



Blaenau Gwent County Borough Council

2024 Air Quality Progress Report

In fulfilment of Part IV of the Environment Act 1995, as amended by the Environment Act 2021

Local Air Quality Management

Date: September 2024

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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 2023 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 (PM₁₀) & (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Much of the traditional coal and steel industry that historically populated the Borough has been replaced by a diverse industrial base comprising of businesses such as pharmaceuticals, battery and computer systems, electronic and high-tech engineering companies.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 regard to, are being exceeded or will be exceeded within the Borough and therefore
LAQM Annual Progress Report 2024

no Detailed Assessment for any pollutant has been carried out to-date. Blaenau Gwent CBC has not declared any AQMA's.

This 2024 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 2025.

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 several sensitive locations including schools within our borough. The results from these 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:

Environmental Health Section, Environmental Protection Team, Blaenau Gwent CBC,
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1 Actions to Improve Air Quality

Previous Work in Relation to Air Quality

Table 1.1 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 1.1 - 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
1999 First Stage Review and Assessment	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
2003 Updating and Screening Assessment	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
2004 Progress Report	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
2005 Progress Report	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

2006 Updating and Screening Assessment	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
2007 Progress Report	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
2008 Progress Report	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
2009 Updating and Screening Assessment	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
2010 Progress Report	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
2011 Progress Report	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
2012 Updating and Screening	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

Assessment Report	changes and therefore unlikely that there will be failure to achieve any of the air quality objectives.	
2013 Progress Report	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
2014 Progress Report	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
2015 Updating and Screening Assessment Report	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
2016 Progress Report	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
2017 Progress Report	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
2018 Progress Report	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

2019 Progress Report	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
2020 Progress Report	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
2021 Progress Report	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
2022 Progress Report	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.	2022
2023 Progress Report	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.	2023

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 B)). 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 AQMA's.

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 2023

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 28 sites throughout the Borough during 2023, the details of which are presented in Table 2.2. 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 NO₂ exposure calendar. Gradko Environmental was used to analyse and provide data from all the NO₂ diffusion tubes within Blaenau Gwent during 2023.

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 2023.

Blaenau Gwent CBC does not currently undertake a co-location study for its NO₂ 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 2023 was 0.83.

A full audit of all monitoring sites used by Blaenau Gwent CBC was undertaken in December 2023. Two new monitoring locations were identified as BGBC-44 / 18 Blue Lake Close, Ebbw Vale and BGBC-45 / 34 Carn Y Cefn, Ebbw Vale with monitoring starting in January 2024. The results from the new monitoring locations will be reported in the Air Quality Progress Report 2025 for the calendar year of 2024.

(A mini audit of monitoring locations was carried out in December 2022 which identified that following long term compliance with the air quality objective and due to long term construction works being carried out at the property monitoring at BG BC- 24 / 4 Glen View, Nantybwhch, Tredegar would cease at the end of 2022).

Table 2.1 – Details of Non-Automatic Monitoring Sites

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) ⁽¹⁾	Distance to kerb of nearest road (m) ⁽²⁾	Tube Co-located with a Continuous Analyser?	Tube Height (m)
BGBC-01	The Darren, Daren-felen Road, Brynmawr	Roadside	319538	211956	No2	No	0	10	No	2
BGBC-04	22 Parkhill, Beaufort, Ebbw Vale	Urban Background	317298	211287	No2	No	10	30	No	2.1
BGBC-05	Willow Tree Bungalow, Aberbeeg	Urban Background	321139	201114	No2	No	0	13	No	2
BGBC-13	3 Kings Arms Cottages, Trefil, Tredegar	Roadside	312012	212782	No2	No	0	4	No	2
BGBC-16	49 Aberbeeg Road, Aberbeeg	Roadside	321434	202668	No2	No	0	7	No	2
BGBC-18	Welfare Hall, Beaufort Hill, Ebbw Vale	Roadside	317543	211688	No2	No	0	4	No	2
BGBC-19	42 Beaufort Rise, Ebbw Vale	Roadside	316670	211597	No2	No	0	4	No	2
BGBC-20	122 Beaufort Road, Tredegar	Roadside	314858	210240	No2	No	0	5	No	2
BGBC-21	14 Bryn Rhosyn, Merthyr Road, Tredegar	Other	312846	210586	No2	No	0	14	No	2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) ⁽¹⁾	Distance to kerb of nearest road (m) ⁽²⁾	Tube Co-located with a Continuous Analyser?	Tube Height (m)
BGBC-22	2 King Street, Brynmawr	Roadside	319562	212128	No2	No	0	11	No	2
BGBC-25	Red Rose Care Centre, Park Road, Ebbw Vale	Roadside	316996	207898	No2	No	0	3	No	2
BGBC-26	2 The Dingle, Ebbw Vale	Roadside	316980	209842	No2	No	0	10	No	2
BGBC-27	Tyn y Rbyn, Llangynidr Road, Ebbw Vale	Other	316720	212796	No2	No	0	11	No	2
BGBC-28	1 Coates Row, Rassau, Ebbw Vale	Other	314488	211642	No2	No	0	62	No	2
BGBC-29	10 Ivy Close, Rassau, Ebbw Vale.	Industrial	315331	211938	No2	No	0	N/A	No	2
BGBC-30	8 Annes Court, Ebbw Vale.	Industrial	316010	210183	No2	No	0	N/A	No	2
BGBC-31	18 Maes Morgan, Tredegar.	Industrial	312674	210974	No2	No	0	N/A	No	2
BGBC-32	Ebbw Fawr Learning Campus, Primary School, Ebbw Vale.	Roadside	317392	208313	No2	No	5	20	No	2
BGBC-34	Georgetown Primary School, Oakfield Road, Tredegar.	Roadside	314838	208257	No2	No	6.4	14	No	2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) ⁽¹⁾	Distance to kerb of nearest road (m) ⁽²⁾	Tube Co-located with a Continuous Analyser?	Tube Height (m)
BGBC-35	Brynbach Primary School, Merthyr Road, Tredegar.	Roadside	313061	210466	No2	No	0	12	No	2
BGBC-36	St Mary's RC Primary School, Catholic Road, Brynmawr.	Roadside	319229	211601	No2	No	0	17	No	2
BGBC-37	Abertillery Learning Campus, Tillery Street, Abertillery.	Roadside	321893	204604	No2	No	7	38	No	2
BGBC-38	Deighton Primary School, Stockton Way, Tredegar.	Roadside	313914	209839	No2	No	0	17	No	2
BGBC-39	Six Bells Primary Campus, Abertillery Learning Community, Six Bells Road, Six Bells, Abertillery,	Roadside	322050	202976	No2	No	8	18	No	2
BGBC-40	1 Waterloo Terrace, Cwm, Ebbw Vale.	Roadside	318967	204130	No2	No	0	5	No	2
BGBC-41	8 Briar Close, Rassau, Ebbw Vale.	Industrial	316165	212466	No2	No	0	N/A	No	2

Diffusion Tube ID	Site Name	Site Type	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) ⁽¹⁾	Distance to kerb of nearest road (m) ⁽²⁾	Tube Co-located with a Continuous Analyser?	Tube Height (m)
BGBC-42	Rhos Y Fedwen Primary School, Honeyfield Road, Rassau, Ebbw Vale	Roadside	315750	211940	No2	No	0	15	No	2
BGBC-43	37 Pen Y Craig, Rassau, Ebbw Vale	Industrial	315831	212298	No2	No	0	N/A	No	2

Notes:

(1) 0m indicates that the sited monitor represents exposure and as such no distance calculation is required.

(2) N/A if not applicable.

2023 Air Quality Monitoring Results

Table 2.3 – Annual Mean NO₂ Monitoring Results: Non-Automatic Monitoring (µg/m³)

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2022 (%) (2)	2019	2020	2021	2022	2023
BGBC-01	319538	211956	Roadside	100	100	15.7	10.8	12.0	13.4	13.0
BGBC-04	317298	211287	Urban Background	100	100	7.3	5.9	5.8	5.5	5.0
BGBC-05	321139	201114	Urban Background	100	100	12.0	9.2	9.9	10.2	9.3
BGBC-13	312012	212782	Roadside	100	100	4.9	3.6	3.8	3.8	3.6
BGBC-16	316670	211597	Roadside	100	100	18.9	15.4	14.8	15.9	14.2
BGBC-18	317543	211688	Roadside	100	100	15.3	12.9	12.3	11.5	10.5
BGBC-19	316670	211597	Roadside	100	100	21.4	17.0	16.1	15.9	14.4
BGBC-20	314858	210240	Roadside	100	100	21.2	16.1	17.3	18.5	17.4

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2022 (%) (2)	2019	2020	2021	2022	2023
BGBC-21	312846	210586	Other	100	100	12.4	9.9	9.2	9.8	9.8
BGBC-22	319562	212128	Roadside	100	100	13.7	10.5	9.9	12.4	10.2
BGBC-25	316996	207898	Roadside	100	100	12.6	8.2	8.8	10.8	8.6
BGBC-26	316980	209842	Roadside	100	100	13.9	11.0	11.0	9.2	10.9
BGBC-27	316720	212796	Other	92.3	92.3	8.3	6.2	6.2	6.7	6.2
BGBC-28	314488	211642	Other	100	100	8.1	6.0	6.6	6.2	5.5
BGBC-29	315331	211938	Industrial	100	100.0	7.2	5.6	5.8	6.0	5.0
BGBC-30	316010	210183	Industrial	100	100	7.7	6.2	6.2	6.6	6.1
BGBC-31	312674	210974	Industrial	100	100	6.0	5.0	4.9	4.8	4.4
BGBC-32	317392	208313	Roadside	90.4	90.4	8.6	6.2	6.5	6.8	6.6

Diffusion Tube ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2022 (%) (2)	2019	2020	2021	2022	2023
BGBC-34	314838	208257	Roadside	100	100	7.7	6.2	6.5	6.3	5.7
BGBC-35	313061	210466	Roadside	100	100	11.2	7.9	8.2	8.7	7.7
BGBC-36	319229	211601	Roadside	100	100	11.2	9.2	8.7	9.0	9.1
BGBC-37	321893	204604	Roadside	100	100	7.5	6.1	5.9	6.7	6.4
BGBC-38	313914	209839	Roadside	92.3	92.3	<u>n/a</u>	7.2	6.8	7.4	6.5
BGBC-39	322050	202976	Roadside	100	100	<u>n/a</u>	7.0	7.9	7.8	7.2
BGBC-40	318967	204130	Roadside	100	100	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	16.8	15.0
BGBC-41	316165	212466	Industrial	100	100	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	5.9	4.8
BGBC-42	315750	211940	Roadside	100	100	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	6.5	6.1
BGBC-43	315831	212298	Industrial	100	100	<u>n/a</u>	<u>n/a</u>	<u>n/a</u>	6.6	5.8

- ☒ Annualisation has been conducted where data capture is <75% and >25% in line with LAQM.TG22.
- ☒ Diffusion tube data has been bias adjusted.
- ☒ Reported concentrations are those at the location of the monitoring site (bias adjusted and annualised, as required), i.e. prior to any fall-off with distance correction.

Notes:

The annual mean concentrations are presented as $\mu\text{g}/\text{m}^3$.

Exceedances of the NO_2 annual mean objective of $40\mu\text{g}/\text{m}^3$ are shown in **bold**.

NO_2 annual means exceeding $60\mu\text{g}/\text{m}^3$, indicating a potential exceedance of the NO_2 1-hour mean objective are shown in **bold and underlined**.

Means for diffusion tubes have been corrected for bias. All means have been “annualised” as per LAQM.TG22 if valid data capture for the full calendar year is less than 75%. See Appendix C for details.

Concentrations are those at the location of monitoring and not those following any fall-off with distance adjustment.

(1) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.

(2) Data capture for the full calendar year (e.g. if monitoring was carried out for 6 months, the maximum data capture for the full calendar year is 50%).

Figure 1: Measured levels of nitrogen dioxide in 2023 compared with AQO

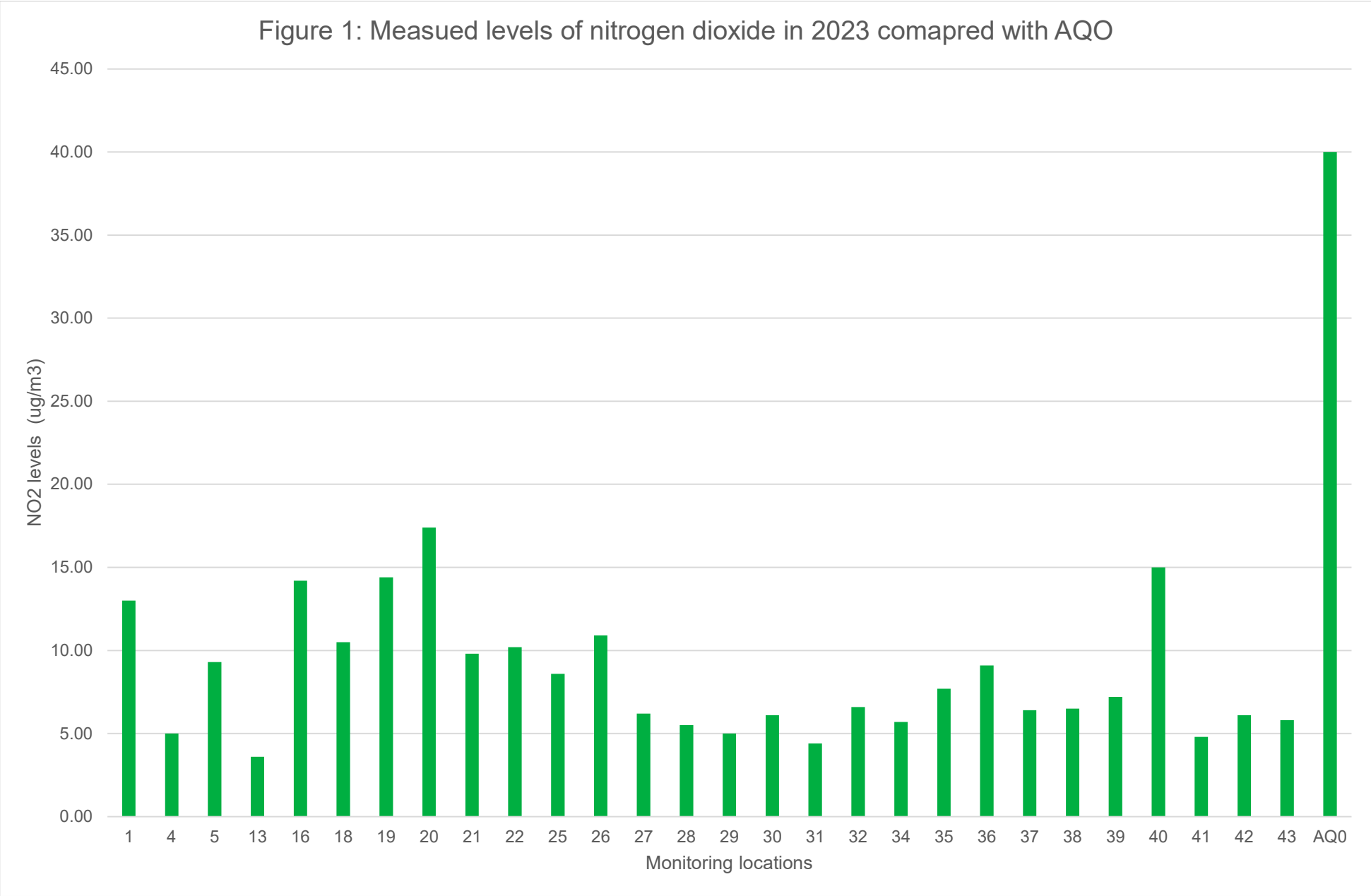
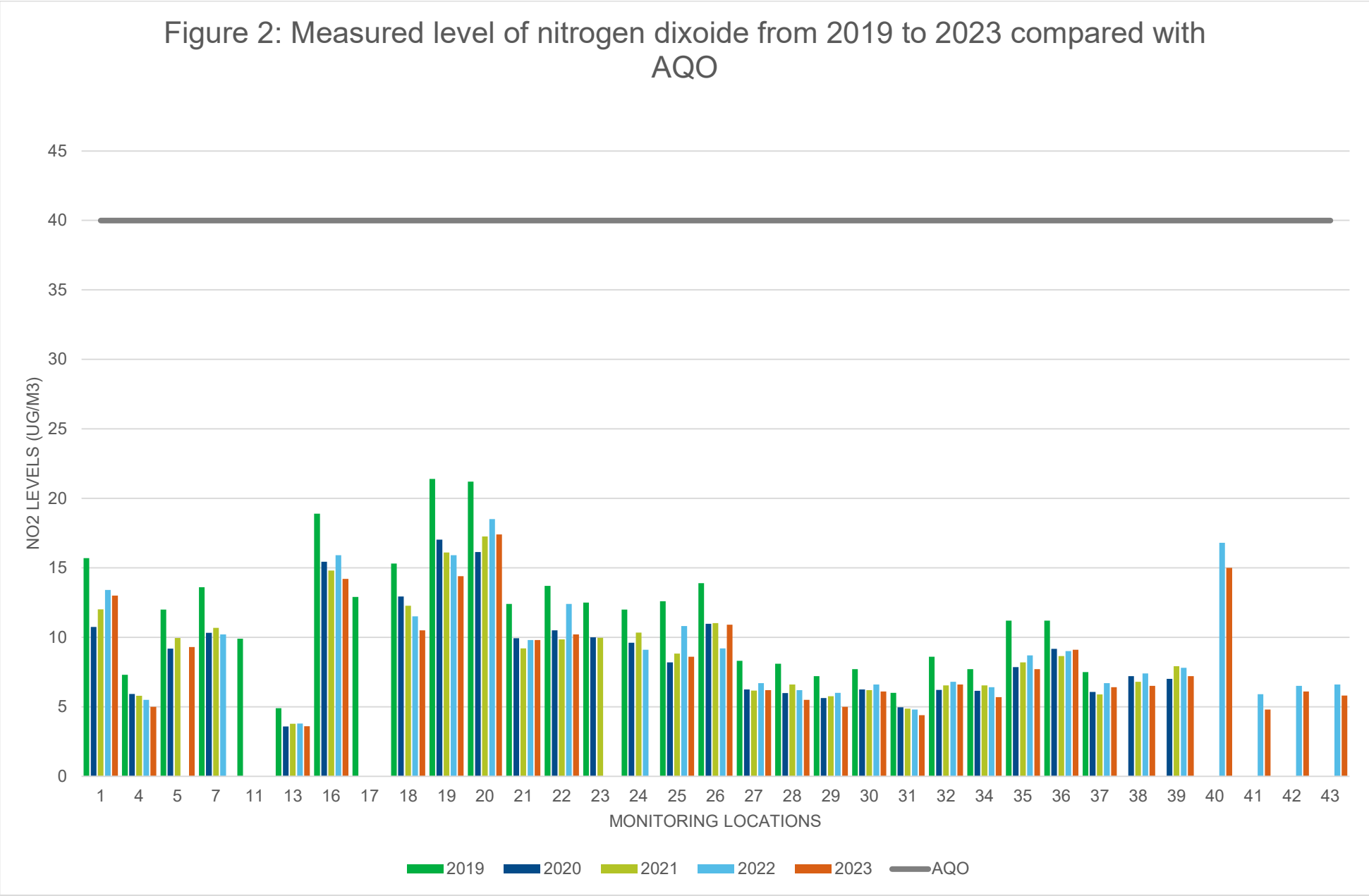


Figure 2: Measured level of nitrogen dioxide from 2019 to 2023 compared with AQO



Comparison of 2023 Monitoring Results with Previous Years and the Air Quality Objectives

2.1.3 Nitrogen Dioxide (NO₂)

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 28 sites within the Borough for the period of 2023 is presented in Table 2.3. 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 2023, none of the data has been annualised.

Table 2.3 and figure 2 provide a comparison of the results for the period of 2023 with the results of previous years monitoring (where available) for the years 2019 - 2023. The 2023 results identify that there has been a decrease in the measured levels of nitrogen dioxide at twenty five of the twenty-eight monitoring locations when compared with the 2022 levels. Two monitoring locations recorded increases in results when compared to the previous year's monitoring results with one monitoring location remaining the same. Of the twenty four monitoring locations that were active in both 2021 and 2023 the results were lower in 17 locations in the 2023 results when they were directly compared with the 2021 levels. This indicates that there is a general trend of continuous improvement of air quality in recent years across the whole borough.

2.1.4 Particulate Matter (PM₁₀)

Blaenau Gwent CBC does not currently undertake any monitoring for particulate matter (PM₁₀).

2.1.5 Particulate Matter (PM_{2.5})

Blaenau Gwent CBC does not currently undertake any monitoring for particulate matter (PM_{2.5}).

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 2023

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 other 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 has been no new biomass combustion plant or combined heat and power plant within our area, as outlined above, 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.

Blaenau Gwent CBC confirms that there were no significant pollution incidents in 2023 that affected public health or resulted in high air pollution. There are multiple organised fireworks displays within our borough in November each year but they have not caused high air pollution events that we are aware of. There was not a significant increase in the number of enquires or complaints about wood burners in 2023.

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 1000m² floor area or 1 hectare if the application is in outline

Table 3.1: Applications for Major Developments Received and Approved During 2023

Planning Reference	Type of development	Location	Potential Impact on Local Air Quality
C/2022/0123	Small scale residential development- 13 New houses.	Cemetery Road, Ebbw Vale.	Low
C/2022/0309	Residential development and associated works	Fair View, Ebbw Vale	Low
C/2022/0348	Residential development and associated works	Allotment Road, Ebbw Vale.	Low
C/2023/0060	Factory extension	Rising Sun Industrial Estate, Blaina.	Low
C/2021/0278	Construction and operation of a purpose-built glass manufacturing facility, and associated development	Rassau Industrial Estate, Ebbw Vale.	Low
C/2023/0180	Retention of land reprofiling works through the importation of inert materials and	Tafarnaubach Industrial Estate, Tredegar	Low

	the change of use from B2 (General Industrial) to Class B8 (Storage)		
C/2023/0012	Installation of a mezzanine floor within Units 2 and 3A.	Lakeside retail park, Nantyglo.	Low
C/2022/0182	Change of use of former shopping mall into a mixed use business centre comprising Use Classes A, B and D, including remodelling of the existing buildings (and some demolition) together with changes to the internal paths and yards and other associated works	Festival Park Shopping Centre, Ebbw Vale	Low

Major Planning Applications Approved 2023

None of the above major planning applications that were received and approved in 2023 were considered to have a potential negative impact on air quality within the Blaenau Gwent area.

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 the results at 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 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 consider 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

In 2022 Blaenau Gwent CBC updated its Active Travel Network Map (ATNM), which expanded on the previous edition (previously referred to as the INM). The updated ATNM was approved by Welsh Government in August 2022. The routes shown on the below maps 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

The screenshot shows a web browser window displaying the 'DataMapWales | Active travel' interface. The browser address bar shows 'datamap.gov.wales/active-travel/map/#/'. The page features a yellow header with 'BETA' and 'Give feedback' buttons, and a dark grey navigation bar with the Welsh Government logo and 'Cymraeg' button. The main content area includes the 'Data Map Wales Active travel' logo, a user profile for 'Jessica Norris' with a 'Sign out' button, and a breadcrumb trail: 'DataMapWales > Active travel > Map'. The map itself is a topographic map of Blaenau Gwent, overlaid with various colored routes (orange, blue, green) and road networks. A search bar at the top right of the map area says 'Search by location name'. On the left, a sidebar titled 'Active Travel Map' contains a 'Filter layers' section with options for 'Point Data', 'Routes', 'Route Section', 'Existing Routes', 'Future Routes', 'Base Survey', 'Ancillary Data', and 'Snapshot Data'. The 'Route Section' option is currently selected. At the bottom of the map, there is a scale indicator showing 'Scale: 1 : 100000' and a timestamp '01/09/2022 10:59'.

ATNM 2022

The screenshot shows a web browser window displaying the 'DataMap Wales Active travel' map. The browser's address bar shows 'datamap.gov.wales/active-travel/map/#/'. The page features a yellow header with 'BETA' and 'Give feedback' buttons, and a dark grey header with the Welsh Government logo and 'Cymraeg' button. The main content area includes the 'DataMap Wales Active travel' logo, a user profile for 'Jessica Norris' with a 'Sign out' button, and a breadcrumb trail: 'DataMapWales > Active travel > Map'. The map itself is a topographic map of Blaenau Gwent, overlaid with numerous colorful routes (blue, orange, green, purple) 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 'Filter layers' panel with options for 'Point Data', 'Routes', 'Route Section', 'Existing Routes', 'Future Routes', 'Base Survey', and 'Ancillary Data'. The bottom of the map shows a scale of 1:100000 and a timestamp of 11:01 on 01/09/2022.

Blaenau Gwent CBC successfully bid for grant funding from the Active Travel Fund to improve some of its routes in 2023/24. This included the installation of a new zebra crossing at Blaina Roundabout, Brynmawr to help assist active travel users to safely cross the road and the improvement of 0.3km of footway to Active Travel Standard Guidance between Brynheulog and Tanglewood Drive, Blaina.

There are several schemes that are currently being proposed for implementation in 2024/25 to improve routes to make walking and cycling safer and easier for residents and visitors of Blaenau Gwent. Progress on these schemes will be reported in the Air Quality Progress Report 2025.

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 the *Gwent Green Grid Partnership* (GGGP) has supported woodland management, ecology, access, landscape projects and wellbeing projects. This project came to an end in July 2023. However, the GGGP has managed to secure additional funding through SPF and Nature Networks Fund to continue with the delivery of the projects. The Local Nature Partnership have also helped steer funding for Local Places for Nature and has supported grassland and woodland management. Countryside access improvements have been delivered under the Access Improvement Grant.

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/>

Blaenau Gwent CBC has also recently approved a new net zero 2050 framework which sets out how it could move forward and work with local partners and communities to reduce Blaenau Gwent 's carbon emissions and achieve Net Zero by 2050. Further information on this can be accessed via the link to the Blaenau Gwent CBC website below.

<https://www.blaenau-gwent.gov.uk/en/news/council-continues-planning-for-a-net-zero-borough/>

Blaenau Gwent CBC is also continuing to install electric vehicle charging points at locations through out the borough and has been trialling on street charging solutions using funding provided by Welsh Government. Further information on this trial can be accessed via the link to the Blaenau Gwent CBC website below.

<https://www.blaenau-gwent.gov.uk/en/news/blaenau-gwent-council-channel-their-energy-into-gully-channels-for-electric-vehicles-home-charging-trial-1/>

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 2023. 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 2025.

It is proposed that the results of monitoring carried out during the calendar year of 2024 will be presented in the 2025 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/>
<https://www.blaenau-gwent.gov.uk/en/news/council-continues-planning-for-a-net-zero-borough/>

Blaenau Gwent CBC, update on electric vehicle charging points in the borough
<https://www.blaenau-gwent.gov.uk/en/news/blaenau-gwent-council-channel-their-energy-into-gully-channels-for-electric-vehicles-home-charging-trial-1/>

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/qa-qc-framework/>

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

Appendices

Appendix A: Quality Assurance/ Quality Control - 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 2023

Appendix A: Quality Assurance / Quality Control (QA/QC) Data

Table A.1 – Full Monthly Diffusion Tube Results for 2023 ($\mu\text{g}/\text{m}^3$)

DT ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Mean: Raw Data	Annual Mean: Annualised and Bias Adjusted	Annual Mean: Distance Corrected to Nearest Exposure	Comment
BGBC-01	319538	211956	15.0	19.7	14.4	17.6	17.0	19.3	8.0	14.4	15.9	19.6	16.2	10.6	15.6	13.0		
BGBC-04	317298	211287	8.3	8.2	6.9	5.2	3.9	4.7	4.2	4.8	5.4	7.4	8.1	5.2	6.0	5.0		
BGBC-05	321139	201114	14.9	15.5	9.5	11.6	10.0	9.2	6.7	9.3	11.2	12.9	14.9	8.9	11.2	9.3		
BGBC-13	312012	212782	4.2	5.4	5.4	5.1	3.2	3.1	2.6	3.1	4.0	5.9	5.7	3.6	4.3	3.6		
BGBC-16	316670	211597	25.0	21.2	18.0	15.7	12.3	14.5	15.0	13.7	15.9	17.9	21.5	14.7	17.1	14.2		
BGBC-18	317543	211688	15.9	19.5	13.2	12.0	9.3	9.2	9.1	10.2	12.6	15.1	14.7	10.8	12.6	10.5		
BGBC-19	316670	211597	20.0	21.3	20.6	19.4	14.1	17.5	13.2	16.7	17.5	18.0	16.6	14.0	17.4	14.4		
BGBC-20	314858	210240	19.3	27.4	23.6	26.2	17.3	22.1	17.6	17.8	21.9	22.8	18.9	16.8	21.0	17.4		
BGBC-21	312846	210586	17.6	17.1	11.4	10.5	8.7	8.9	8.3	10.0	11.5	12.0	15.5	10.7	11.8	9.8		
BGBC-22	319562	212128	16.3	16.9	11.1	13.8	10.2	10.5	6.8	11.2	11.8	14.1	13.8	10.9	12.3	10.2		
BGBC-25	316996	207898	11.8	14.4	9.6	10.5	10.6	9.5	8.1	9.3	9.9	10.4	13.5	7.4	10.4	8.6		
BGBC-26	316980	209842	17.7	18.2	13.5	10.5	8.5	8.6	8.3	10.7	12.5	15.1	19.3	14.0	13.1	10.9		
BGBC-27	316720	212796	9.3	10.1	7.5	7.8	6.3	6.3	5.4	5.5	x	9.4	9.4	6.0	7.5	6.2		
BGBC-28	314488	211642	8.3	10.1	6.8	7.3	4.7	5.6	4.7	5.2	5.8	8.4	8.6	4.6	6.7	5.5		
BGBC-29	315331	211938	7.1	8.8	7.3	6.1	4.4	4.0	4.0	4.4	5.6	7.2	8.5	4.7	6.0	5.0		

DT ID	X OS Grid Ref (Easting)	Y OS Grid Ref (Northing)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual Mean: Raw Data	Annual Mean: Annualised and Bias Adjusted	Annual Mean: Distance Corrected to Nearest Exposure	Comment
BGBC-30	316010	210183	8.7	11.3	6.9	7.3	7.0	6.3	4.1	6.6	6.2	7.6	10.3	5.8	7.3	6.1		
BGBC-31	312674	210974	5.6	7.1	6.1	5.4	3.4	4.5	4.4	4.2	5.9	7.2	5.2	4.7	5.3	4.4		
BGBC-32	317392	208313	13.5	11.1	x	7.6	5.3	4.5	4.3	6.0	7.4	8.9	12.2	6.5	7.9	6.6		
BGBC-34	314838	208257	10.3	11.1	6.8	6.2	4.4	4.6	4.3	5.1	6.1	7.0	10.3	6.1	6.9	5.7		
BGBC-35	313061	210466	12.7	13.4	9.1	10.4	7.6	7.4	5.9	7.4	8.1	9.1	12.2	7.4	9.2	7.7		
BGBC-36	319229	211601	15.4	15.1	10.2	10.8	6.0	9.2	7.4	9.1	11.0	13.0	14.1	9.5	10.9	9.1		
BGBC-37	321893	204604	13.3	9.9	7.1	6.6	4.0	5.1	5.3	5.4	7.2	9.9	10.9	7.7	7.7	6.4		
BGBC-38	313914	209839	11.8	12.4	7.0	7.6	5.0	5.4	x	5.7	6.7	9.0	10.2	5.4	7.8	6.5		
BGBC-39	322050	202976	14.2	14.2	7.6	8.4	5.3	5.8	4.7	6.1	7.8	9.0	12.2	8.2	8.6	7.2		
BGBC-40	318967	204130	16.1	21.0	20.1	19.6	17.3	20.5	15.1	18.1	19.0	20.8	17.1	13.0	18.1	15.0		
BGBC-41	316165	212466	7.2	8.4	6.8	5.3	4.0	4.5	4.4	4.7	5.4	7.9	8.0	3.2	5.8	4.8		
BGBC-42	315750	211940	9.2	10.7	7.4	8.2	4.4	5.6	3.9	6.8	6.2	8.7	10.6	6.8	7.4	6.1		
BGBC-43	315831	212298	9.7	9.6	8.4	6.5	4.4	4.5	5.4	5.9	6.1	8.2	8.9	6.0	6.9	5.8		

- All erroneous data has been removed from the NO₂ diffusion tube dataset presented in Table A.1.
- Annualisation has been conducted where data capture is <75% and >25% in line with LAQM.TG22.
- Local bias adjustment factor used .
- National bias adjustment factor used.
- Where applicable, data has been distance corrected for relevant exposure in the final column.
- Blaenau Gwent CBC confirm that all 2023 diffusion tube data has been uploaded to the Diffusion Tube Data Entry System.

Notes:

Exceedances of the NO₂ annual mean objective of 40µg/m³ are shown in **bold**.

NO₂ annual means exceeding 60µg/m³, indicating a potential exceedance of the NO₂ 1-hour mean objective are shown in **bold and underlined**.

See Appendix C for details on bias adjustment and annualisation.

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, as amended by the Environment Act 2021, 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 must then be reviewed and updated no later than every five years; or if a local authority considers there is a need for further or different measures to be taken in order to achieve air quality standards; or if significant changes to sources occur within your local area.

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, mg/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

Pollutant	Air Quality Objective: Concentration	Air Quality Objective: Measured as	Date to be achieved by
Nitrogen Dioxide (NO₂)	200µg/m ³ not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
Nitrogen Dioxide (NO₂)	40µg/m ³	Annual mean	31.12.2005
Particulate Matter (PM₁₀)	50µg/m ³ , not to be exceeded more than 35 times a year	24-hour mean	31.12.2010
Particulate Matter (PM₁₀)	40µg/m ³	Annual mean	31.12.2010
Sulphur dioxide (SO₂)	350µg/m ³ , not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
Sulphur dioxide (SO₂)	125µg/m ³ , not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
Sulphur dioxide (SO₂)	266µg/m ³ , not to be exceeded more than 35 times a year	15-minute mean	31.12.2005
Benzene	16.25µg/m ³	Running annual mean	31.12.2003
Benzene	5µg/m ³	Annual mean	31 12 2010
1,3 Butadiene	2.25µg/m ³	Running annual mean	31.12.2003
Carbon Monoxide	10.0mg/m ³	Maximum Daily Running 8-Hour mean	31.12.2003
Lead	0.25µg/m ³	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 2023 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 2023 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 0.83 to the 2023 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
2023	National	06/24 (15 studies)	0.83
2022	National	6/22 (15 studies)	0.82
2021	National	6/22	0.82
2020	National	03/21	0.82
2019	National		0.89

NO₂ Fall-off with Distance from the Road

No diffusion tube NO₂ monitoring locations within Blaenau Gwent CBC required distance correction during 2023.

QA/QC of Automatic Monitoring

Blaenau Gwent CBC does not undertake any automatic monitoring.

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L3219 G

National Diffusion Tube Bias Adjustment Factor Spreadsheet

Spreadsheet Version Number: 06/24

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.

This spreadsheet will be updated at the end of September 2024
[LAQM Helpdesk Website](#)

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.

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 factor¹ 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.

If you have your own co-location study then see footnote¹. If uncertain what to do then contact the Local Air Quality Management Helpdesk at LAQMHelpdesk@bureauveritas.com or 0800 0327953

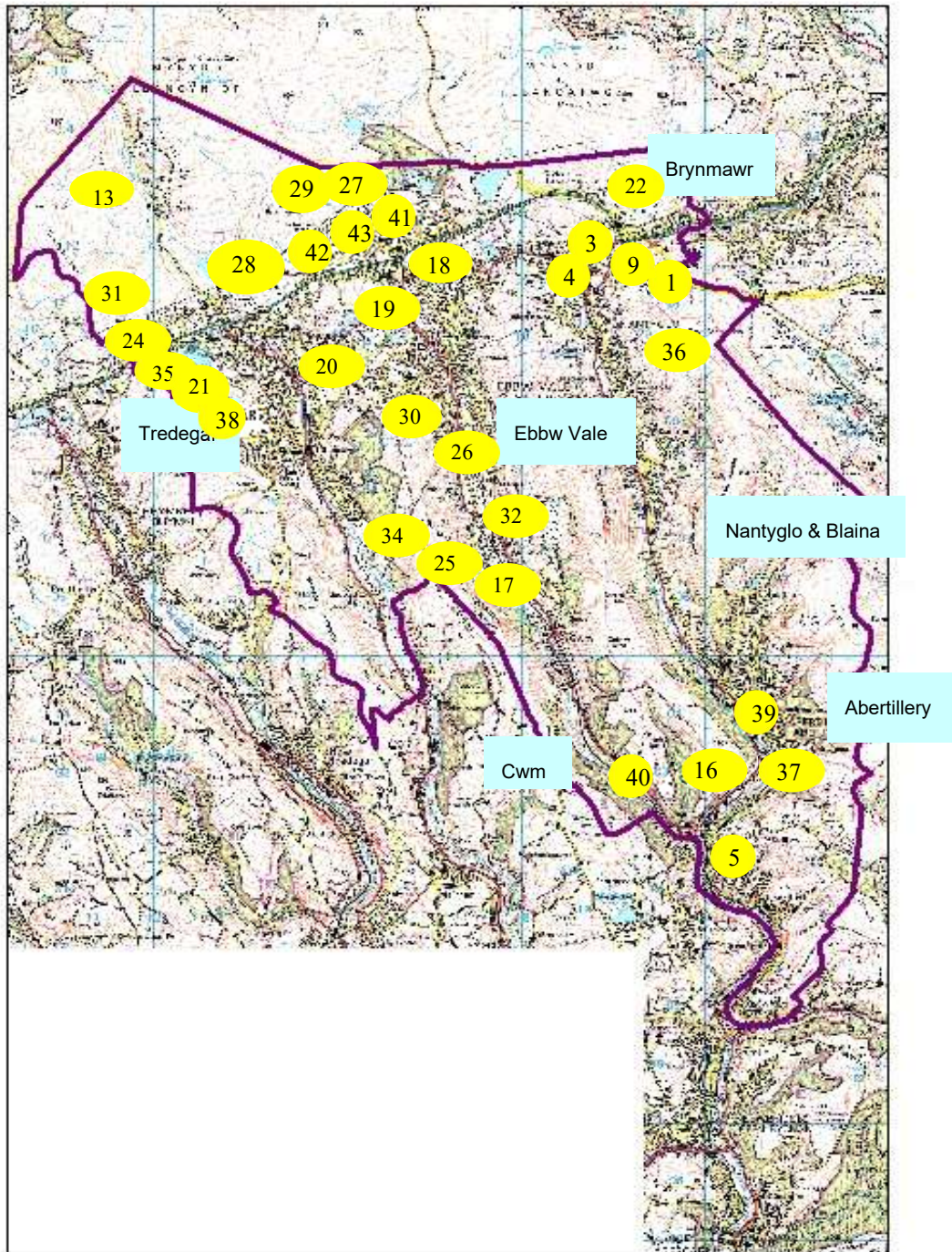
Analysed By ¹	Method ¹	Year ¹	Site Type	Local Authority	Length of Study (months)	Diffusion Tube Mean Conc. (Dm) (µg/m ³)	Automatic Monitor Mean Conc. (Cm) (µg/m ³)	Bias (B)	Tube Precision ²	Bias Adjustment Factor (A) (Cm/Dm)
3195 Gradko	50% TEA in acetone	2023	R	City Of London Corporation	11	36	31	16.0%	G	0.86
3196 Gradko	50% TEA in acetone	2023	UB	City Of London Corporation	10	28	22	26.2%	G	0.79
3205 Gradko	50% TEA in acetone	2023	R	LB Newham	12	27	21	28.0%	G	0.78
3211 Gradko	50% TEA in acetone	2023	SU	Pedcar And Cleveland Borough Council	12	14	10	48.0%	G	0.68
3212 Gradko	50% TEA in Acetone	2023	R	Sandwell Mbc	12	33	26	27.6%	G	0.78
3213 Gradko	50% TEA in acetone	2023	UB	Sandwell Mbc	11	21	18	15.8%	G	0.86
3214 Gradko	50% TEA in acetone	2023	R	Sandwell Mbc	12	23	20	14.2%	S	0.88
3224 Gradko	50% TEA in Acetone	2023	UC	Falkirk Council	12	33	29	14.9%	G	0.87
3225 Gradko	50% TEA in Acetone	2023	UB	Falkirk Council	12	15	13	8.9%	G	0.92
3254 Gradko	50% TEA in acetone	2023	R	London Borough Of Lewisham	11	33	27	22.7%	G	0.82
3255 Gradko	50% TEA in Acetone	2023	R	London Borough Of Merton	12	37	31	18.5%	G	0.84
3263 Gradko	50% TEA in acetone	2023	KS	Marylebone Road intercomparison	11	47	38	25.7%	G	0.80
3273 Gradko	50% TEA in acetone	2023	R	Royal Borough Of Windsor And Maidenhead	11	27	23	21.6%	G	0.82
3274 Gradko	50% TEA in acetone	2023	R	Royal Borough Of Windsor And Maidenhead	12	24	24	0.6%	G	0.99
3288 Gradko	50% TEA in acetone	2023	R	London Borough Of Richmond Upon Thames	11	18	16	15.6%	G	0.86
3700 Gradko	50% TEA in acetone	2023		Overall Factor¹ (15 studies)				Use		0.83

¹ For Casella Stanger/Bureau Veritas (NOT Bureau Veritas Labs) use Gradko 50% TEA in Acetone.
 For Casella Seal/IGM/SS/Casella CP/EB/Bureau Veritas Labs/Eurofins use Environmental Scientific Groups.
 From 2011 for Environmental Scientific Groups use ESG Glasgow.

Collocation Data Revisions

Ready Filter Mode Accessibility: Investigate Count: 8 14°C Sunny 12:42 16/09/2024

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



Appendix E- Individual location plans for all diffusion tubes within Blaenau Gwent 2023



Blaenau Gwent County Borough Council

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

Easting: 319540 Northing: 211953

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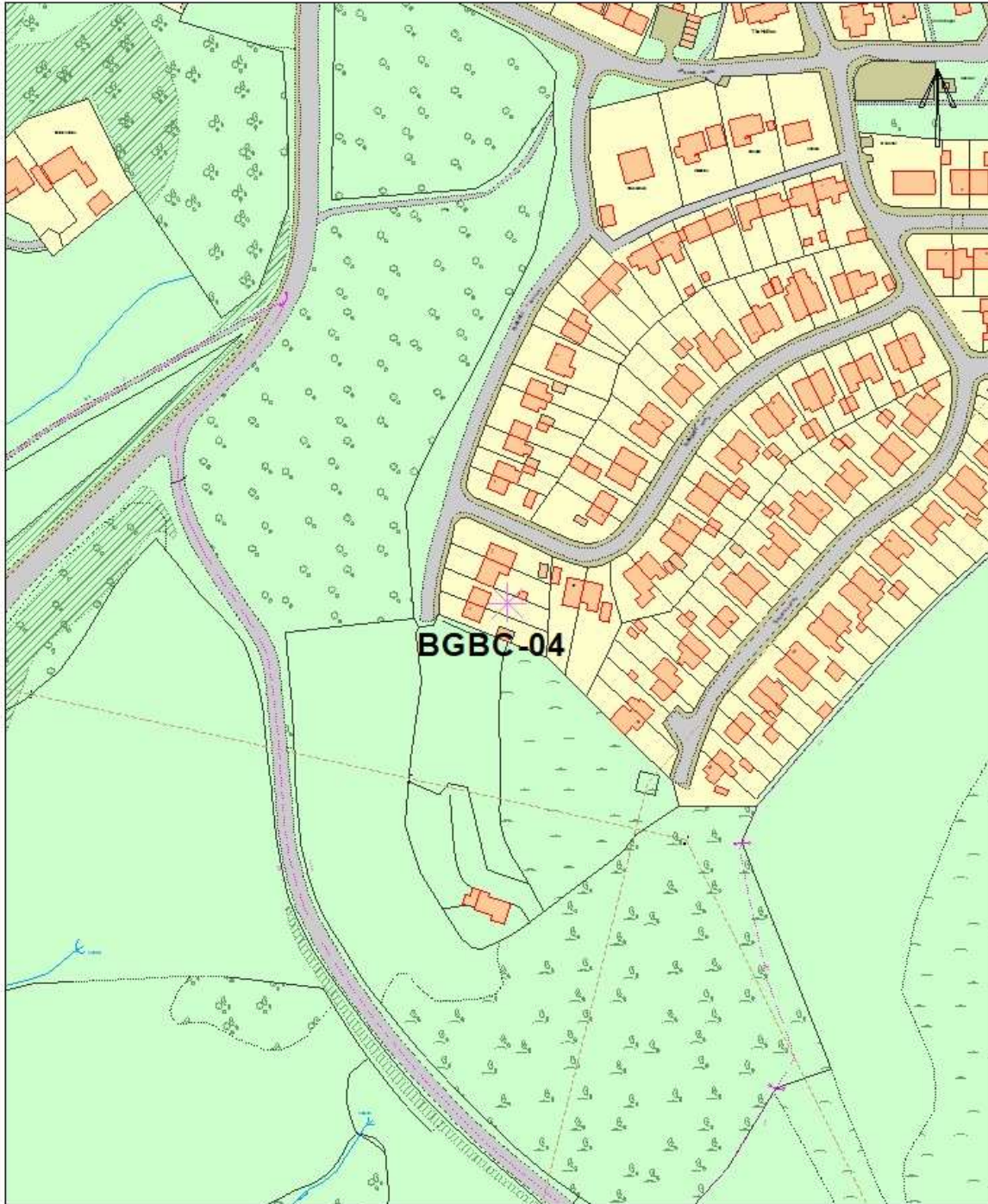


Blaenau Gwent County Borough Council

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

Easting: 317307 **Northing:** 211285

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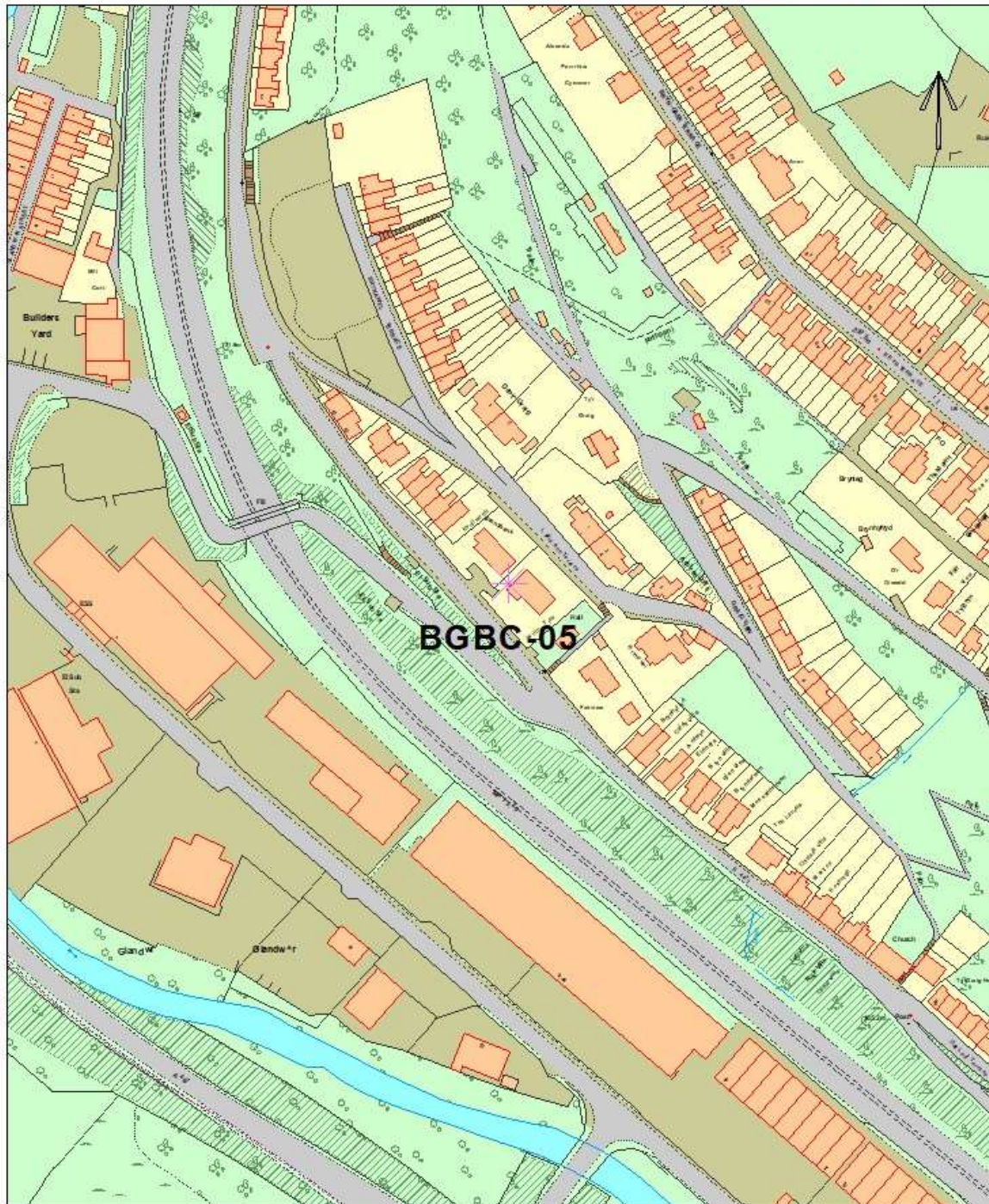


Blaenau Gwent County Borough Council

Location: BGBC-05- Willow Tree Bungalow, Aberbeeg

Easting: 321132 Northing: 201113

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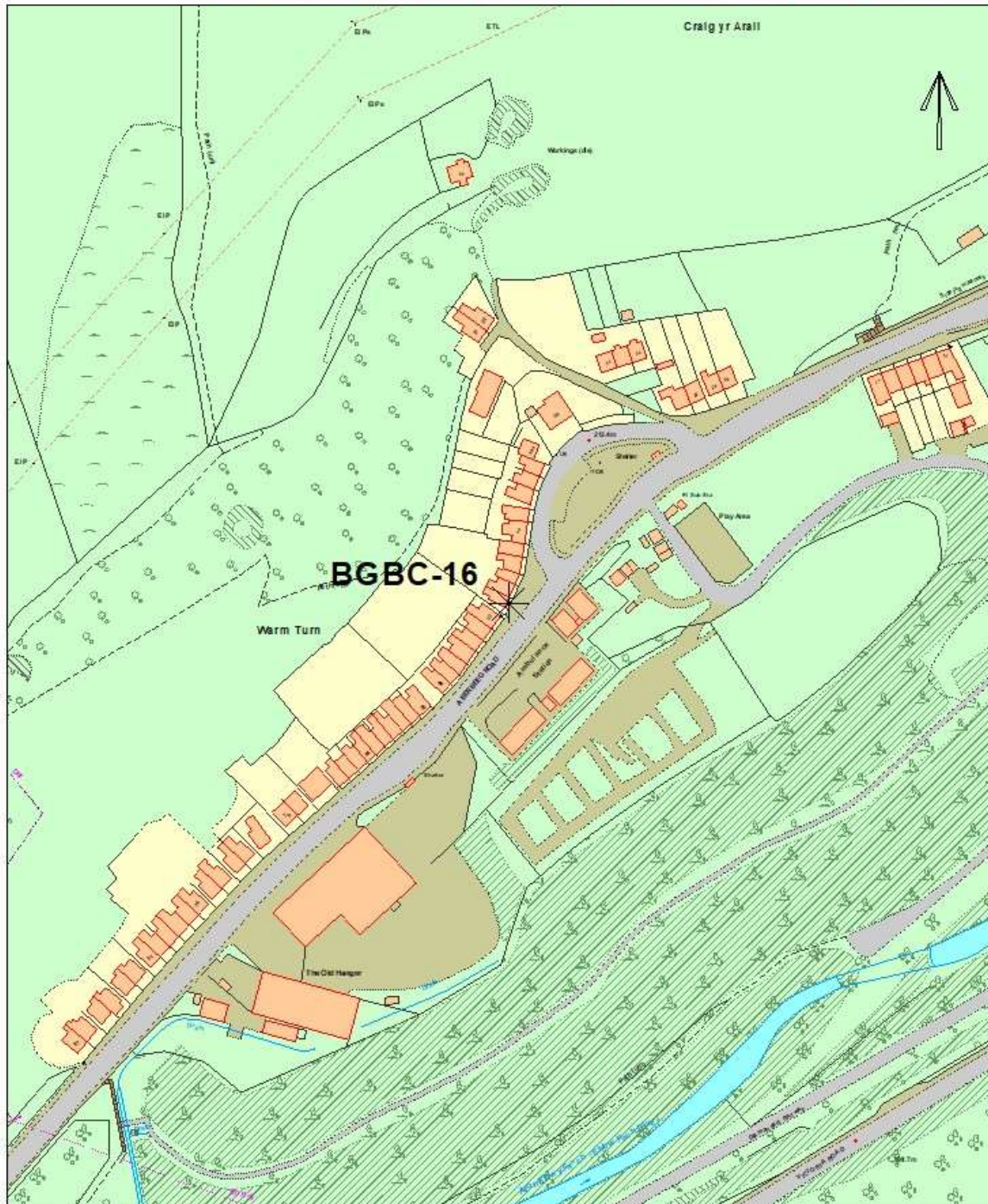


Blaenau Gwent County Borough Council

Location: BGBC-16- 49 Aberbeeg Road, Aberbeeg

Easting: 321432 Northing: 202667

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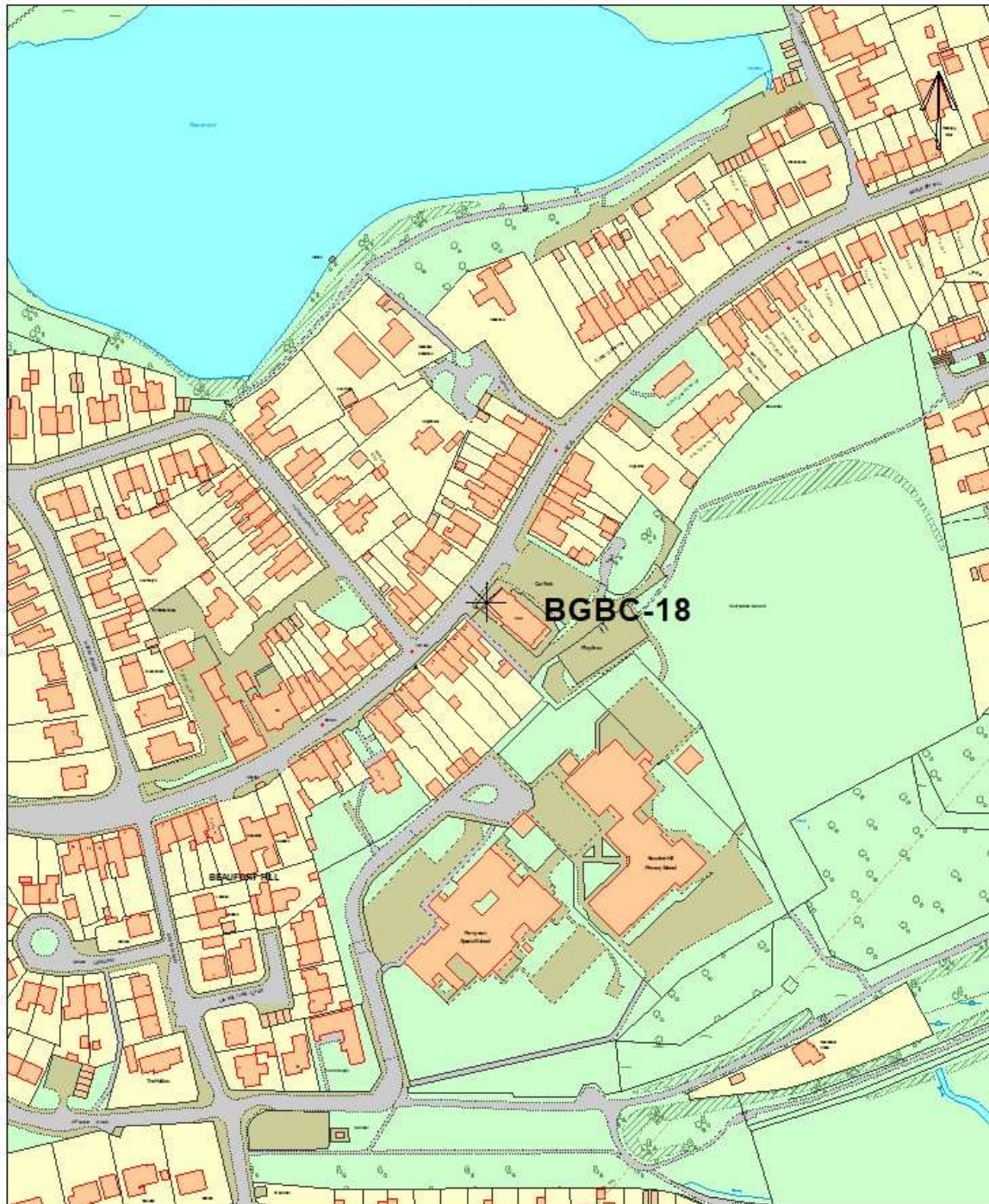


Blaenau Gwent County Borough Council

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

Easting: 317543 Northing: 211693

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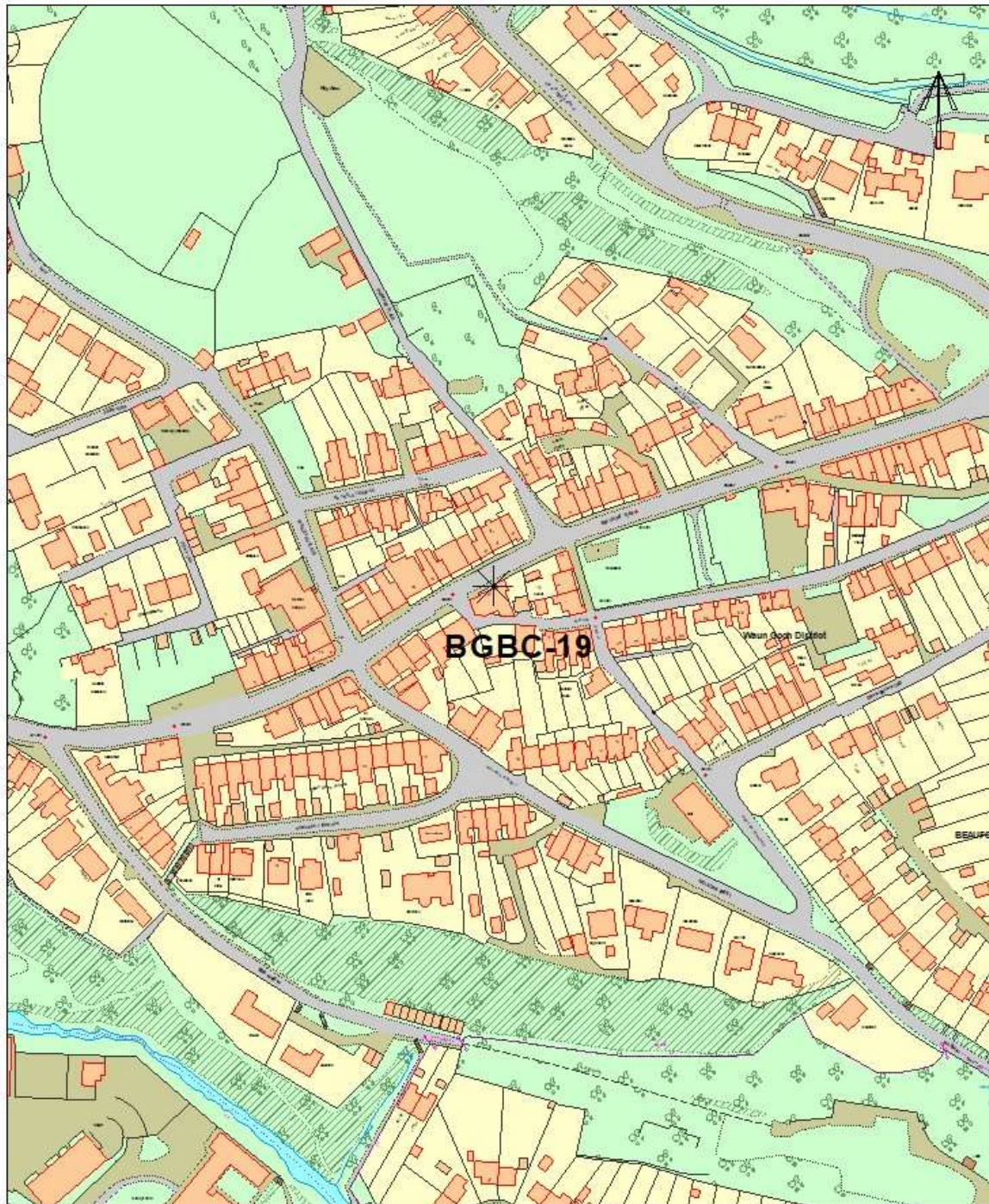


Blaenau Gwent County Borough Council

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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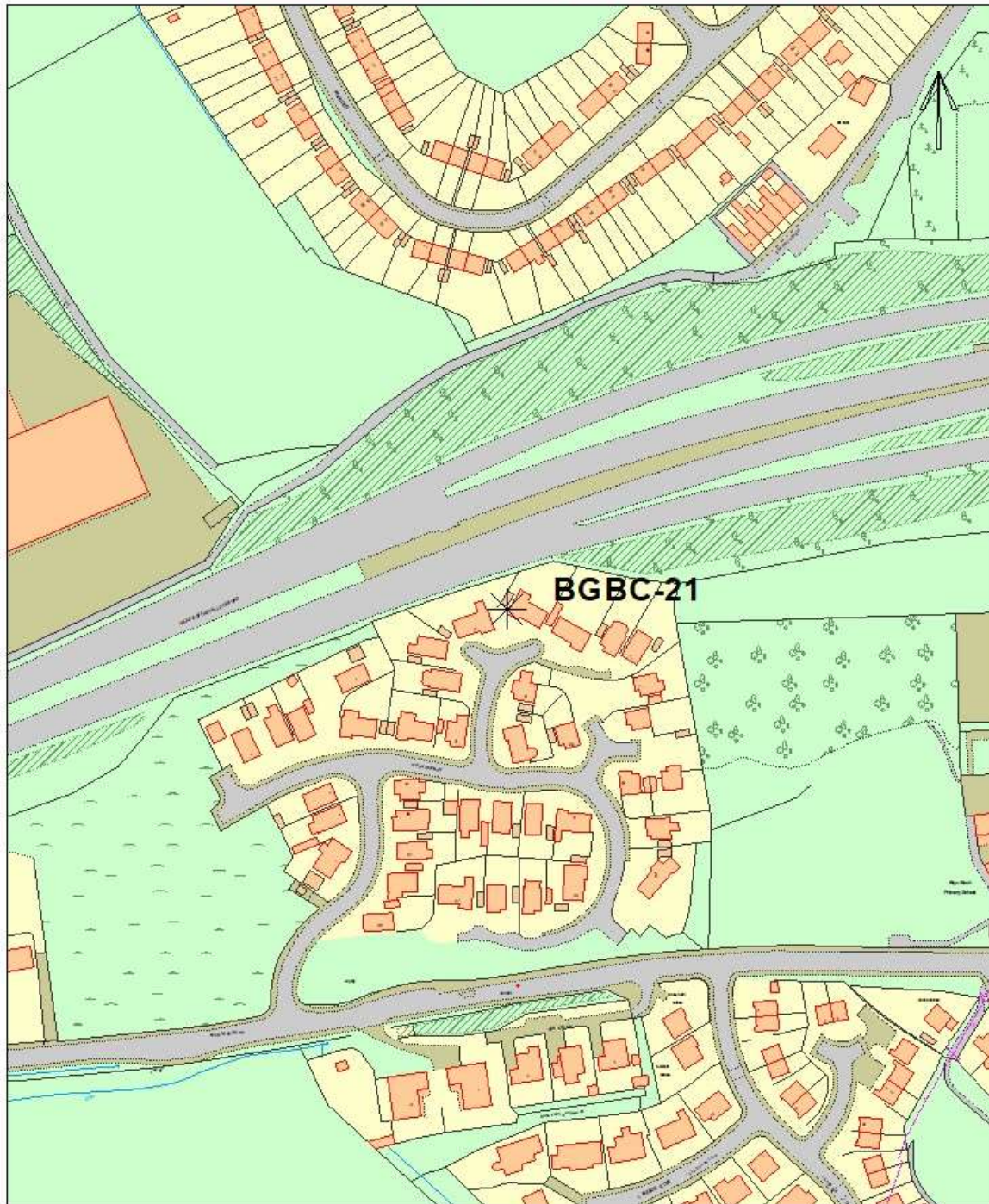


Blaenau Gwent County Borough Council

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

Easting: 312842 Northing: 210590

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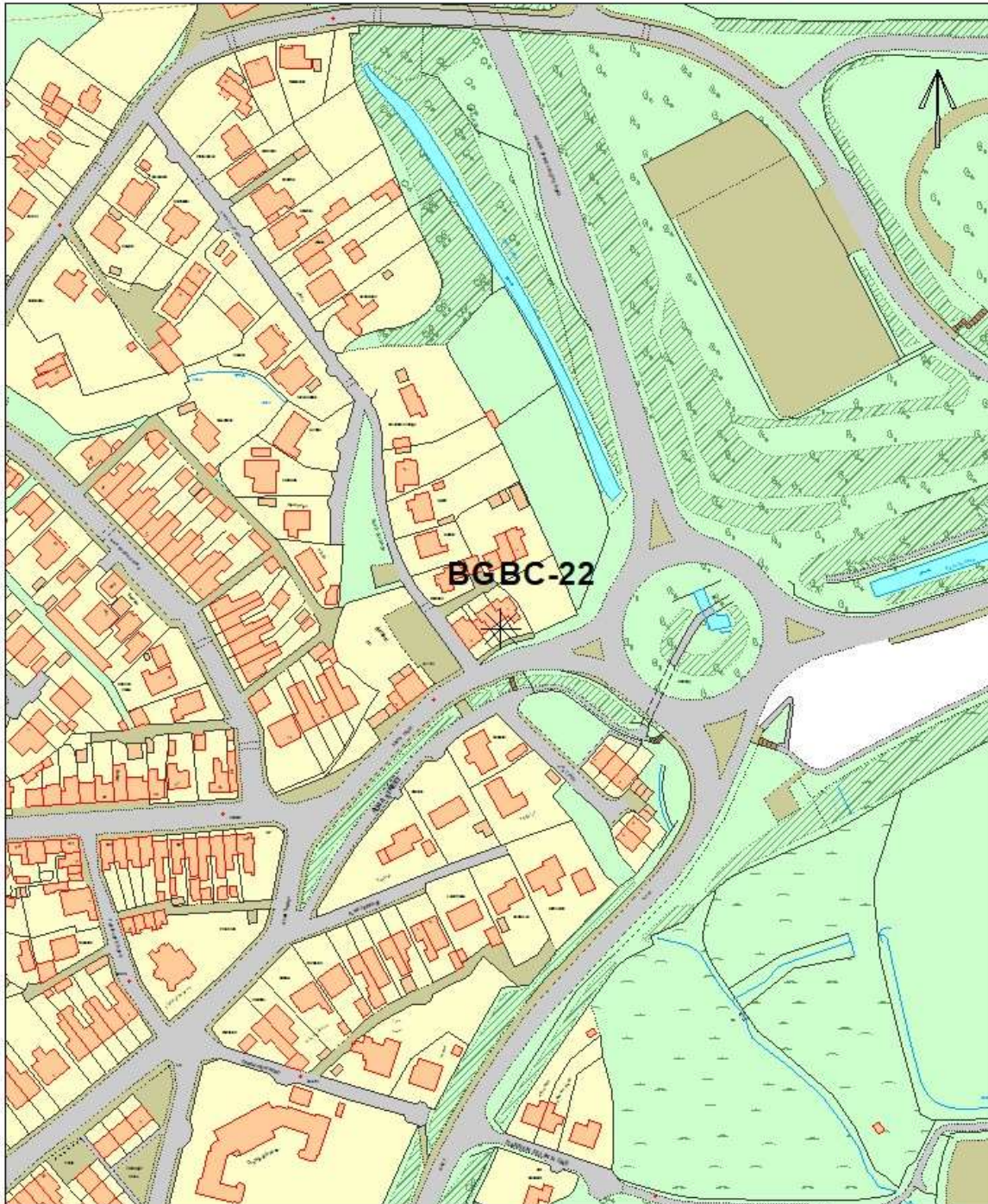


Blaenau Gwent County Borough Council

Location: BGBC-22- 2 King Street, Brynmawr

Easting: 319561 Northing: 212138

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Blaenau Gwent County Borough Council

Location: BGBC-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. BGBC - LA09002L*



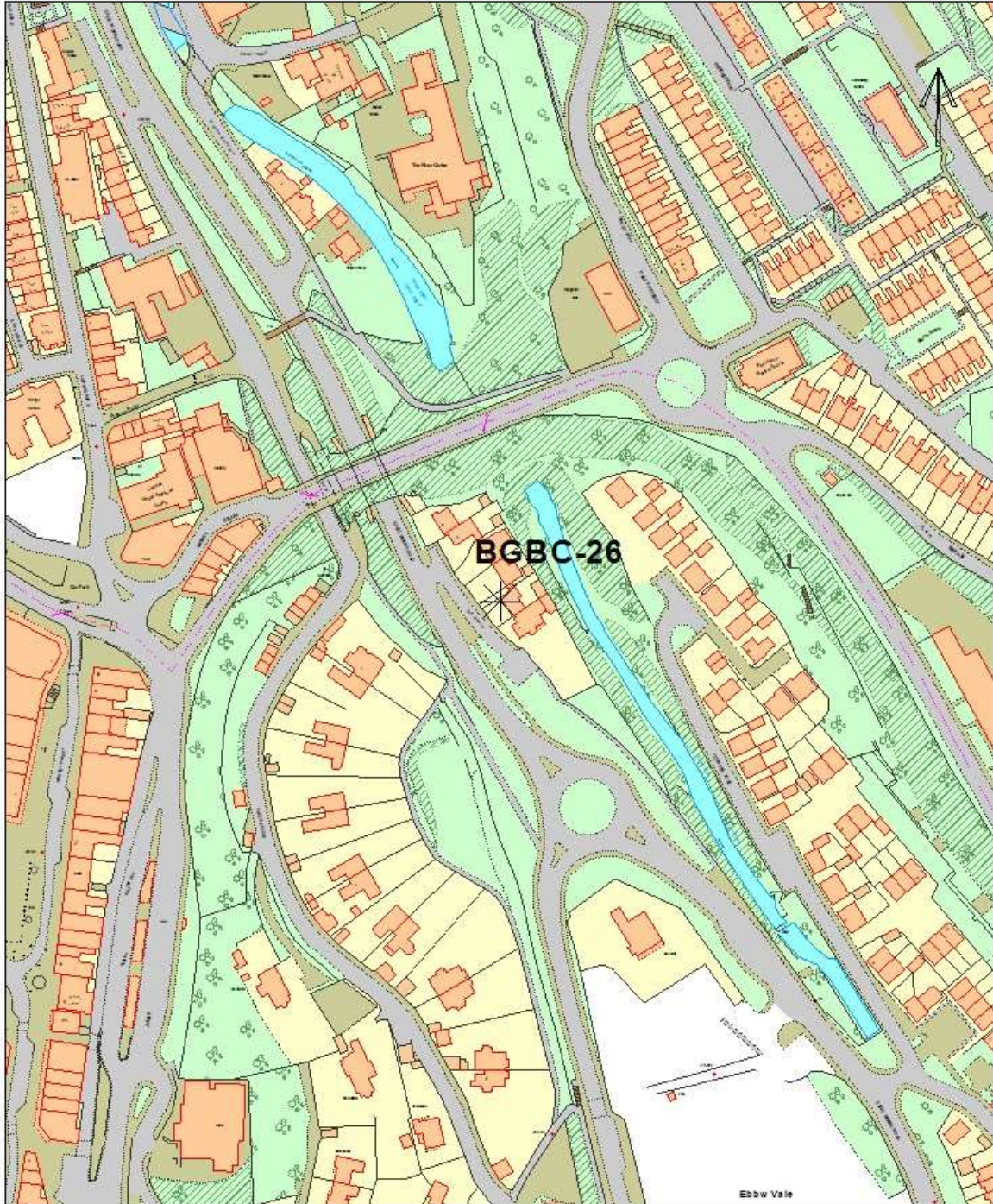


Blaenau Gwent County Borough Council

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

Easting: 316979 **Northing:** 209842

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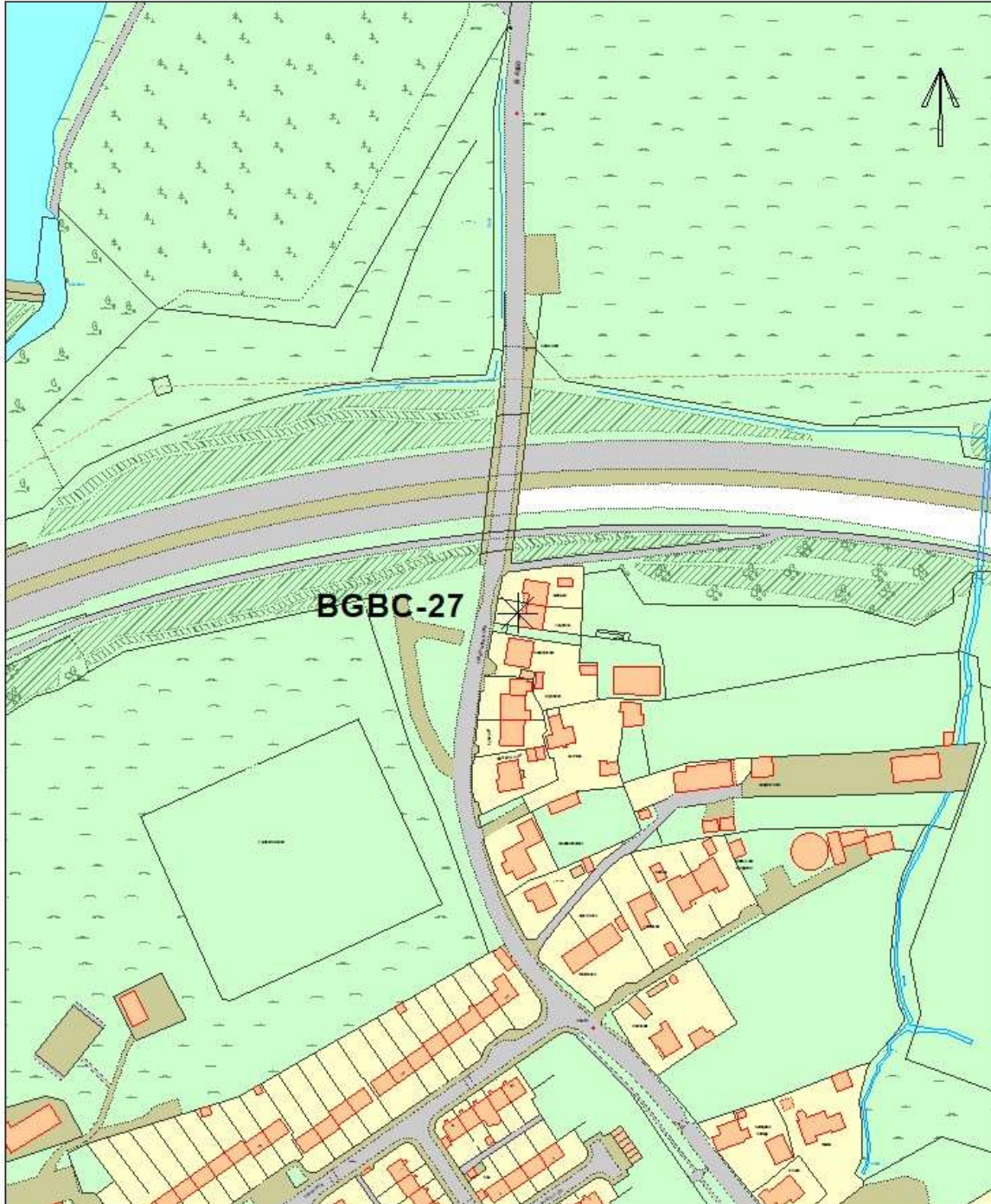


Blaenau Gwent County Borough Council

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

Easting: 316712 **Northing:** 212801

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



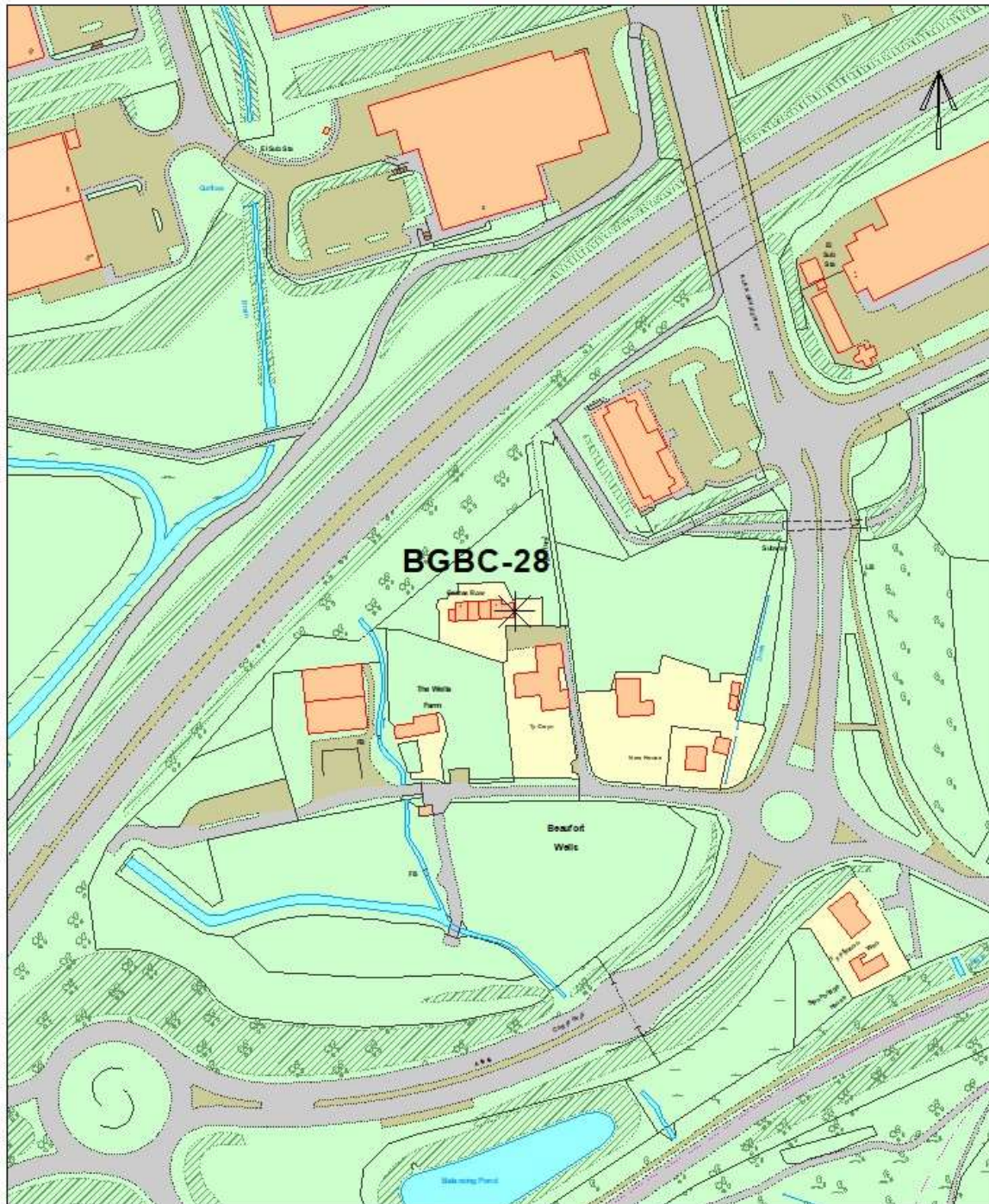


Blaenau Gwent County Borough Council

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

Easting: 314491 Northing: 211644

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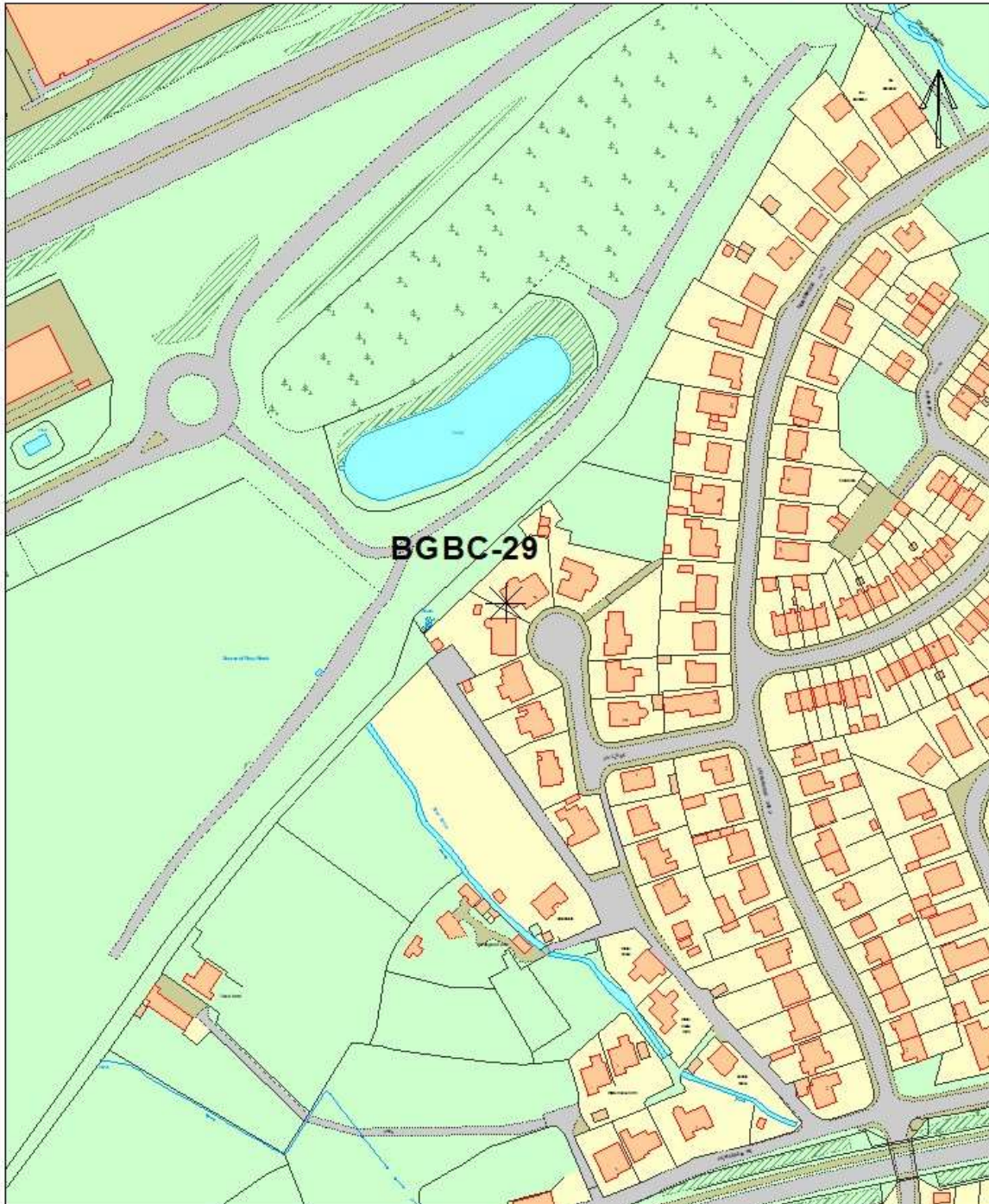


Blaenau Gwent County Borough Council

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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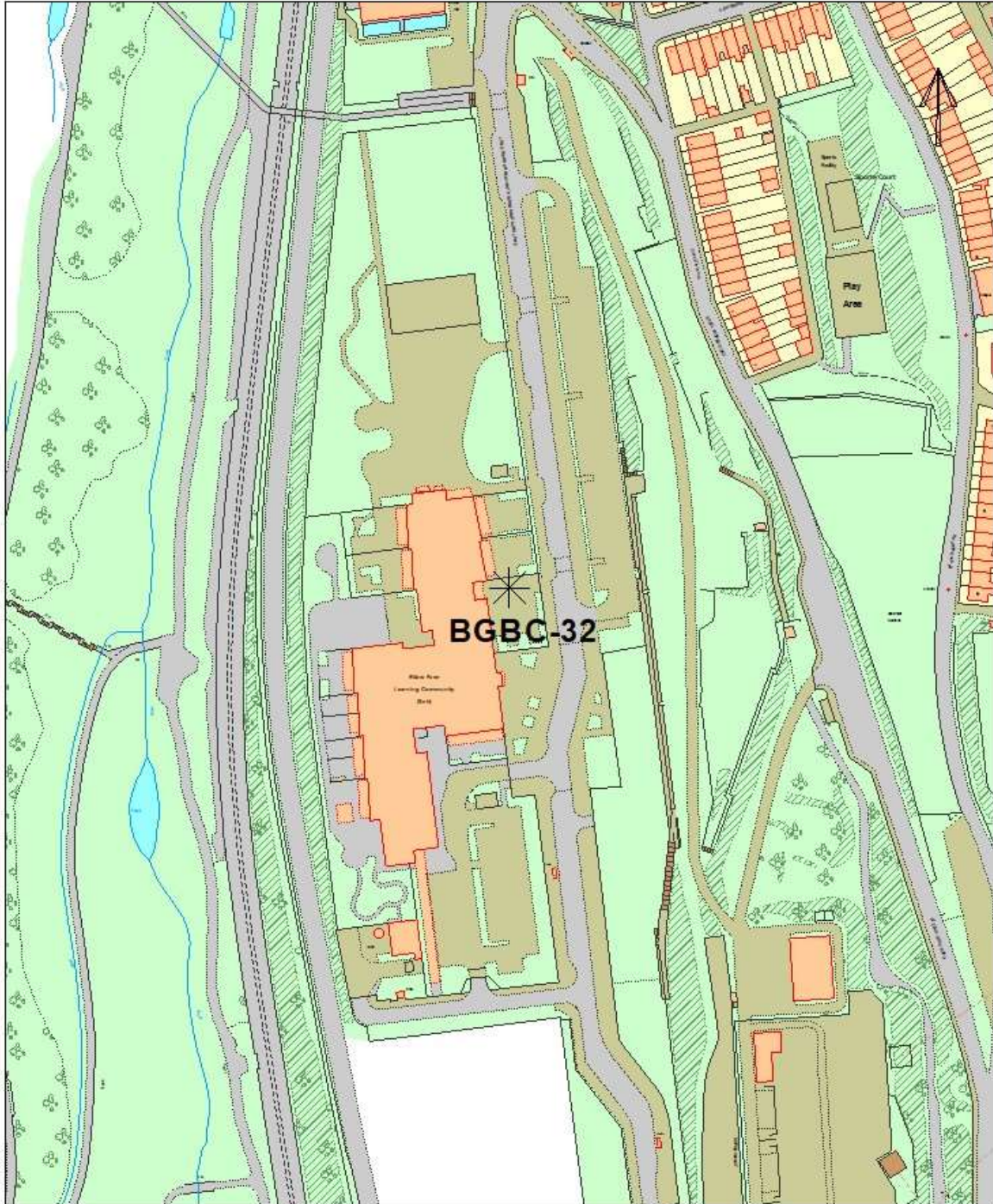


Blaenau Gwent County Borough Council

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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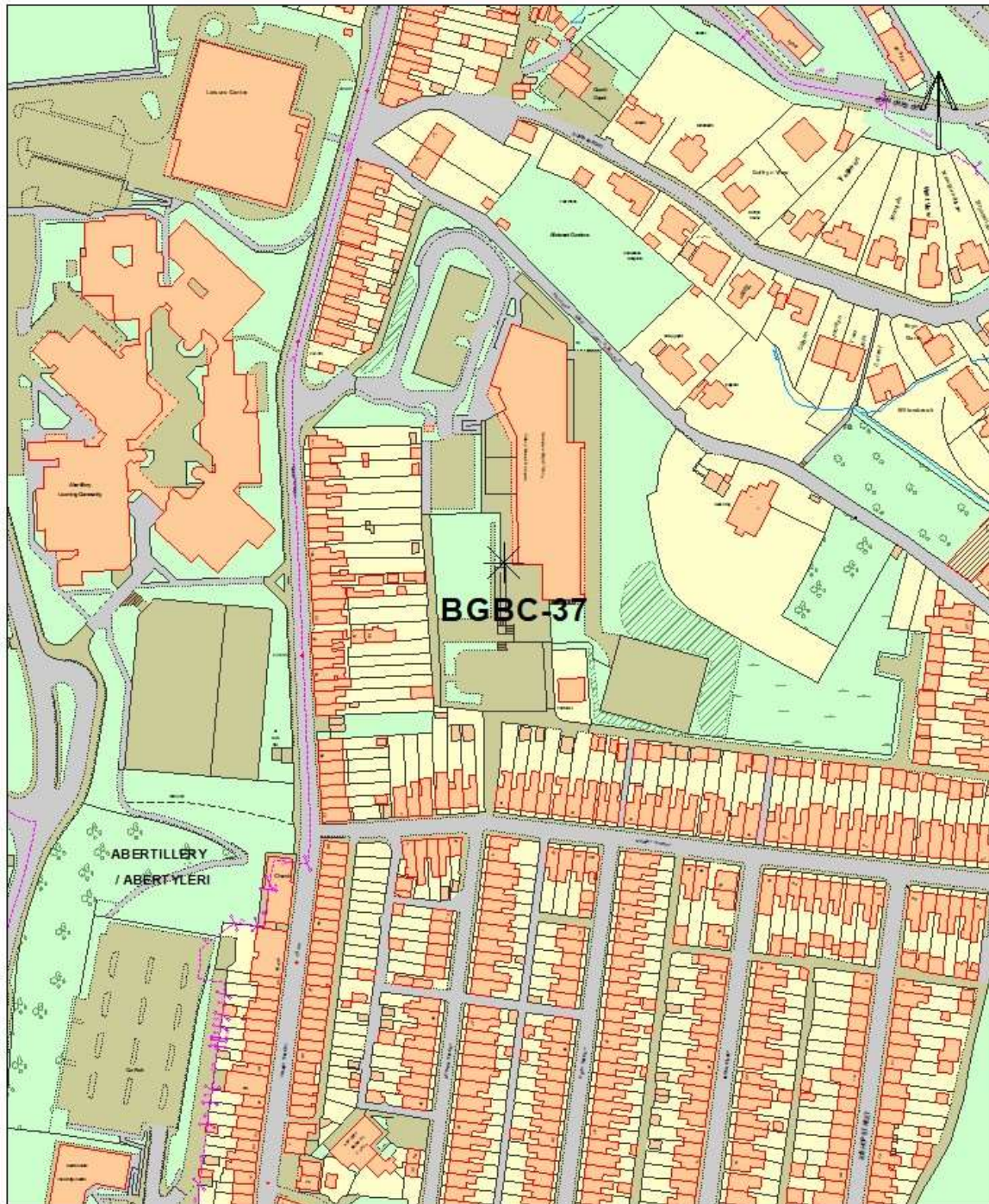


Blaenau Gwent County Borough Council

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

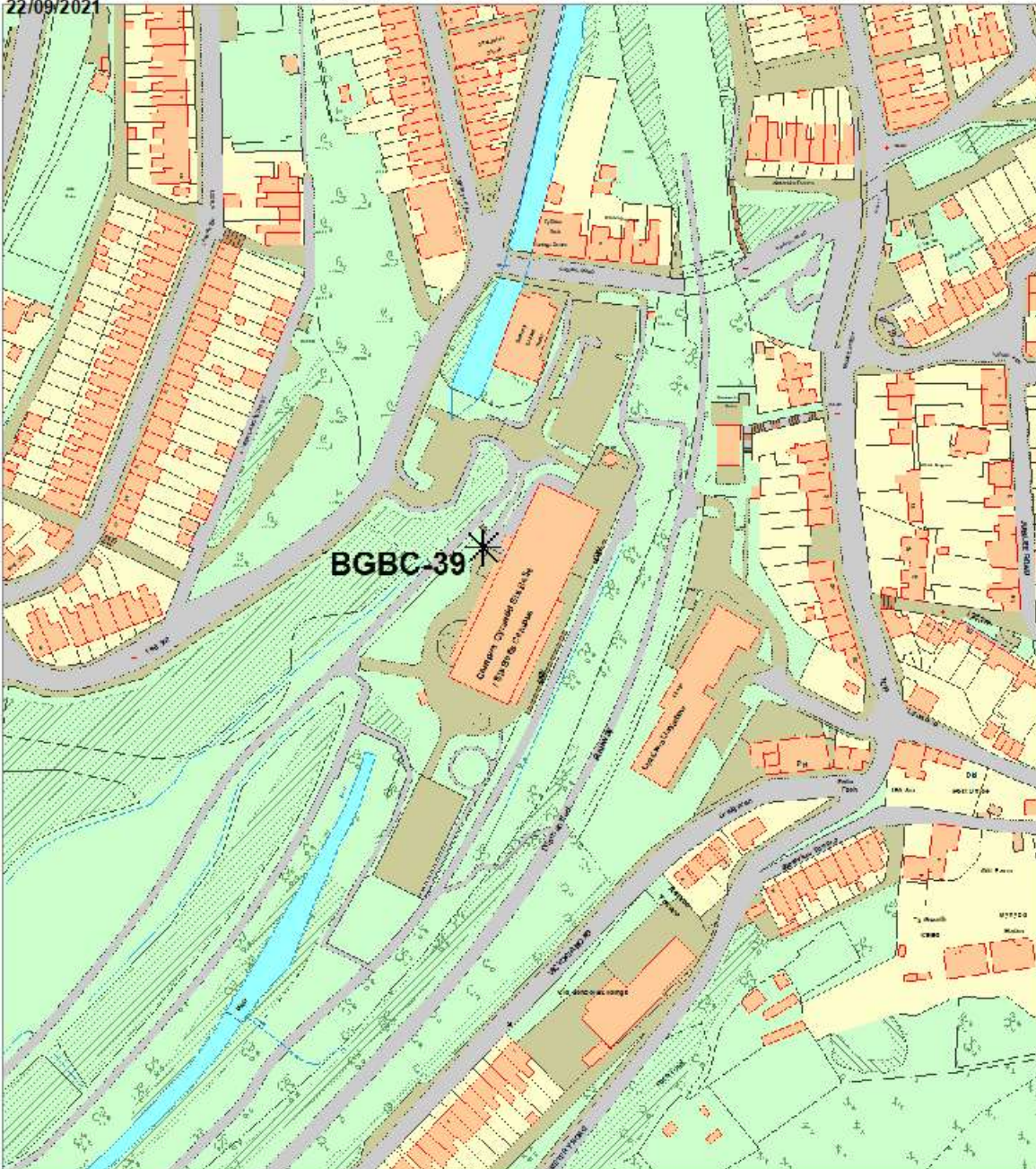
PROJECT	BGBC-39
TITLE	Six Bells Primary Campus
E:	Six Bells Road, Abertillery,



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Richard Crook . BSc, DipTP, MBA, MRTPI

Corporate Director Environment and Regeneration / Cyfarwyddwr Corfforaethol yr Amgylchedd ac Adfywio

PROJECT: 1 Waterbo Terrace, Cwm, Ebbw Vale.

TITLE: BGBC-40



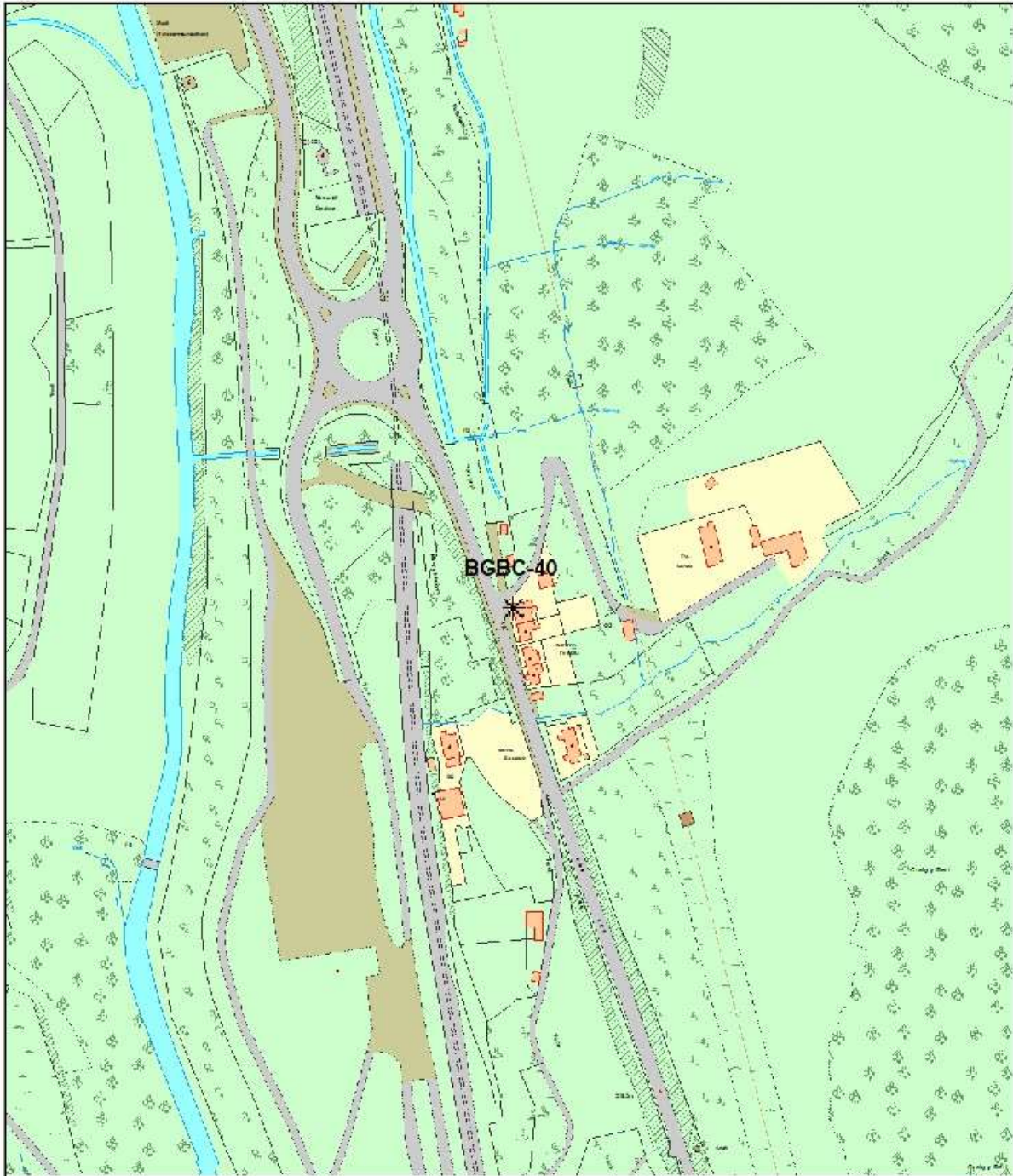
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Corporate Director Environment and Regeneration / Cyfarwyddwr Corfforaethol yr Amgylchedd ac Adfywio

PROJECT: 8 Briar Close, Rassau, Ebbw Vale.

TITLE: BGBC-41



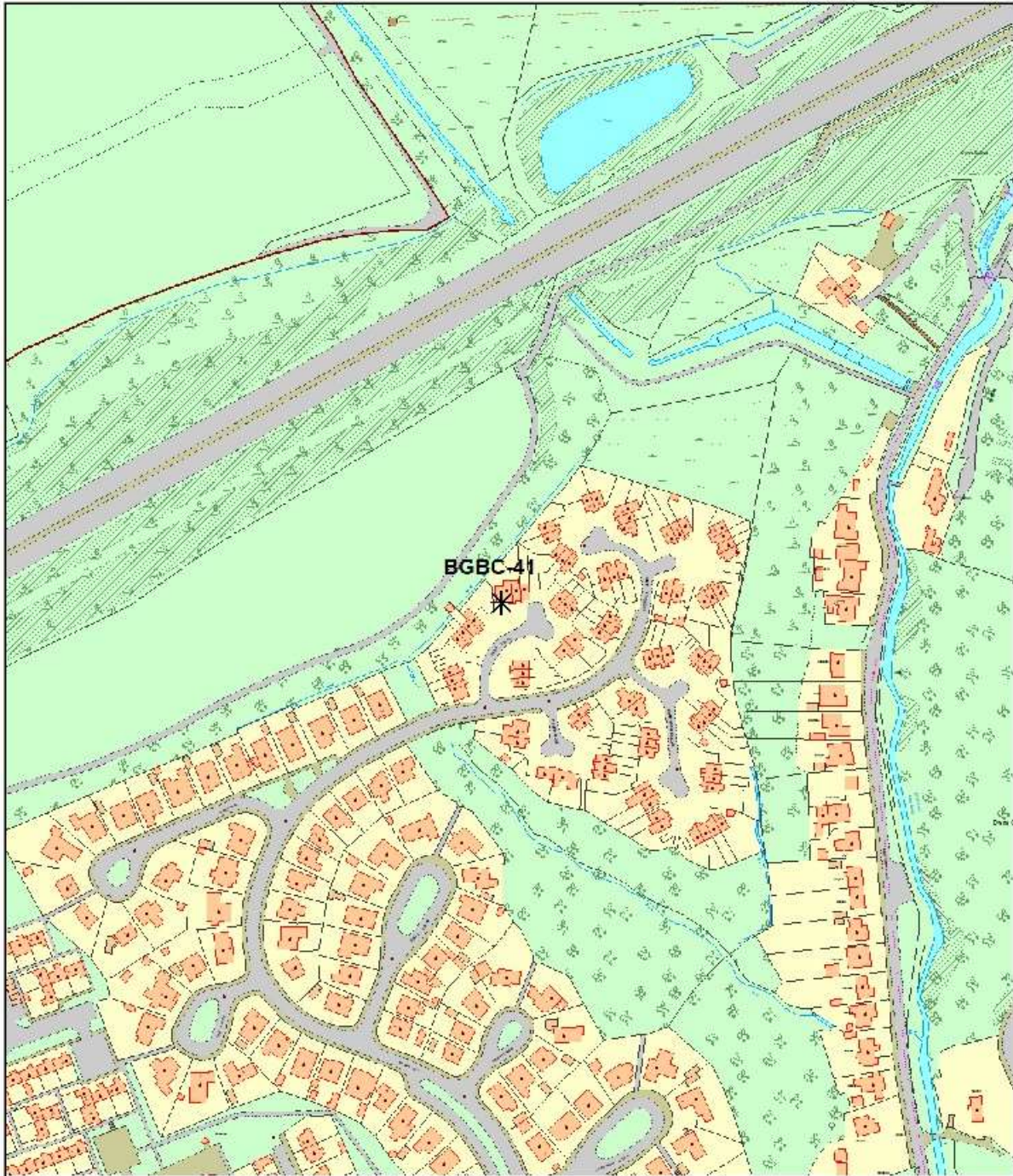
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Richard Crook BSc, DipTP, MBA, MRTPI

Corporate Director Environment and Regeneration / Cyfarwyddwr Corfforaethol yr Amgylchedd ac Adfywio

PROJECT: Rhos Y Fedwen Primary School, Ebbw Vale

TITLE: BGBC-42



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Date : 28/07/2023

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Richard Crook BSc, DipTP, MBA, MRTPI

Corporate Director Environment and Regeneration / Cyfarwyddwr Corfforaethol yr Amgylchedd ac Adfywio

PROJECT: 37 Pen Y Craig, Ebbw Vale

TITLE: BGBC-43



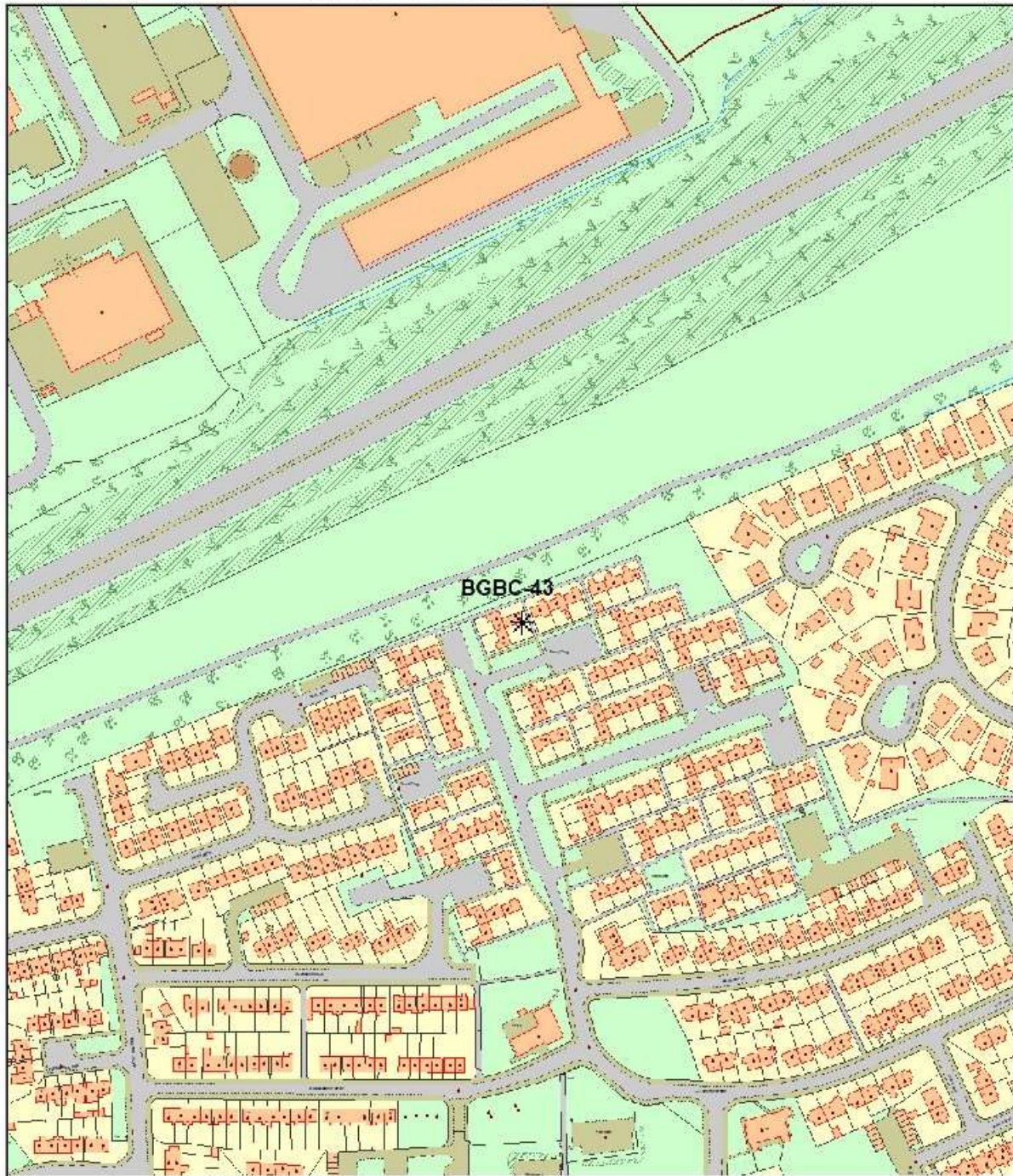
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Glossary of Terms

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 ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
PM ₁₀	Airborne particulate matter with an aerodynamic diameter of 10µm (micrometres or microns) or less
PM _{2.5}	Airborne particulate matter with an aerodynamic diameter of 2.5µm or less
QA/QC	Quality Assurance and Quality Control
SO ₂	Sulphur Dioxide