



# **Carmarthenshire County Council**

## **Environment Act 1995**

### **Local Air Quality Management**

#### **2015 Llanelli AQMA Boundary Consultation Review & Report**

**(December 2015)**

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## **1.0 Purpose of Report**

This report reviews the response to the public consultation on the proposed Air Quality Management Area boundary map for the town of Llanelli. The air quality monitoring work has identified areas of exceedence of the nitrogen dioxide Air Quality Objective (AQO) in locations within the town and therefore the authority must proceed to designating an Air Quality Management Area. As part of this process a public consultation has been held on the proposed boundary of the area in order to gather feedback on how appropriate the boundary is.

## **2.0 Background**

Air quality monitoring has been carried out for a number of years across the town and it was identified that nitrogen dioxide levels were increasing. An in depth review of the monitoring locations was performed and identified there were a number of monitoring sites that did not comply with the guidance criteria. The review also identified areas of the town where there was no monitoring but where it was considered a potential for traffic related air quality problems to exist.

This resulted in an overhaul of the monitoring network in the town such that a number of sites were removed and new sites set up. The data gathered from this exercise was reviewed and allows the potential problem areas to be looked at in more detail. This work then became the Detailed Assessment of air quality with the objective of defining the boundaries for the areas of exceedence. The data acquired from this exercise failed to identify any boundaries and therefore the Detailed Assessment continued for another year with some modifications to the monitoring locations.

Data from the extended Detailed Assessment work confirmed that the areas of exceedence were limited in size and associated with particular locations that suffered from congestion and large traffic volumes. However, due to the nature of the road network serving the town there was little potential to tackle these specific geographical locations as they are impacted by the wider road network. This led to the development of the proposed AQMA boundary map, which is shown in Appendix 1.

## **3.0 Public Consultation**

A public consultation was launched on the 5<sup>th</sup> October 2015 seeking views on the proposed boundary for the AQMA. Notification of the consultation was provided to relevant statutory consultees, local councillors for those areas affected, Chamber of Trade and members of the public. The consultation was posted on the 'iLocal' section of the Authority's website and news feeds sent

out via Twitter and Facebook. The consultation was for a period of about eight weeks with the closing date for comments being the 30<sup>th</sup> November 2015.

### 3.1 Response to Consultation

A summary of the responses received to the public consultation are shown in Table 1 below.

Table 1 – Summary of Responses

<b>Consultee</b>	<b>Response</b>
Welsh Government (Air)	No response
Llanelli Town Council	Agreed with proposed boundary and welcomed the designation of an AQMA and development of an Action Plan in order to take appropriate action.
Llanelli Chamber of Trade	None
Natural Resources Wales	No response.
Public Health Wales	Expressed a wish to participate in assisting the Local Authority develop an Action Plan and quantify health impacts collaboratively with its partner organisations.
Individual Ward Councillors	As the Town Council
Residents and Businesses	<ol style="list-style-type: none"> <li>1) Return Gelli Onn junction to a roundabout.</li> <li>2) Significant response received requesting that Sandy Road should be given due consideration for inclusion in the AQMA boundary due to a number of factors.</li> </ol>
Website visits	69 hits

No specific objections have been received in respect of setting the boundary and the need to designate an AQMA. However, a significant response was received requesting that serious consideration be given to including Sandy Road within the boundary of the AQMA.

Historically, air quality monitoring results have been reported for Sandy Road that were above the AQO, however this was for locations that did not meet the criteria in the relevant air quality monitoring guidance documents. As part of the monitoring network review, mentioned in Section 2 above, some of these sites were removed and more relevant locations identified. Since that time there have not been any exceedences of the AQO along Sandy Road at relevant locations.

Despite the fact there have been no exceedences, due consideration has been given to the request for including Sandy Road and it is considered that it would be pragmatic to include this road within the AQMA boundary. Recent traffic count surveys have identified that approximately 18,000 vehicles travel along the road a day, with about 800 of these being heavy goods vehicles and buses / coaches. The road serves the western part of the town as the main arterial route and with potential further developments in the south of the county this route is likely to see an increase in traffic volumes.

It has therefore been decided to amend the original proposed boundary map, shown in Appendix 1, to include Sandy Road and Bassett Terrace but ending where Pwll Road begins. The amended boundary map can be seen in Appendix 2 as part of the AQMA Order.

## **4.0 Monitoring Data**

The NO<sub>2</sub> monitoring results obtained from the sites within the AQMA boundary for the last five years are detailed in Table 2 below. The figures in brackets are the Bias Adjustment Figures used for each year, and the results in red text are those that have exceeded the Air Quality Objective of 40µg/m<sup>3</sup>.

The results highlight that the areas of exceedence are very limited but, because of their location, the means to improve the situation are determined by the wider road networks.

Table 2 – Llanelli NO<sub>2</sub> Diffusion Tube Results

Tube Id	Location	2015 (0.81)	2014 (0.81)	2013 (0.80)	2012 (0.79)	2011 (0.83)
DAL/14	10 Sandy Road	26.3	28.0	25.5	27.8	-
DAL/15	33 Sandy Road	20.9	21.5	23.4	23.1	-
Carm/077	Sandy Road (2)	34.8	39.7	37.7	40.8	42.6
DAL/22	44 Sandy Road (3)	28.7	30.4	31.2	-	-
DAL/26	123 Sandy Road	19.7	22.2	-	-	-
DAL/27	Sandy Road (4)	21.8	25.4	-	-	-
DAL/16	96 Sandy Road	19.5	18.0	21.3	24.0	-
DAL/17	131 Sandy Road	19.6	19.5	22.7	21.6	-
DAL/07	Nr 13 Felinfoel Road	44.1	50.6	49.1	54.2	-
DAL/23	50 Felinfoel Road	22.5	23.7	24.9	-	-
DAL/09	Thomas St (Barnardos)	42.8	44.8	46.5	50.5	-
Carm/104	Thomas Street (2)	34.6	38.6	38.5	39.1	42.1
DAL/10	Thomas St (Bridal Shop)	35.1	35.8	38.1	42.2	-
Carm/069	West End	36.8	36.0	36.5	43.4	42.8
DAL/12	West End (Creative Cakes)	26.7	30.9	29.0	32.6	-
DAL/04	51 Panteg Road	31.3	32.4	34.4	37.3	-
Carm/114	Panteg Road	34.7	33.8	38.0	37.7	38.1

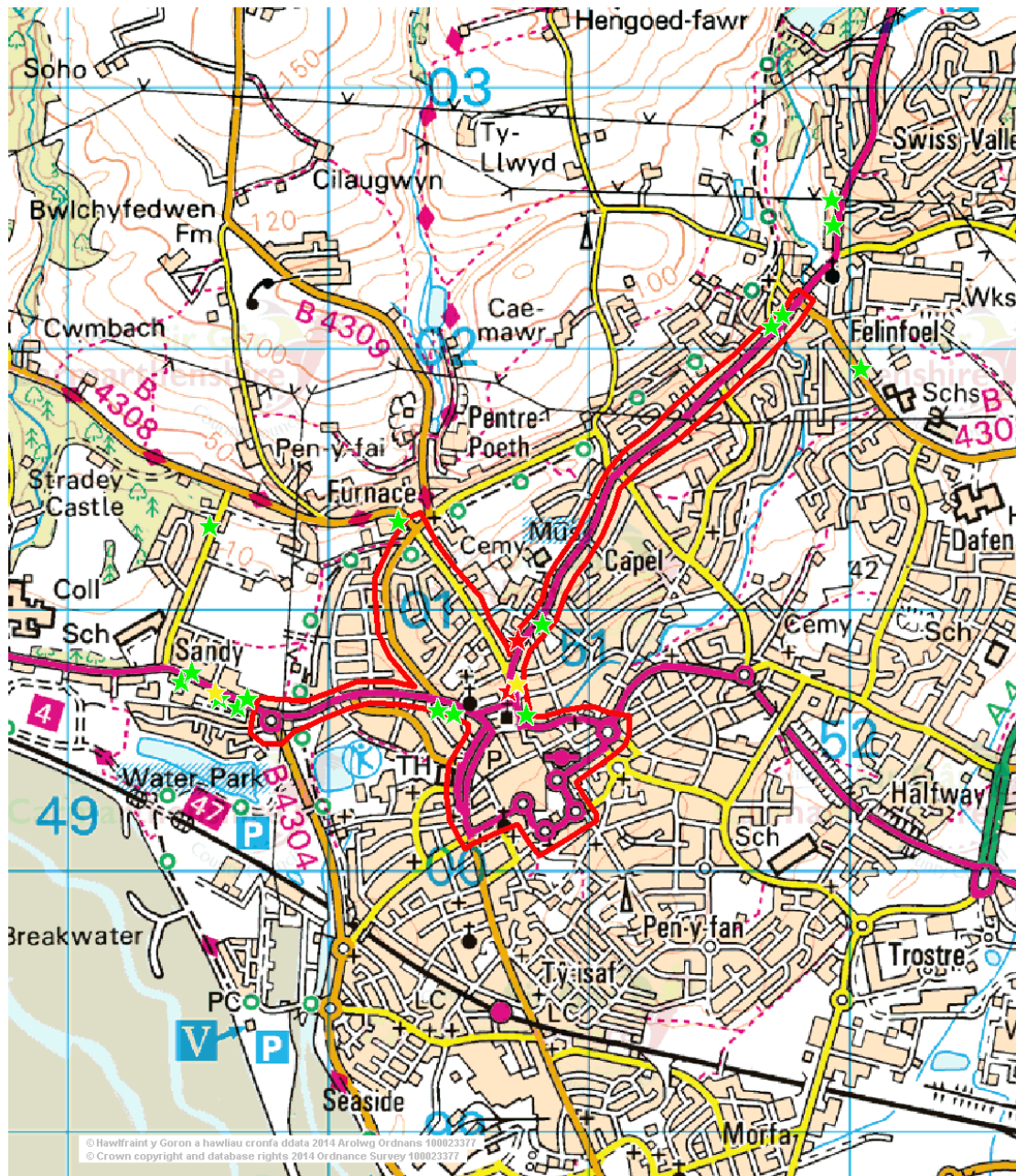
The amended AQMA Boundary Map has resulted in an additional NO<sub>2</sub> monitoring tube location being set up along Bassett Terrace, which will be in place from January 2016.

## **5.0 Conclusion**

Having reviewed the responses to the public consultation and the air quality data it is considered appropriate and necessary to proceed with designating an Air Quality Management Area within the town of Llanelli in order to pursue the improvement of air quality and to try to achieve the Air Quality Objective of 40µg/m<sup>3</sup> at relevant locations.



## Appendix 1 – Proposed Llanelli AQMA Boundary Map



## **Appendix 2 – Llanelli Air Quality Management Order (2016)**





Environment Act 1995 Part IV Section 83(1)

Carmarthenshire County Council  
AQMA Order

Carmarthenshire County Council, in exercise of the powers conferred upon it by Section 83(1) of the Environment Act 1995, hereby makes the following Order.

This Order may be cited/referred to as the Carmarthenshire County Council Air Quality Management Area [Llanelli 2016] and shall come into effect on [date]

The area shown on the attached map within the red boundary is to be designated as an air quality management area (the designated area). The designated area starts from the section of the A484 known as Bassett Terrace from the far west at the junction with Waun Eos Road travelling easterly through Sandy Road and incorporating Sandy Road roundabout, continues to follow an easterly direction along the A484 Pembrey Road before turning north up New Road as far as the mini roundabout in Furnace, and then travels back south along Old Road as far as the junction with Thomas Street on the A476. The boundary then travels north east along the A476 through Felinfoel Road and Panteg, as far as the mini roundabout joining Farmers Row. The boundary travels back south west along the A476 right down to Thomas Street bearing left along the A484 continuing on to the roundabout and bearing right following the A4214 along Stepney Place. The boundary continues along the series of mini roundabouts going through Upper Robinson Street and Murray Street before turning right at the junction with Station Road. The boundary continues along the A4214 through Church Street, Hall Street, West End on to Pembrey Road, again incorporating Sandy Road roundabout before travelling back west along Sandy Road and on through Bassett Terrace before completing the boundary at the far west junction with Waun Eos Road.

This Area is designated in relation to a likely breach of the nitrogen dioxide (annual mean) objective as specified in the Air Quality (Wales) Regulations 2000.

This Order shall remain in force until it is varied or revoked by a subsequent order.

The Common Seal of Carmarthenshire County Council  
was hereto affixed on [date] and signed in the presence of /on behalf  
of said Council

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## Llanelli AQMA Boundary Map



0 200 400 600m

Graddfa  
Scale  
1:25000

Canol y Map  
Map Centre  
[249722.03,200781.45]

Dyddiad  
Date  
23/12/2015

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