



**MERTHYR TYDFIL**

**County Borough Council**

Cyngor Bwrdeistref Sirol

**MERTHYR TUDFUL**

Detailed assessment for  
Twynnyrobyn Road  
Merthyr Tydfil County Borough Council  
Executive Summary - English

In fulfillment of Part IV of the  
Environment Act 1995  
Local Air Quality Management

Date (16<sup>th</sup> November 2015)

## **Executive Summary**

Merthyr Tydfil County Borough Council carries out routine air quality monitoring and assessment. During the course of this monitoring an exceedance of the annual NO<sub>2</sub> objective was observed at Twynyrodyn Road. The purpose of this detailed assessment was to further investigate this exceedance.

Real time NO<sub>2</sub> monitoring and diffusion tubes were used to determine the short term, monthly and annual NO<sub>2</sub> concentrations. Meteorological data and traffic data were also investigated. Traffic is considered to be the predominant source of NO<sub>2</sub> on Twynyrodyn Road. Wind direction and speed, along with two buildings on either side of the road being close to the pavement are considered likely to cause NO<sub>2</sub> to accumulate around 55 Twynyrodyn Road.

Real time NO<sub>2</sub> concentrations were found to be highest when there was significant levels of traffic moving uphill. This is believed to be associated with the direction commuters and visitors to the town centre and Tesco are encouraged to leave, particularly as a consequence of recent changes to the road layout and parking arrangements in the town centre.

It is considered necessary to declare an AQMA from the Western End of Twynyrodyn Road to 147 Gilfach Cynon. MTCBC will then produce an action plan, aiming to reduce NO<sub>2</sub> concentrations. As NO<sub>2</sub> is associated with traffic emissions solutions to reduce the speed, improve the flow and reduce the amount of traffic will be carried out.