



# Blaenau Gwent CBC 2022 Air Quality Progress Report

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

Date: September 2022

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## Executive Summary: Air Quality in Our Area

### Air Quality in Blaenau Gwent

This progress report is the latest in a series of reports relating to air quality and has been compiled and published by Blaenau Gwent County Borough Council. The report contains the latest air quality data for the calendar year of 2021 applicable to the County Borough, and provides current information relating to any new local developments or issues that may have an impact on air quality.

The UK's National Air Quality Strategy sets air quality objectives for seven key pollutants which Local Authorities are legally required to have regard to. These include Benzene, 1,3 Butadiene, Carbon Monoxide, Lead, Nitrogen Dioxide, Particulate Matter (PM<sub>10</sub>) & (PM 2.5) and Sulphur Dioxide. The sources of these pollutants vary but include emissions to atmosphere from a variety of industrial processes, energy generation, domestic and industrial combustion and road traffic.

Local authorities are obliged to periodically review the air quality within their area to determine the risk of the air quality objectives set out in the national strategy being exceeded. If a Local Authority identifies a risk of any of the objectives being exceeded within its area, then they must proceed to a Detailed Assessment for that pollutant and declare an air quality management area (AQMA).

Much of the traditional coal and steel industry that historically populated the Borough has been replaced by a diverse industrial base comprising of businesses such as pharmaceuticals, battery and computer systems, electronic and high tech engineering companies. The closure of much of the heavy industry in the area has had an adverse impact on the local economy but conversely it has meant the removal of significant sources of air pollution.

The previous reports produced by Blaenau Gwent CBC have concluded that it is unlikely that any of the air quality objectives that the Council are required to have

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regard to, are being exceeded or will be exceeded within the Borough and therefore no Detailed Assessment for any pollutant has been carried out to-date. Blaenau Gwent CBC has not declared any AQMA's.

This 2022 air quality progress report **does not** identify the need for Blaenau Gwent CBC to proceed to a Detailed Assessment for any of the seven pollutants identified in the UK's National Air Quality Strategy.

The next Air Quality Progress Report for the County Borough of Blaenau Gwent is scheduled to be published in September 2023.

## Actions to Improve Air Quality

Blaenau Gwent CBC has not declared any air quality management areas (AQMA) within our borough and so as a result has not had to produce an air quality action plan.

The environmental health section continues to work closely with other internal council departments, such as planning control, to monitor and review developments that may impact on local air quality. We also continue to regulate a variety of industrial processes that hold environmental permits. We also respond and deal with air quality pollution incidents and smoke nuisance complaints.

## Local Priorities and Challenges

Blaenau Gwent CBC aims to continue to protect the public health of people living in Blaenau Gwent by maintaining good levels of air quality within our area. This is being done by carrying out additional air quality monitoring at a number of sensitive locations including schools within our borough. The results from these new monitoring locations are reported in this air quality progress report.

## How to Get Involved

Further information on air quality within the Blaenau Gwent area can be found by visiting the air quality section of the council's website:

<http://www.blaenau-gwent.gov.uk/en/resident/environmental-health/pollution/air-quality/>

Or by contacting us directly at:

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# 1 Actions to Improve Air Quality

## Previous Work in Relation to Air Quality

Table 1.2 provides a comprehensive list of the reports produced by Blaenau Gwent CBC as a result of previous rounds of review and assessment of the air quality within the Borough, and summarises the main findings of each report.

Table 1.2 - Reports Produced by Blaenau Gwent CBC as A Result of Previous Rounds of Local Air Quality Review and Assessment

Report	Review And Assessment Undertaken & Conclusions	Year Published
<b>1999 First Stage Review and Assessment</b>	Initial screening of industrial, transport and other significant sources of air pollution within the Borough. Concluded that it is unlikely that there will be failure to achieve any of the air quality objectives.	1999
<b>2003 Updating and Screening Assessment</b>	In-depth review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2003
<b>2004 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2004
<b>2005 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2005

<b>2006 Updating and Screening Assessment</b>	In-depth review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2006
<b>2007 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2007
<b>2008 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2008
<b>2009 Updating and Screening Assessment</b>	In-depth review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2009
<b>2010 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2010
<b>2011 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2011
<b>2012 Updating and Screening</b>	In-depth review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant	2012

<b>Assessment Report</b>	changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	
<b>2013 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2013
<b>2014 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2014
<b>2015 Updating and Screening Assessment Report</b>	In-depth review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2015
<b>2016 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2016
<b>2017 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2017
<b>2018 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2018

<b>2019 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2019
<b>2020 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2020
<b>2021 Progress Report</b>	Review of any matters which may have changed since the last review and assessment which may lead to a risk of an air quality objective being exceeded. Concluded no significant changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	2021

## Air Quality Management Areas

Air Quality Management Areas (AQMAs) are declared when air quality is close to or above an acceptable level of pollution (known as the air quality objective (Please see Appendix A)). After declaring an AQMA the authority must prepare an Air Quality Action Plan (AQAP) within 18 months setting out measures it intends to put in place to improve air quality to at least the air quality objectives, if not even better. AQMA(s) are seen by local authorities as the focal points to channel resources into the most pressing areas of pollution as a priority.

Blaenau Gwent CBC currently does not have any AQMAs.

## Implementation of Action Plans

Blaenau Gwent CBC has not declared any air quality management areas and as a result has not published an air quality action plan.

## **2 Air Quality Monitoring Data and Comparison with Air Quality Objectives**

### **Summary of Monitoring Undertaken in 2021**

#### **2.1.1 Automatic Monitoring Sites**

Blaenau Gwent CBC does not currently undertake any automatic monitoring of any of the pollutants relevant to the UK National Air Quality Objectives.

#### **2.1.2 Non-Automating Monitoring Sites**

Blaenau Gwent CBC undertook diffusion tube monitoring at 27 sites throughout the Borough during 2021, the details of which are presented in Table 2.1. A map indicating the approximate location of each current monitoring site within the borough is provided in Appendix D and individual maps for each monitoring location is provided in Appendix E to this report.

The diffusion tubes are exposed for four week periods in accordance with the National NO<sub>2</sub> exposure calendar. Gradko Environmental was used to analyse and provide data from all of the NO<sub>2</sub> diffusion tubes within Blaenau Gwent during 2021.

Gradko Environmental used the 50% TEA in Acetone method to prepare the diffusion tubes for analysis and have indicated that they are following the procedures set out in the Harmonisation Practical Guidance. It has also been confirmed that Gradko Environmental demonstrated satisfactory performance in the Air- PT scheme for the period of 2021.

Blaenau Gwent CBC does not currently undertake a co-location study for its NO<sub>2</sub> diffusion tube monitoring, in previous years the 'National' bias adjustment factor has been used for

the results of the monitoring undertaken during each specific year. The bias adjustment factor for Gradko Environmental for 2021 was 0.82.

A full audit of all monitoring sites used by Blaenau Gwent CBC was undertaken in September 2021. The audit identified that monitoring was no longer required at two of established monitoring locations. These locations were BGBC-07 and BGBC-23 as we established that the measured levels of nitrogen dioxide at both sites were continuously below the air quality objective.

Monitoring at the new locations identified below began in January 2022.

- BGBC-40- 1 Waterloo Terrace, Cwm Ebbw Vale.
- BGBC-41- 8 Briar Close, Rassau, Ebbw Vale.
- BGBG-42- Rhos Y Fedwen Primary School, Honeyfield Road, Rassau, Ebbw Vale.
- BGBC-43- 37 Pen Y Craig, Rassau, Ebbw Vale.

Table 2.1 – Details of Non-Automatic Monitoring Sites

Site Name	LA Reference	Site Type	Location	Easting (X) / Northing (Y)	OS Grid Map Reference	Pollutants Monitored	Within AQMA?	Relevant Exposure? (Y/N with distance (m) to relevant exposure)	Height between 2 to 4 m? (Y/N)	Distance to kerb of nearest road (N/A if not applicable)	Worst-case Location ?	WAQF Start Date
BGBC-01	S1	Near Road	The Darren, Daren-felen Road, Brynmawr	X 319538 Y 211956	SO1911NE	NO <sub>2</sub>	N	Y (on facade)	Y	8m	Y	Jan 1995
BGBC-04	S4	Urban Background	22 Parkhill, Beaufort, Ebbw Vale	X 317298 Y 211287	SO1711SW	NO <sub>2</sub>	N	Y (10m)	Y	N/A	N/A	Jan 1995
BGBC-05	A3	Urban Background	Willow Tree Bungalow, Aberbeeg	X 321139 Y 201114	SO2101SW	NO <sub>2</sub>	N	Y (1m)	Y	10m	N/A	Jan 1995
BGBC-07	A1	Urban Background	Aberbeeg Medical Centre, Aberbeeg	X 320942 Y 202011	SO2002SE	NO <sub>2</sub>	N	Y (18m)	Y	25m	N/A	Nov 1995
BGBC-13	T2	Roadside	3 Kings Arms Cottages, Trefil, Tredegar	X 312012 Y 212782	SO1212NW	NO <sub>2</sub>	N	Y (on facade)	Y	4m	Y	Oct 2000



BGBC-16	A5	Near road	49 Aberbeeg Road, Aberbeeg	X 321430 Y 202672	SO2102NW	NO <sub>2</sub>	N	Y (on façade)	Y	7m	Y	Oct 2005
BGBC-18	BT1	Roadside	Welfare Hall, Beaufort Hill, Ebbw Vale	X 317543 Y 211688	SO1711NE	NO <sub>2</sub>	N	Y (on façade)	Y	5m	Y	Oct 2005
BGBC-19	BT2	Roadside	42 Beaufort Rise, Ebbw Vale	X 316670 Y 211597	SO1611NE	NO <sub>2</sub>	N	Y (on facade)	Y	3m	Y	Oct 2005
BGBC-20	TR1	Roadside	122 Beaufort Road, Tredegar	X 314858 Y 210240	SO1410SE	NO <sub>2</sub>	N	Y (on façade)	Y	5.5m	Y	Oct 2005

BGBC-21	TR2	Other - Nearest residential premises to busy roundabout on Heads of Valley Road (A465)	14 Bryn Rhosyn, Merthyr Road, Tredegar	X 312846 Y 210586	SO1210NE	NO <sub>2</sub>	N	Y (on façade)	Y	35m	Y	Oct 2005
BGBC-22	BR1	Near road	2 King Street, Brynmaur	X 319562 Y 212128	SO1912SE	NO <sub>2</sub>	N	Y (on façade)	Y	6m	Y	Nov 2005
BGBC-23	C4	Near road	Cwm Conservative Club, Mill Terrace, Cwm	X 318453 Y 205308	SO1805SW	NO <sub>2</sub>	N	Y (on façade)	Y	6m	Y	Jan 2010
BGBC-24	T5	Roadside	4 Glen View, Nantybwhch, Tredegar	X 313145 Y 210769	SO1310NW	NO <sub>2</sub>	N	Y (on façade)	Y	5m	Y	Jan 2010
BGBC-25	E1	Near road	Red Rose Care Centre, Park Road, Ebbw Vale	X 316996 Y 207898	SO1607NE	NO <sub>2</sub>	N	Y (on façade)	Y	8m	Y	Jan 2010
BGBC-26	E2	Other – near road where this is an increase in traffic expected	2 The Dingle, Ebbw Vale	X 316980 Y 209842	SO1609NE	NO <sub>2</sub>	N	Y (on façade)	Y	10m	Y	Jan 2010

		due to major works nearby										
BGBC-27	G1	Other – near road where an increase in traffic expected due to major works nearby	Tyn y Rhyn, Llangynidr Road, Ebbw Vale	X 316720 Y 212796	SO1612NE	NO <sub>2</sub>	N	Y (on façade)	Y	11m	Y	Jan 2014
BGBC-28	R1	Other – near road where an increase in traffic expected due to major works nearby	1 Coates Row, Rassau, Ebbw Vale	X 314488 Y 211642	SO1411NW	NO <sub>2</sub>	N	Y (on façade)	Y	20m	Y	Jan 2014
BGBC-29	n/a	Other- nearest residential properties to new industrial process.	10 Ivy Close, Rassau, Ebbw Vale.	X 315331 Y 211938	SO1511NW	NO <sub>2</sub>	N	Y (on façade)	Y	N/A	Y	Jan 2018
BGBC-30	n/a	Other- nearest residential properties to new industrial process.	8 Annes Court, Ebbw Vale.	X 316010 Y 210183	SO1610NW	NO <sub>2</sub>	N	Y (on façade)	Y	N/A	Y	Jan 2018
BGBC-31	n/a	Other- nearest residential	18 Maes Morgan, Tredegar.	X 312674 Y 210974	S0121ONE	NO <sub>2</sub>	N	Y (on façade)	Y	N/A	Y	Jan 2018

		properties to new industrial process.										
BGBC-32	n/a	School	Ebbw Fawr Learning Campus, Primary School, Ebbw Vale.	X 317392 Y 208313	SO1708SW	NO <sub>2</sub>	N	Y	Y	15m	Y	Jan 2018
BGBC-34	n/a	School	Georgetown Primary School, Oakfield Road, Tredegar.	X 314838 Y 208257	SO1408SE	NO <sub>2</sub>	N	Y	Y	13m	Y	Jan 2018
BGBC-35	n/a	School	Brynbach Primary School, Merthyr Road, Tredegar.	X 313061 Y 210466	SO1310SW	NO <sub>2</sub>	N	Y	Y	9m	Y	Jan 2018
BGBC-36	n/a	School	St Mary's RC Primary School, Brynmawr.	X 319229 Y 211601	SO1911NW	NO <sub>2</sub>	N	Y	Y	10m	Y	Jan 2018
BGBC-37	n/a	School	Abertillery Learning Campus, Tillery Street, Abertillery.	X 321893 Y 204604	SO2104NE	NO <sub>2</sub>	N	Y	Y	54m	Y	Jan 2018
BGBC-38	n/a	School	Deighton Primary School, Stockton Way, Tredegar.	X 313914 Y 209839	S01309NE	NO <sub>2</sub>	N	Y	Y	10m	Y	Jan 2020

BGBC-39	n/a	School	Six Bells Primary Campus, Abertillery Learning Community, Six Bells Road, Six Bells, Abertillery,	X 322050 Y 202976	SO2202NW	NO <sub>2</sub>	N	Y	Y	21m	Y	Jan 2020
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## 2021 Air Quality Monitoring Results

**Table 2.2 – Annual Mean NO<sub>2</sub> Monitoring Results (µg/m<sup>3</sup>)**

Site Name	Location	Within AQMA?	Monitoring period (months)	Data Capture 2021 %	Annual Mean Concentrations 2021 (µg/m <sup>3</sup> ) Adjusted for bias (0.82)	Air Quality Objective Annual Mean for Nitrogen Dioxide (µg/m <sup>3</sup> )
BGBC-01	The Darren, Daren-felen Road, Brynmawr	N	12	100	12.01	40
BGBC-04	22 Parkhill, Beaufort, Ebbw Vale	N	12	100	5.79	40
BGBC-05	Willow Tree Bungalow, Aberbeeg	N	12	100	9.94	40
BGBC-07	Aberbeeg Medical Centre, Aberbeeg	N	12	100	10.67	40
BGBC-13	3 Kings Arms Cottages, Trefil, Tredegar	N	12	100	3.78	40
BGBC-16	49 Aberbeeg Road, Aberbeeg	N	12	100	14.81	40
BGBC-18	Welfare Hall, Beaufort Hill, Ebbw Vale	N	12	100	12.27	40
BGBC-19	42 Beaufort Rise, Ebbw Vale	N	12	100	16.11	40
BGBC-20	122 Beaufort Road, Tredegar	N	12	100	17.25	40

BGBC-21	14 Bryn Rhosyn, Merthyr Road, Tredegar	N	12	100	9.20	40
BGBC-22	2 King Street, Brynmawr	N	12	100	9.85	40
BGBC-23	Cwm Conservative Club, Mill Terrace, Cwm	N	12	100	9.97	40
BGBC-24	4 Glen View, Nantybwich, Tredegar	N	12	100	10.34	40
BGBC-25	Red Rose Care Centre, Park Road, Ebbw Vale	N	12	92	8.83	40
BGBC-26	2 The Dingle, Ebbw Vale	N	12	100	11.02	40
BGBC-27	Tyn y Rhyn, Llangynidr Road, Ebbw Vale	N	12	100	6.16	40
BGBC-28	1 Coates Row, Rassau, Ebbw Vale	N	12	100	6.60	40
BGBC-29	10 Ivy Close, Rassau, Ebbw Vale.	N	12	100	5.75	40
BGBC-30	8 Annes Court, Ebbw Vale.	N	12	100	6.20	40
BGBC-31	18 Maes Morgan, Tredegar.	N	12	100	4.86	40
BGBC-32	Ebbw Fawr Learning Campus, Primary School, Ebbw Vale.	N	12	92	6.54	40
BGBC-34	Georgetown Primary School, Oakfield Road, Tredegar.	N	12	100	6.54	40

BGBC-35	Brynbach Primary School, Merthyr Road, Tredegar.	N	12	100	8.19	40
BGBC-36	St Mary's RC Primary School, Brynmawr.	N	12	100	8.65	40
BGBC-37	Abertillery Learning Campus, Tillery Street, Abertillery.	N	12	75	5.89	40
BGBC-38	Deighton Primary School, Stockton Way, Tredegar	N	12	100	6.80	40
BGBC-39	Six Bells Primary Campus, Abertillery Learning Community, Six Bells Road, Six Bells, Abertillery,	N	12	92	7.92	40

**Notes:**

Exceedances of the NO<sub>2</sub> annual mean objective of 40µg/m<sup>3</sup> are shown in **bold**.

NO<sub>2</sub> annual means exceeding 60µg/m<sup>3</sup>, indicating a potential exceedance of the NO<sub>2</sub> 1-hour mean objective are shown in **bold and underlined**.



**Figure 1: Measured levels of Nitrogen Dioxide in 2021 compared with AQO**

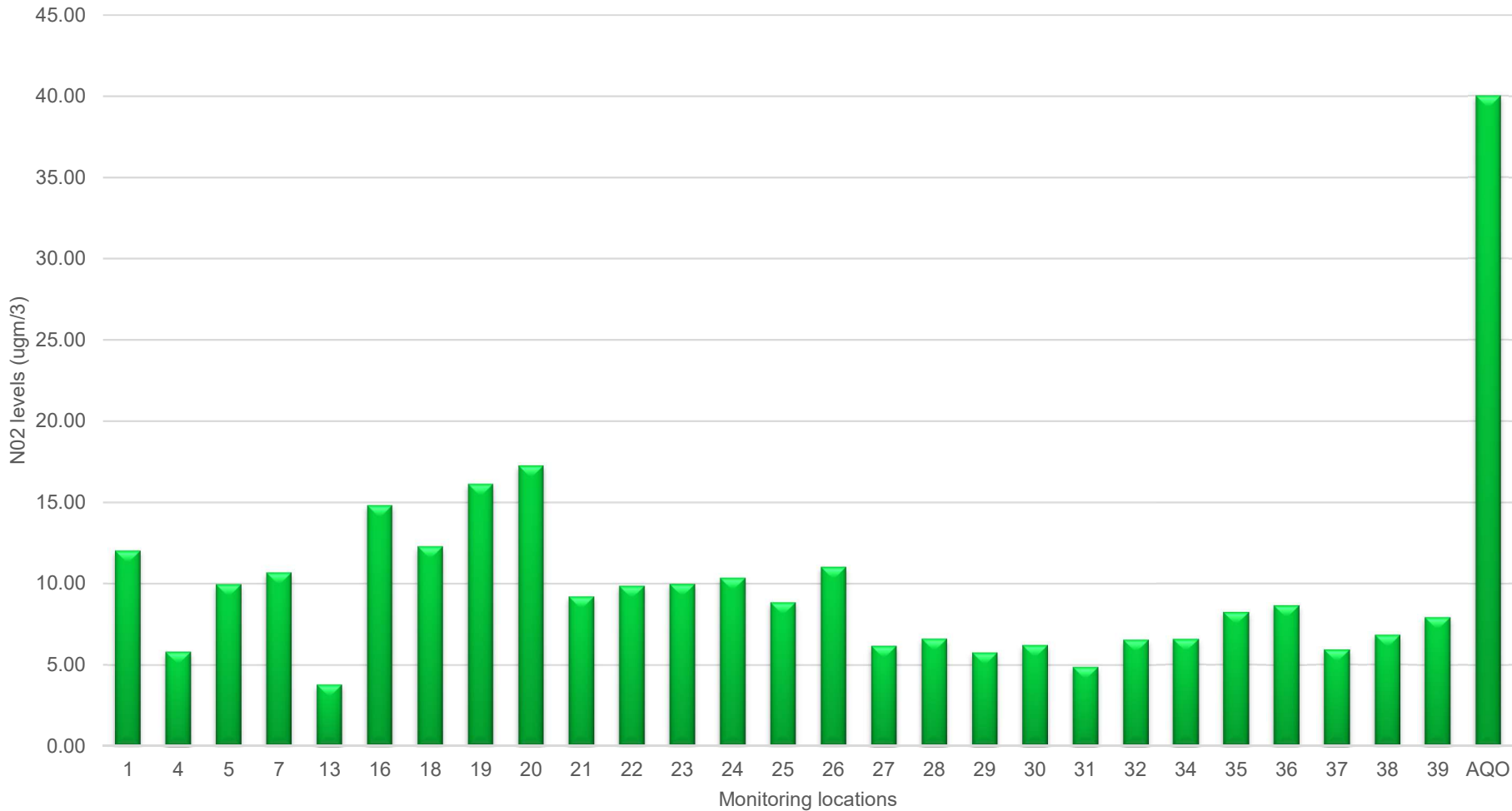
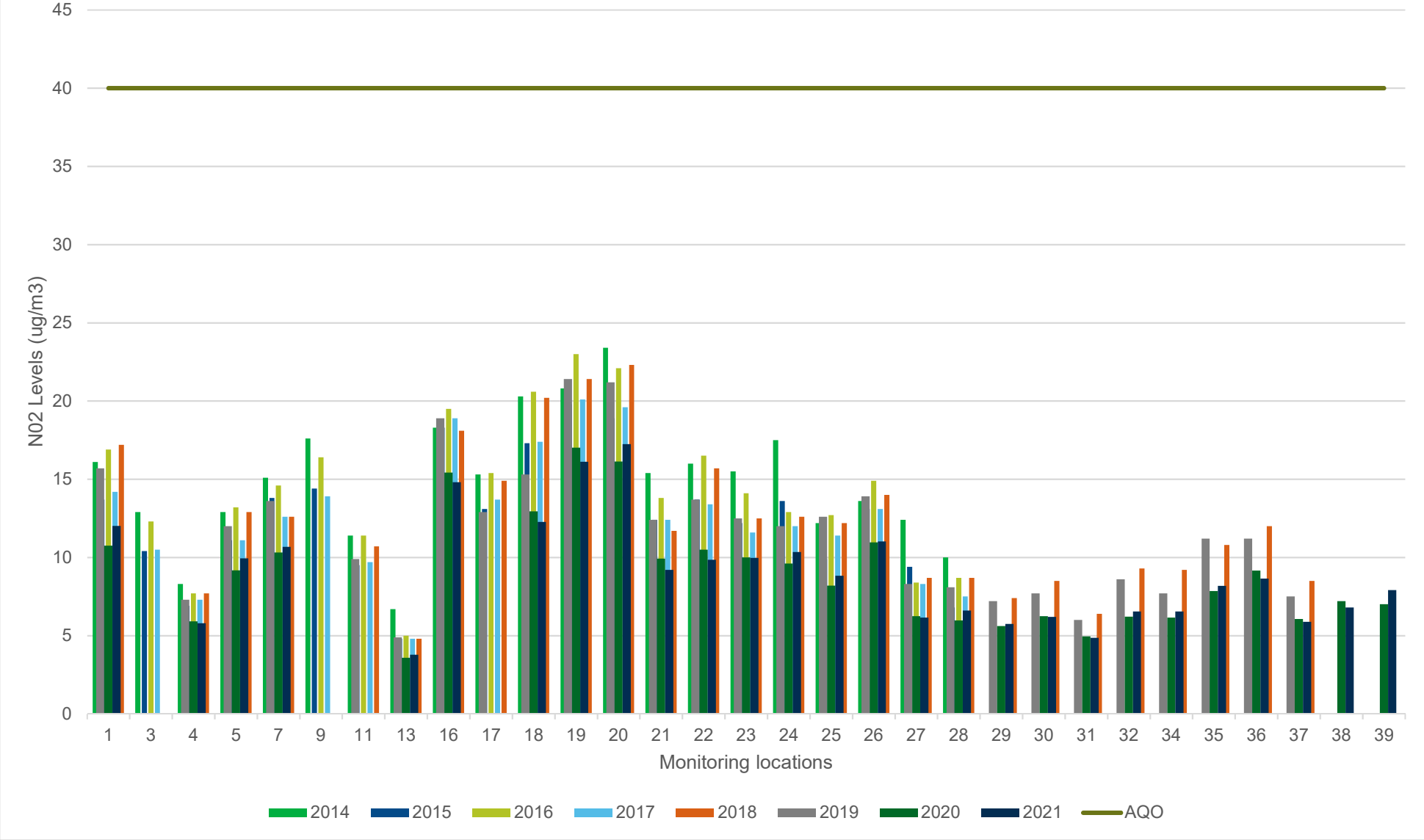


Figure 2: Measured levels of Nitrogen Dioxide 2014- 2021 compared to AQO



## Comparison of 2021 Monitoring Results with Previous Years and the Air Quality Objectives

### 2.1.3 Nitrogen Dioxide (NO<sub>2</sub>)

Blaenau Gwent CBC does not currently undertake any automatic monitoring for nitrogen dioxide.

#### Diffusion Tube Monitoring Data

A summary of the results obtained from the Nitrogen Dioxide diffusion monitoring undertaken at the 27 sites within the Borough for the period of 2021 is presented in Table 2.2. Full details of the monthly mean values for each site are provided in Appendix A to this report.

None of the results from the diffusion tube monitoring are based on triplicate or collocated tubes, the results are based on 12 months' worth of data for the calendar year 2021, none of the data has been annualised.

Table 2.3 provides a comparison of the results for the period of 2021 with the results of previous years monitoring (where available) for the years 2013 - 2021. The 2021 results identify that there has been an increase in the measured levels of nitrogen dioxide at fifteen of the twenty-seven monitoring locations when compared with the 2020 levels. This is likely a result of the impact of the covid 19 pandemic. The other twelve monitoring locations recorded decreases when compared to the previous year's monitoring results.

**Table 2.3 Results of Nitrogen Dioxide Diffusion Tubes for 2013 through to and including 2021.**

Site Name	Annual Mean Concentrations ( $\mu\text{g}/\text{m}^3$ )								
	2013 Adjusted for bias (0.87)	2014 Adjusted for bias (0.97)	2015 Adjusted For bias (0.97)	2016 Adjusted for bias (1.03)	2017 Adjusted for bias (0.96)	2018 Adjusted for bias (0.89)	2019 Adjusted for bias (0.89)	2020 Adjusted For Bias (0.82)	2021 Adjusted for bias (0.82)
BGBC-01	17	16.1	13.7	16.9	14.2	17.2	15.7	10.75	12.01
BGBC-03	13.1	12.9	10.4	12.3	10.5	n/a	n/a	n/a	n/a
BGBC-04	9.5	8.3	6.9	7.7	7.3	7.7	7.3	5.92	5.79
BGBC-05	13.6	12.9	11.1	13.2	11.1	12.9	12	9.18	9.94
BGBC-07	14.8	15.1	13.8	14.6	12.6	12.6	13.6	10.32	10.67
BGBC-09	17.4	17.6	14.4	16.4	13.9	n/a	n/a	n/a	n/a
BGBC-11	11.9	11.4	9.5	11.4	9.7	10.7	9.9	n/a	n/a
BGBC-13	6.6	6.7	4.8	5	4.8	4.8	4.9	3.58	3.78
BGBC-16	20	18.3	18.3	19.5	18.9	18.1	18.9	15.43	14.81
BGBC-17	16.2	15.3	13.1	15.4	13.7	14.9	12.9	n/a	n/a
BGBC-18	20.5	20.3	17.3	20.6	17.4	20.2	15.3	12.94	12.27
BGBC-19	20.3	20.8	19.8	23	20.1	21.4	21.4	17.02	16.11
BGBC-20	22.6	23.4	18.9	22.1	19.6	22.3	21.2	16.13	17.25
BGBC-21	15.5	15.4	12.4	13.8	12.4	11.7	12.4	9.93	9.20
BGBC-22	15.7	16	13.7	16.5	13.4	15.7	13.7	10.50	9.85
BGBC-23	14.3	15.5	12.2	14.1	11.6	12.5	12.5	10.00	9.97
BGBC-24	16.6	17.5	13.6	12.9	12	12.6	12	9.61	10.34
BGBC-25	14.4	12.2	9.9	12.7	11.4	12.2	12.6	8.20	8.83
BGBC-26	14.2	13.6	13.1	14.9	13.1	14	13.9	10.97	11.02
BGBC-27	n/a	12.4	9.4	8.4	8.3	8.7	8.3	6.24	6.16
BGBC-28	n/a	10	6.8	8.7	7.5	8.7	8.1	5.98	6.60

BGBC-29	n/a	n/a	n/a	n/a	n/a	7.4	7.2	5.62	5.75
BGBC-30	n/a	n/a	n/a	n/a	n/a	8.5	7.7	6.24	6.20
BGBC-31	n/a	n/a	n/a	n/a	n/a	6.4	6	4.96	4.86
BGBC-32	n/a	n/a	n/a	n/a	n/a	9.3	8.6	6.22	6.54
BGBC-34	n/a	n/a	n/a	n/a	n/a	9.2	7.7	6.15	6.54
BGBC-35	n/a	n/a	n/a	n/a	n/a	10.8	11.2	7.85	8.19
BGBC-36	n/a	n/a	n/a	n/a	n/a	12	11.2	9.16	8.65
BGBC-37	n/a	n/a	n/a	n/a	n/a	8.5	7.5	6.06	5.89
BGBC-38	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.20	6.80
BGBC-39	n/a	n/a	n/a	n/a	n/a	n/a	n/a	7.01	7.92

#### **2.1.4 Particulate Matter (PM<sub>10</sub>)**

Blaenau Gwent CBC does not currently undertake any monitoring for particulate matter (PM<sub>10</sub>).

#### **2.1.5 Particulate Matter (PM<sub>2.5</sub>)**

Blaenau Gwent CBC does not currently undertake any monitoring for particulate matter (PM<sub>2.5</sub>) and have no plans to do so in the near future.

#### **2.1.6 Other Pollutants Monitored**

Blaenau Gwent CBC does not currently undertake any monitoring for any other pollutants.

### **Summary of Compliance with AQS Objectives as of 2021**

Blaenau Gwent CBC has examined the results from monitoring in the borough. Concentrations are all below the Objectives, therefore no further action is required.

### **3 New Local Developments**

#### **Road Traffic Sources (and Other Transport)**

Blaenau Gwent CBC confirms that there are no new/ newly identified narrow congested streets with residential properties close to the kerb or busy streets where people may spend one hour or more close to traffic. Also there are no new/newly identified roads with high flows of buses and/or HGVs.

Blaenau Gwent CBC confirms that there are no new/newly identified busy junctions or roads with significantly changed traffic flows within the local authority area. Also there are no new bus stations within the local authority area.

#### **Industrial / Fugitive or Uncontrolled Sources / Commercial Sources**

Blaenau Gwent CBC confirms that there are no new or proposed industrial installations for which an air quality assessment has been carried out and there are no existing industrial installations where emissions have increased substantially or new relevant exposure has been introduced. Blaenau Gwent CBC also confirms that there are no new or significantly changed installations with no previous air quality assessment within the local authority area.

Blaenau Gwent CBC confirms that there are no major fuel (petrol) storage depots, no new petrol stations or no poultry farms within the local authority area.

Blaenau Gwent CBC confirms that there are no new potential sources of fugitive or uncontrolled particulate matter, new landfill sites, quarries, unmade haulage roads on industrial sites or waste transfer stations within the local authority area.

Blaenau Gwent CBC confirms that there are no new biomass combustion plant and there are no areas of significant domestic solid fuel burning within the local authority area.

## Other Sources

Blaenau Gwent CBC confirms that there are no new or newly identified local developments which may have an impact on air quality within the Local Authority area.

Blaenau Gwent CBC confirms that all the following have been considered:

- Road traffic sources
- Other transport sources
- Industrial sources
- Commercial and domestic sources
- New developments with fugitive or uncontrolled sources.

## Planning Applications

Each planning application is judged on its merits and due regard is given to the Planning Policy Wales document regarding Air Quality published by the Welsh Government, and other relevant guidance.

A link to the Local Development Plan (LDP) is available at-

<http://www.blaenau-gwent.gov.uk/en/resident/planning/>

The Planning Division classify applications that are received into minor and major developments in accordance with the Welsh Office Planning Statistics guidance. Major developments are classified as being the following:

- major dwelling is 10 or more dwellings or if an outline application 0.5 hectares



- For other types of applications major equates to 1000m<sup>2</sup> floor area or 1 hectare if the application is in outline

**Table 3.1: Applications for Major Developments Received and Approved During 2021**

Planning Reference	Type of development	Location	Potential Impact on Local Air Quality
C/2021/0137	Proposed Construction of New Council Centre of Operations and Ancillary Infrastructure	A4046 FROM A467 TO MARINE STREET, CWM, EBBW VALE	low
C/2020/0201	Proposed residential development and associated works	Steelworks Road, Ebbw Vale	Low
C/2021/0172	Retention of earthworks including importation of material, re-profiling of existing contours, temporary ancillary works including welfare facilities & parking areas with restoration to grass land with hedgerows & drainage features, for grazing and nature conservation & reinstatement of the rights of way, cycle routes and temporary access point.	Ben Wards Fields, Brynmawr	Low

## **Major Planning Applications Approved 2021**

None of the above major planning applications that were received and approved in 2021 were considered to have a potential negative impact on air quality within the Blaenau Gwent area.

## **Major Planning Applications 2022**

In 2022 Blaenau Gwent CBC has received and approved planning application for a glass bottle manufacturing plant on the Rassau Industrial Estate, Ebbw Vale, which has been identified as having the potential to impact on local air quality.

## **4 Policies and Strategies Affecting Airborne Pollution**

### **Local / Regional Air Quality Strategy**

Blaenau Gwent CBC has a Departmental Air Pollution Control Policy and Procedure document to facilitate the management of Air Quality with the Borough.

Blaenau Gwent CBC has not developed an air quality strategy and at this time does not propose to do so as all of our monitoring locations are significantly below the air quality standards.

Blaenau Gwent CBC actively participates in the work of the Welsh Air Quality Forum which assists in co-ordinating the management of Air Quality at an all Wales level amongst the 22 Local Authorities and other partners.

Further information regarding the work of the Welsh Air Quality Forum is available at

<http://www.welshairquality.co.uk/>

### **Air Quality Planning Policies**

Blaenau Gwent CBC does not have a specific air quality planning policy however it is outlined as a development management policy within the Local Development Plan that 'the proposal does not result in airborne emissions which have an unacceptable effect on the health, amenity or natural environment of the surrounding area, taking into account cumulative effects of other proposed or existing sources of air pollution in the vicinity.'

### **Local Transport Plans and Strategies**

Local Authorities are now required to produce individual transport plans however the South East Wales Valleys Authorities (Blaenau Gwent, Caerphilly, Merthyr Tydfil, Rhondda Cynon Taff and Torfaen) got together produced a joint plan that was published in January 2015.

The South East Wales Valleys Local Transport Plan (January 2015) can be viewed at the following website:

<http://www.rctcbc.gov.uk/EN/Resident/ParkingRoadsandTravel/Travel/TransportSchemesandPolicies/TransportPolicyandlocalTransportPlan.aspx>

The local transport plan sets down the vision and objectives for transport in the SE Wales Valleys area and provides a short and long term programme for interventions to work towards achieving these goals. The short term programme sets down those schemes that are priorities for 5 years up to 2020. The longer term programme identifies aspirations up to 2030.

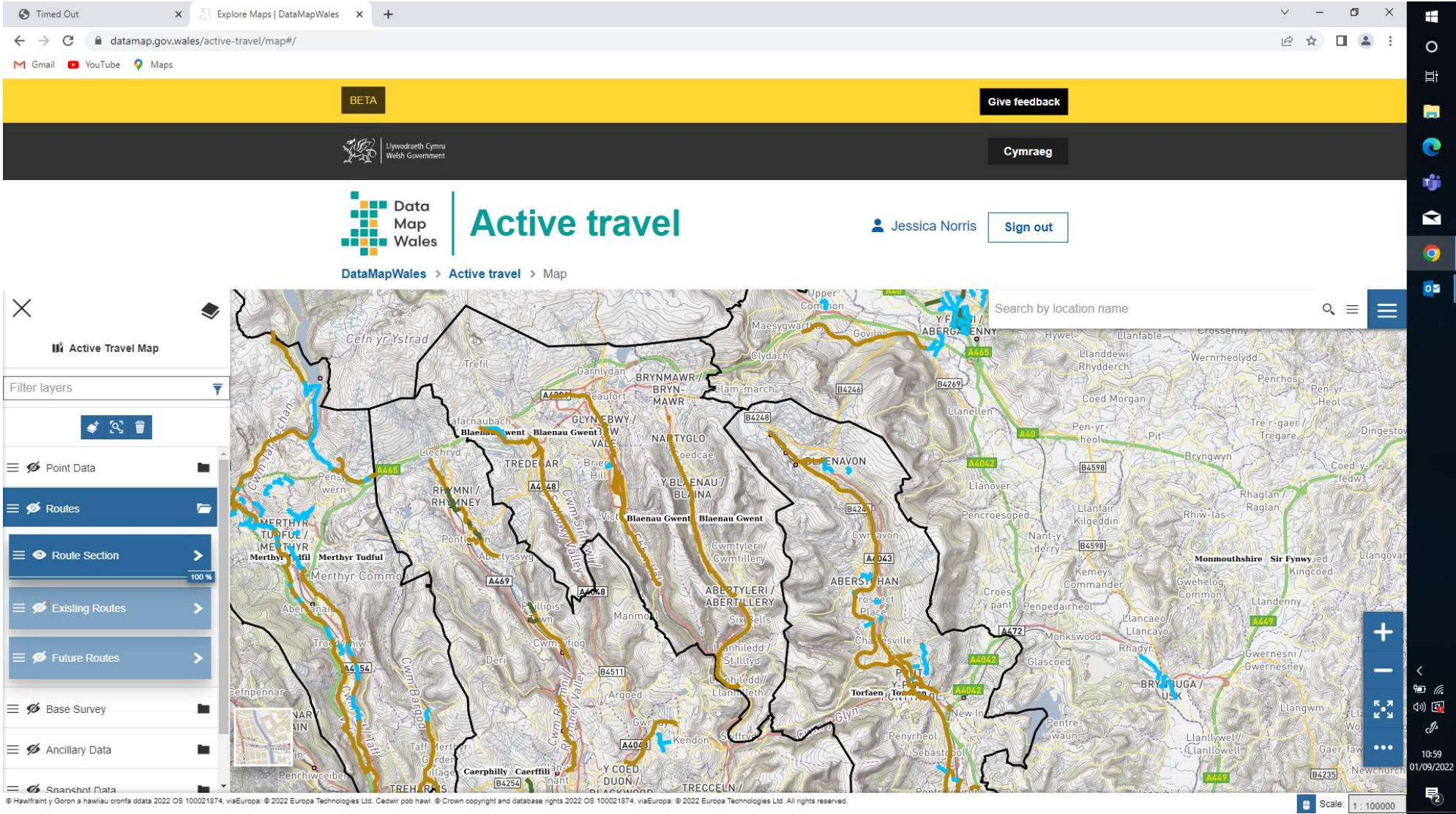
Part of the process of the development of the Local Transport Plan requires the production of a Strategic Environmental Assessment (SEA) which will give consideration to air quality issues.

The Strategic Environmental Assessment Baseline Study Report and Scoping Report are also available at the above website.

## Active Travel Plans and Strategies

Blaenau Gwent CBC has recently updated its Active Travel Network Map (ATNM), which has expanded on the previous edition (previously referred to as the INM). The updated proposed ATNM was recently approved by Welsh Government (August 2022). The routes shown on the map have been prioritised (short, medium and long term) and Blaenau Gwent CBC will improve these routes to increase active travel connectivity throughout the borough and reduce the reliance on cars for short purposeful journeys. Below are the maps from 2017 and 2022 to show the comparison of the network between the two editions and the location of the proposed routes:

INM 2017





ATNM 2022:

The screenshot displays a web browser window with the URL [datamap.gov.wales/active-travel/map#/](https://datamap.gov.wales/active-travel/map#/). The page features a yellow header with a 'BETA' badge and a 'Give feedback' button. Below the header is a dark grey navigation bar containing the Welsh Government logo and a 'Cymraeg' button. The main content area includes the 'Data Map Wales' logo, the title 'Active travel', and a user profile for 'Jessica Norris' with a 'Sign out' button. The central focus is a topographic map of Blaenau Gwent, overlaid with numerous colorful routes (pink, blue, orange, green) representing different travel paths. A search bar at the top right of the map area is labeled 'Search by location name'. On the left side, there is a sidebar titled 'Active Travel Map' with a 'Filter layers' section. The sidebar lists several layers: 'Point Data', 'Routes', 'Route Section' (set to 100%), 'Existing Routes' (set to 100%), 'Future Routes' (set to 100%), 'Base Survey', and 'Ancillary Data'. The map shows various roads and landmarks within Blaenau Gwent, including Merthyr Tudful and Merthyr Common. At the bottom of the map, there is a scale indicator showing 'Scale: 1 : 100000' and a timestamp of '11:01 01/09/2022'.

Blaenau Gwent CBC successfully bid for a grant from the Active Travel Fund to improve some of its routes in 2022/23, and there are several schemes that are currently underway to improve routes to make walking and cycling safer and easier for residents and visitors of Blaenau Gwent.

It is proposed that additional grant funding will be bid for in early 2023 to continue Blaenau Gwent CBC's active travel programme.

## Local Authorities Well-being Objectives

Air quality was considered as part of the local well-being assessment carried out by the Blaenau Gwent Public Service Board which has resulted in well-being objective number 3 being introduced which is- "Blaenau Gwent wants to look after and protect its natural environments." The key steps identified by the Blaenau Gwent Public Services Board in order to meet this objective include-

- Lead on taking action against climate change through the delivery of a carbon positive project.
- Promote active travel to reduce our collective carbon footprint.
- Make Blaenau Gwent a cleaner, greener place where nature can thrive.

## Green Infrastructure Plans and Strategies

Working collaboratively over the past 12 months the 5 local Authorities in Greater Gwent (Blaenau Gwent, Torfaen, Monmouthshire, Caerphilly and Newport) along with partners in the private and third sector have continued deliver on two programmes funded by the Welsh Government's Enabling Natural Resources and Wellbeing (ENRaW) fund. The first of these programs *A Resilient Greater Gwent* has promoted resilient ecosystems and sustainable communities through green infrastructure enhancements and the second *Gwent Green Grid Partnership* (GGGP) has supported woodland management, ecology, access, landscape projects and wellbeing projects. The Local Nature Partnership have also helped steer funding for Local Places for Nature and countryside access improvements have been delivered under the Access Improvement Grant. Further collaborative bids building on the

GGGP are presently in development and will carry Green Infrastructure enhancements forward into the future.

## Climate Change Strategies

Blaenau Gwent CBC has developed a decarbonisation plan detailing how we aim to be carbon neutral by 2030. The plan can be accessed via the link to the Blaenau Gwent CBC website below. An example of a practical implementation of this plan is the purchase and use of electric vehicles in our highways department.

<https://www.blaenau-gwent.gov.uk/en/council/policies-plans-strategies/decarbonisation-plan-2020-2030/>



## **5 Conclusion and Proposed Actions**

### **Conclusions from New Monitoring Data**

Blaenau Gwent CBC has examined the results from monitoring in the Borough of Blaenau Gwent for the period of 2021. Concentrations are all below the relevant UK National Air Quality Objectives.

### **Conclusions relating to New Local Developments**

Blaenau Gwent CBC has assessed all new or significantly changed sources in the Borough and relevant new or significantly changes sources in nearby Local Authority areas and has concluded that it is unlikely that the impact of these will result in a potential exceedance of any of the UK National Air Quality Objectives within the Borough.

### **Other Conclusions**

This report has not identified the need to proceed to a Detailed Assessment for any pollutant relevant to the UK National Air Quality Objectives.

### **Proposed Actions**

Blaenau Gwent CBC will continue to monitor for Nitrogen Dioxide subject to the continuous review and assessment of the existing and newly identified monitoring sites for the calendar year of 2023.

It is proposed that the results of monitoring carried out during the calendar year of 2022 will be presented in the 2023 Air Quality Progress Report which will be prepared as part of the Updating and Screening Assessment process.

## References

Blaenau Gwent CBC, all previous reports produced as part of the air quality review process. <https://www.blaenau-gwent.gov.uk/en/resident/environmental-health/pollution/air-quality/>

Blaenau Gwent CBC, Decarbonisation plan 2020-30. <https://www.blaenau-gwent.gov.uk/en/council/policies-plans-strategies/decarbonisation-plan-2020-2030/>

DEFRA, (2022), Local Air Quality Management - Technical Guidance LAQM.TG(22), DEFRA.- <https://laqm.defra.gov.uk/air-quality/featured/uk-regions-exc-london-technical-guidance/>

Air PT Scheme results for Laboratory- <https://laqm.defra.gov.uk/air-quality/air-quality-assessment/ga-gc-framework/>

National Bias Adjustment Factors- <https://laqm.defra.gov.uk/air-quality/air-quality-assessment/national-bias/>

## **Appendices**

Appendix A: Monthly Diffusion Tube Monitoring Results

Appendix B: A Summary of Local Air Quality Management

Appendix C: Air Quality Monitoring Data QA/QC

Appendix D: Blaenau Gwent CBC boundary area and diffusion tube location plan

Appendix E: Individual location plans for all diffusion tubes within Blaenau Gwent for 2020

## Appendix A: Monthly Diffusion Tube Monitoring Results

**Table A.1 – Full Monthly Diffusion Tube Results for 2021 ( $\mu\text{g}/\text{m}^3$ )**

Site ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Raw Data	Bias Adjusted (0.82) and Annualised <sup>(1)</sup>	Distance Corrected to Nearest Exposure <sup>(2)</sup>
BGBC-01	16.39	17.30	13.12	17.48	13.98	13.62	13.89	8.74	20.89	12.33	15.00	13.11	14.65	12.01	n/a
BGBC-04	11.05	9.68	6.62	5.93	4.71	4.71	4.21	7.71	6.66	7.07	8.77	7.73	7.07	5.79	n/a
BGBC-05	18.05	12.59	12.37	12.68	10.62	9.63	10.30	5.43	13.17	12.07	14.91	13.80	12.13	9.94	n/a
BGBC-07	18.79	15.84	12.33	12.11	11.34	9.49	9.92	7.45	11.77	13.06	18.69	15.52	13.02	10.67	n/a
BGBC-13	6.05	7.17	4.29	3.69	4.03	3.68	3.23	3.35	4.43	4.56	5.23	5.57	4.61	3.78	n/a
BGBC-16	24.29	17.54	18.41	14.94	16.65	15.25	15.42	15.23	18.02	19.29	24.16	17.66	18.07	14.81	n/a
BGBC-18	13.54	17.76	14.73	13.73	12.85	12.34	11.88	16.75	17.68	13.52	18.74	16.12	14.97	12.27	n/a
BGBC-19	21.65	24.68	20.28	20.92	22.00	18.35	18.67	4.04	22.83	20.32	21.05	20.97	19.65	16.11	n/a
BGBC-20	21.62	27.31	16.69	22.59	21.34	22.33	21.99	5.19	26.79	22.13	22.07	22.41	21.04	17.25	n/a
BGBC-21	14.02	13.46	12.87	13.26	9.29	9.43	10.19	5.35	11.28	11.53	13.74	10.40	11.23	9.20	n/a
BGBC-22	16.59	12.69	10.29	12.50	10.52	9.00	9.92	5.86	14.12	12.47	17.77	12.53	12.02	9.85	n/a

Site ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Raw Data	Bias Adjusted (0.82) and Annualised <sup>(1)</sup>	Distance Corrected to Nearest Exposure <sup>(2)</sup>
BGBC-23	16.15	15.14	12.82	10.82	12.07	9.11	9.63	5.78	12.13	12.27	15.08	14.89	12.16	9.97	n/a
BGBC-24	14.69	16.15	11.16	8.93	9.82	9.25	8.57	21.13	12.60	13.91	11.26	13.93	12.62	10.34	n/a
BGBC-25	13.55	10.62	9.14	10.39	9.94	10.18	x	8.10	12.56	11.62	12.68	9.71	10.77	8.83	n/a
BGBC-26	20.45	16.02	13.30	11.68	11.29	9.59	9.66	5.97	13.05	15.19	18.11	16.99	13.44	11.02	n/a
BGBC-27	9.61	9.40	7.78	6.96	6.69	7.12	6.47	4.82	7.34	7.60	8.18	8.30	7.52	6.16	n/a
BGBC-28	10.84	10.55	7.76	7.35	5.73	7.14	6.00	6.04	14.30	6.50	7.12	7.34	8.06	6.60	n/a
BGBC-29	11.35	9.09	8.24	6.53	5.38	5.23	5.25	4.73	6.04	6.65	7.57	8.14	7.02	5.75	n/a
BGBC-30	11.91	8.81	8.09	8.11	5.20	6.20	5.98	3.80	8.05	7.30	8.27	9.16	7.57	6.20	n/a
BGBC-31	7.44	8.54	5.75	4.36	4.42	4.40	4.00	8.00	5.35	5.81	5.01	8.10	5.93	4.86	n/a
BGBC-32	12.07	11.13	8.26	x	6.11	5.35	5.42	3.46	7.50	8.71	10.88	8.93	7.98	6.54	n/a
BGBC-34	11.87	9.14	7.62	7.27	5.54	4.91	4.72	12.56	6.71	7.97	9.05	8.39	7.98	6.54	n/a
BGBC-35	13.24	10.96	10.00	11.12	6.87	8.58	8.39	8.77	10.67	9.96	11.18	10.11	9.99	8.19	n/a
BGBC-36	14.22	11.19	11.37	10.29	9.24	7.48	8.16	6.92	11.37	11.36	12.54	12.59	10.56	8.65	n/a
BGBC-37	12.27	9.61	x	6.70	5.64	5.21	5.11	3.43	x	8.20	x	8.56	7.19	5.89	n/a

Site ID	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Raw Data	Bias Adjusted (0.82) and Annualised <sup>(1)</sup>	Distance Corrected to Nearest Exposure <sup>(2)</sup>
BGBC-38	12.83	11.22	7.27	7.13	7.12	7.16	5.96	4.57	8.38	8.27	9.88	9.76	8.30	6.80	n/a
BGBC-39	17.73	10.27	9.31	8.48	6.74	6.29	x	5.37	7.63	9.63	12.84	12.02	9.67	7.92	n/a

**Notes:**

Exceedances of the NO<sub>2</sub> annual mean objective of 40µg/m<sup>3</sup> are shown in **bold**.

NO<sub>2</sub> annual means exceeding 60µg/m<sup>3</sup>, indicating a potential exceedance of the NO<sub>2</sub> 1-hour mean objective are shown in **bold and underlined**.

(1) See Appendix C for details on bias adjustment and annualisation.

(2) Distance corrected to the nearest relevant public exposure

(3) x = tube missing.

## Appendix B: A Summary of Local Air Quality Management

### Purpose of an Annual Progress Report

This report fulfils the requirements of the Local Air Quality Management (LAQM) process as set out in the Environment Act 1995 and associated government guidance. The LAQM process places an obligation on all local authorities to regularly review and assess air quality in their areas and to determine whether or not the air quality objectives are being achieved. Where exceedances occur, or are likely to occur, the local authority must then declare an Air Quality Management Area (AQMA) and prepare an Air Quality Action Plan (AQAP) within 18 months of declaration setting out the measures it intends to put in place in pursuit of the objectives. Action plans should then be reviewed and updated where necessary at least every five years.

For Local Authorities in Wales, an Annual Progress Report replaces all other formal reporting requirements and have a very clear purpose of updating the general public on air quality, including what ongoing actions are being taken locally to improve it if necessary.

### Air Quality Objectives

The air quality objectives applicable to LAQM in Wales are set out in the Air Quality (Wales) Regulations 2000, No. 1940 (Wales 138), Air Quality (Amendment) (Wales) Regulations 2002, No 3182 (Wales 298), and are shown in Table B.1.

The table shows the objectives in units of microgrammes per cubic metre  $\mu\text{g}/\text{m}^3$  (milligrammes per cubic metre,  $\text{mg}/\text{m}^3$  for carbon monoxide) with the number of exceedances in each year that are permitted (where applicable).

**Table B.1 – Air Quality Objectives Included in Regulations for the Purpose of LAQM in Wales**

<b>Pollutant</b>	<b>Air Quality Objective: Concentration</b>	<b>Air Quality Objective: Measured as</b>	<b>Date to be achieved by</b>
<b>Nitrogen Dioxide (NO<sub>2</sub>)</b>	200µg/m <sup>3</sup> not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
<b>Nitrogen Dioxide (NO<sub>2</sub>)</b>	40µg/m <sup>3</sup>	Annual mean	31.12.2005
<b>Particulate Matter (PM<sub>10</sub>)</b>	50µg/m <sup>3</sup> , not to be exceeded more than 35 times a year	24-hour mean	31.12.2010
<b>Particulate Matter (PM<sub>10</sub>)</b>	40µg/m <sup>3</sup>	Annual mean	31.12.2010
<b>Sulphur dioxide (SO<sub>2</sub>)</b>	350µg/m <sup>3</sup> , not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
<b>Sulphur dioxide (SO<sub>2</sub>)</b>	125µg/m <sup>3</sup> , not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
<b>Sulphur dioxide (SO<sub>2</sub>)</b>	266µg/m <sup>3</sup> , not to be exceeded more than 35 times a year	15-minute mean	31.12.2005
<b>Benzene</b>	16.25µg/m <sup>3</sup>	Running annual mean	31.12.2003
<b>Benzene</b>	5µg/m <sup>3</sup>	Annual mean	31 12 2010
<b>1,3 Butadiene</b>	2.25µg/m <sup>3</sup>	Running annual mean	31.12.2003
<b>Carbon Monoxide</b>	10.0mg/m <sup>3</sup>	Maximum Daily Running 8-Hour mean	31.12.2003
<b>Lead</b>	0.25µg/m <sup>3</sup>	Annual Mean	31.12.2008



## Appendix C: Air Quality Monitoring Data QA/QC

### QA/QC of Diffusion Tube Monitoring

- Gradko Environmental provided and analysed all of our diffusion tubes in 2020 using the 50% TEA in Acetone method. They demonstrated satisfactory performance in the Air PT scheme.
- The same diffusion tube supplier (Gradko Environmental) was used for the full calendar year for all monitoring sites.
- The monitoring has been completed in adherence with the 2021 Diffusion Tube Monitoring Calendar.

#### Diffusion Tube Annualisation

All diffusion tube monitoring locations within Blaenau Gwent CBC recorded data capture of 75% therefore it was not required to annualise any monitoring data. In addition, any sites with a data capture below 25% do not require annualisation.

#### Diffusion Tube Bias Adjustment Factors

Blaenau Gwent CBC have applied a national bias adjustment factor of 0.82 to the 2021 monitoring data. A summary of bias adjustment factors used by Blaenau Gwent CBC over the past five years is presented in Table C.1.

**Table C.1 – Bias Adjustment Factor**

Year	Local or National	If National, Version of National Spreadsheet	Adjustment Factor
2021	National	6/22	0.82
2020	National	03/21	0.82
2019	National		0.89
2018	National		0.89
2017	National		0.96
2016	National		1.03

### **NO<sub>2</sub> Fall-off with Distance from the Road**

No diffusion tube NO<sub>2</sub> monitoring locations within Blaenau Gwent CBC required distance correction during 2021.

### **QA/QC of Automatic Monitoring**

Blaenau Gwent CBC does not undertake any automatic monitoring.

Database\_Diffusion\_Tube\_Bias\_Factors\_v06\_22-FINAL - Excel

Griffin, Tim

### National Diffusion Tube Bias Adjustment Factor Spreadsheet

Spreadsheet Version Number: 06/22

Follow the steps below **in the correct order** to show the results of **relevant** co-location studies

Data only apply to tubes exposed monthly and are not suitable for correcting individual short-term monitoring periods

Whenever presenting adjusted data, you should state the adjustment factor used and the version of the spreadsheet

This spreadsheet will be updated every few months; the factors may therefore be subject to change. This should not discourage their immediate use.

The LAQM Helpdesk is operated on behalf of Defra and the Devolved Administrations by Bureau Veritas, in conjunction with contract partners AECOM and the National Physical Laboratory.

Spreadsheet maintained by the National Physical Laboratory. Original compiled by Air Quality Consultants Ltd.

This spreadsheet will be updated at the end of September 2022

LAQM Helpdesk Website

**Step 1:** Select the Laboratory that Analyses Your Tubes from the Drop-Down List

**Step 2:** Select a Preparation Method from the Drop-Down List

**Step 3:** Select a Year from the Drop-Down List

**Step 4:** Where there is only one study for a chosen combination, you should use the adjustment factor shown with caution. Where there is more than one study, use the overall factor<sup>2</sup> shown in blue at the foot of the final column.

If a laboratory is not shown, we have no data for this laboratory.

If a preparation method is not shown, we have no data for this method at this laboratory.

If a year is not shown, we have no data<sup>2</sup>.

If you have your own co-location study then see footnote<sup>3</sup>. If uncertain what to do then contact the Local Air Quality Management Helpdesk at LAQMHelpdesk@bureauveritas.com or 0800 0327953

Analysed By <sup>1</sup>	Method <sup>2</sup>	Year <sup>2</sup>	Site Type	Local Authority	Length of Study (months)	Diffusion Tube Mean Conc. (Dm) (µg/m <sup>3</sup> )	Automatic Monitor Mean Conc. (Cm) (µg/m <sup>3</sup> )	Bias (B)	Tube Precision <sup>3</sup>	Bias Adjustment Factor (A) (Cm/Dm)	
2914	50% TEA in Acetone	2021	UB	Sandwell Metropolitan Borough Council	11	23	19	22.2%	G	0.82	
2930	50% TEA in acetone	2021	UB	Middlesbrough	12	18	14	32.6%	G	0.75	
2956	50% TEA in acetone	2021	R	London Borough of Richmond upon Thames	12	24	21	15.1%	G	0.87	
2957	50% TEA in acetone	2021	B	London Borough of Richmond upon Thames	9	16	13	21.5%	G	0.82	
2971	50% TEA in acetone	2021	KS	Marylebone Road Intercomparison	10	52	41	24.2%	G	0.81	
2981	50% TEA in acetone	2021	R	Reading Borough Council	12	30	26	15.9%	G	0.86	
2998	50% TEA in acetone	2021	R	Merton Council	9	50	32	55.4%	G	0.64	
3001	50% TEA in acetone	2021	UB	Wandsworth Council	11	29	26	9.8%	G	0.91	
3016	50% TEA in acetone	2021	R	LB Newham	11	29	23	26.6%	G	0.79	
3017	50% TEA in acetone	2021	KS	London Borough of Croydon	12	48	39	23.4%	G	0.81	
3384	50% TEA in acetone	2021	Overall Factor <sup>2</sup> (16 studies)							Use	0.82

For Casella Stanger/Bureau Veritas (NOT Bureau Veritas Labs) use Gradko 50% TEA in Acetone.

For Casella Seal/GMSS/Casella CRE/Bureau Veritas Labs/Eurofins/ use Environmental Scientific Groups.

Collocation Data Revisions

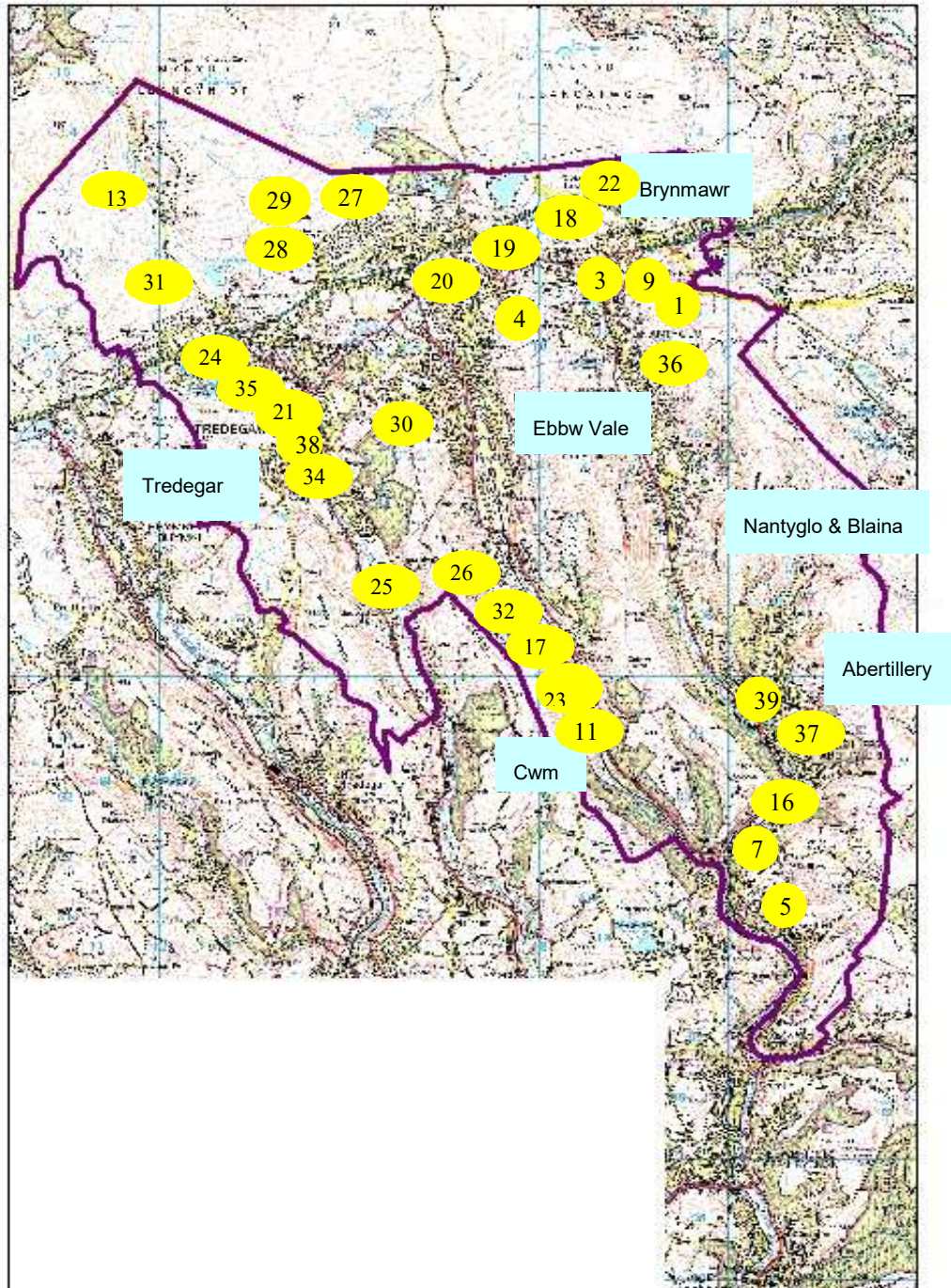
Ready 17 of 3383 records found

Activate Windows  
Go to Settings to activate Windows

Rain off and on 09:42 06/09/2022



## Appendix D: Blaenau Gwent boundary area and diffusion tube location plan



## **Appendix E: Individual location plans for all diffusion tubes within Blaenau Gwent 2021**





# Blaenau Gwent County Borough Council

**Location:** BGBC-01- The Darren, Daren-felen Road, Brynmawr

**Easting:** 319540 **Northing:** 211953

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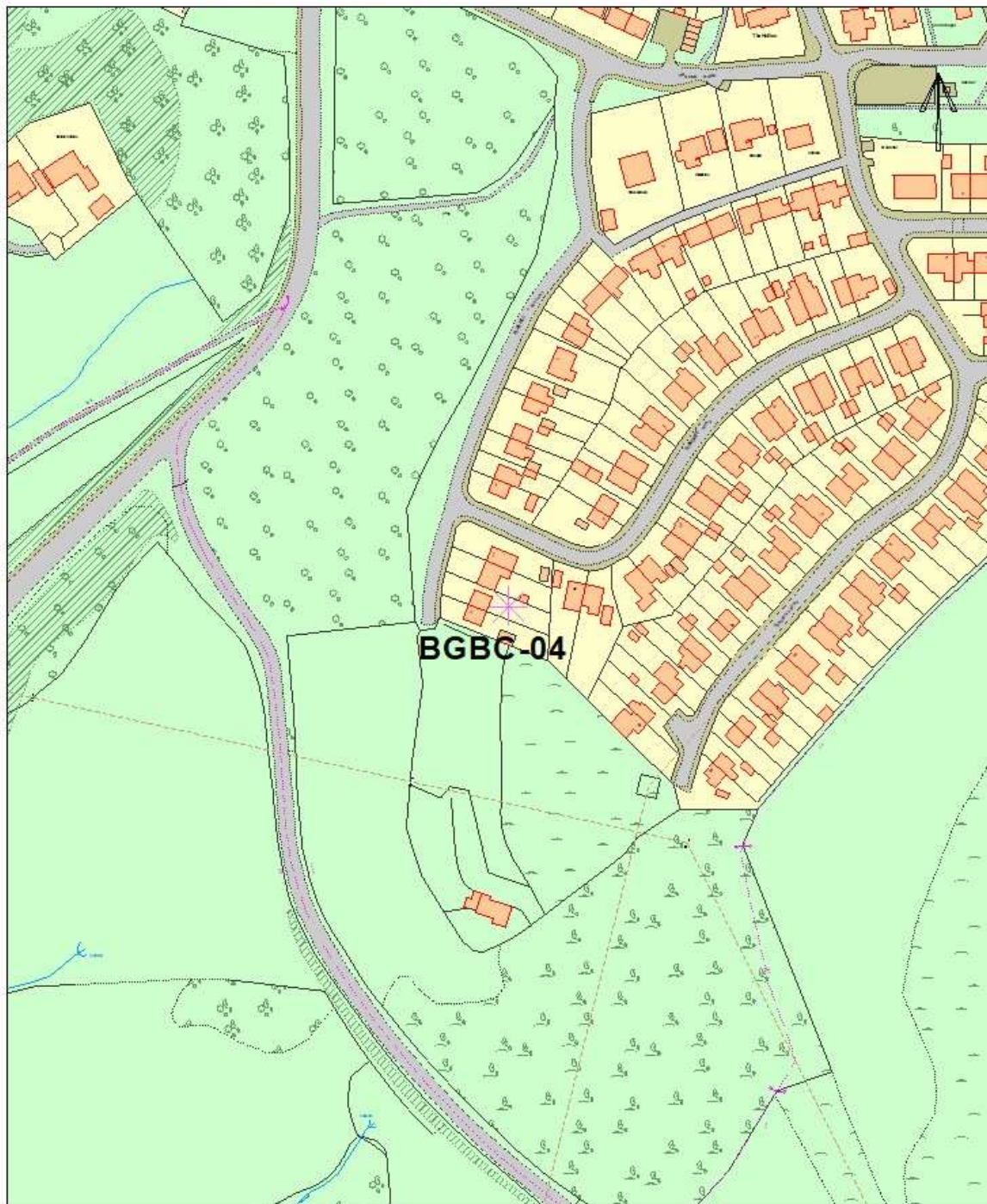


## Blaenau Gwent County Borough Council

**Location:** BGBC-04- 22 Parkhill, Beaufort, Ebbw Vale

**Easting:** 317307 **Northing:** 211285

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Y mae atgynhychu heb awdurdod yn torri Hawlfraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L*





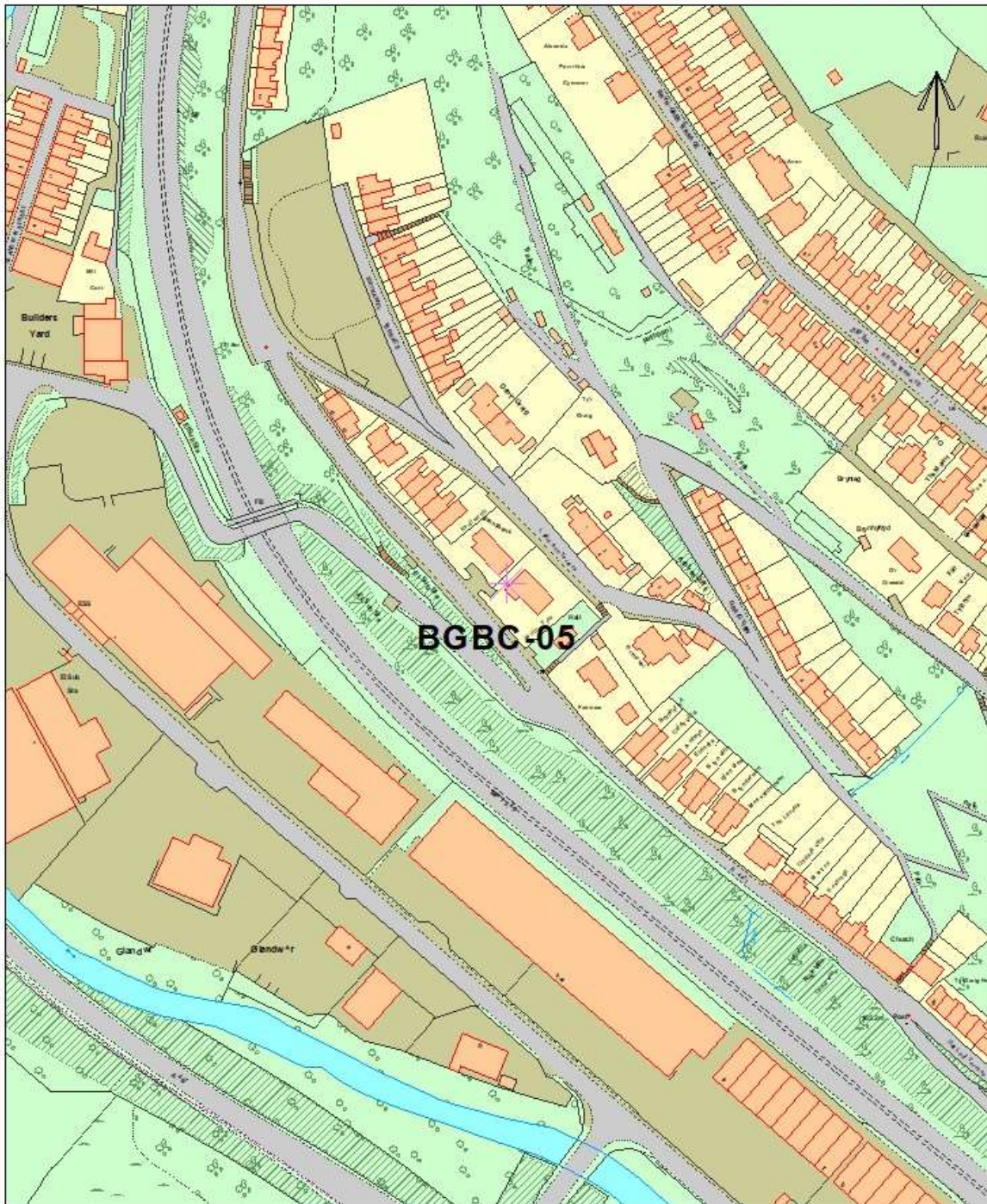


## Blaenau Gwent County Borough Council

Location: BGBC-05- Willow Tree Bungalow, Aberbeeg

Easting: 321132 Northing: 201113

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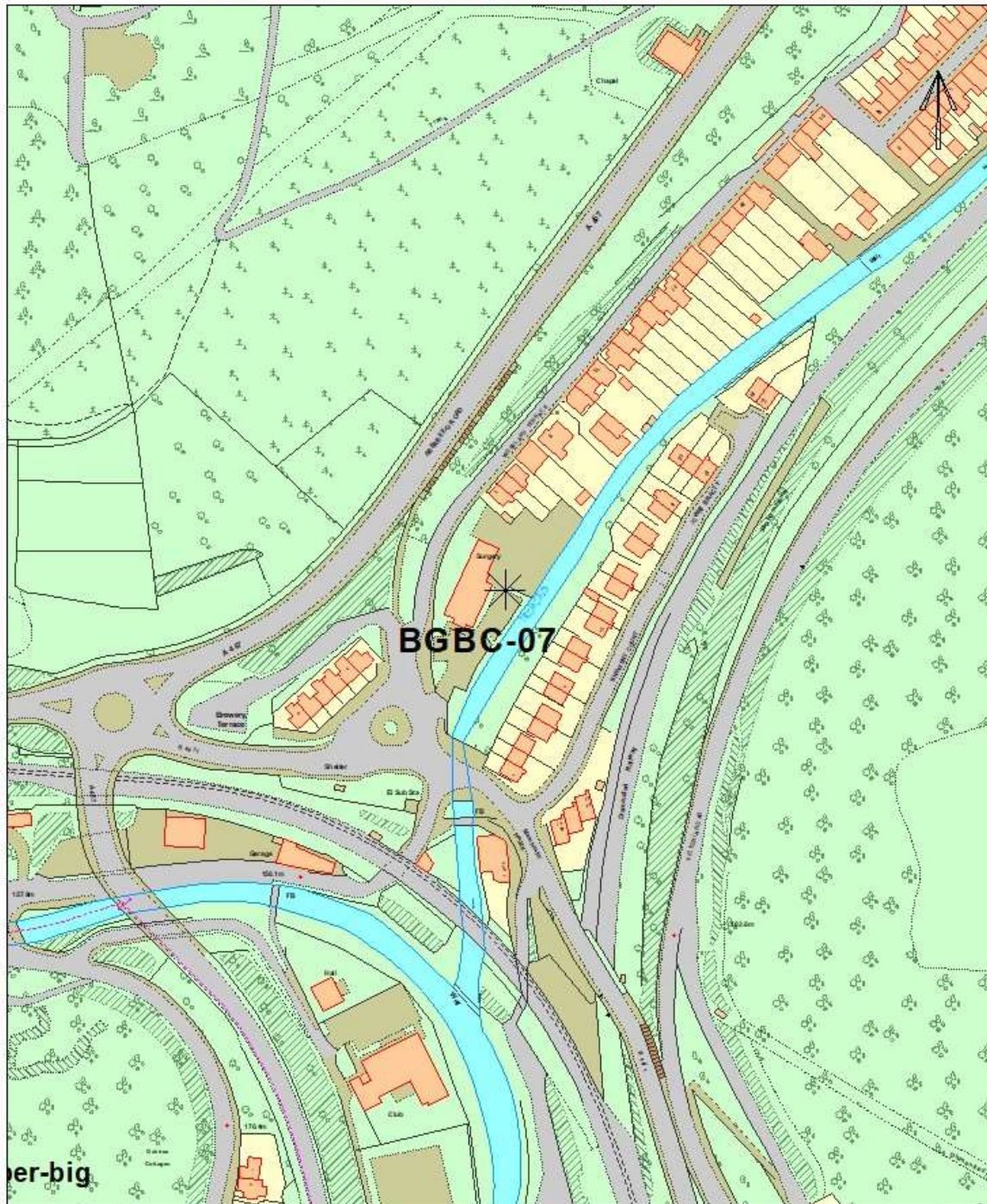


## Blaenau Gwent County Borough Council

Location: BGBC-07 - Aberbeeg Medical Centre, Aberbeeg

Easting: 320969 Northing: 202021

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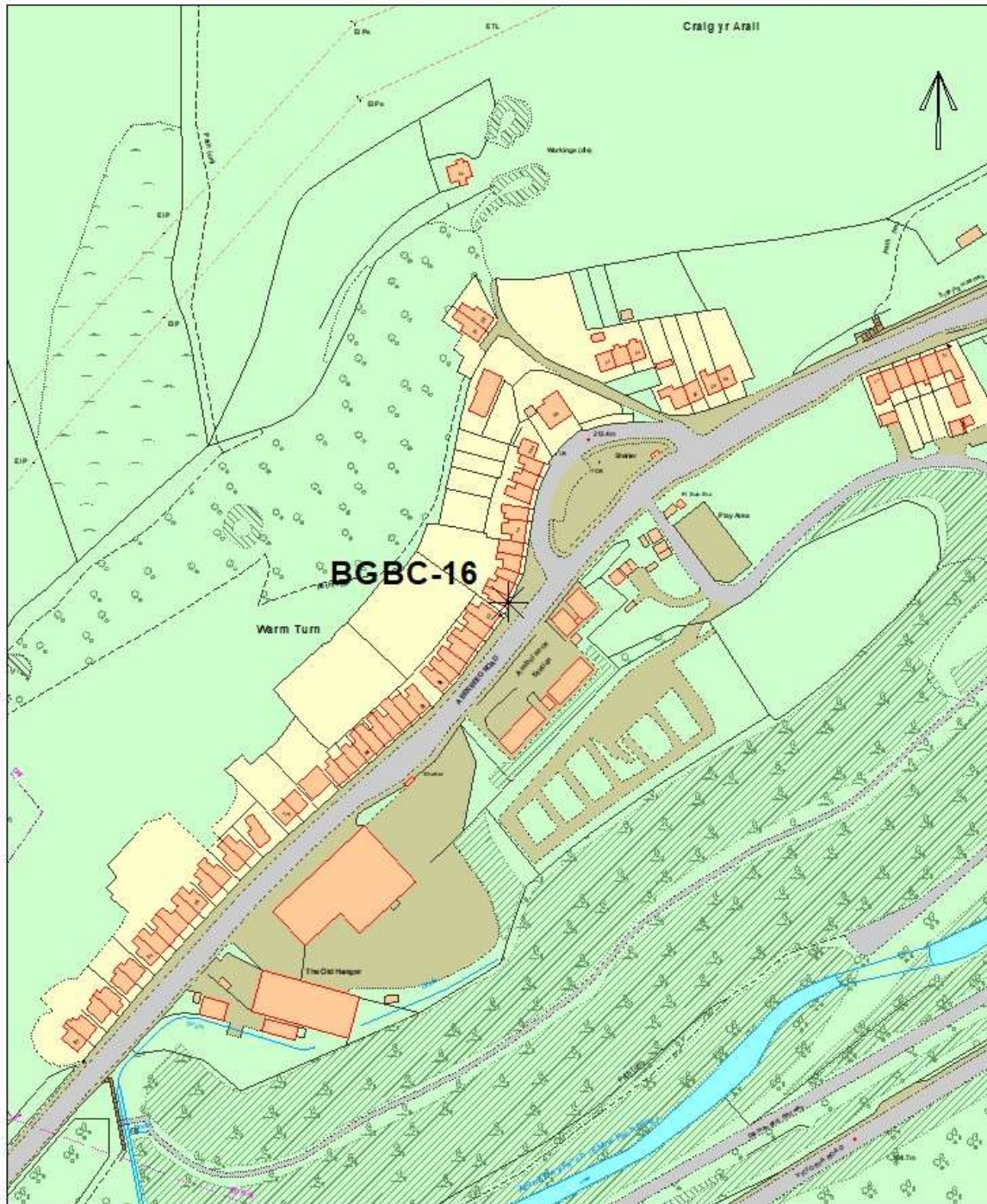


## Blaenau Gwent County Borough Council

Location: BGBC-16- 49 Aberbeeg Road, Aberbeeg

Easting: 321432 Northing: 202667

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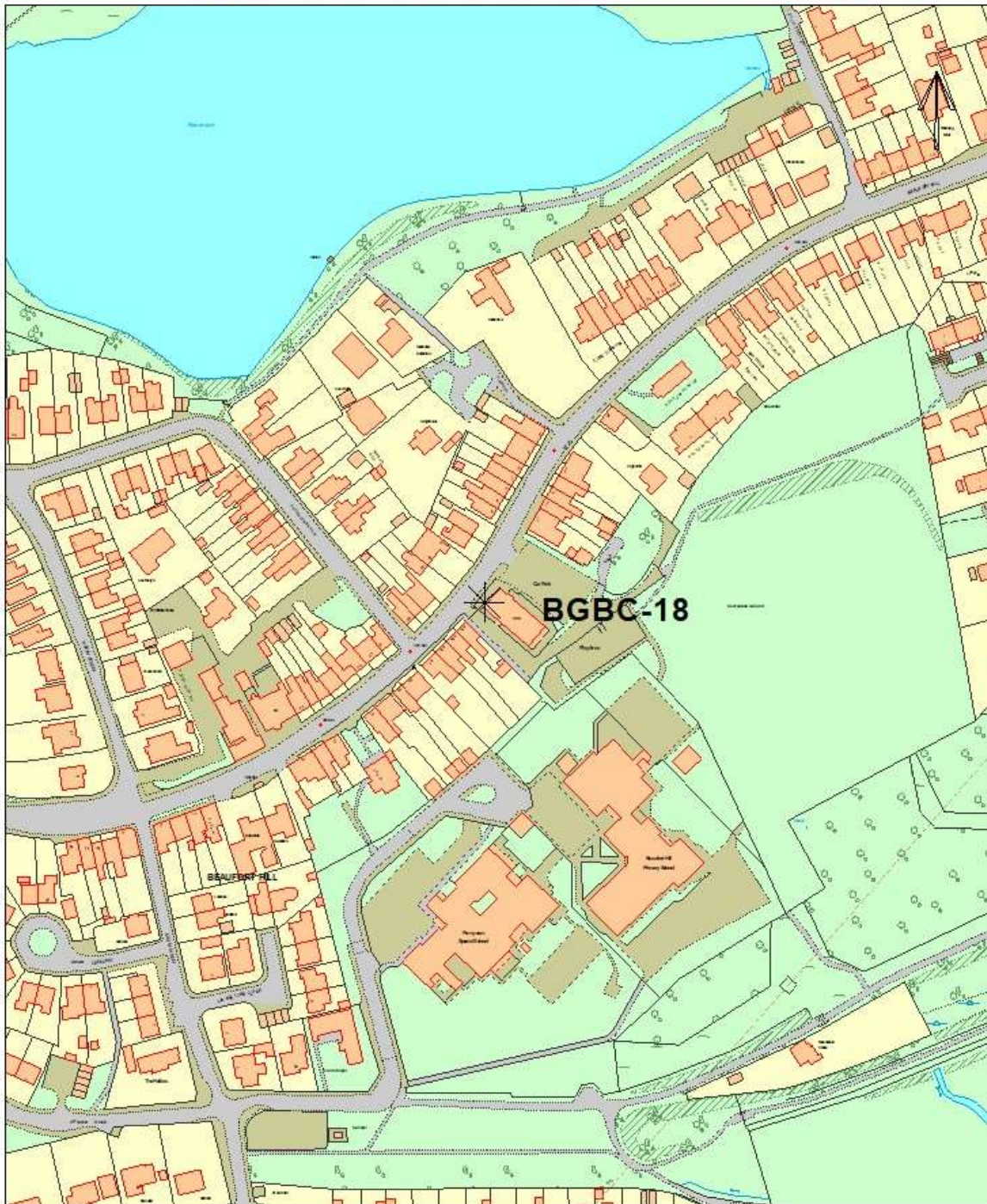


## Blaenau Gwent County Borough Council

**Location:** BGBC-18- Welfare Hall, Beaufort Hill, Ebbw Vale

**Easting:** 317543 **Northing:** 211693

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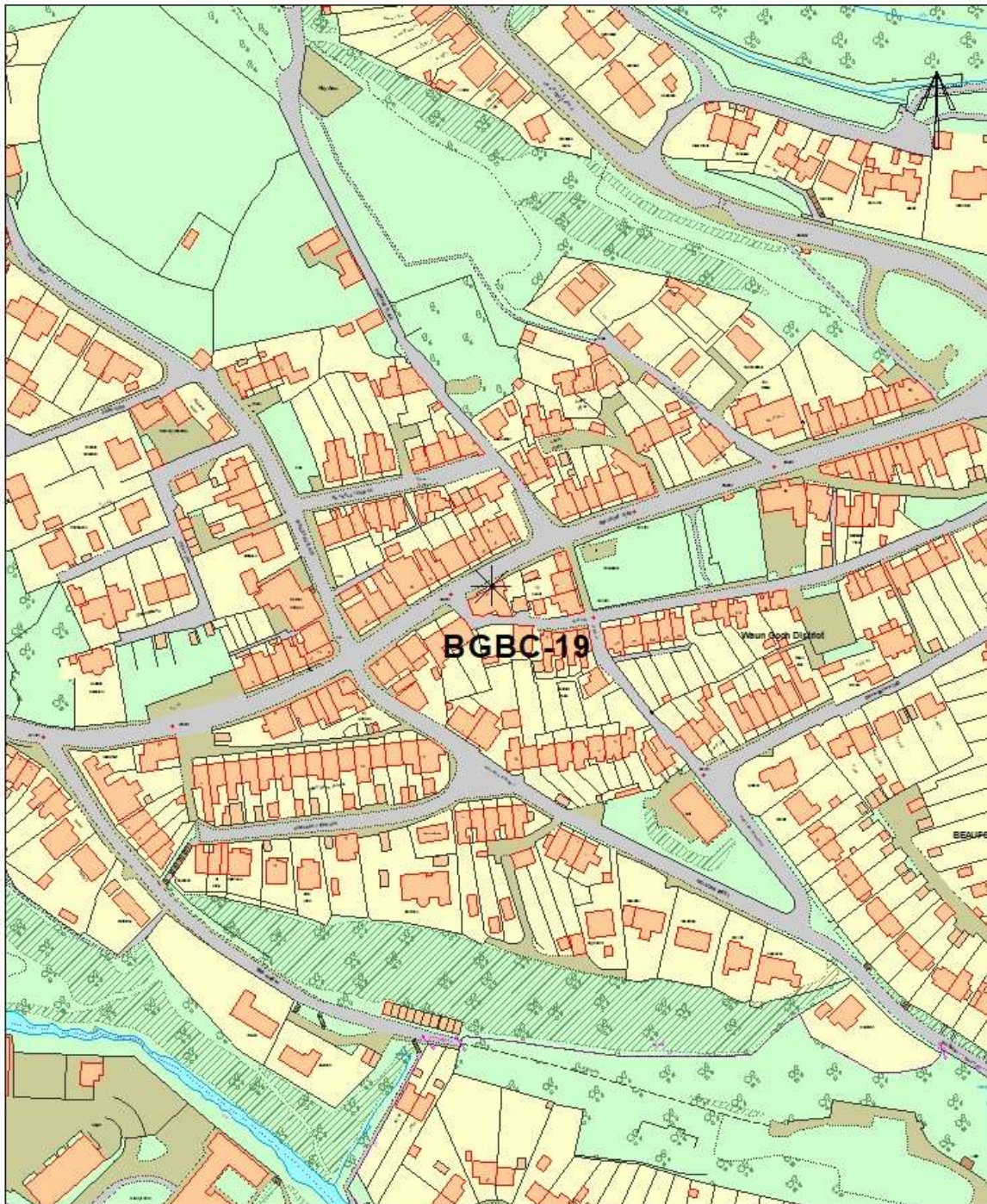


## Blaenau Gwent County Borough Council

**Location:** BGBC-19- 42 Beaufort Rise, Ebbw Vale

**Easting:** 316672 **Northing:** 211595

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## Blaenau Gwent County Borough Council

Location: BGBC-20- 122 Beaufort Road, Tredegar

Easting: 314854 Northing: 210235

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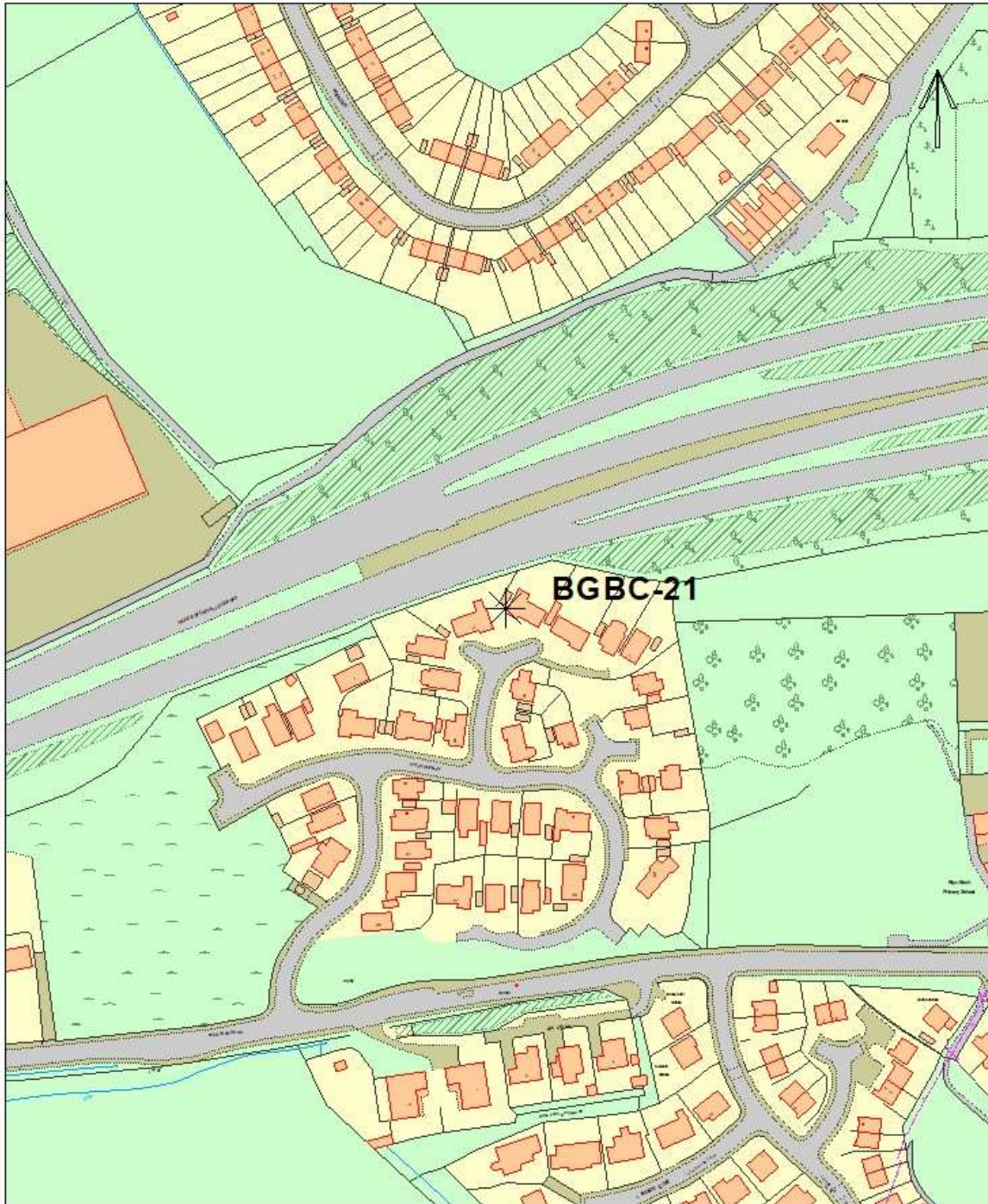


## Blaenau Gwent County Borough Council

**Location:** BGBC-21- 14 Bryn Rhosyn, Merthyr Road, Tredegar

**Easting:** 312842 **Northing:** 210590

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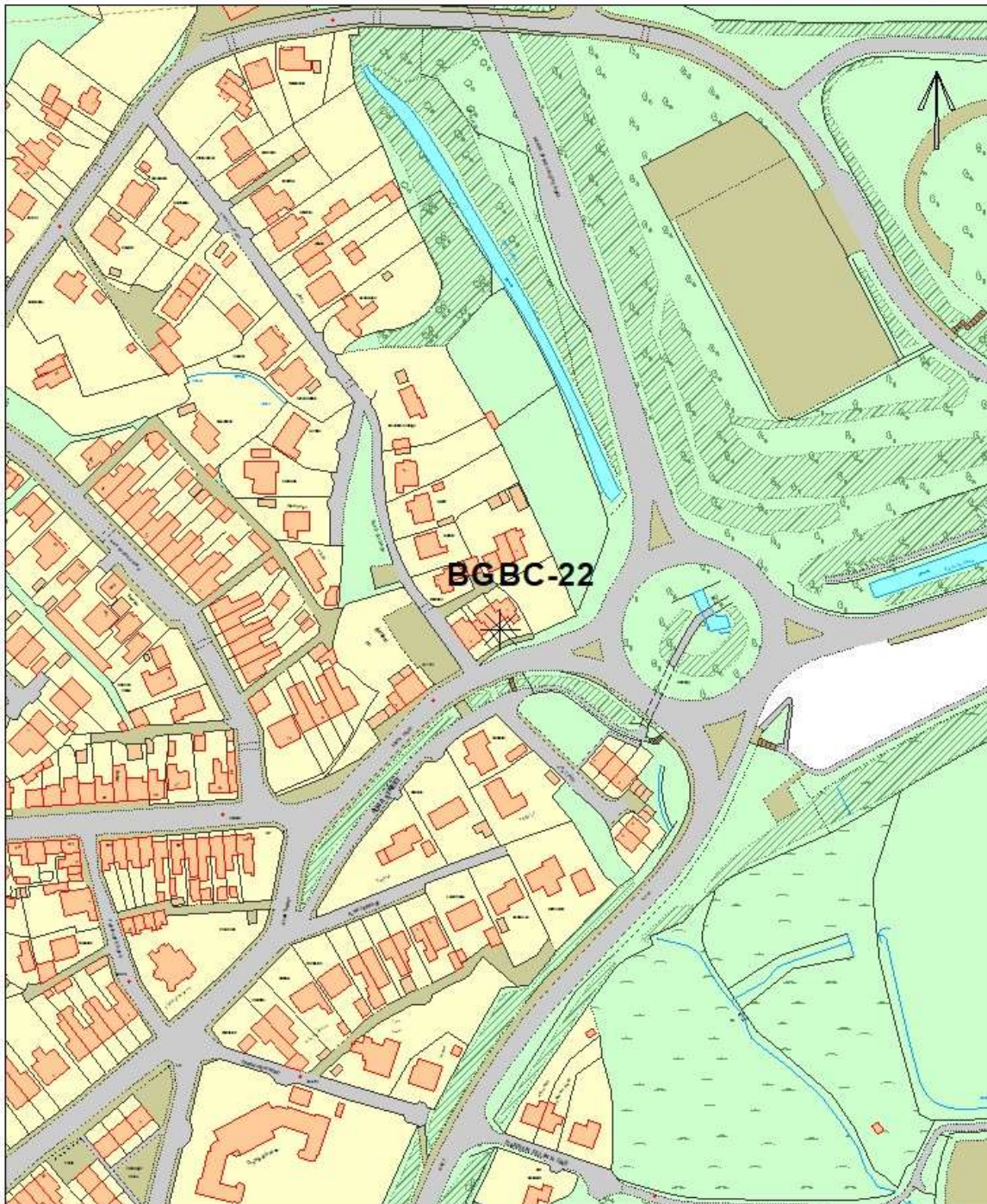


## Blaenau Gwent County Borough Council

Location: BGBC-22- 2 King Street, Brynmawr

Easting: 319561 Northing: 212138

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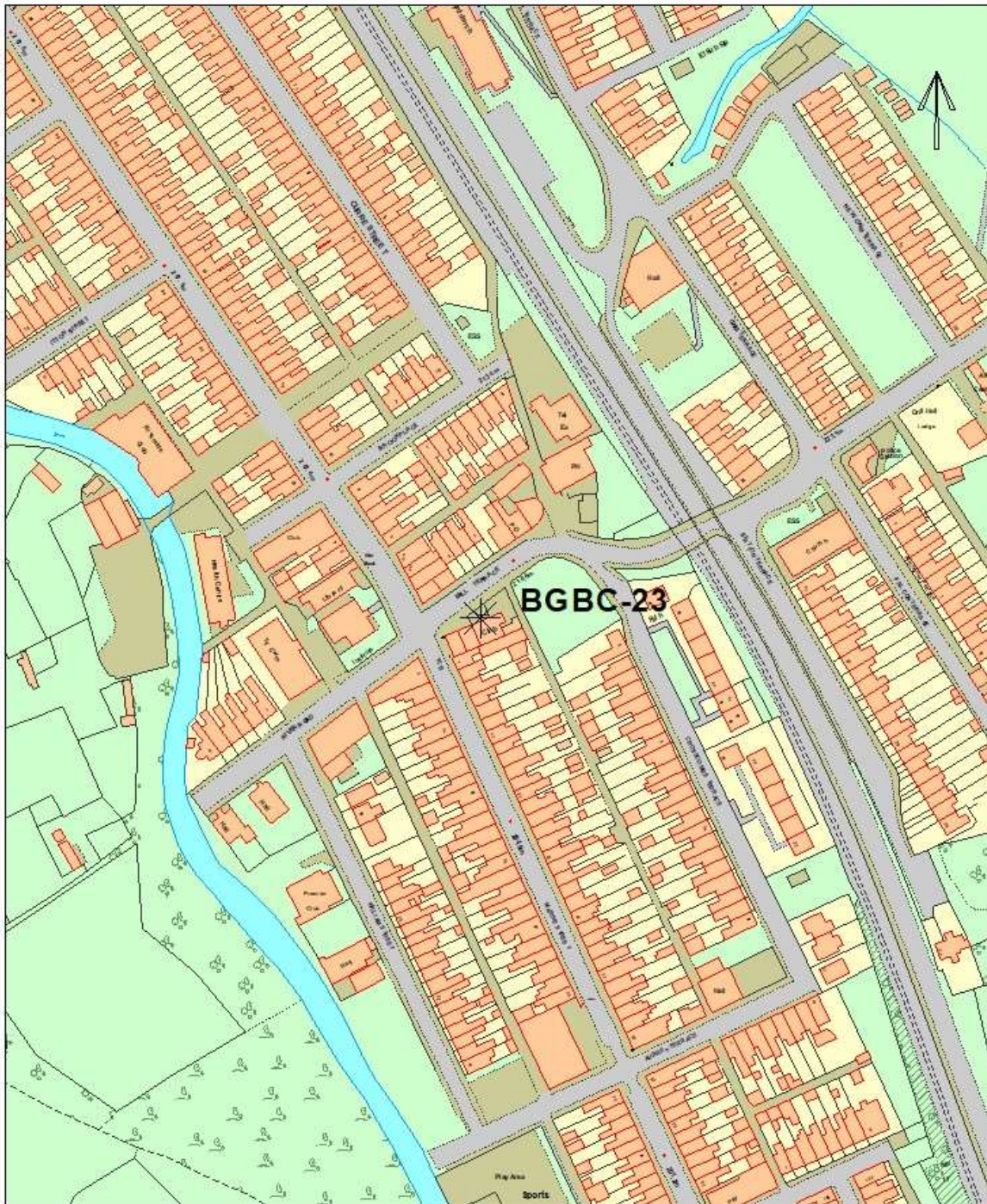


## Blaenau Gwent County Borough Council

**Location:** BGBC-23- Cwm Conservative Club, Mill Terrace, Cwm

**Easting:** 318459 **Northing:** 205313

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## Blaenau Gwent County Borough Council

Location: BGBC-24-4 Glen View, Nantybwhch, Tredegar

Easting: 313147 Northing: 210770

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## Blaenau Gwent County Borough Council

**Location:** BGBC-25- Red Rose Care Centre, Park Road, Ebbw Val

**Easting:** 316990 **Northing:** 207896

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Y mae atgynhychu heb awdurdod yn tori Hawlfraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBCB - LA09002L*





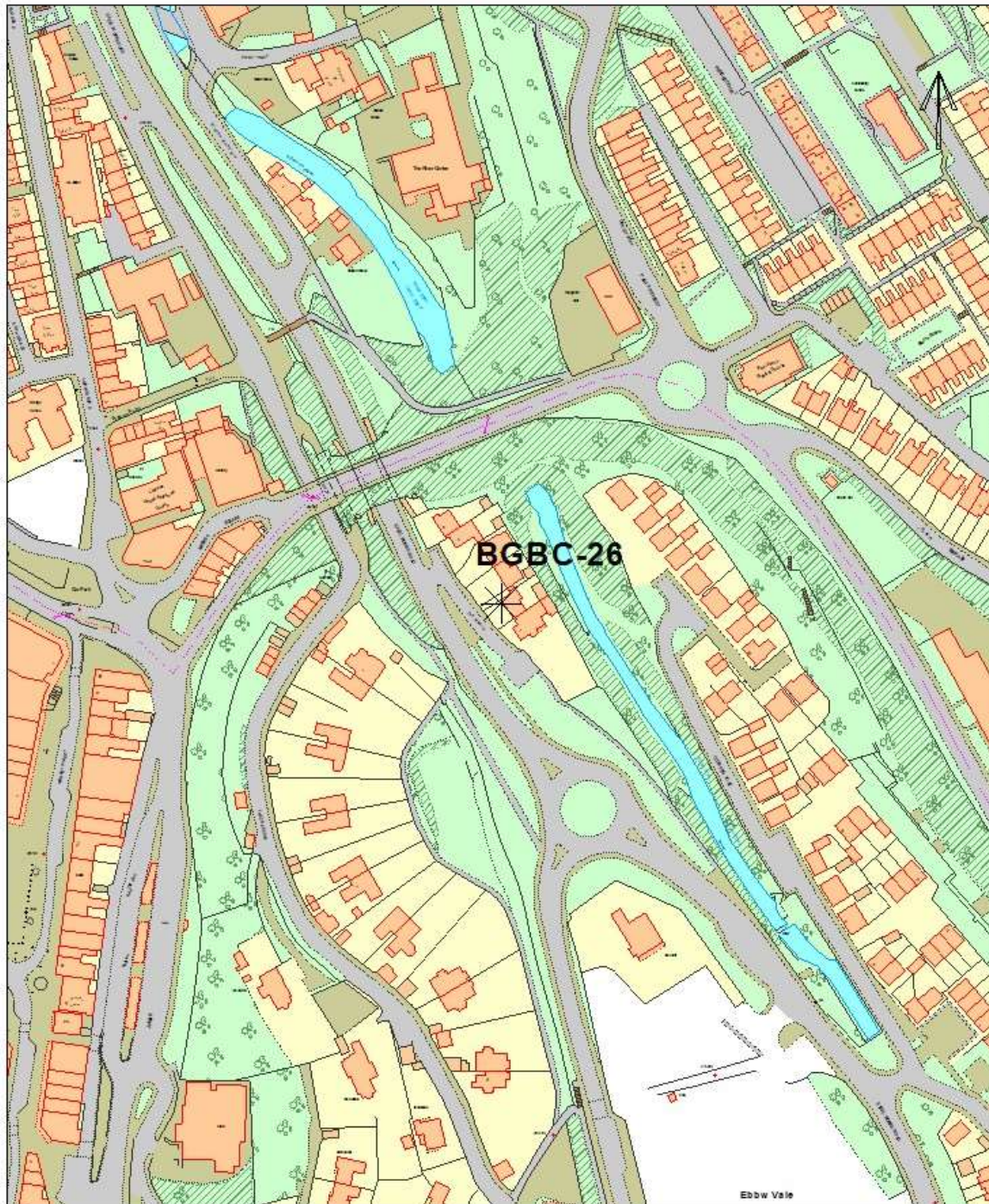


## Blaenau Gwent County Borough Council

Location: BGBC-26- 2 The Dingle, Ebbw Vale

Easting: 316979 Northing: 209842

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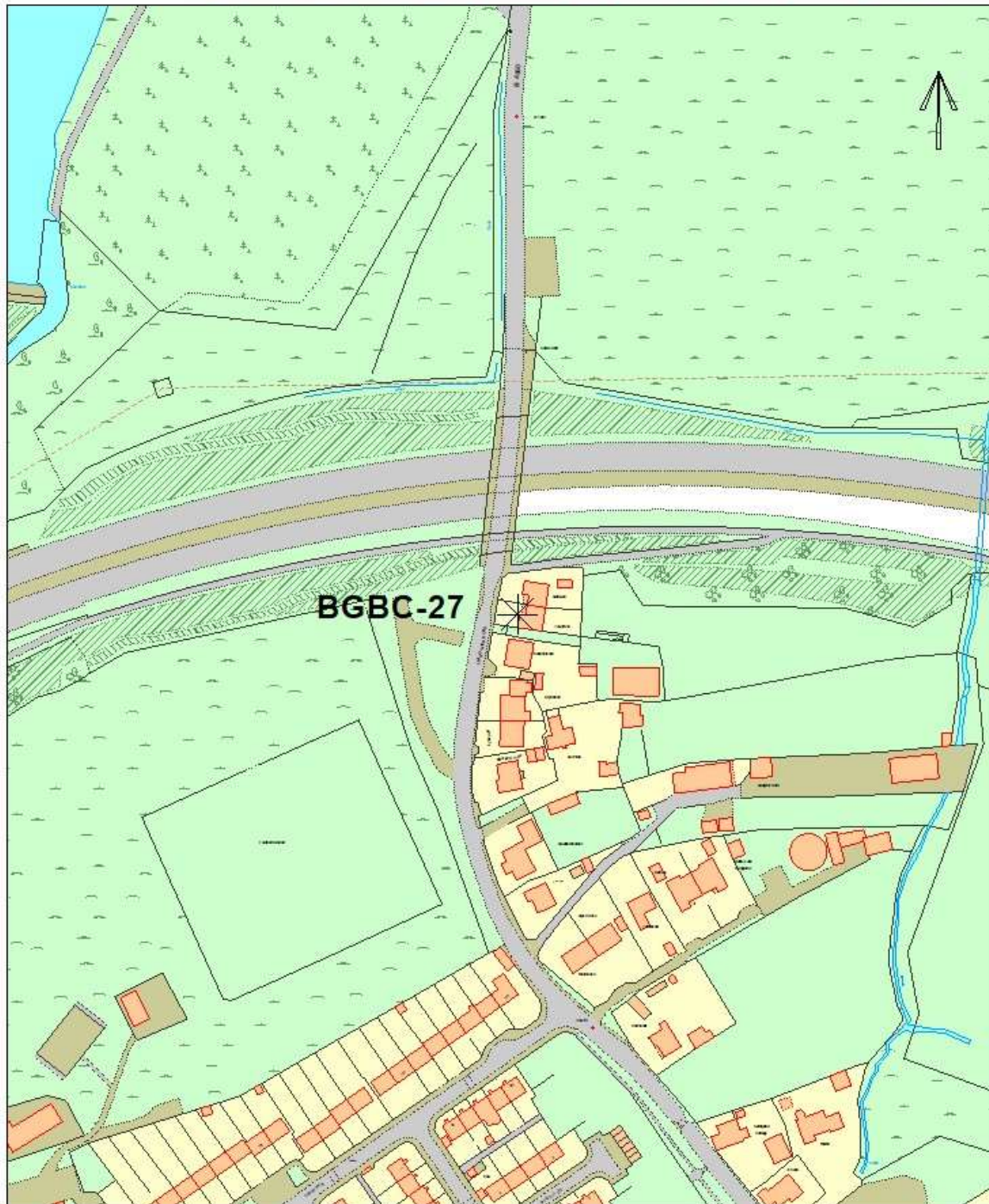


## Blaenau Gwent County Borough Council

**Location:** BGBC-27 - Tyn y Rhyn, Llangynidr Road, Ebbw Vale

**Easting:** 316712 **Northing:** 212801

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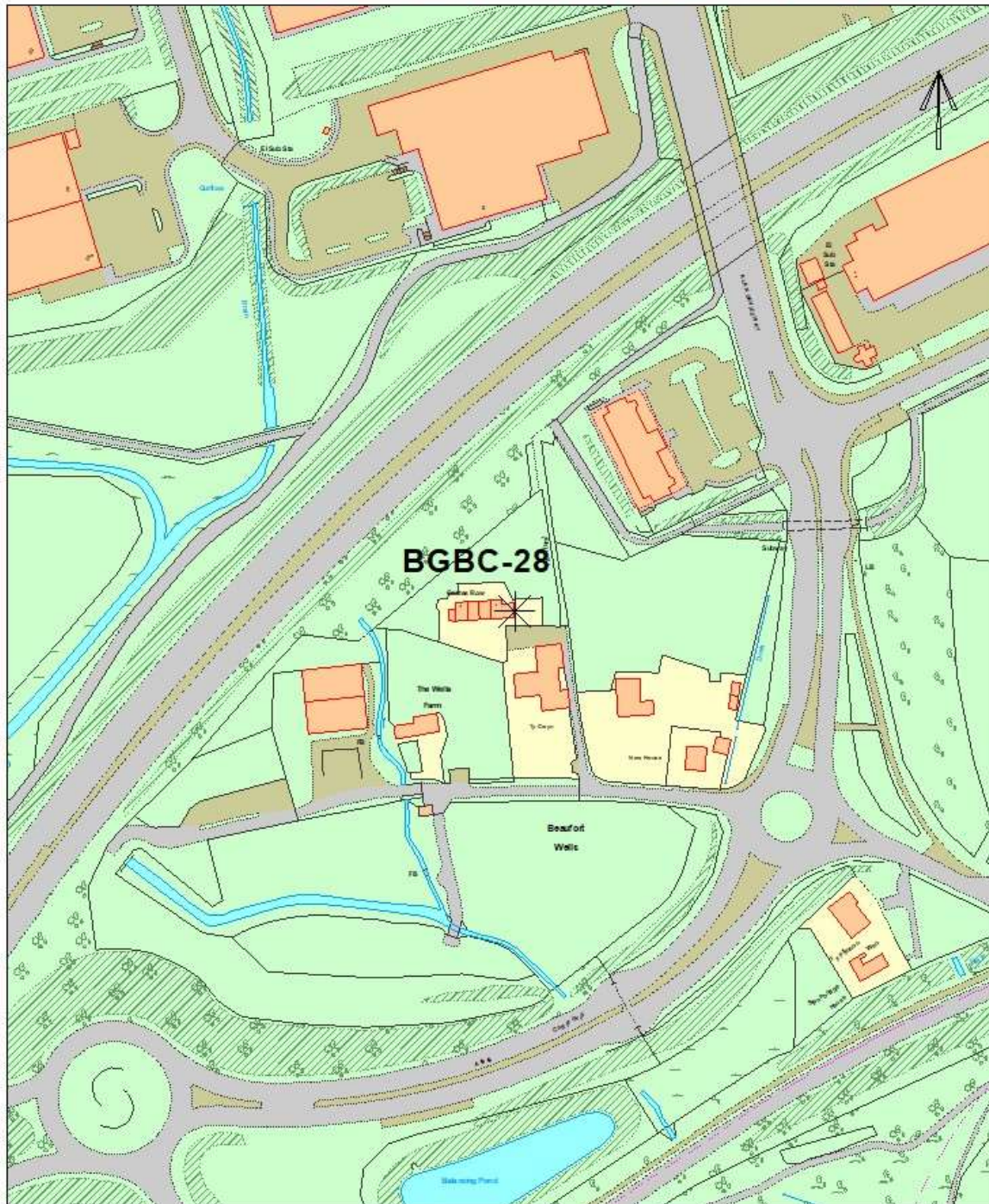


## Blaenau Gwent County Borough Council

Location: BGBC-28- 1 Coates Row, Rassau, Ebbw Vale

Easting: 314491 Northing: 211644

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Y mae atgynhychu heb awdurdod yn torri Hawlfraint y Goron a gall arwain at erlyniad neu achosion sifil. BGBC - LA09002L*







## Blaenau Gwent County Borough Council

Location: BGBC-29- 10 Ivy Close, Rassau, Ebbw Vale.

Easting: 315323 Northing: 211938

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## Blaenau Gwent County Borough Council

**Location:** BGBC-30- 8 Annes Court, Ebbw Vale.

**Easting:** 316005 **Northing:** 210184

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## Blaenau Gwent County Borough Council

Location: BGBC-31- 18 Maes Morgan, Tredegar.

Easting: 312664 Northing: 210970

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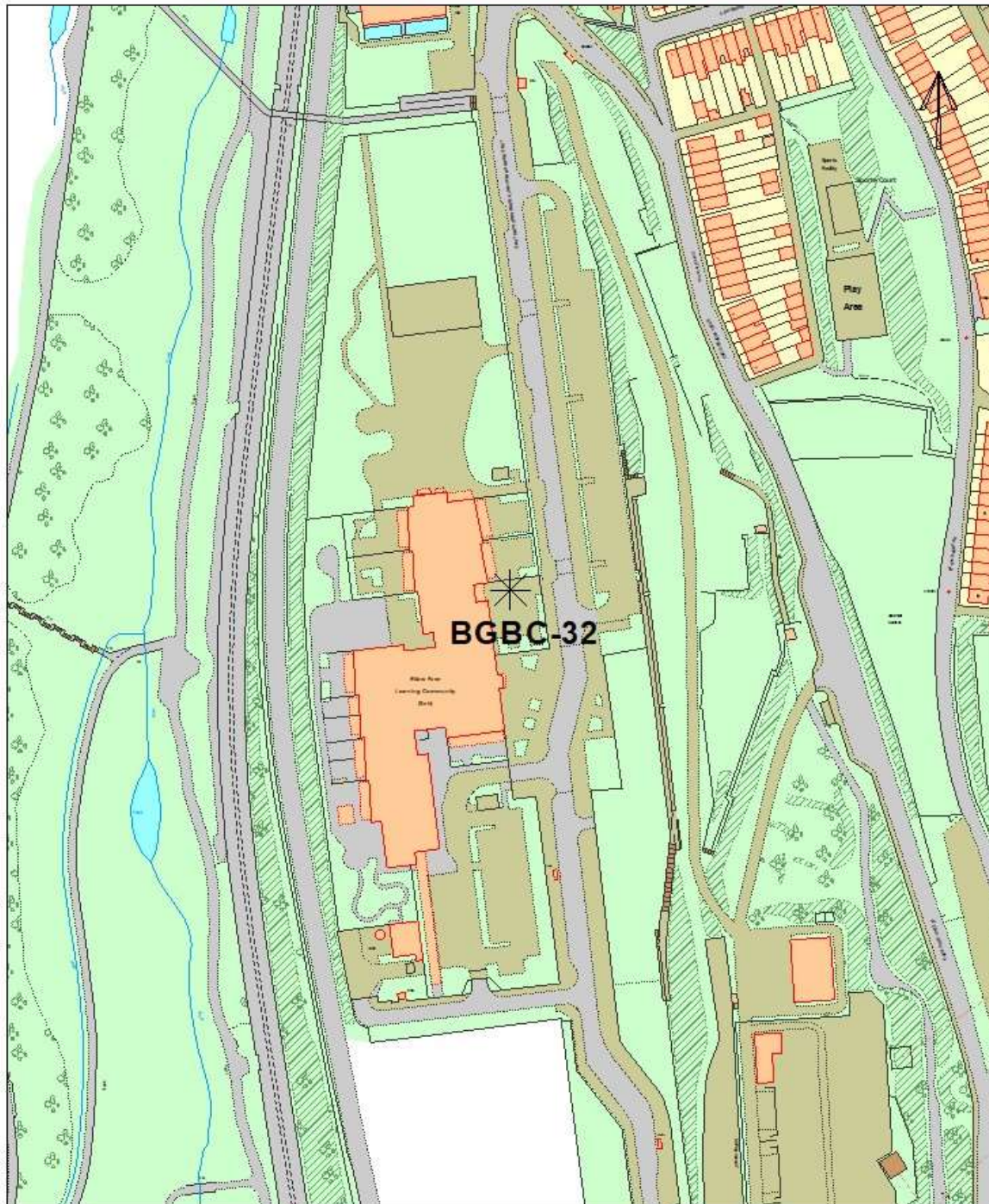


## Blaenau Gwent County Borough Council

Location: BGBC-32- Ebbw Fawr Learning Campus, Primary School

Easting: 317389 Northing: 208312

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## Blaenau Gwent County Borough Council

**Location:** BGBC-34- Georgetown Primary School, Oakfield Road,

**Easting:** 314842 **Northing:** 208255

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## Blaenau Gwent County Borough Council

**Location:** BGBC-35- Brynbach Primary School, Merthyr Road, Tr

**Easting:** 313056 **Northing:** 210464

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## Blaenau Gwent County Borough Council

**Location:** BGBC-36- St Mary's RC Primary School, Brynmawr.

**Easting:** 319229 **Northing:** 211595

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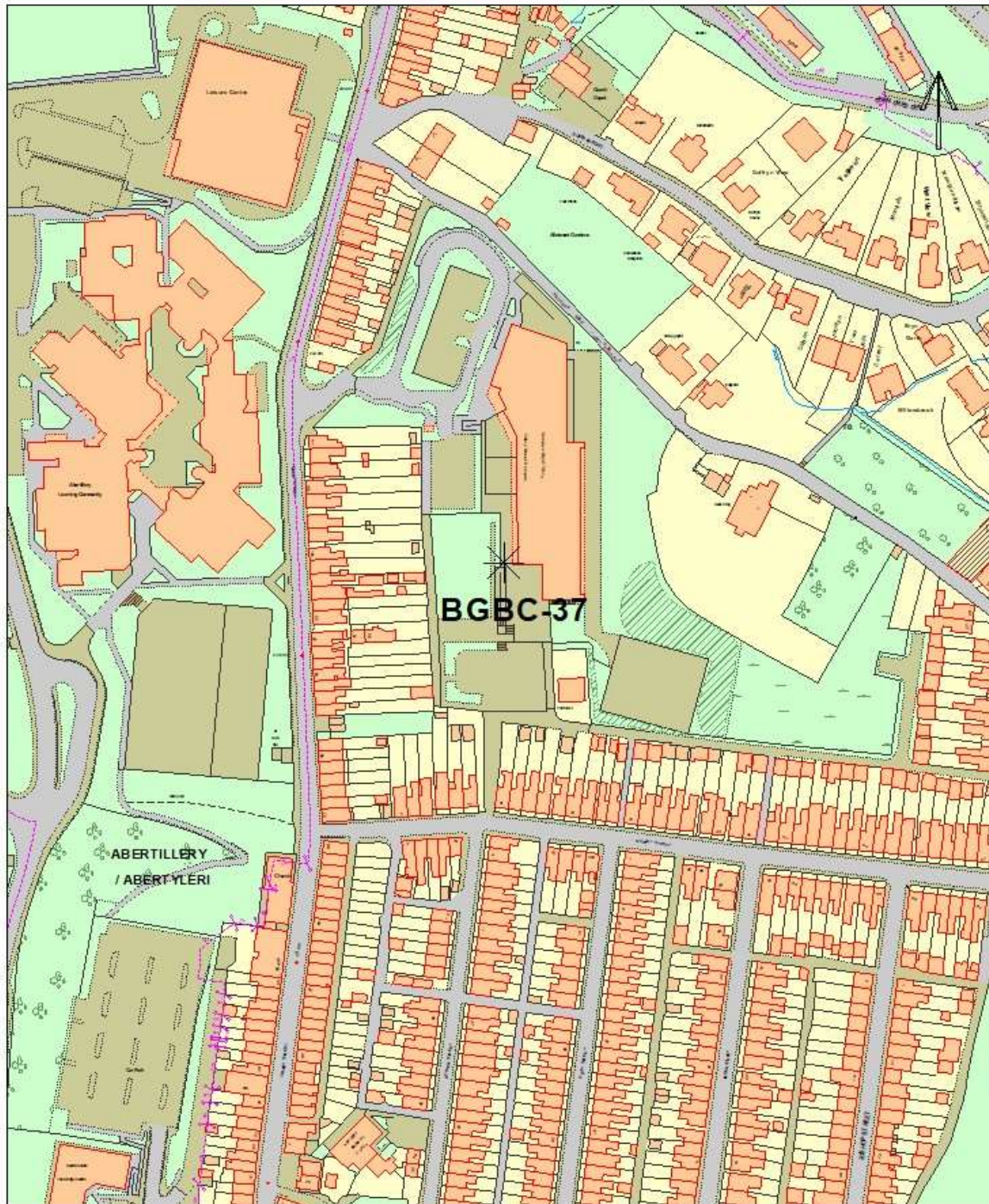


## Blaenau Gwent County Borough Council

Location: BGBC-37 - Abertillery Learning Campus, Tillery Stre

Easting: 321892 Northing: 204585

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Cyngor Bwrdeistref Sirol . **Blaenau Gwent** . County Borough Council

Richard Crook BSc, DipTP, MBA, MRTPI  
Corporate Director Environment and Regeneration / Cyfarwyddwr Corfforaethol yr Amgylchedd ac Adfywio

PROJECT	BGBC-38
TITLE	Deighton Primary School, Stockton Way, Tredegar



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Date : 22/09/2021      Map Reference : SO1309NE      Scale : 1:2000



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Cyngor Bwrdeistref Sirol . **Blaenau Gwent** . County Borough Council

Richard Crook BSc, DipTP, MBA, MRTPI  
 Corporate Director Environment and Regeneration / Cyfarwyddwr Corfforaethol yr Amgylchedd ac Adfywio

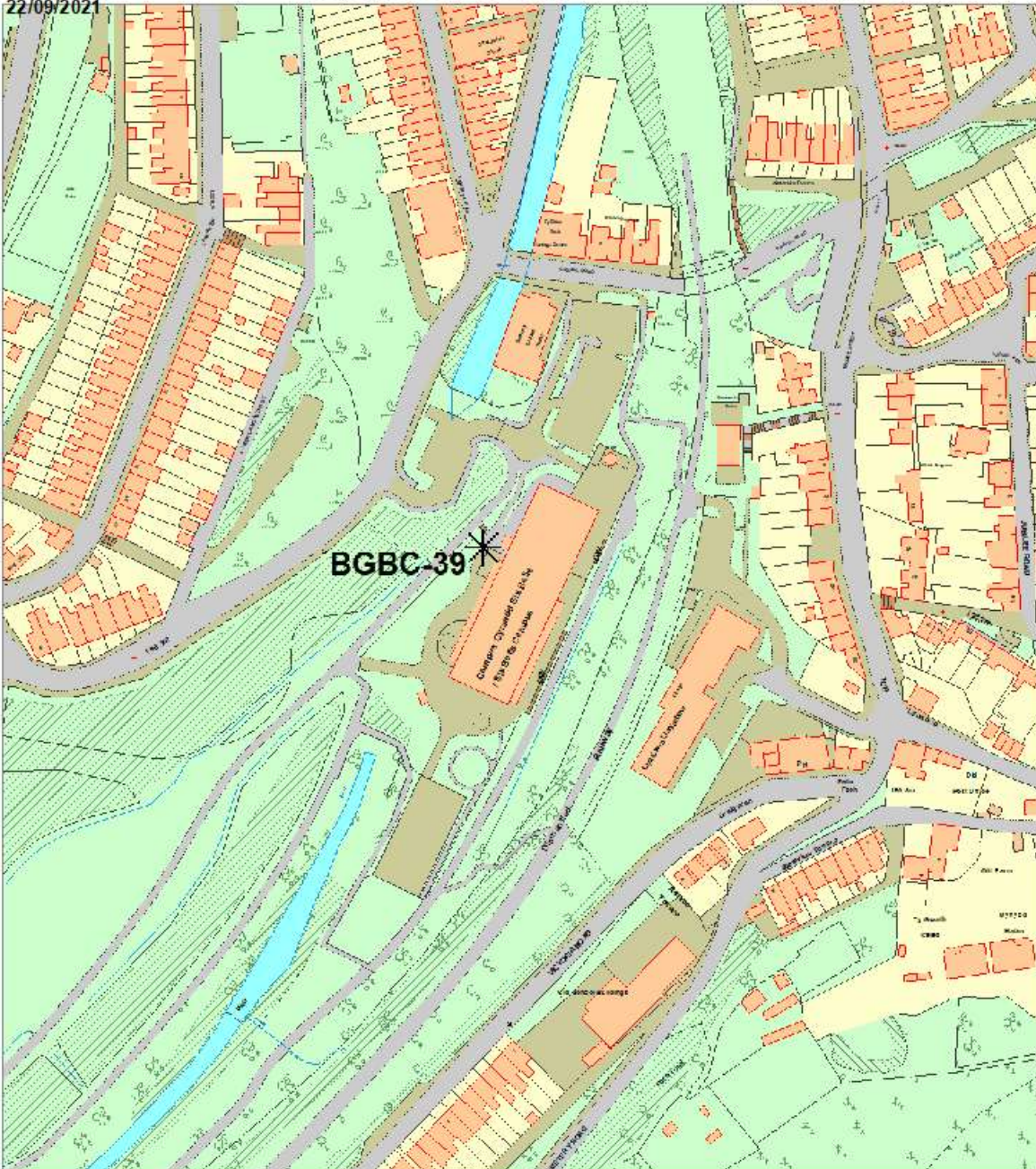
PROJECT	BGBC-39
TITLE	Six Bells Primary Campus
E:	Six Bells Road, Abertillery,



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Date : 22/09/2021      Map Reference : SO2202NW      Scale : 1:1800



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## Glossary of Terms

Abbreviation	Description
AQAP	Air Quality Action Plan - A detailed description of measures, outcomes, achievement dates and implementation methods, showing how the LA intends to achieve air quality limit values'
AQMA	Air Quality Management Area – An area where air pollutant concentrations exceed / are likely to exceed the relevant air quality objectives. AQMAs are declared for specific pollutants and objectives
APR	Air quality Annual Progress Report
AURN	Automatic Urban and Rural Network (UK air quality monitoring network)
Defra	Department for Environment, Food and Rural Affairs
DMRB	Design Manual for Roads and Bridges – Air quality screening tool produced by Highways England
FDMS	Filter Dynamics Measurement System
LAQM	Local Air Quality Management
NO <sub>2</sub>	Nitrogen Dioxide
NO <sub>x</sub>	Nitrogen Oxides
PM <sub>10</sub>	Airborne particulate matter with an aerodynamic diameter of 10µm (micrometres or microns) or less
PM <sub>2.5</sub>	Airborne particulate matter with an aerodynamic diameter of 2.5µm or less
QA/QC	Quality Assurance and Quality Control
SO <sub>2</sub>	Sulphur Dioxide