Morning Agenda – Air Quality Scotland



09:15	Registration	
10:00	Welcome and Introduction	Andrew Taylor, Scottish Government
10:15	Air Quality in Scotland	David Hector, Ricardo Energy & Environment
10.45	How can we protect Scotland's most vulnerable lungs from air pollution?	Irene Johnstone, British Lung Foundation
11:15	Tea/Coffee Break	
11:35	Every Breath we take; the effects of Air Pollution Across the Life-course	Professor Stephen Holgate, University of Southampton Faculty of Medicine
12:05	Young Scots tackling air pollution	Dr Colin Gillespie, SEPA
12.30	Spotfire data analysis tools integration in the SAQD	Kieran Walesby, SEPA
12:50	Lunch	



Content



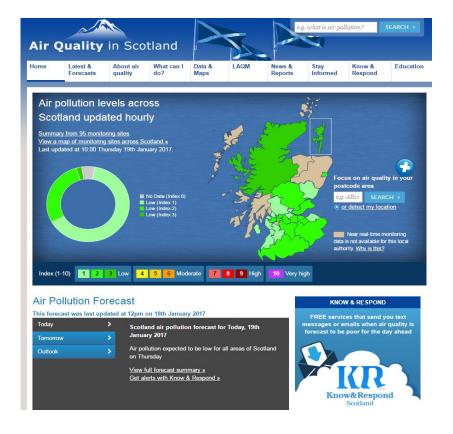
- Scottish Air Quality Database and Website (SAQDW) 2017
- 2. SAQDW and CAFS
- 3. Functions within SAQDW and new additions
- 4. Air Pollution in Scotland
- 5. Interesting Air Quality analysis
- 6. QA/QC
- 7. Your SAQD
- 8. Questions

Scottish air Quality Database and Website

- Pilot study 2006
- Project officially launched April 2007
 c.50 monitoring sites in the database
- January 2017 95 automatic sites
- New SAQDW contract Jul 2016 Jun 2019
- Award winning AQ Website
- SEPA New data analysis pages
- Website is important element in helping to Deliver Cleaner Air for Scotland







The Team



Ellis Marshall-Padkin



Sam Copsey



Brian Stacey



Stephen Stratton



David Hector



Stuart Sneddon



Susannah Telfer



Stephen Gray



Paul Willis



Rebecca Rose



Ashleigh Norrie



John Stedman

Scottish Air Quality Database (SAQD) and CAFS



Transport:

A Scotland that reduces transport emissions by supporting the uptake of low and zero emission fuels and technologies, promoting a modal shift away from the car, through active travel (walking and cycling) and reducing the need to travel.



Health:

A Scotland which protects its citizens from the harmful effects of air pollution, reducing health inequalities.



The Scottish Government

Placemaking:

A Scotland where air quality is not compromised by new or existing development and where places are designed to minimise air pollution and its effects.



Legislation and Policy:

A Scotland where all European and Scottish legal requirements relating to air quality are as a minimum complied with.



Climate Change:

A Scotland that reduces greenhouse gas emissions and achieves its renewable energy targets whilst delivering co-benefits for air quality.



Communication:

A Scotland where all citizens are well informed, engaged, and empowered to improve our air quality.



Provides High Quality Data

- Informs Policy
 - Educates

SAQDW and **CAFS**– Introduction of PM_{2.5}



CAFS was published in November 2015;



"include in legislation as Scottish objectives World Health Organisation guideline values for $PM_{2.5}$ "

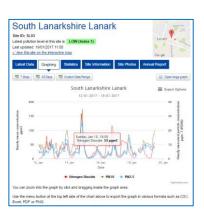
"Establish a PM_{2.5} monitoring network"

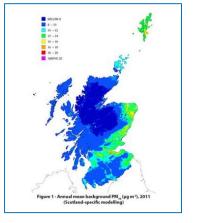
1st April 2016 The Air Quality (Scotland) Regulations were amended to include the annual mean objective of 10 μg/m³ for PM_{2.5}

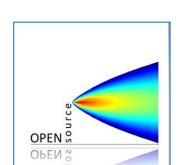
- Nov 2015 14 PM_{2.5} sites (8 Local Authority sites)
- Jan 2017 25 PM_{2.5} sites (19 Local authority sites)
- @ 12 Local authorities

Functions within the Website





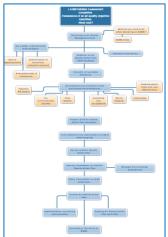






















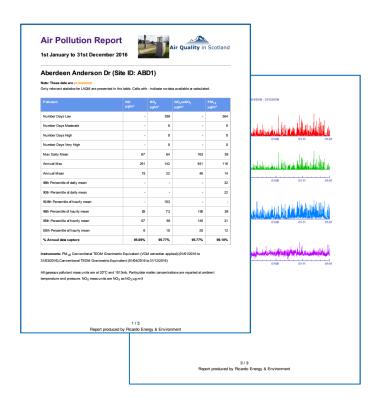




Recent New additions to the Website

RICARDO

- Newsletter
- AP Reports http://www.scottishairquality.co.uk/
- SEPA data analysis tools
- CAFS Page http://www.scottishairquality.co.uk/air-quality/CAFS
- News Alert Emails are you included?



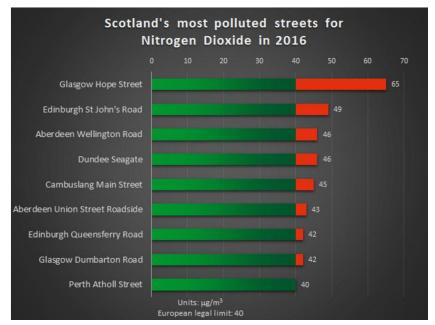


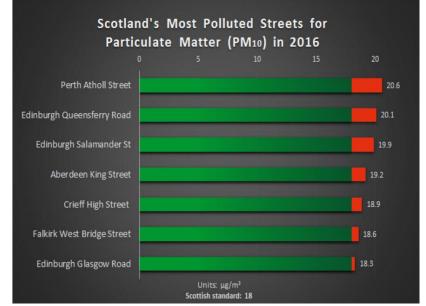


Air pollution in Scotland 2016 – FoE article









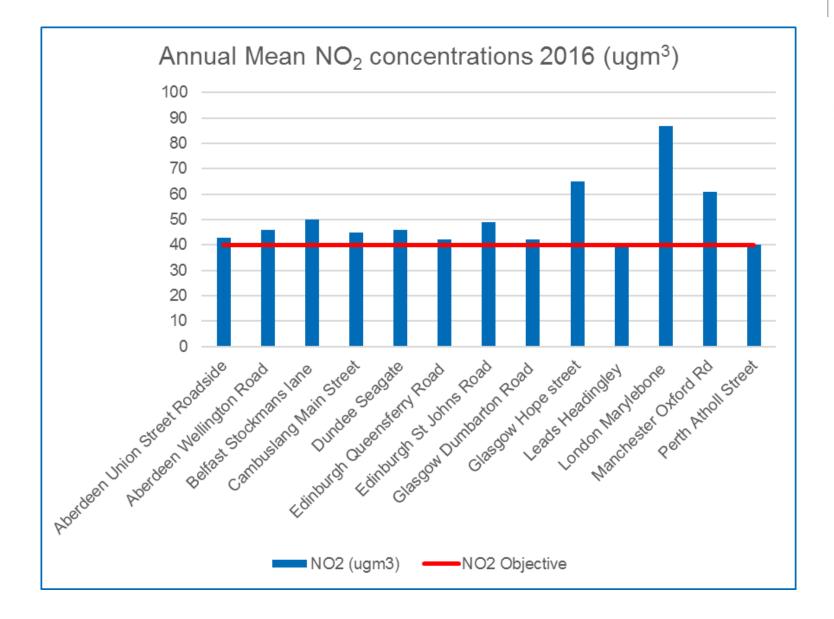
Air pollution in Scotland

FoE Article

- RICARDO
- Raises awareness but ignores lots of good work being undertaken by the Scottish Government and Local Authorities
- The Scottish Government Riaghaltas na h-Alba

- Sense check:
 - Provisional data is being used
 - Doesn't take into consideration site locations –
 Kerbside
 - Review long term trends to see what happening
 - PM₁₀ target is 18 μg/m³, most stringent in Europe
- Exciting developments and work being undertaken:
 - CAFS
 - Introduction of PM_{2.5} objective (10 µg/m³)
 - Increase in Monitoring and AQMAs (now 38 from 33 last year)
 - Large number of awareness raising activities e.g. Twitter,
 Apps, Education Programmes

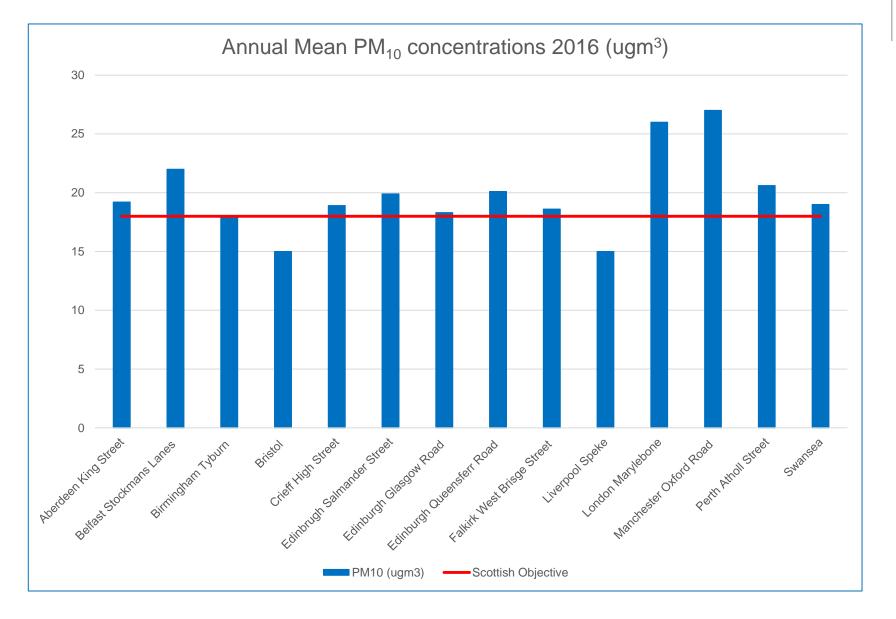












Long Term Trend at the Most polluted sites in Scotland



Interactive Reports

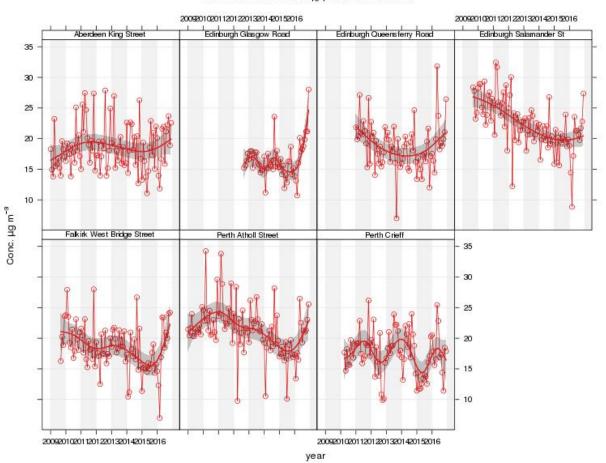








de-seasonalised PM₁₀ particulate matter



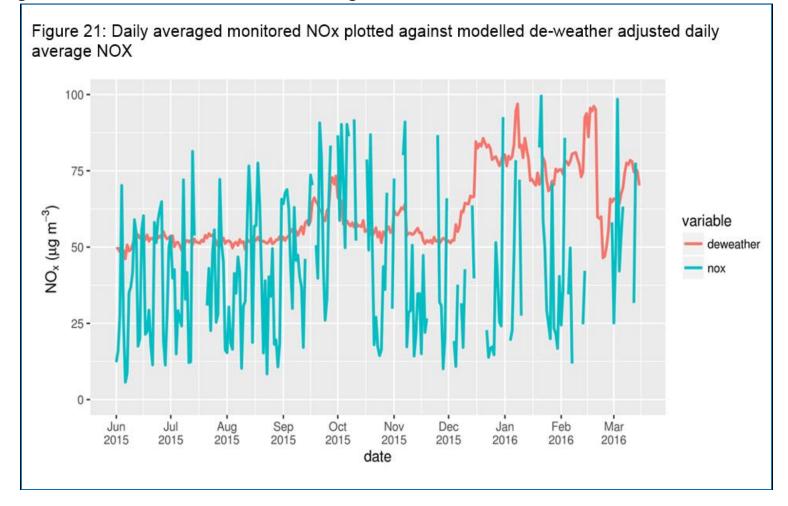


Interesting Air Quality and Data Analysis Event: FRB Closure



Fife Council commissioned a report to assess West Fife's air quality before, during and after the Forth Road Bridge closure from Dec 2015 to Feb 2016





Quality Assurance/Quality Control

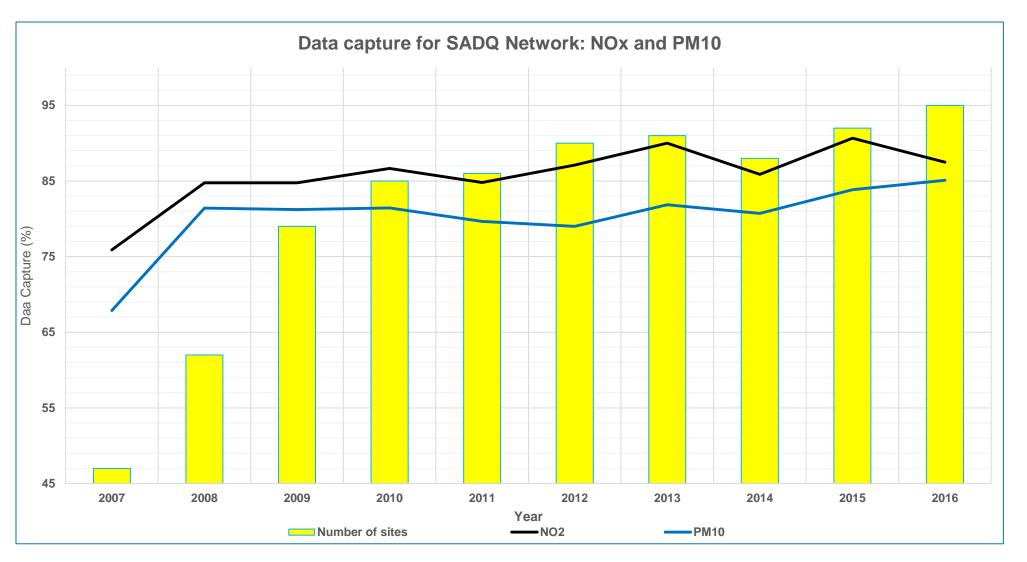
- Importance of calibrations
 - Essential to the QAQC process
 - No cal data, we are unable to ratify
 - Reliance on autocal data
 - LSO training
 - LSO manual available of the Website
 - Youtube channels
 - Ricardo audits
- New Sites Ricardo will provide support in locating sites.
 - Important to get it right
 - Renfrewshire new Johnstone site
- Change in reporting of data 2016
 - Reporting to one decimal place in line with AURN
 - Reporting of negative gaseous concentrations in datasets
- Data capture Trend





Data Capture





Your Scottish Air Quality Database and Website

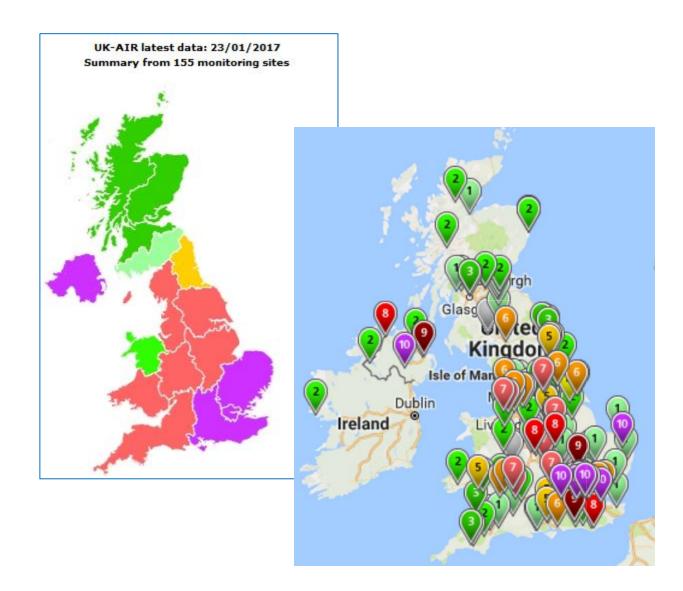




- Feedback
- Suggestions
- Use it as a way to show of the work you are doing (events, Action Plan, Initiatives etc)
- Library of Information
- One stop shop for Air Quality in Scotland

Air pollution in Scotland – could be worse





Scottish Air Quality Database and Website





Questions





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