Overview of Air Quality in Scotland

Scottish Air Quality Database and Website Annual Seminar –
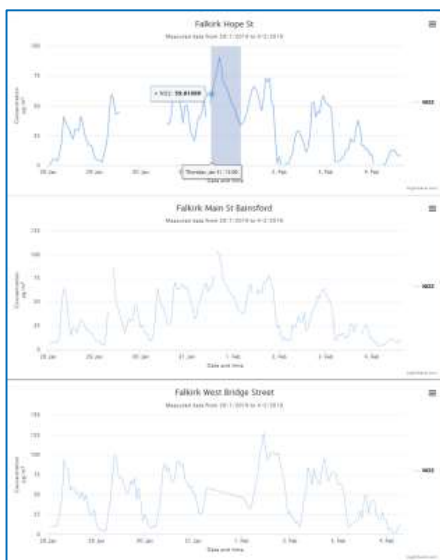
Air Quality In Scotland Project Developments

David Hector - Ricardo Energy and Environment
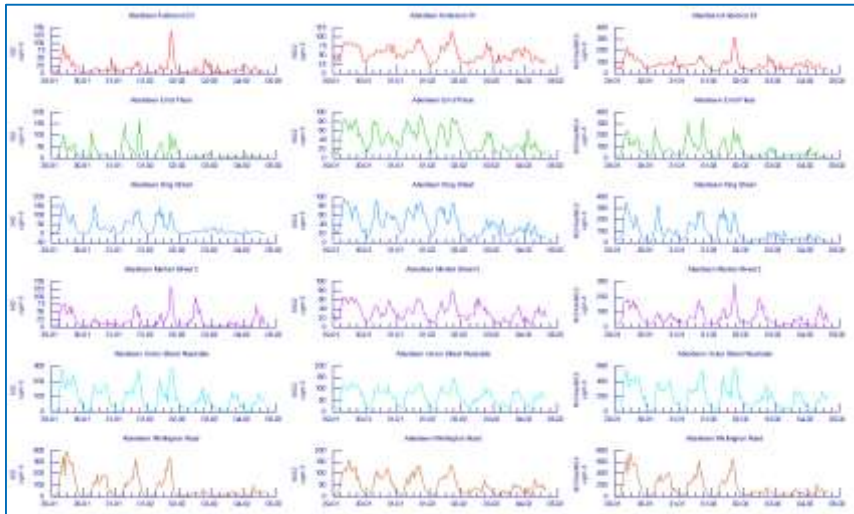
12th February 2019

Air Quality In Scotland Project Developments 2019

1. Interactive Pollution Graphs
2. Diffusion Tube Map
3. Air Quality in Scotland App update

1. Interactive Pollution Graphs

http://www.scottishairquality.scot/latest/pollutant-site-graphs

http://hornbeam.harwell.aeat.com/scotarc/public/latest/pollutant-site-graphs
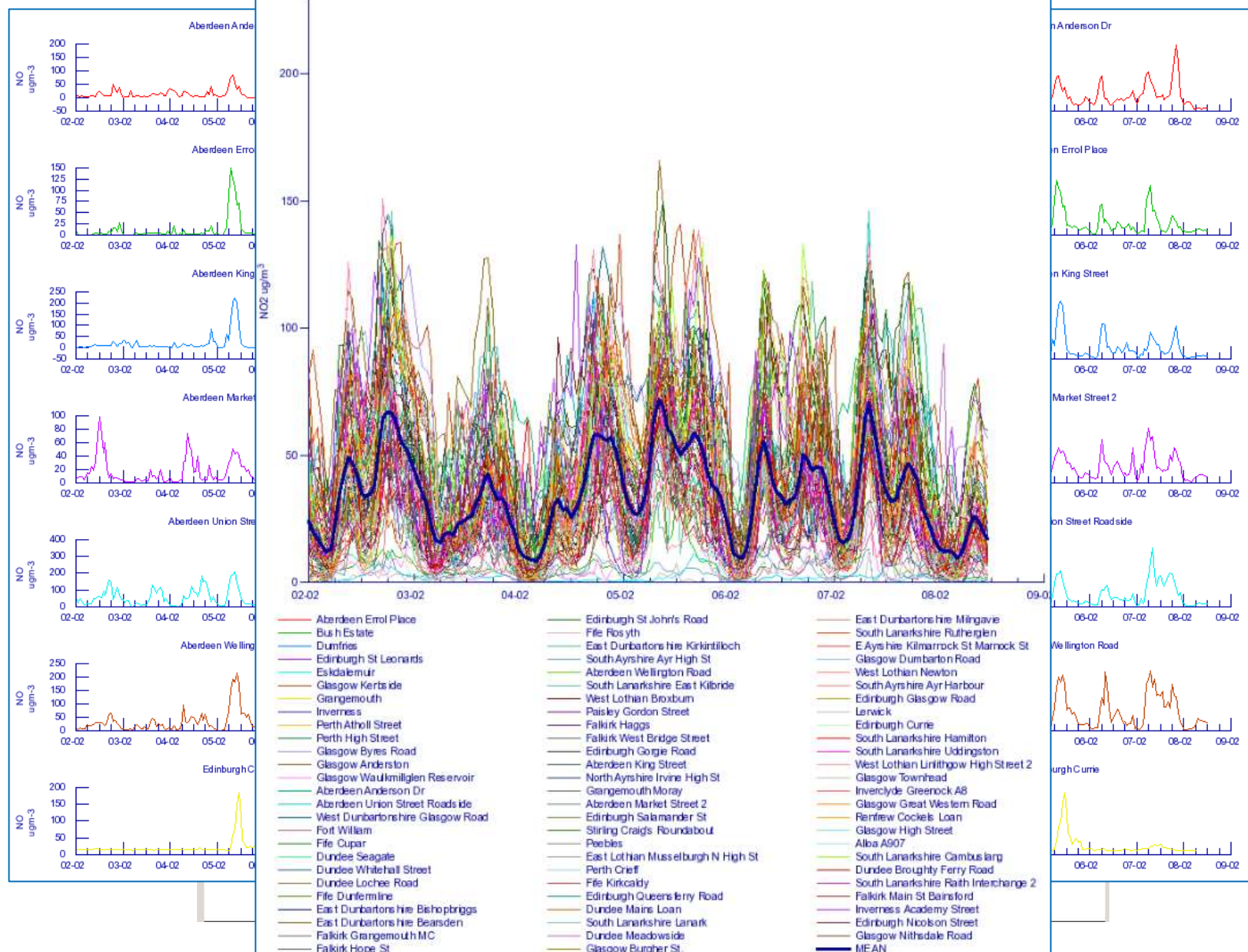
Interactive Pollution Graphs

Interactive Pollution Graphs

http://preview.scotarc.aeat.com/latest/diffusion-sites

Interactive Pollution Graphs
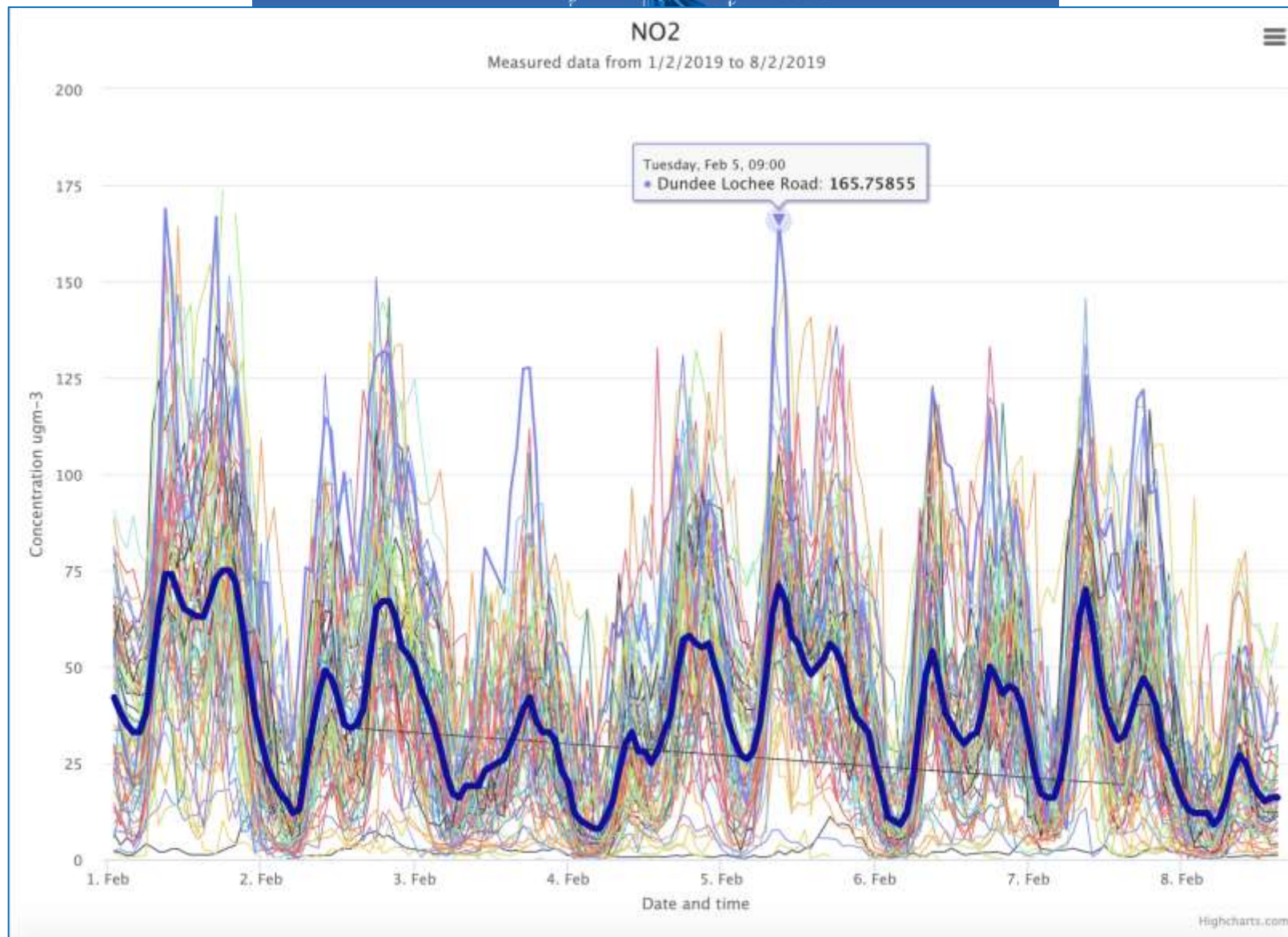
2. Air Quality in Scotland - Diffusion Tube Map

- Since 2006 Automatic data has been disseminated via the Air Quality in Scotland website.

- Local Authority Diffusion tube data has only been available via Annual Progress Reports and LAs website sites.

- This has meant that not all LAQM data is easily accessible from the one place

- In turn people weren't seeing all the data available to them with regards LAQM.

- Scottish Government Commissioned Ricardo to create a Diffusion Tube Map within the Air Quality in Scotland Website.

- It will provide;

  - Map showing all locations
  - Published Annual Mean Concentrations
  - Site Meta data -
    - Site Type
    - Site Co-ordinates
    - Data Capture

SAQD Diffusion Tube Map

http://preview.scotarc.aeat.com/latest/diffusion-sites

http://hornbeam.harwell.aeat.com/scotarc/public/

SAQD Diffusion Tube Map

SAQD Diffusion Tube Map

- Password Protected Preview Page will be issue to Stakeholders

- Stakeholder Feedback

- Diffusion Tube Map and Pollution plots will go live within the next month

Continue to send in your data

3. Air Quality in Scotland App update

- Since the launch of stage 2 version of AQ Scotland App in 2015 it became apparent that further improvements were required under Stage 3.

- There were key functionalities that needed to be revised to ensure the application was up-to-date and in accordance with the ever changing requirements of Google Play and Apple Store.

- As of September 2018 the App was no longer available in App stores because it wasn't meeting the relevant requirements.

Scottish Government thought it would be a good opportunity to try and enhance the Apps capabilities and in turn help meet CAFS aims and objectives

3. Air Quality in Scotland App update

To further engage and inform the public about air quality in Scotland, Scottish Government asked Ricardo to development 3 new functions within the App :

1. **App Notification Alert for elevated site data**

2. **App Notification Alert for Local Authority areas with forecast elevated pollution levels**

3. **App Notification Alert when entering an AQMA**

3. Air Quality in Scotland App update

1. App Notification Alert For Elevated Site Data:

- When an automate site within the users chosen area goes Moderate/High /Very high, a notification will appear on their smart phone or tablet devise informing them of the location and pollutant of concern.

- It provides the user with an option to select a Local authority of interest.

- The notification will be colour coded in accordance with the current AQ Index.

- The notification will provide an option to find out further information about the health implications of the elevated pollution.

- It is often the case that erroneous data causes sites to go Moderate/High /Very high, so a checking system will be put in place that will allow Ricardo to quickly verify the elevated levels before a notification is released.

3. Air Quality in Scotland App update

2. App Notification Alert for Local Authority Areas With Forecast Elevated Pollution Levels:

- Similar to Notification Alert Function For Elevated Site Data ,

- It notifies the user when the air pollution forecast is moderate or above for the users chosen local authority of interest.

- The system will work in the same way as the alert for elevated sites and in conjunction with the current Know and Respond Alerts system

3. Air Quality in Scotland App update

3. App Notification Alert When Entering an AQMA:

- A notification alert system that alerts the users when they are enters an AQMA.

- Using GIS data of all AQMAs in Scotland the function will send a notification to the user once they enter an AQMA and then provide them with useful information such as

  - latest data,
  - map of AQMA,
  - nearest monitoring location

- When AQMAs are added, amended or are revoked, this information will be automatically updated when the information is made available.

- In addition, App will now provide additional information on AQMAs in Scotland.

- This will include an interactive map showing the location and boundaries of the AQMAs.

3. Air Quality in Scotland App update

Your Scottish Air Quality Database and Website
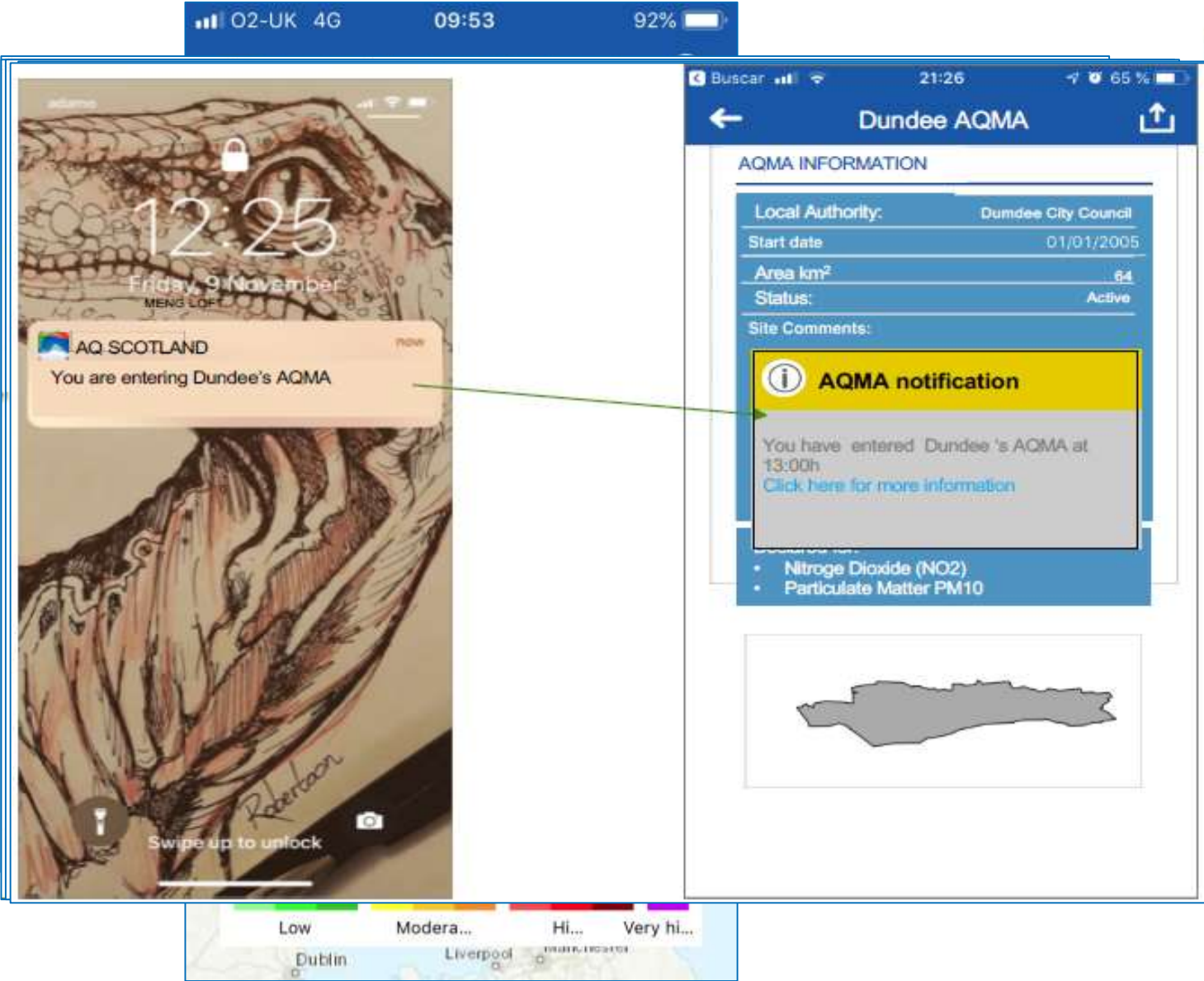
Your feedback and suggestions are important

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Questions

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