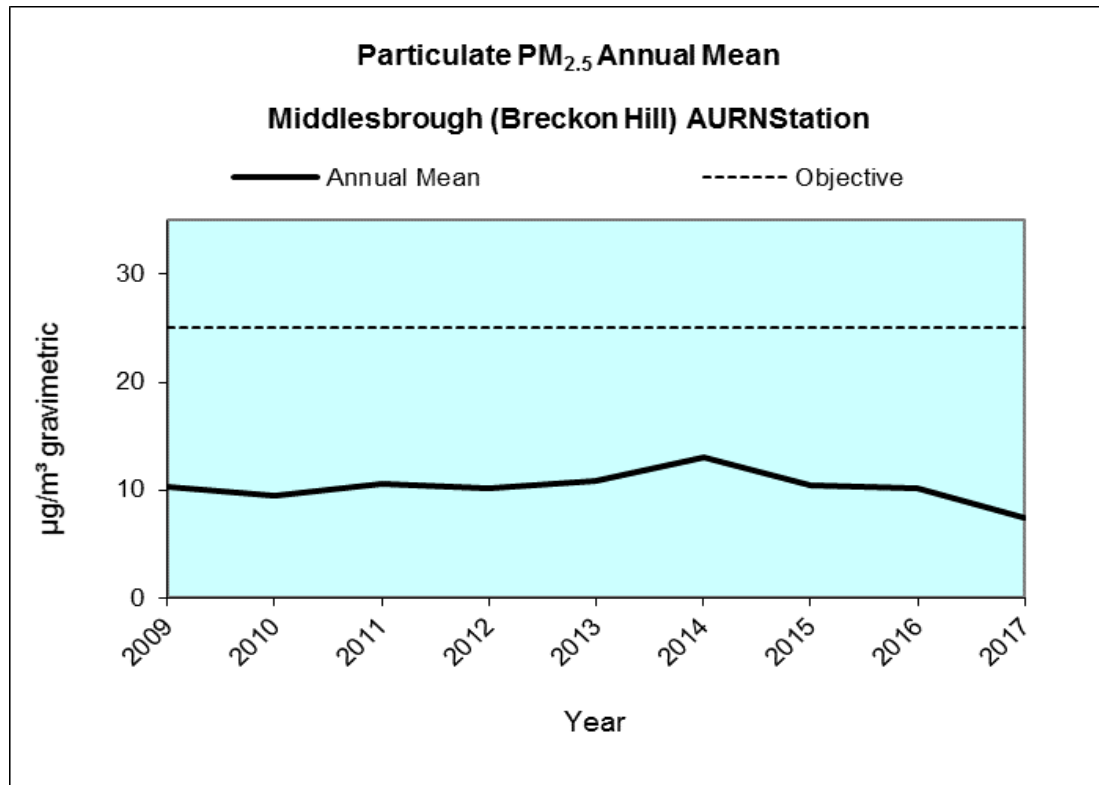
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Redcar Dormanstown / Corporation Road



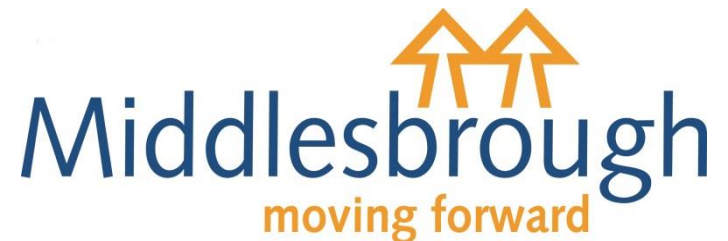
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Breckon Hill Station



Comparison of South Tees Areas

- No distinct differences in measured background station pollutants
- Diffusion tube results vary depending on location, however results in comparable locations e.g. high traffic flow roads and fleet make up, are similar across both authorities



Challenges

- No safe level of exposure to air pollution
- Meeting an objective value is no longer the aim
- Together we can make multiple small behavioural changes in our everyday lives to help bring pollution levels down
- Together we can prevent more cases of heart disease, strokes, asthma and lung cancer



South Tees Clean Air Strategy

- Plan for Cleaner Air using policies and practices
- Raise awareness and spread positive messages
- Enforce proposed new legislation around open fires, wood burners and multi-fuel stoves
- Investigate existing pollutant sources to target future actions and interventions e.g. anti engine-idling campaigns around schools
- Promote Active Travel e.g. walk, cycle etc.
- Encourage positive behavioural change and a community approach to cleaner air

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www.festivalofthrift.co.uk

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Overview of Festival of Thrift

- **The Festival of Thrift is the UK's National Celebration of Sustainable Living.**
- Multi award-winning and now in it's seventh year. Building a year round presence in Tees Valley.
- Artists, makers, artisans, fixers, forward thinkers and businesses who want to share the sustainability message by being creative, thoughtful and innovative.
- Themes for 2019 are Clean Air and The Moon Landing anniversary.
- Taking place in Kirkleatham on the 14 & 15 September.
- Viewpoints across Tees Valley from September 12 – 19.



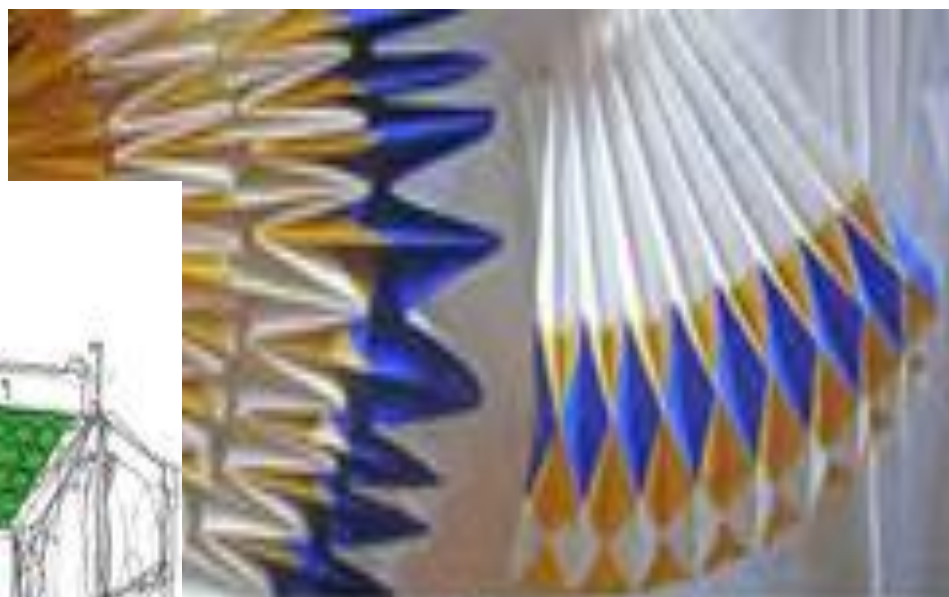








GREENHOUSE DETAIL 001

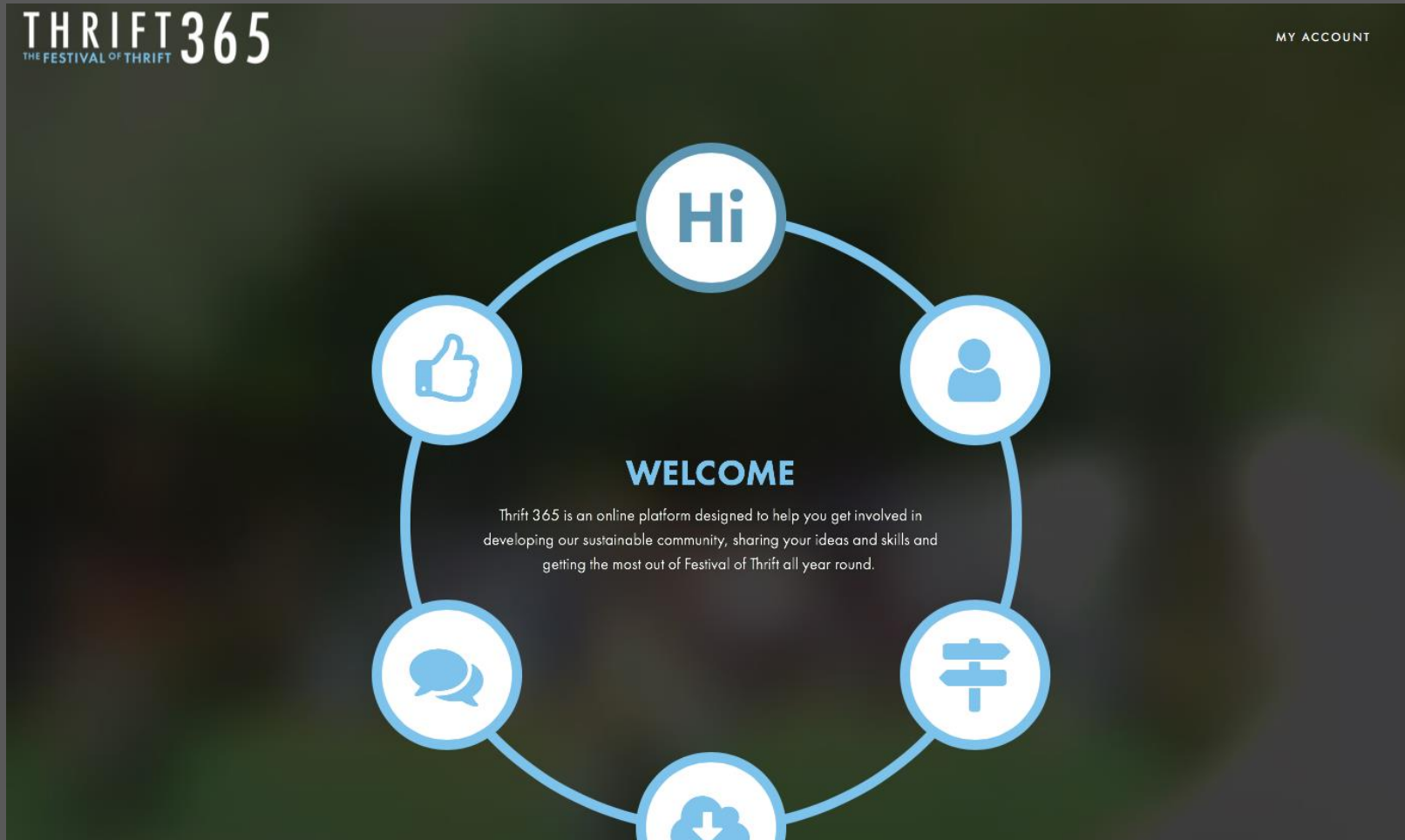




ATONEMENT REDUX



HOW TO GET INVOLVED:







info@festivalofthrift
www.festivalofthrift.co.uk