



Comhairle Ceantair
**an Iúir, Mhúrn
agus an Dúin**
**Newry, Mourne
and Down**
District Council

Newry Mourne and Down District Council

2023 Air Quality Progress Report

In fulfilment of Environment (Northern Ireland) Order
2002

Local Air Quality Management

November 2024

Information	Newry Mourne and Down District Council
Local Authority Officer	James Campbell
Department	Environmental Health
Address	Newry Office 19 Rampart Road, Greenbank Industrial Estate, Newry, Co. Down BT34 2QU
Telephone	0330 137 4000
E-mail	James.campbell@nmandd.org
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Executive Summary

Newry Mourne and Down District Council has completed this 2023 Progress Report in accordance with the provisions of the Environment (Northern Ireland) Order 2002 and the Northern Ireland Local Air Quality Management Policy Guidance document.

This 2023 Progress Report for Newry Mourne and Down District Council provides a review and assessment of all new or existing potential sources of air quality pollutants and a summary of air quality monitoring results for the calendar years 2020-2022.

A Detailed Assessment has also been completed for Canal Street Newry. The Assessment demonstrates that there will not be an exceedance of the annual mean PM₁₀ Air Quality Objective where there is relevant exposure in Newry. This has been reinforced with two additional years of monitoring. The Air Quality Management Area will be revoked after another year of monitoring to ensure Covid did not play a part in air pollutants.

2020-2022 monitoring data identified the following:

- No exceedance of annual mean objective for PM₁₀.
- No exceedance of daily mean objective for PM₁₀.
- During 2022 three of the 27 diffusion tubes located within Newry City Centre exceeded the annual mean objective for nitrogen dioxide (NO₂) (40µg/m³).

This report has not identified any new sources with relevant exposure therefore it is not considered necessary to proceed to a Detailed Assessment based on potential sources.

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1 Introduction

1.1 Description of Local Authority Area

Newry, Mourne and Down District Council area has a population of approximately 172,000. The area lies on the east coast of Ireland with its southern boundary forming part of the border between Northern Ireland and the Republic of Ireland.

The district's main settlement is Newry city which has a thriving commercial sector and with its proximity to the border with the Republic of Ireland it experiences fluctuations in cross border trade depending on the exchange rate between sterling and the euro. When the exchange rate is favourable shoppers from the Republic of Ireland visit Newry City with resultant increases in traffic volumes.

The area has two declared AQMAs Newry (Urban Centre) Air Quality Management Area (AQMA) (annual mean objective for NO₂) and Newry (Canal St) Air Quality Management Area (24 hour mean objective for PM₁₀).

During 2020-2022 there were 2 air quality monitoring stations (AQMS) in operation, 1 in Newry city area and 1 in Downpatrick. The AQMS in Newry monitored PM₁₀ and NO₂ while the Downpatrick station monitored NO₂.

1.2 Purpose of Progress Report

This report fulfils the requirements of the Local Air Quality Management (LAQM) process as set out in the Environment (Northern Ireland) Order 2002, the Air Quality Strategy for England, Scotland, Wales and Northern Ireland 2007 and the relevant Policy and Technical Guidance documents. 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 likely to be achieved. Where exceedances are considered likely, the local authority must then declare an Air Quality Management Area (AQMA) and prepare an Air Quality Action Plan (AQAP) setting out the measures it intends to put in place in pursuit of the objectives.

For Local Authorities in Northern Ireland, Progress Reports are required in the intervening years between the three-yearly Updating and Screening Assessment reports. Their purpose is to maintain continuity in the LAQM process.

They are not intended to be as detailed as Updating and Screening Assessment Reports, or to require as much effort. However, if the Progress Report identifies the risk of exceedance of an Air Quality Objective, the Local Authority (LA) should undertake a Detailed Assessment immediately, and not wait until the next round of Review and Assessment.

1.3 Air Quality Objectives

The air quality objectives applicable to LAQM in **Northern Ireland** are set out in the Air Quality Regulations (Northern Ireland) 2003, Statutory Rules of Northern Ireland 2003, no. 342, and are shown in Table 1.1. This 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 1.1 – Air Quality Objectives included in Regulations for the purpose of LAQM in Northern Ireland

Pollutant	Air Quality Objective		Date to be achieved by
	Concentration	Measured as	
Benzene	16.25 µg/m ³	Running annual mean	31.12.2003
	3.25 µg/m ³	Running annual mean	31.12.2010
1,3-butadiene	2.25 µg/m ³	Running annual mean	31.12.2003
Carbon monoxide	10 mg/m ³	Running 8-hour mean	31.12.2003
Lead	0.50 µg/m ³	Annual mean	31.12.2004
	0.25 µg/m ³	Annual mean	31.12.2008
Nitrogen dioxide	200 µg/m ³ not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
	40 µg/m ³	Annual mean	31.12.2005
Particulate matter (PM ₁₀) (gravimetric)	50 µg/m ³ , not to be exceeded more than 35 times a year	24-hour mean	31.12.2004
	40 µg/m ³	Annual mean	31.12.2004
Sulphur dioxide	350 µg/m ³ , not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
	125 µg/m ³ , not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
	266 µg/m ³ , not to be exceeded more than 35 times a year	15-minute mean	31.12.2005

1.4 Summary of Previous Review and Assessments

Title of Work	Summary of Report
USA (2004)	Potential exceedances of the NO₂ and PM₁₀ AQS objectives in the vicinity of several roads in Newry City centre
Detailed Assessment (2005)	<p>Concluded a risk of exceeding air quality objectives for NO₂ and PM₁₀ in Newry city centre. There was a high degree of uncertainty in the modelling results.</p> <p>Following discussions with the Environment and Heritage Service of the Department of Environment (NI), NMDC resolved to declare five AQMAs for the annual mean NO₂ objective and the 24-hour PM₁₀ objective</p>
USA (2006)	Concluded that the risk of the air quality objectives for NO₂ being exceeded outside existing AQMAs was negligible for all sources. In addition, the USA indicated that there was little likelihood of the 2004 air quality objectives for PM₁₀ being exceeded.
Further Assessment (2007)	<p>The results showed that NO₂ annual average concentrations within the AQMA were still likely to exceed the AQS objective along Canal Street, Water Street and Kilmorey Street in Newry City.</p> <p>Given the uncertainties in modelling PM₁₀, the focus of the further assessment and source apportionment study was therefore focused on NO_x and NO₂</p>
Further Modelling (2009)	<p>The model performance was improved from 2005 results.</p> <p>The results showed that NO₂ annual average concentrations within the AQMA were still likely to exceed the AQS objective along Canal Street, Water Street, Kilmorey Street, and a newly identified street, Sandy Street in Newry City.</p>

	<p>The model indicated that there was little likelihood of the 2004 air quality objectives for PM₁₀ being exceeded within Newry City.</p> <p>The Council resolved to revoke existing 5 AQMAs and to declare one AQMA for the annual mean NO₂ objective covering all areas of possible exceedance - Newry (Urban Centre) AQM.</p>
USA (2009)	<p>As no new or significantly changed sources of pollutants were identified a further detailed assessment was not required.</p> <p>Newry and Mourne Council finalised the Action Plan for the Newry (Urban Centre) AQMA.</p>
Progress Report 2010	<p>The PM₁₀ AQ Objective was not breached during 2009. A new site was established at Canal Street in June 2009. This site recorded 21 exceedances of the daily mean objective for PM₁₀. The street had formally been declared an AQMA for PM₁₀ but this was revoked following further dispersion modelling results (Further Assessment 2009), which indicated that exceedance of PM₁₀ objective was not likely within Newry City. Monitoring of PM₁₀ has continued at this location. 2009 monitoring data found that a number of sites of relevant exposure breached the annual mean objective for nitrogen dioxide. All of these sites were within the existing AQMA.</p>
Progress Report 2011	<p>2010 monitoring data identified exceedances of the annual mean objective for nitrogen dioxide (NO₂) (40µg/m³) for a number of streets within Newry City. These streets were within an existing Air Quality Management Area - Newry (Urban Centre) Air Quality Management Area for which there is an agreed Action Plan.</p> <p>Air quality monitoring results for NO₂ and PM₁₀ for 2010 were elevated from 2009 and it was argued that these</p>

	<p>increases were due mainly to the prevailing weather conditions during 2010 rather than as a result of new or increased sources of pollutants.</p> <p>During 2010 air quality monitoring in Canal Street, Newry, monitored exceedances for the 1-hour mean objective ($200\mu\text{g}/\text{m}^3$) for NO_2 at and for the 24-hour mean objective (50mgm^{-3}) for PM_{10}. It was concluded that a Detailed Assessment for the 1-hour mean objective for NO_2 and the 24-hour mean objective for PM_{10} at Canal Street, Newry was required.</p>
<p>Detailed Assessment 2011</p>	<p>As a result of the findings of Progress Report 2010 a Detailed Assessment was carried out to determine if risk of 1-hour mean objective for NO_2 and daily mean objective for PM_{10} being exceed for Canal Street, Newry. Findings of the assessment did not establish a risk for 1-hour mean objective for NO_2 being exceeded but there was a risk identified for the daily mean objective for PM_{10} being exceeded for Canal Street. It was recommended that an AQMA be declared in Canal Street for the daily mean objective for PM_{10}.</p>
<p>Progress Report 2013</p>	<p>The 2013 report identified the following issues;</p> <p>Exceedance in Annual Mean objective for nitrogen dioxide (NO_2) ($40\mu\text{g}/\text{m}^3$) at Trevor Hill AQMS and Canal St AQMS. 15 of the 26 diffusion tubes located within Newry City Centre exceeded the annual mean objective for nitrogen dioxide (NO_2) ($40\mu\text{g}/\text{m}^3$). Exceedance of hourly mean objective for (NO_2) ($200\mu\text{g}/\text{m}^3$) at Canal St AQMS, at three diffusion sites in Newry Urban AQMA,(Canal Street and Kilmorey Street) the annual mean NO_2 level recorded by diffusion tubes exceeded $60\mu\text{g}/\text{m}^3$.</p>

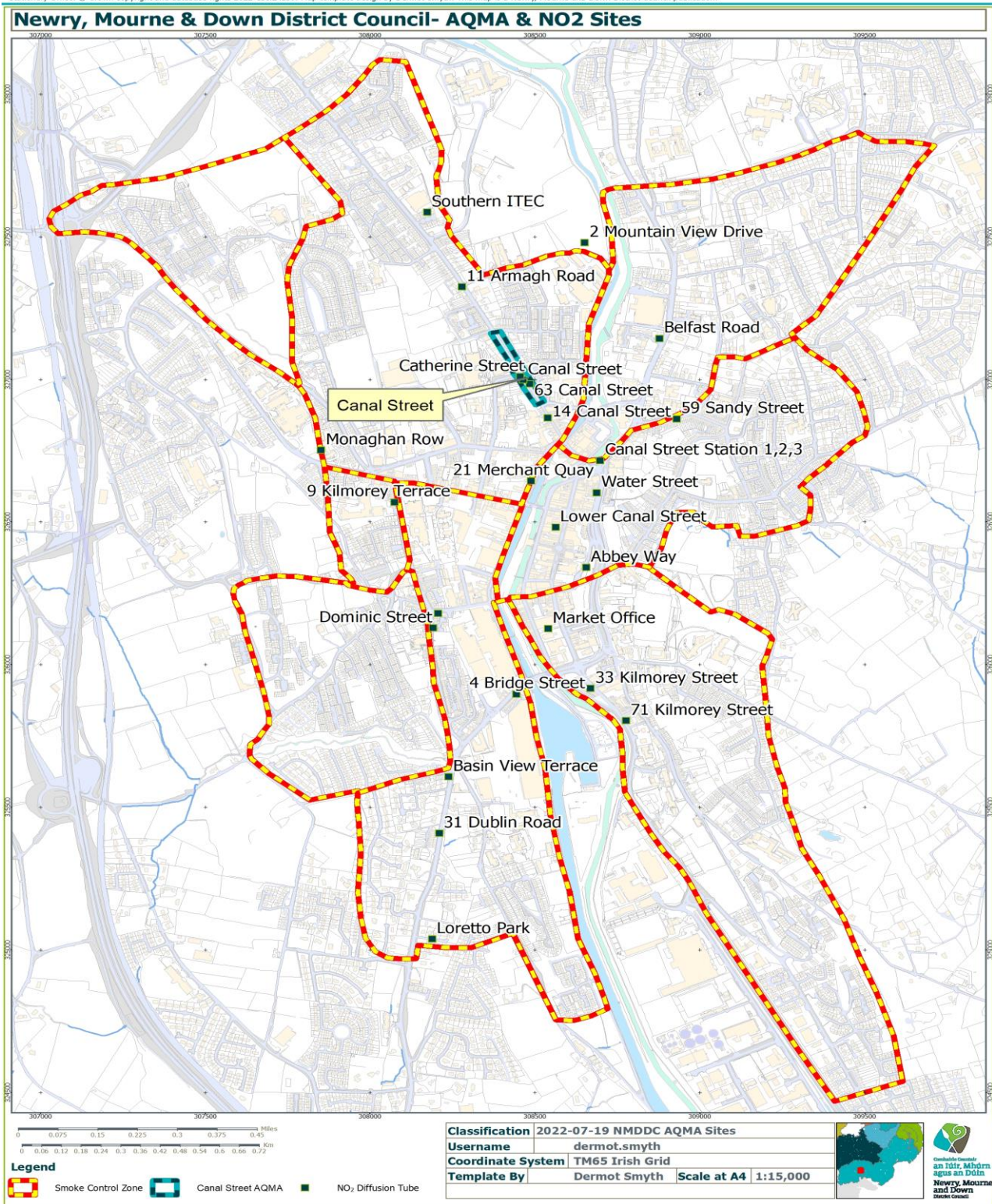
	<p>No exceedance of annual mean or daily mean objective for PM₁₀.</p> <p>These results were in contradiction to the conclusions drawn from the Detailed Assessment carried out in 2012 where it was concluded that there was no risk of the 1-hour mean objective for NO₂ being exceeded in Newry AQMA but there was a risk identified for the daily mean objective for PM₁₀ being exceeded in Canal Street.</p> <p>It was not proposed to make any declaration in relation to a likelihood of an exceedance of the hourly mean objective for (NO₂) (200µg/m³) in Canal Street and Kilmorey Street but monitoring at both these locations has continued.</p>
<p>Further Assessment 2014</p>	<p>A further assessment of PM₁₀ concentrations within the Canal Street Air Quality Management Area (AQMA) was undertaken in early 2014. The further assessment involved a review of air quality monitoring data, dispersion modeling for road and domestic chimney sources and source apportionment. The assessment found that the PM₁₀ objective was exceeded in both 2012 and 2013 and recommended that the AQMA should remain and monitoring continue. Source apportionment of local emission found that ambient background concentrations contribute the largest proportion to the overall concentration followed by emissions from cars on local roads</p>
<p>Progress Report 2014</p>	<p>The 2014 Progress Report for the former Newry and Mourne District Council which contained 2013 monitoring data has identified the following:</p> <p>Exceedance of daily mean objective for PM₁₀ at Canal Street AQMS.</p> <p>Exceedance in Annual Mean objective for nitrogen dioxide (NO₂) (40µg/m³) at Trevor Hill AQMS and Canal St AQMS.</p>

	<p>10 of the 28 diffusion tubes located within Newry City Centre exceeded the annual mean objective for nitrogen dioxide (NO₂) (40µg/m³).</p> <p>Exceedance of hourly mean objective for (NO₂) (200µg/m³) at Trevor Hill AQMS and Canal St AQMS. A diffusion tube site at Canal St in Newry Urban AQMA recorded an annual mean NO₂ level of 60 µg/m³ which is an indicator that the hourly mean objective (200µg/m³) may be exceeded.</p> <p>No exceedance of annual mean objective for PM₁₀.</p>
<p>Progress Report 2017</p>	<p>The 2017 Progress Report which contained 2016 monitoring data identified the following:</p> <ul style="list-style-type: none"> • No exceedance of annual mean objective for PM₁₀. • No exceedance of daily mean objective for PM₁₀. • 9 of the 24 diffusion tubes located within Newry City Centre exceeded the annual mean objective for nitrogen dioxide (NO₂) (40µg/m³). • Exceedance of the annual mean objective for NO₂ at Market Street automatic station. • Council will proceed to a detailed assessment for the Market Street location.
<p>USA 2018</p>	<p>The USA 2018 report which contained monitoring data from 2017 identified the following:</p> <ul style="list-style-type: none"> • Five of the 27 NO₂ diffusion tubes located within Newry City Centre exceeded the annual mean objective for nitrogen dioxide (NO₂) • Monitoring at all sites will continue into 2019 to assess if a Detailed assessment will be necessary on the AQMA.

	<ul style="list-style-type: none"> • The PM₁₀ daily mean objective was not exceeded within Canal Street, Newry. Monitoring at this site will continue into 2019 to assess if a Detailed assessment will be necessary on the AQMA. • Concentrations of NO₂ above the annual mean objective at Market Street Downpatrick were monitored. A detailed assessment for Market Street, Downpatrick will be carried out.
<p>Progress Report 2019</p>	<ul style="list-style-type: none"> • Four of the 24 NO₂ diffusion tubes located within Newry City Centre exceeded the annual mean objective for nitrogen dioxide (NO₂) and monitoring at all sites will continue into 2020 to assess if a Detailed assessment will be necessary on the AQMA. • The PM₁₀ daily mean objective was not exceeded within Canal Street, Newry. • This report did not identify any new sources with relevant exposure therefore it is not considered necessary to proceed to a Detailed Assessment based on potential sources.
<p>Progress report 2020</p>	<ul style="list-style-type: none"> • A Detailed Assessment was completed for the centre of Downpatrick. The Assessment demonstrated that there will not be an exceedance of the annual mean NO₂ • This report did not identify any new sources with relevant exposure

Figure 1.1 – Map of AQMA Boundaries

Care has been taken to ensure accuracy in the compilation of this map at the time of publication. Newry, Mourne and Down District Council cannot, however, accept responsibility for errors and omissions. Where such are brought to our attention, the amendment of any future publications as appropriate shall be entirely at our discretion. This material is Crown Copyright and is reproduced with the permission of Land & Property Services under delegated authority from the Controller of Her Majesty's Stationery Office. © Crown copyright and database rights 2022 CS&LA156. Map template design by Dermot Smyth. This map is a Newry, Mourne and Down District Council publication.



2 New Monitoring Data

2.1 Summary of Monitoring Undertaken

2.1.1 Automatic Monitoring Sites

The automatic monitoring stations within the district are National Environmental Technology Centre (NETCEN) type tested and approved analysers, which contain air-conditioned units to maintain the correct operating temperature. In April 2018 the Downpatrick NO₂ analyser was replaced.

During 2020-2022 Newry, Mourne and Down District Council had a QA/QC contract with Ricardo-AEA and Data Management contract with AQDM. QA/QC audits have been completed on the automatic monitoring equipment currently located within the Council area. The QA/QC procedures can be found in the appendices on page 61.

Figure 2.1 – Map(s) of Automatic Monitoring Sites

Downpatrick

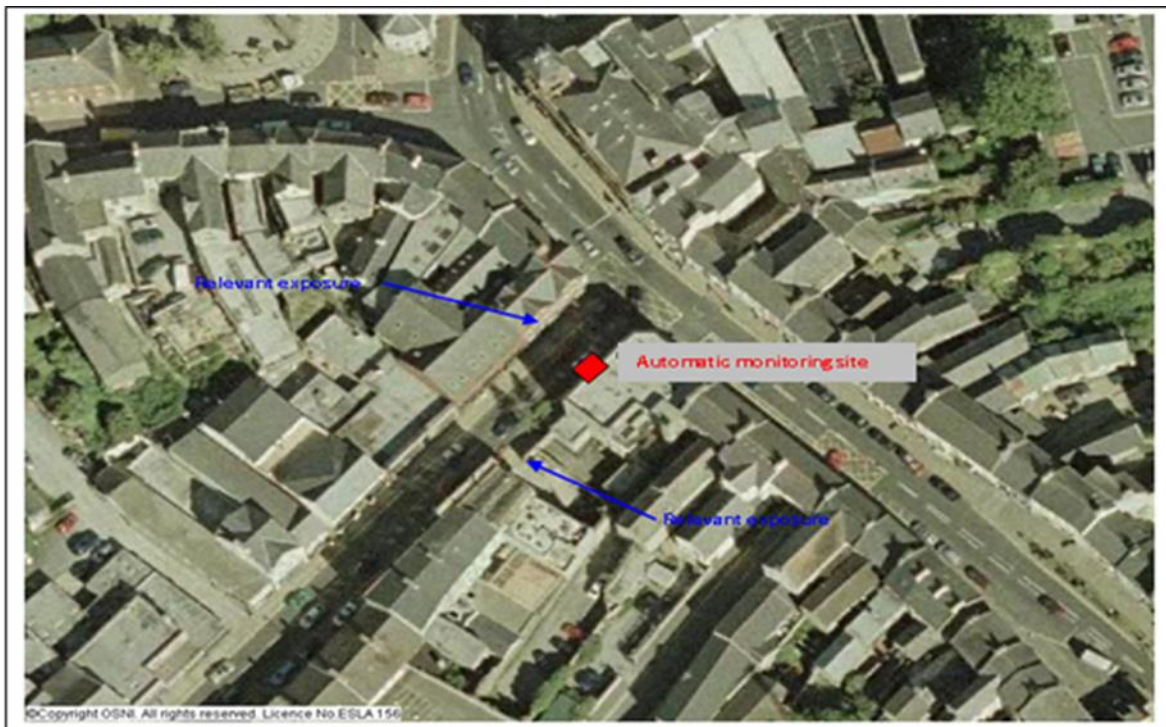


Figure 2.2- Newry Automatic Monitoring Station-Canal Street

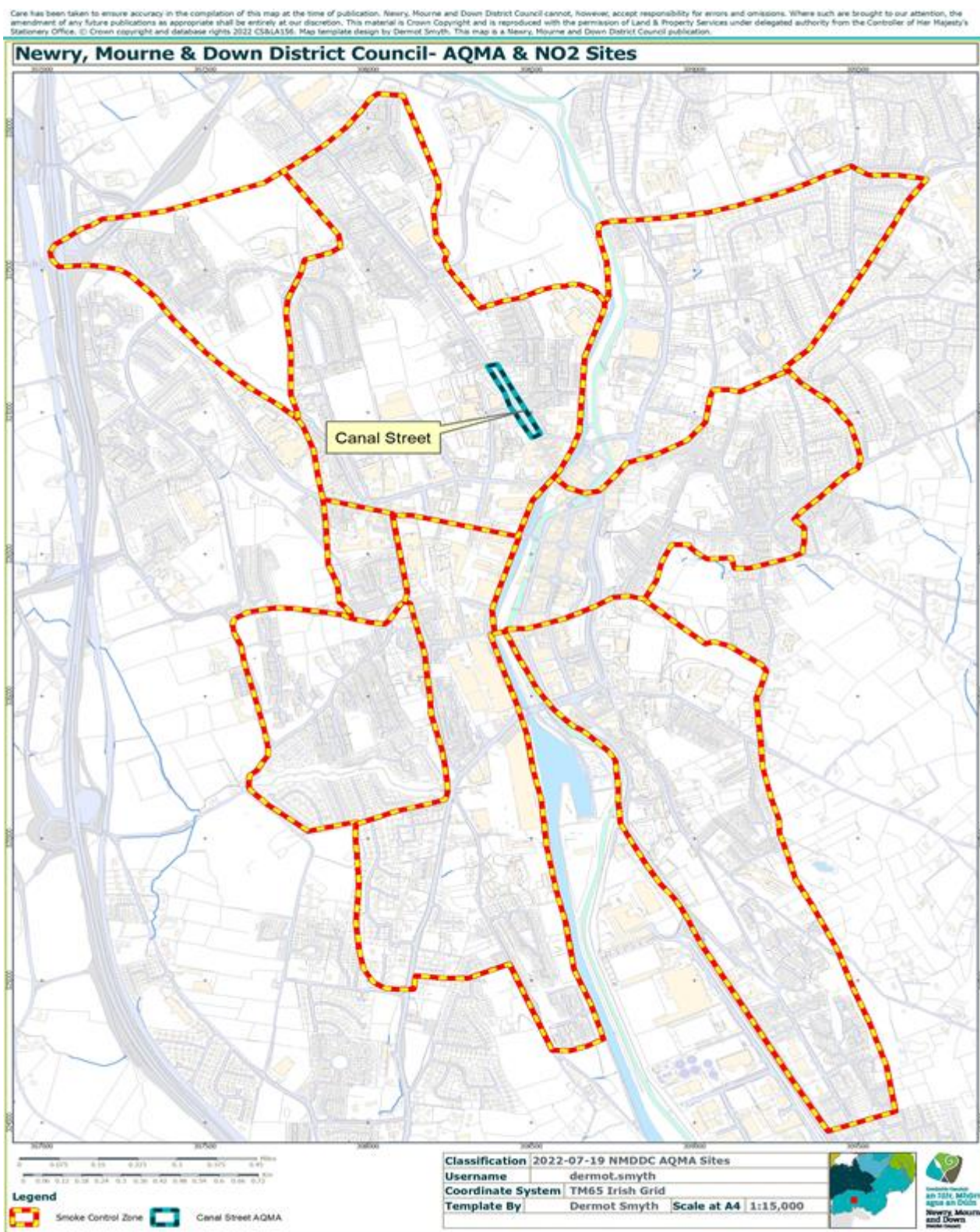


Table 2.1 – Details of Automatic Monitoring Sites

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Inlet Height (m)	Pollutants Monitored	In AQMA?	Monitoring Technique	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
CM1	Canal Street, Newry	Roadside	308485	326976	1.5	PM10 NO ₂	Y	N/A	Y(<1M)	3M	Y
CM2	Market Street, Downpatrick	Roadside	348655	344596	2	NO ₂	N	N/A	Y(10M)	1.5M	Y

2.1.2 Non-Automatic Monitoring Sites

In the calendar years 2020-2022 Newry, Mourne and Down District Council deployed 31 NO₂ diffusion tubes per month at 29 sites within its District. No distance corrections are necessary due to the location of tubes on facades of any properties with exceedances. One site at Canal Street was a triplicate site. The NO₂ diffusion tubes used were prepared and analysed by Socotec using the 50% TEA in acetone method. The laboratory methods are currently UKAS accredited. Details of the QA/QC for the diffusion tubes and the reason for the use a bias adjustment figure can be found in Appendix A page 58.

Figure 2.3 – Map(s) of Non-Automatic Monitoring Sites- Downpatrick

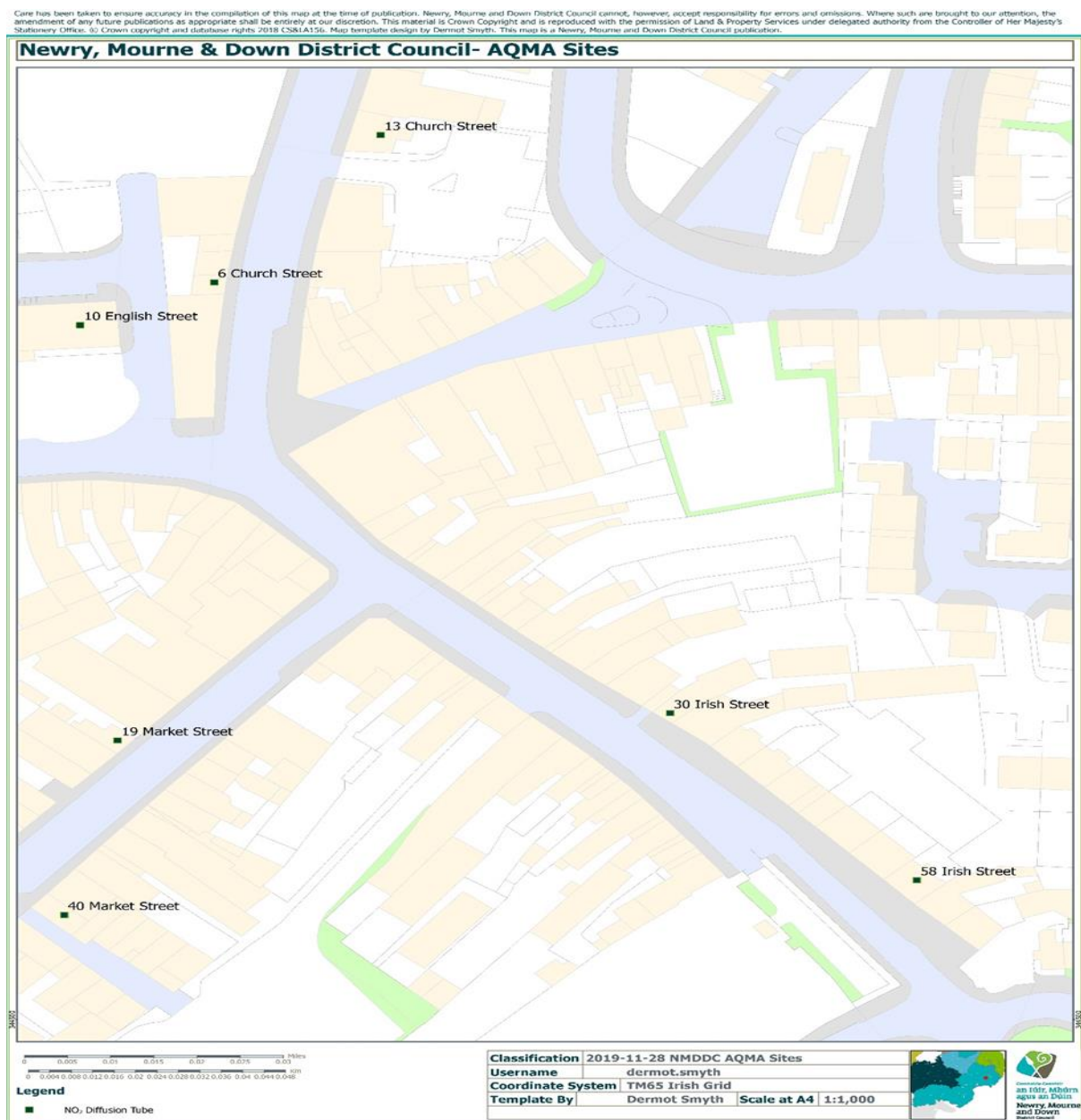


Table 2.2 – Details of Non-Automatic Monitoring Sites

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	Pollutants Monitored	In AQMA?	Is Monitoring Co-located with a Continuous Analyser (Y/N)	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
83610	Monaghan Row	Urban background	307851	326751	2.5	NO ₂	Y	N	N	50m	Y
84610	Lower Canal Street	Roadside	308562	326481	2.5	NO ₂	Y	N	Y	1m	Y
87268	14 Canal Street	Roadside	308538	326864	2.5	NO ₂	Y	N	Y	2m	Y
87241 87252 87253	Canal Street Station 1,2,3	Roadside	308697	326715	2.5	NO ₂	Y	Y	Y	2m	Y

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	Pollutants Monitored	In AQMA?	Is Monitoring Co-located with a Continuous Analyser (Y/N)	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
87242	63 Canal Street	Roadside	308483	326984	2.5	NO2	Y	N	Y	2m	Y
84609	Canal Street	Roadside	308463	326998	2.5	NO2	Y	N	Y	1m	Y
84611	Catherine Street	Roadside	308454	327009	2.5	NO2	Y	N	Y	2m	Y
87313	Southern ITEC	Roadside	308172	327586	2.5	NO2	Y	N	Y	2m	Y
87312	2 Mountain View Drive	Roadside	308650	327479	2.5	NO2	Y	N	Y	2m	Y

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	Pollutants Monitored	In AQMA?	Is Monitoring Co-located with a Continuous Analyser (Y/N)	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
84649	59 Sandy Street	Roadside	308929	326861	2.5	NO2	Y	N	Y	1m	Y
87314	Abbey Way	Roadside	308655	326340	2.5	NO2	Y	N	Y	2m	Y
82651	Water Street	Roadside	308686	326602	2.5	NO2	Y	N	Y	1m	Y
87085	Market Office	Urban Background	308539	326125	2.5	NO2	Y	N	Y	25m	Y
85064	33 Kilmorey Street	Roadside	308668	325916	2.5	NO2	Y	N	Y	1m	Y
87088	71 Kilmorey Street	Roadside	308775	325803	2.5	NO2	Y	N	Y	1m	Y

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	Pollutants Monitored	In AQMA?	Is Monitoring Co-located with a Continuous Analyser (Y/N)	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
87089	4 Bridge Street	Roadside	308443	325896	2.5	NO2	Y	N	Y	2m	Y
87315	Loretto Park	Roadside	308188	325037	2.5	NO ₂	Y	N	Y	2m	Y
85070	Basin View Terrace	Roadside	308237	325606	2.5	NO2	Y	N	Y	1m	Y
85077	Dominic Street	Roadside	308190	326128	2.5	NO2	Y	N	Y	2m	Y
87369	11 Armagh Road	Roadside	308278	327324	2.5	NO2	Y	N	Y	3m	Y

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	Pollutants Monitored	In AQMA?	Is Monitoring Co-located with a Continuous Analyser (Y/N)	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
87370	21 Merchant Quay	Roadside	308487	326643	2.5	NO2	Y	N	Y	3m	Y
87371	31 Dublin Road	Roadside	308209	325408	2.5	NO2	Y	N	Y	1m	Y
87397	30 Irish Street	Roadside	348718	344579	2.5	NO2	N	N	Y	3m	Y
87398	10 English Street	Roadside	348608	344679	2.5	NO2	N	N	Y	3m	Y
87399	6 Church Street	Roadside	348633	344690	2.5	NO2	N	N	N	3m	Y

Site ID	Site Name	Site Type	X OS Grid Reference	Y OS Grid Reference	Site Height (m)	Pollutants Monitored	In AQMA?	Is Monitoring Co-located with a Continuous Analyser (Y/N)	Relevant Exposure? (Y/N with distance (m) from monitoring site to relevant exposure)	Distance to Kerb of Nearest Road (m) (N/A if not applicable)	Does this Location Represent Worst-Case Exposure?
87400	13 Church Street	Roadside	348664	344728	2.5	NO2	N	N	N	3m	Y
87401	19 Market Street	Roadside	348615	344572	2.5	NO2	N	N	Y	3m	Y
87402	40 Market Street	Roadside	348605	344527	2.5	NO2	N	N	N	3m	Y
87403	58 Irish Street	Roadside	348764	344536	2.5	NO2	N	N	Y	3m	Y

2.2 Comparison of Monitoring Results with Air Quality Objectives

The existing monitoring network consists of two continuous monitoring stations at Canal Street, Newry and Market Street, Downpatrick and 31 NO₂ diffusion tubes at 29 sites across Newry, Mourne and Down District Council area.

2.2.1 Nitrogen Dioxide (NO₂)

Automatic Monitoring Data

During 2020- 2022 the Council monitored NO₂ at two sites, Market Street, Downpatrick and Canal Street, Newry.

Table 2.3 – Results of Automatic Monitoring for NO₂: Comparison with Annual Mean Objective

Site ID	Site Type	Within AQMA?	Valid Data Capture for Monitoring Period % ^a	Valid Data Capture 2022 % ^b	Annual Mean Concentration (µg/m ³)				
					2018	2019	2020* ^c	2021* ^c	2022 ^c
Canal Street	Roadside	Y	99.4	99.4	40	43	31	37	34
Market Street	Roadside	N	98.8	98.8	47	43	34	37	33

In bold, exceedance of the NO₂ annual mean AQS objective of 40µg/m³

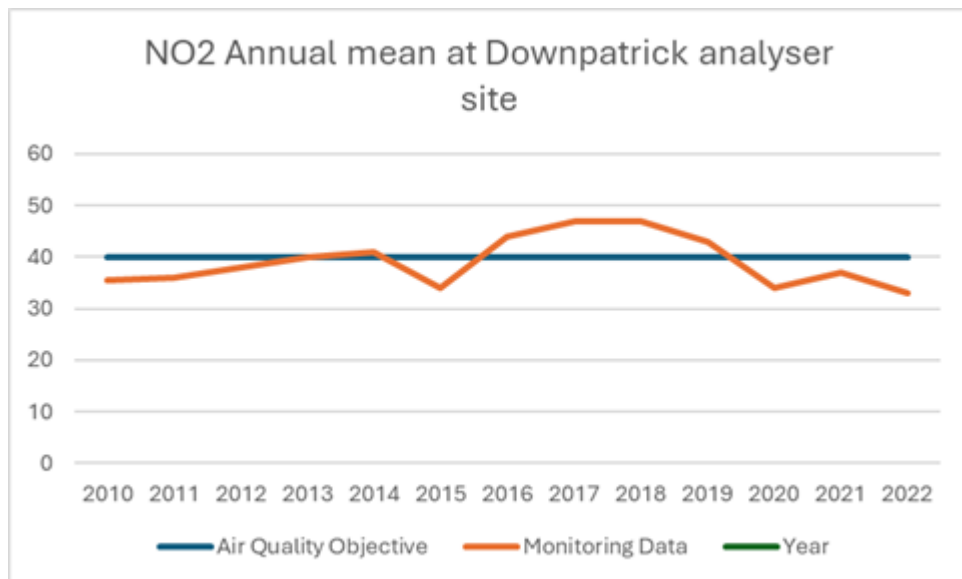
^a i.e. data capture for the monitoring period, in cases where monitoring was only carried out for part of the year

^b i.e. data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

^c Means should be “annualised” as in Boxes 7.9 and 7.10 of LAQM.TG22, if valid data capture is less than 75%

* Annual mean concentrations for previous years are optional

Figure 2.4 – Trends in Annual Mean NO₂ Concentrations Measured at Automatic Monitoring Sites



The annual mean concentration of NO₂ as displayed in Figure 2.3 shows an upward trend in levels from 2010 to 2018 culminating in breaches of the air quality objective in 2016, 2017 and 2018. There was a decrease in levels in 2019 but this level was still a breach of the air quality objective. Air quality from 2020-2022 shows a sharp drop from 2019 this in part may have been due to reduced travel during the Covid pandemic.

Table 2.4 – Results of Automatic Monitoring for NO₂: Comparison with 1-hour Mean Objective

Site ID	Site Type	Within AQMA?	Valid Data Capture for Monitoring Period % ^a	Valid Data Capture 2022 % ^b	Number of Hourly Means > 200µg/m ³				
					2018* ^c	2019* ^c	2020* ^c	2021* ^c	2022 ^c
Canal Street	Roadside	Y	99.4	99.4	0	1	0	0	0
Market Street	Roadside	Y	98.8	98.8	11	2	0	0	0

In bold, exceedance of the NO₂ hourly mean AQS objective (200µg/m³ – not to be exceeded more than 18 times per year)

^a i.e. data capture for the monitoring period, in cases where monitoring was only carried out for part of the year

^b i.e. data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

^c If the data capture for full calendar year is less than 85%, include the 99.8th percentile of hourly means in brackets

* Number of exceedances for previous years is optional

Diffusion Tube Monitoring Data

Table 2.5 – Results of NO₂ Diffusion Tubes 2020

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2020 (Number of Months or %) ^a	2020 Annual Mean Concentration (µg/m ³) - Bias Adjustment factor = 0.76 ^b
83610	Monaghan Row	Urban background	Y	N	11	9
84610	Lower Canal Street	Roadside	Y	N	11	27
87268	14 Canal Street	Roadside	Y	N	11	22
87241 87252 87253	Canal Street Station1,2,3	Roadside	Y	Y	11	30, 29, 31
87242	63 Canal Street	Roadside	Y	N	11	29
84609	Canal Street	Roadside	Y	N	11	40

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2020 (Number of Months or %) ^a	2020 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.76 ^b
84611	Catherine Street	Roadside	Y	N	11	28
87313	Southern ITEC	Roadside	Y	N	11	17
87312	2 Mountain View Drive	Roadside	Y	N	11	13
84649	59 Sandy Street	Roadside	Y	N	11	32
87314	Abbey Way	Roadside	Y	N	11	17
82651	Water Street	Roadside	Y	N	11	38
87085	Market Office	Urban background	Y	N	11	14
85064	33 Kilmorey Street	Roadside	Y	N	11	38

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2020 (Number of Months or %) ^a	2020 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.76 ^b
87088	71 Kilmorey Street	Roadside	Y	N	11	45
87089	4 Bridge Street	Roadside	Y	N	11	24
87315	Loretto Park	Roadside	Y	N	10	11
85070	Basin View Terrace	Roadside	Y	N	11	25
85077	Dominic Street	Roadside	Y	N	11	24
87369	11 Armagh Road	Roadside	Y	N	11	28
87370	21 Merchant Quay	Roadside	Y	N	10	25

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2020 (Number of Months or %) ^a	2020 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.76 ^b
87371	31 Dublin Road	Roadside	Y	N	11	29
87397	30 Irish Street	Roadside	N	N	11	26
87398	10 English Street	Roadside	N	N	11	16
87399	6 Church Street	Roadside	N	N	11	34
87400	13 Church Street	Roadside	N	N	9	23
87401	19 Market Square	Roadside	N	N	11	28
87402	40 Market Street	Roadside	N	N	11	22

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2020 (Number of Months or %) ^a	2020 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.76 ^b
87403	58 Irish Street	Roadside	N	N	11	17

Table 2.5 – Results of NO₂ Diffusion Tubes 2021

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2021 (Number of Months or %) ^a	2021 Annual Mean Concentration (µg/m ³) - Bias Adjustment factor = 0.77
83610	Monaghan Row	Urban background	Y	N	11	9
84610	Lower Canal Street	Roadside	Y	N	11	31
87268	14 Canal Street	Roadside	Y	N	11	24
87241 87252 87253	Canal Street Station1,2,3	Roadside	Y	Y	11	34, 35, 33
87242	63 Canal Street	Roadside	Y	N	11	33
84609	Canal Street	Roadside	Y	N	11	42

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2021 (Number of Months or %) ^a	2021 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.77
84611	Catherine Street	Roadside	Y	N	11	32
87313	Southern ITEC	Roadside	Y	N	11	18
87312	2 Mountain View Drive	Roadside	Y	N	11	14
84649	59 Sandy Street	Roadside	Y	N	11	31
87314	Abbey Way	Roadside	Y	N	11	16
82651	Water Street	Roadside	Y	N	11	38
87085	Market Office	Urban background	Y	N	11	16
85064	33 Kilmorey Street	Roadside	Y	N	11	42

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2021 (Number of Months or %) ^a	2021 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.77
87088	71 Kilmorey Street	Roadside	Y	N	11	42
87089	4 Bridge Street	Roadside	Y	N	11	27
87315	Loretto Park	Roadside	Y	N	11	10
85070	Basin View Terrace	Roadside	Y	N	11	28
85077	Dominic Street	Roadside	Y	N	10	28
87369	11 Armagh Road	Roadside	Y	N	11	30
87370	21 Merchant Quay	Roadside	Y	N	11	26

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2021 (Number of Months or %) ^a	2021 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.77
87371	31 Dublin Road	Roadside	Y	N	11	27
87397	30 Irish Street	Roadside	N	N	11	25
87398	10 English Street	Roadside	N	N	10	15
87399	6 Church Street	Roadside	N	N	11	36
87400	13 Church Street	Roadside	N	N	11	25
87401	19 Market Square	Roadside	N	N	11	27
87402	40 Market Street	Roadside	N	N	11	23

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2021 (Number of Months or %) ^a	2021 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.77
87403	58 Irish Street	Roadside	N	N	10	17

Table 2.7 – Results of NO₂ Diffusion Tubes 2022

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2022 (Number of Months or %) ^a	2022 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.76
83610	Monaghan Row	Urban background	Y	N	12	10
84610	Lower Canal Street	Roadside	Y	N	12	30

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2022 (Number of Months or %) ^a	2022 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.76
87268	14 Canal Street	Roadside	Y	N	12	22
87241 87252 87253	Canal Street Station1,2,3	Roadside	Y	Y	12	33
87242	63 Canal Street	Roadside	Y	N	12	32
84609	Canal Street	Roadside	Y	N	12	41
84611	Catherine Street	Roadside	Y	N	12	30
87313	Southern ITEC	Roadside	Y	N	12	21
87312	2 Mountain View Drive	Roadside	Y	N	12	15

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2022 (Number of Months or %) ^a	2022 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.76
84649	59 Sandy Street	Roadside	Y	N	12	34
87314	Abbey Way	Roadside	Y	N	12	17
82651	Water Street	Roadside	Y	N	11	40
87085	Market Office	Urban background	Y	N	11	14
85064	33 Kilmorey Street	Roadside	Y	N	11	41
87088	71 Kilmorey Street	Roadside	Y	N	12	45
87089	4 Bridge Street	Roadside	Y	N	12	28
87315	Loretto Park	Roadside	Y	N	12	13

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2022 (Number of Months or %) ^a	2022 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.76
85070	Basin View Terrace	Roadside	Y	N	12	27
85077	Dominic Street	Roadside	Y	N	12	28
87369	11 Armagh Road	Roadside	Y	N	12	30
87370	21 Merchant Quay	Roadside	Y	N	12	25
87371	31 Dublin Road	Roadside	Y	N	11	32
87397	30 Irish Street	Roadside	N	N	12	26
87398	10 English Street	Roadside	N	N	8	18 <i>Annualisation carried out.</i>

Site ID	Location	Site Type	Within AQMA?	Triplicate or Co-located Tube	Full Calendar Year Data Capture 2022 (Number of Months or %) ^a	2022 Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Bias Adjustment factor = 0.76
87399	6 Church Street	Roadside	N	N	12	38
87400	13 Church Street	Roadside	N	N	11	27
87401	19 Market Square	Roadside	N	N	12	31
87402	40 Market Street	Roadside	N	N	12	24
87403	58 Irish Street	Roadside	N	N	11	17

In bold, exceedance of the NO₂ annual mean AQS objective of 40 $\mu\text{g}/\text{m}^3$

Underlined, annual mean > 60 $\mu\text{g}/\text{m}^3$, indicating a potential exceedance of the NO₂ hourly mean AQS objective

^a Means should be “annualised” as in Boxes 7.9 and 7.10 of LAQM.TG22, if full calendar year data capture is less than 75%

^b If an exceedance is measured at a monitoring site not representative of public exposure, NO₂ concentration at the nearest relevant exposure should be estimated based on the [NO₂ fall-off with distance calculator](#), and results should be discussed in a specific section. The procedure is also explained in paragraphs 7.82 to 7.85 of LAQM.TG22.

The annualisation of site 87398 (10 Englis Street)

Background site	Annual mean 2022 (Am)	Period mean 2022 (Pm)	Ration (Am/Pm)
Canal Street (data capture 99.4%)	34	42	0.809
Market Street (data capture 98.8%)	33	34	0.971
Average (Ra)			0.89
Measured (M) mean for site 87398 is 24 prior to bias adjustment	M x Ra=21.36		As the diffusion tube location is a roadside location in line with BOX 7.9 of LAQM-TG22-the Councils’ two continuous monitoring locations have been used, i.e. Canal Street and Market Street. Both sites meet the data capture requirements. The annualization factor (Ra) calculated is 0.89. After multiplying the measured mean of 24 µg/m ³ at site 87398 the figure of 21.36 is derived. Once adjusted for bias the figure of 16.23 µg/m³ is derived.

Table 2.8 – Results of NO₂ Diffusion Tubes (2018 to 2022)

Site ID	Site Type	Within AQMA?	Annual Mean Concentration (µg/m ³) - Adjusted for Bias ^a				
			2018 (Bias Adjustment Factor = 0.77)	2019 (Bias Adjustment Factor = 0.75)	2020 (Bias Adjustment Factor = 0.76)	2021 (Bias Adjustment Factor = 0.77)	2022 (Bias Adjustment Factor = 0.76)
83610	Monaghan Row	Y	14	11	9	9	10
84610	Lower Canal Street	Y	32	34	27	31	30
87268	14 Canal Street	Y	29	27.8	22	24	22
87241	Canal Street Station1,2,3		39	39.1		34	33
87252					30		
87253		Y					
87242	63 Canal Street	Y	33	37.7	29	33	32
84609	Canal Street	Y	49	50.5	40	42	41
84611	Catherine Street	Y	39	35.8	28	32	30
87313	Southern ITEC	Y	23	21.1	17	18	21

Site ID	Site Type	Within AQMA?	Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Adjusted for Bias ^a				
			2018 (Bias Adjustment Factor = 0.77)	2019 (Bias Adjustment Factor = 0.75)	2020 (Bias Adjustment Factor = 0.76)	2021 (Bias Adjustment Factor = 0.77)	2022 (Bias Adjustment Factor = 0.76)
87312	2 Mountain View Drive	Y	18	16.9	13	14	15
84649	59 Sandy Street	Y	39	36.1	32	31	34
87314	Abbey Way	Y	23	21.6	17	16	17
82651	Water Street	Y	49	45.3	38	38	40
87085	Market Office	Y	18	17.7	14	16	14
85064	33 Kilmorey Street	Y	49	43.1	38	42	41
87088	71 Kilmorey Street	Y	54	54.2	45	42	45
87089	4 Bridge Street	Y	31	29.6	24	27	28
87315	Loretto Park	Y	14	13.5	11	10	13
85070	Basin View Terrace	Y	34	29.3	25	28	27
85077	Dominic Street	Y	32	32.8	24	28	28
87369	11 Armagh Road	Y	39	34.7	28	30	30
87370	21 Merchant Quay	Y	29	29.3	25	26	25

Site ID	Site Type	Within AQMA?	Annual Mean Concentration ($\mu\text{g}/\text{m}^3$) - Adjusted for Bias ^a				
			2018 (Bias Adjustment Factor = 0.77)	2019 (Bias Adjustment Factor = 0.75)	2020 (Bias Adjustment Factor = 0.76)	2021 (Bias Adjustment Factor = 0.77)	2022 (Bias Adjustment Factor = 0.76)
87371	31 Dublin Road	Y	35	34.4	29	27	32
87397	30 Irish Street	N	28	26.8	26	25	26
87398	10 English Street	N	21	21.0	16	15	16.23 (a) see previous calculation
87399	6 Church Street	N	42	39.2	34	36	38
87400	13 Church Street	N	32	25.2	23	25	27
87401	19 Market Street	N	32	32.3	28	27	31
87402	40 Market Street	N	28	27.6	22	23	24
87403	58 Irish Street	N	23	21.1	17	17	17

In bold, exceedance of the NO₂ annual mean AQS objective of 40 $\mu\text{g}/\text{m}^3$

Underlined, annual mean > 60 $\mu\text{g}/\text{m}^3$, indicating a potential exceedance of the NO₂ hourly mean AQS objective

^a Means should be “annualised” as in Boxes 7.9 and 7.10 of LAQM.TG22, if full calendar year data capture is less than 75%

Trend. The NO₂ results only show exceedances at Canal Street and Kilmorey Street over the last 5 years.

2.2.2 Particulate Matter (PM₁₀)

During 2020-2022 the Council monitored PM₁₀ at Canal Street, Newry using a BAM PM₁₀ analyser. A detailed assessment for PM₁₀ at Canal Street was produced in February 2023 (appendix C).

Table 2.9 – Results of Automatic Monitoring for PM₁₀: Comparison with Annual Mean Objective

Site ID	Site Type	Within AQMA?	Valid Data Capture for Monitoring Period % ^a	Valid Data Capture 2022 % ^b	Confirm Gravimetric Equivalent (Y or N/A)	Annual Mean Concentration (µg/m ³)				
						2018* ^c	2019* ^c	2020* ^c	2021* ^c	2022 ^c
Canal Street	Roadside	Y	92	92	Y	19	18	17	18	18

In bold, exceedance of the PM₁₀ annual mean AQS objective of 40µg/m³

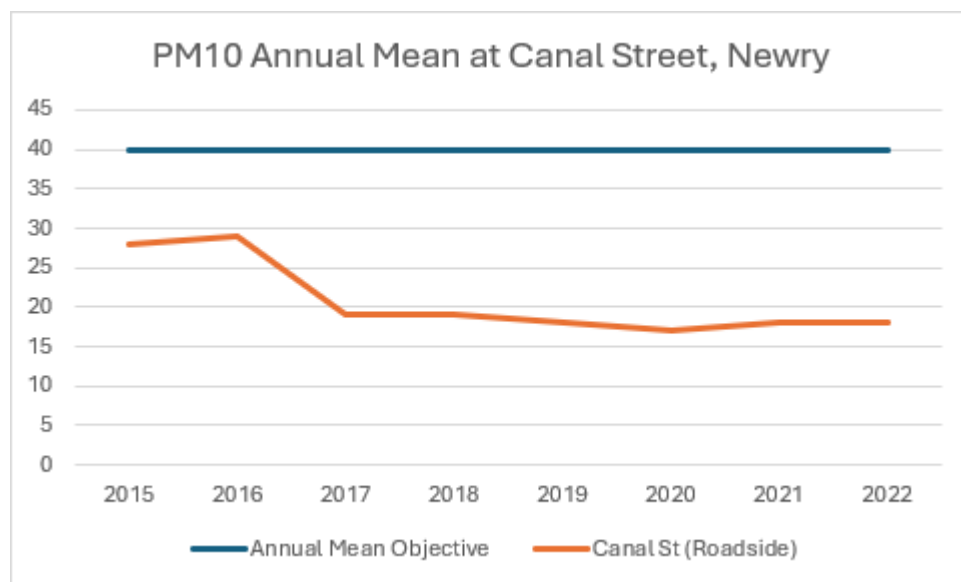
^a i.e. data capture for the monitoring period, in cases where monitoring was only carried out for part of the year

^b i.e. data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

^c Means should be “annualised” as in Boxes 7.9 and 7.10 of LAQM.TG22, if valid data capture is less than 75%

* Annual mean concentrations for previous years are optional

Figure 2.5 – Trends in Annual Mean PM₁₀ Concentrations



This figure along with the attached Detailed Assessment demonstrates the downward trend in PM₁₀ concentrations in Canal Street AQMA. Since designation, the measured PM₁₀ concentrations within the AQMA have continually fallen and levels have now been consistently below the national objective for eight years. National, regional and local policies have influenced this reduction in emissions and concentrations, and it is reasonable to expect that further reductions will be achieved through the increasing use of ultra-low and low emission vehicles and the shift to less polluting fuels for domestic burners. Having considered the historical monitoring data associated with the Canal Street AQMA, future national trends in emissions and any likely local impacts on the air quality levels within the AQMA will monitor during 2023 and if levels are consistent the Council will move to revoke the AQMA.

Table 2.9b – Results of Automatic Monitoring for PM₁₀: Comparison with 24-hour Mean Objective

Site ID	Site Type	Within AQMA?	Valid Data Capture for Monitoring Period % ^a	Valid Data Capture 2022 % ^b	Confirm Gravimetric Equivalent (Y or N/A)	Number of Daily Means > 50µg/m ³				
						2018* ^c	2019* ^c	2020* ^c	2021* ^c	2022 ^c
Canal Street	Roadside	Y	96	96	Y	4	3	0	0	0

In bold, exceedance of the PM10 daily mean AQS objective (50µg/m³ – not to be exceeded more than 35 times per year)

^a i.e. data capture for the monitoring period, in cases where monitoring was only carried out for part of the year

^b i.e. data capture for the full calendar year (e.g. if monitoring was carried out for six months the maximum data capture for the full calendar year would be 50%)

^c if data capture for full calendar year is less than 85%, include the 90.4th percentile of 24-hour means in brackets

* Number of exceedances for previous years is optional

2.2.3 Sulphur Dioxide (SO₂)

During 2020-2022 there was no monitoring of sulphur dioxide undertaken within the council area.

2.2.4 Benzene

During 2020- 2022 there was no monitoring of benzene undertaken within the council area.

2.2.5 Other Pollutants Monitored

During 2020-2022 there were no other pollutants monitored within the council area.

2.2.6 Summary of Compliance with AQS Objectives

Newry Mourne and Down District Council has examined the results from monitoring in the district. PM₁₀ concentrations are below the air quality objective and along with a Detailed Assessment, Council can move to revoke the AQMA in Canal Street Newry. However, one additional year of monitoring post Covid will be assessed prior to moving to revoke.

Only 3 diffusion tubes located within Newry City Centre exceeded the annual mean objective for nitrogen dioxide (NO₂) (40µg/m³) during 2022.

3 New Local Developments

Newry Mourne and Down District Council confirms that there are no new or newly identified local developments which may have an impact on air quality within the Local Authority area.

Newry Mourne and Down District Council 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.**

4 Local / Regional Air Quality Strategy

Local authorities in Northern Ireland are responsible for reviewing the state of air quality in their district. To assist them with this process an air quality strategy(AQS) has been devised for the UK. This sets down standards and objectives for the air quality pollutants causing the problems and allows councils to review air quality in their area against these.

5 Planning Applications

Newry, Mourne and Down District Council can confirm that there have been no planning applications approved which it is considered will have a significant detrimental impact on the air quality within the district.

6 Air Quality Planning Policies

Responsibility for Planning lies with the local councils in Northern Ireland. The councils are responsible for:

- Local development planning
- Development Management
- Planning enforcement.

The Department of Infrastructure are responsible for:

- Determination of regionally significant and 'called in' planning applications.
- Regional Development Strategy
- Regional Planning Policy
- Planning Legislation
- Performance management
- Oversight and guidance for councils.

The Strategic Planning Policy Statement for Northern Ireland (SPPS) 'Planning for Sustainable Development' published in September 2015 consolidates the

previous planning policy statements into one document and details strategic subject planning policy for a wide range of planning matters. It also sets out the strategic direction for the new councils to bring forward detailed operational policies within future local development plans. Annex A to SPPS highlights how the planning system can positively contribute to the improvement of air quality and in minimising its harmful impacts on health and wellbeing.

In administering its planning function councils must take account of the Regional Development Strategy 2035 (RDS) (2010), and the Strategic Planning Policy Statement (SPPS) (2015), and any other policies or advice in guidance issued by the Department. The RDS represents the overarching regional planning framework, while the SPPS provides an overarching statement of the general planning principles underlying the planning system. Of particular relevance in the RDS is RG9: Reduce our carbon footprint and facilitate mitigation and adaption to climate change whilst improving air quality.

This guidance includes several mitigation measures in relation to air quality, including:

- Reducing noise and air pollution from transport
- Developing strong linkages between policies for managing air pollution and climate change
- Protecting Air Quality Management Areas

The Council is currently working on a new Area Plan for its district and it is anticipated that this will be completed shortly.

7 Local Transport Plans and Strategies

The Regional Strategic Transport Network (RSTN) Transport Plan prepared by the Department for Regional Development (DRD) (now DfI) covers the complete rail network, 5 Key Transport Corridors (KTCs), 4 Link Corridors, the Belfast Metropolitan Transport Corridors and the remaining trunk network across Northern Ireland. The Plan is based on the guidance set out in the Regional Development Strategy (RDS) and the Regional Transportation Strategy (RTS). The RSTN Transport Plan consists of proposals for transport schemes and measures for the maintenance, management and development of the RSTN until 2015. The RSTN Transport Plan also includes several measures for rail, bus, roads, walking and cycling. In addition, the Sub-Regional Transport Plan 2015 was

prepared by the Department for Regional Development (DRD) and completed in 2007. The SRTP is based upon the guidance provided by the Regional Development Strategy (RDS) and the Regional Transportation Strategy (RTS). It covers the transport needs of Newry Mourne and Down District Council along with other areas with the exception of the Belfast Metropolitan area.

8 Climate Change Strategies

Newry Mourne and Down District Council is in the process of finalising a Sustainability and Climate Change Strategy. It is envisaged that the proposed structure of 3 x Sustainability Officers will be responsible for delivery, implementation, and monitoring of the Sustainable Development Strategy for council focussing on the themes below:

1. Buildings and Energy
2. Transport
3. Carbon Emissions and Climate Change
4. Waste and Recycling
5. Ecology
6. Environmental Impact
7. Sustainable Communities
8. Leadership and Community Engagement

In addition to above, Sustainability and Climate Change is a cross-cutting theme and a key driver for council with the key objective of improving the lives and livelihoods of people who live and work here. The above additional resources within Sustainability will be required to work with key stakeholders to deliver the sustainability objectives of the 4 Council Directorate Business and Service Plans.

9 Implementation of Action Plans

An Action Plan for the Newry (Urban Centre) AQMA was approved in April 2010 (Appendix D). The Action Plan had planned actions which have assisted in reducing the levels of NO₂ levels from traffic and background emissions within the designated AQMA. It is recognised that many of these measures contributed towards the wider strategic objectives of sustainable development and tackling climate change. It is recognised that many of the actions have now been completed and are dated. Newry Mourne and Down District Council produced an Active Travel Masterplan in 2021 which considered air quality issues. This document provides guidance on the development of cycling and walking infrastructure and complimentary measures over the next 10 years. It sets out a suite of recommendations that will drastically and radically improve conditions not only for people choosing to cycle and walk in the district, but also all residents who suffer from the negative effects of too much motor vehicle traffic.

www.newrymournedown.org/media/uploads/nmd_active_travel_masterplan.pdf

Newry, Mourne and Down District Council and other stakeholders continue to make the case for the Newry Southern Relief Road, which when implemented, has the potential to provide traffic relief to Newry City centre with the consequent improvements in local air quality.

10 Conclusions and Proposed Actions

10.1 Conclusions from New Monitoring Data

Newry, Mourne and Down District Council has measured concentrations of PM₁₀ below the annual mean objective at Canal Street Newry and after additional confirmatory monitoring will move to revoke this AQMA.

2020-2022 monitoring data identified the following:

- No exceedance of annual mean objective for PM₁₀.
- No exceedance of daily mean objective for PM₁₀.
- 2022- three of the 27 diffusion tubes located within Newry City Centre exceeded the annual mean objective for nitrogen dioxide (NO₂) (40µg/m³).

Conclusions relating to New Local Developments

There have been no new industrial installations or new commercial or fugitive source emissions within the Newry, Mourne and Down District Council area in the period 2020-2022.

Newry City and Downpatrick have smoke control areas. All new developments within these areas are required to comply with the restrictions within the smoke control areas in relation to the use of authorised fuels.

10.2 Other Conclusions

The Council's Active Travel Masterplan will assist in improvements in air quality within the district.

10.3 Proposed Actions

Newry Mourne and Down District Council will be reviewing PM₁₀ data for 2023 and if levels are still below the air quality objective move to revoke the AQMA in Canal Street Newry.

11 References

Local Air Quality Management Technical Guidance – LAQM.TG(09)

Local Authority Air Quality Support website <http://laqm.defra.gov.uk/>

Local Air Quality Management Technical Guidance (TG16)

11 Appendices

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

Appendix B - Monthly diffusion tube results 2020-2022

Appendix C- Detailed Assessment AQMA Canal Street

Appendix D- Air Quality Action Plan

Appendix A: QA/QC Data

QA/QC Diffusion Tube Monitoring

Diffusion Tube Bias Adjustment Factors

The diffusion samples were analysed in accordance with SOCOTEC's standard operating procedure ANU/SOP/1015. This method meets the guidelines set out in DEFRA's 'Diffusion Tubes for Ambient NO₂ Monitoring: Practical Guidance.'

The tubes were prepared by spiking acetone:triethanolamine (50:50) onto grids prior to the tubes being assembled. The tubes are desorbed with distilled water and the extract analysed using a segmented flow autoanalyzer with ultraviolet detection. Please note:

- (i) As set out in the practical guidance, the results were initially calculated assuming an ambient temperature of 11°C, the reported values have been adjusted to 20°C to allow for direct comparison with EU limits.
- (ii) The reported results from the laboratory were not bias adjusted.

The National Bias Adjustment Factor for Socotec in 2020 was found to be 0.76 Cm/Dm. (see screenshot).

National Diffusion Tube Bias Adjustment Factor Spreadsheet Spreadsheet Version Number: 09/24

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. [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 factor 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 footnote ⁴. If uncertain what to do then contact the Local Air Quality Management Helpdesk at LAQMHelpdesk@bureauveritas.com or 0800 0327953

Analysed By ¹	Method ²	Year ³	Site Type	Local Authority	Length of Study (months)	Diffusion Tube Mean Conc. (Dm) ($\mu\text{g}/\text{m}^3$)	Automatic Monitor Mean Conc. (Cm) ($\mu\text{g}/\text{m}^3$)	Bias (B)	Tube Precision ⁵	Bias Adjustment Factor (A) (Cm/Dm)
3668	20% TEA in water	2020						Use		0.74
3666	50% TEA in acetone	2020						Use		0.76
				Overall Factor ⁶ (6 studies)						
				Overall Factor ⁶ (24 studies)						

Collocation Data | Revisions

Ready 32 of 3704 records found Accessibility: Investigate

13°C Cloudy 12:48 14/11/2024

The National Bias Adjustment Factor for Socotec in 2021 was found to be 0.77 Cm/Dm. (see screenshot).

The screenshot shows an Excel spreadsheet with the following content:

Spreadsheet Version Number: 09/24

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. [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 factor 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 footnote 1. If uncertain what to do then contact the Local Air Quality Management Helpdesk at LAQMhelpdesk@bureauveritas.com or 0800 0327953

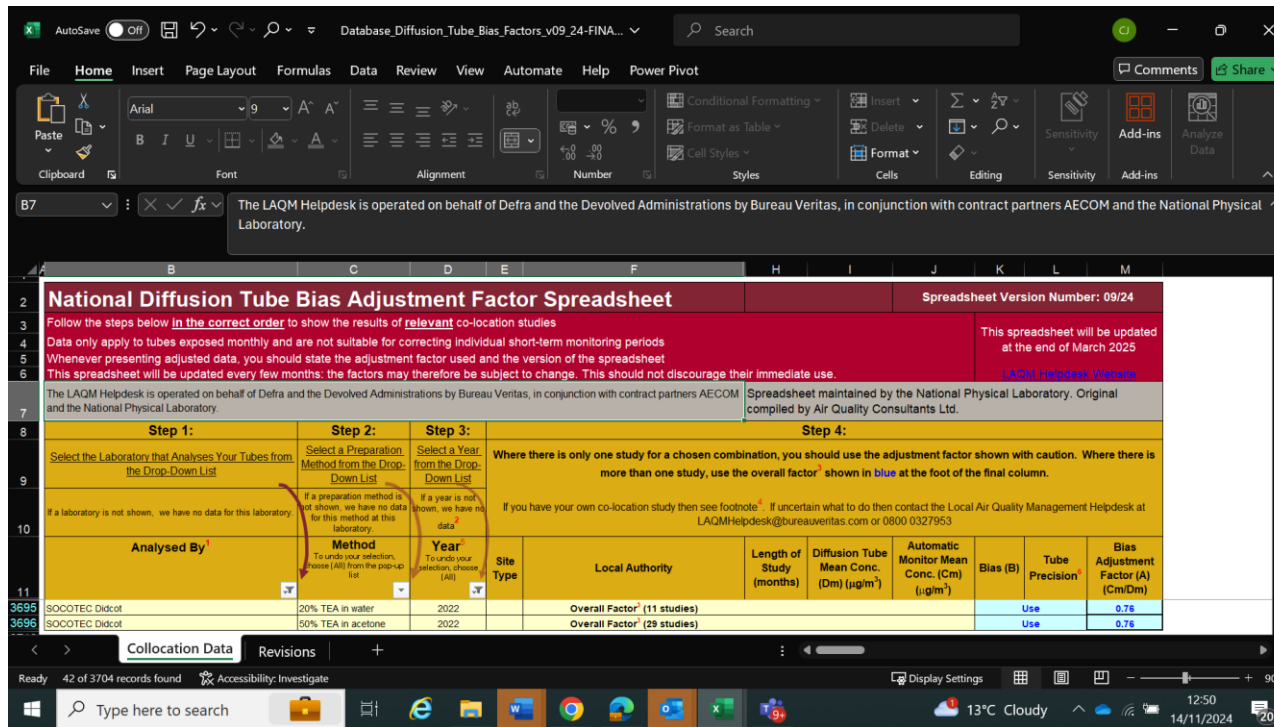
Analysed By	Method	Year	Site Type	Local Authority	Length of Study (months)	Diffusion Tube Mean Conc. (Dm) ($\mu\text{g}/\text{m}^3$)	Automatic Monitor Mean Conc. (Cm) ($\mu\text{g}/\text{m}^3$)	Bias (B)	Tube Precision	Bias Adjustment Factor (A) (Cm/Dm)
SOCOTEC Didcot	20% TEA in water	2021		Overall Factor* (15 studies)				Use		0.77
SOCOTEC Didcot	50% TEA in acetone	2021		Overall Factor* (28 studies)				Use		0.77

Collocation Data | Revisions

Ready 45 of 3704 records found Accessibility: Investigate

Display Settings | 13°C Cloudy | 12:49 | 14/11/2024

The National Bias Adjustment Factor for Socotec in 2022 was found to be 0.76 Cm/Dm. (see screenshot).



PM Monitoring Adjustment

The data from the PM₁₀ monitor was subject to QA/QC inspection by Ricardo AEA during the 2020-2022 monitoring period.

Short-term to Long-term Data adjustment

No short-term to long term data adjustments were required.

QA/QC of automatic monitoring

Newry Mourne and Down District Council commissioned AQDM Technology to provide the QA/QC of the automatic measurements of NO₂, PM₁₀ for the Council sites(see links of annual reports for 2022). Local authority staff act as the local site operator and visit the sites carrying out any manual calibration or filter changes required. During 2020-2022 Newry, Mourne and Down District Council had a QA/QC contract with Ricardo AEA. QA/QC audits have been completed on the automatic monitoring equipment currently located within the Council area. The results of the audits are recorded on a purpose designed electronic spreadsheet that provides analysis of results in real time to aid the site auditor with interpretation of test results. Ricardo's QC audits are accredited by UKAS as an extension to their accreditation as Calibration Laboratory 0401. Service and maintenance was carried out by Enviro-Technology.

Quality control audits provide an essential input to the station data management process, helping to assess whether the datasets are of a suitably high quality and representative of the ambient concentrations. The audit results provide valuable input to the data management process, by providing:

- Independent confirmation of appropriate data scaling
- Independent assessment of analyser performance
- An assessment of calibration cylinder concentrations, critical for accurate data scaling

As part of the audit process, instrument performance and parameters examined and tested include:

- Check and cross reference site gas concentrations to UKAS referenced standard
- Linearity tests to make sure the analyser responses are accurate across the working range
- Cross reference analyser data output with logging systems
- Leak check on analysers and sampler systems
- Audit calibration for analysers and provision of UKAS calibration certificates
- Assessments of instrument noise at zero and span
- Leak and flow checks, to ensure that ambient air reaches the analysers, without being compromised in any way and are operating within the manufacturers pre-defined limits
- Particulate analyser flow rates are measured and checked; Ricardo Energy & Environments flow measurements are UKAS accredited. Any error in the flow through particulate analysers, such as the BAM analyser, is directly reflected in an error in the final measure of particulate concentration.

The results from each audit is provided in the form of a UKAS Certificate of Calibration. The quality control audits, in conjunction with a robust data management process, make sure that the ambient measurements are reliable, representative, and traceable to national

metrology standards. A UKAS audit certificate, detailing the results, is provided to the Council. A short audit report via email is received setting out actions and recommendations to be taken based on the audit findings.



Newry Canal Street
2022.pdf



Downpatrick
Roadside 2022.pdf

QA/QC of diffusion tube monitoring

SOCOTEC is assessed annually by UKAS to establish conformance of the Laboratory Quality Procedures.

Newry, Mourne and Down District Council QA/QC procedure ensures that the diffusion tubes are handled and stored in accordance with SOCOTEC Diffusion Tube Instruction Manual for exposure and location.

Diffusion Tube Annualisation

All diffusion tube monitoring locations within Newry Mourne and Down District Council recorded data capture of 75% therefore it was not required to annualise any monitoring data.

Diffusion tube distance correction.

No distance correction was required to be applied.

Appendix B - Monthly diffusion tube results 2020-2022

2020

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec		Bias adjustment of 0.76	Bias adjustment round up	No. of tubes collected
83610 Monaghan Row	19.5	10.8	11.9	9		8.2	6.8	9.1	12.3	11.5	14.1	17.1	130.3	9	9	11
84610 Lower Canal Street	39.2	32.6	33	27.1		28.6	25.9	42.7	33.1	34	42.4	46.5	385.1	26.6	27	11
14 Canal Street																
87268	38.1	23.8	28.3	20.2		26.2	21.6	31.9	30.7	29.2	33.7	40.3	324	22.38	22	11
87241 Canal Street Station 1,2,3	44.8	31.3	34.1	30.5		41.3	26.9	47.8	42.9	36	44.2	52.3	432.1	29.85	30	11
87252	39.2	28	36.2	30.1		40.6	27.3	53.9	39.9	36.6	40	45.8	417.6	28.85	29	11
87253	49.2	28.3	42.6	30.7		42.8	34.6	49.8	40.3	40.3	45.4	47.2	451.2	31.18	31	11
63 Canal Street																
87242	43.8	26	33	29.1		39.6	28.7	49	38.4	38.6	43.2	53.9	423.3	29.25	29	11
84609 Canal Street	67.4	48.8	42.6	34.2		57.8	50	49.8	56.9	50	51.2	65.9	574.6	39.7	40	11
Catherine Street																
84611	48.7	42.4	37.5	26.5		27.3	28.6	36	37.4	37.5	45.5	39.8	407.2	28.14	28	11
87313 Southern ITEC	29.5	23.6	19.4	14.7		16.5	17.2	22.2	20.9	23.4	30.8	29.7	247.9	17.13	17	11
2 Mountain View Drive																
87312	25.6	18.6	16.2	11.4		10.6	9.8	16.2	17	17.6	21.9	29.2	194.1	13.4	13	11
84649 59 sandys street	62.6	54.3	38.7	28.4		31.7	26.5	35.8	40.5	40.3	54.1	46.8	459.7	31.76	32	11
87314 Abbey Way	32	18.2	17.6	15.7		17.7	12.9	22.3	22.7	21.7	29.7	34.9	245.4	16.96	17	11
82651 Water Street	65.5	52.5	43.6	29.1		44.3	45.4	48	50.1	53.7	55.9	55.6	543.7	37.57	38	11
87085 Market Office	28	18.1	15.9	11.7		12.4	11.2	18.1	17	17.2	21.5	25.8	196.9	13.6	14	11
85064 33 Kilmorey Street	69.1	52.8	46.2	29.1		41.2	46.4	47.9	54.8	46.9	58.7	56.9	550	38	38	11
71 Kilmorey Street																
87088	67.7	41.6	51.8	42.6		60.6	50.7	66.9	64.6	61.1	65.3	73.8	646.7	44.68	45	11
87089 4 Bridge Street	45.5	31.2	27.1	20.4		23.8	22	32.2	30.7	30.1	41.2	39.3	343.5	23.73	24	11
87315 Loretto Park	20.2	13.6	14.2	8.7		9.8	8.2		14.4	12.6	18.1	20.7	140.5	10.68	11	10
85070 Basin View Terrace	50.5	27.9	28.3	21.4		28.3	27.6	33.9	34.4	32.7	35.5	42.1	362.6	25.05	25	11
85077 Dominic Street	49.3	34.5	32.4	19.7		21.9	24	23.8	30.1	33.2	32.2	44.6	345.7	23.89	24	11
87369 11 Armagh Road	58.5	42.2	34.4	22		29.3	27.2	32.2	34.1	33.3	46.7	43.2	403.1	27.85	28	11
87370 21 Merchant Quay	44.6	31.8	29	22.2		28.2		32	30.5	30.7	38.9	37.7	325.6	24.75	25	10
87371 31 Dublin Road	52.8	39.4	34.5	20.8		34.1	37.5	39.7	39.4	41.2	35.9	38.6	413.9	28.6	29	11
87397 30 Irish Street	40.6	31.3	33.6	23.6		36.2	25.9	37.2	35.5	38	27.6	46	375.5	25.95	26	11
87398 10 English Street	39.5	26.6	18.3	11		13.2	14.4	17	20.1	20.7	26	26.8	233.6	16.14	16	11
87399 6 Church Street	67	44.9	40.3	23.2		30.8	40.4	39.1	53.8	45.4	45.2	55.4	485.5	33.55	34	11
87400 13 Church Street	40.2	25.1	27.8			28.1	22.5	29.4	34.6	30.2	33.4		271.3	22.91	23	9
87401 19 Market Street	57	42.6	24.5	21.5		26.9	32.2	32.1	45	40.2	36.5	43.7	402.2	27.79	28	11
87402 40 Market Street	44.3	30.2	27.4	19.8		21.3	21.8	26.6	32.1	25.4	32.4	35	316.3	21.85	22	11
87403 58 Irish Street	29.2	19.9	20.6	14.9		18.8	16.2	20.9	24.3	22.1	24.1	33.4	244.4	16.89	17	11

2021 NO2 DIFFUSION DATA		Uncorr mgm3												Average of the street		Average round up		Bias adjustment		No. of tubes collected
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec							
83610	Monaghan Row	16.7	11.2	14.2	13.6	11.4	8.7	9.8	9.8	12.1	12.6			13.6	133.7	12.15	12	9.36	9	11
84610	Lower Canal Street	46.3	31	42.5	39.8	43.8	36.6	40.3	40.3	40.2	39.6			44	444.4	40.4	40	31.11	31	11
87268	14 Canal Street	36	31.8	33	31	32.1	26.3	28.1	28.3	31.9	32.6			33.3	344.4	31.31	31	24.11	24	11
87241	Canal Street Station1,2,3	44.9	37.6	44.5	49.5	49.8	43.2	39.8	39.8	45.1	44.6			48.7	487.5	44.32	44	34.13	34	11
87252		49	35	42.9	47	54.2	49.3	46.7	46.7	40.7	40			49.1	500.6	45.51	46	35.04	35	11
87253		47.5	40.9	47.9	47.7	32.4	39.2	43.4	43.4	36.7	45.6			47.9	472.6	42.96	43	33.08	33	11
87242	63 Canal Street	52.1	34.9	46.5	47.3	49.3	33.8	44.5	44.5	39.1	41.9			43.7	477.6	43.42	43	33.43	33	11
84609	Canal Street	58.1	38.2	56.7	59.5	58.6	44.3	54	54	62.6	64.1			53.6	603.7	54.88	55	42.26	42	11
84611	Catherine Street	43.7	39.2	40.6	42.3	45.8	45.1	37.3	37.3	43.8	43.6			46.9	465.6	42.33	42	32.17	32	11
87313	Southern ITEC	1	24.1	26.4	21.4	26.5	20.1	24.4	24.4	29.1	32.4			30.2	260	23.64	24	18.2	18	11
87312	2 Mountain View Drive	22.2	13.5	16.6	17.6	16.8	14.4	16.4	16.4	17.4	18.9			22.2	192.4	17.49	18	13.47	14	11
84649	59 Sandy Street	2.54	49.1	49	34.4	43.9	35.2	36.5	36.5	49.7	52.9			50.2	439.94	39.99	40	30.8	31	11
87314	Abbey Way	29.3	11.2	20.9	23	22.2	17.6	19.4	19.4	21.4	23.4			24.2	232	21.09	21	16.24	16	11
82651	Water Street	57	34.9	49.9	45	47.8	46	47.8	47.8	54.7	61			48.3	540.2	49.11	49	37.81	38	11
87085	Market Office	26.7	33	19.6	16.1	18.4	13.6	16.4	16.4	19.4	21.5			24.2	225.3	20.48	20	15.77	16	11
85064	33 Kilmorey Street	64.6	50.7	53	52.1	61.6	51.8	47.9	47.9	63	55.9			52.7	601.2	54.65	55	42.08	42	11
87088	71 Kilmorey Street	3.2	58.4	61.8	58.8	62	58.7	60	60	63.9	59.4			51.8	598	54.36	54	41.86	42	11
87089	4 Bridge Street	35.7	32.5	36.4	36.5	43.1	31	30.4	30.4	38.7	37.3			35.7	387.7	35.25	35	27.14	27	11
87315	Loretto Park	19.8	13.5	15.3	13.1	9.9	10.4	9.7	9.7	11.6	11.9			16.4	141.3	12.85	13	9.89	10	11
85070	Basin View Terrace	40.2	29.1	38.5	35.1	37.4	40.6	34	34	35.8	33.9			36.5	395.1	35.92	36	27.66	28	11
85077	Dominic Street	32.5		39.3	32.1	43.5	31.6	31.3	31.3	40.6	41			37.6	360.8	36.08	36	27.78	28	10
87369	11 Armagh Road	44.7	37	39.7	30.3	41.6	34.2	34.8	34.8	43.6	41.7			43.7	426.1	38.74	39	29.83	30	11
87370	21 Merchant Quay	36.4	26.7	32.1	31.6	31.9	28.8	33.1	33.1	36.2	39.2			36.3	365.4	33.22	33	25.58	26	11
87371	31 Dublin Road	1.91	29.6	37.9	35.8	39.8	41.2	35.1	35.1	42.6	43.7			36.3	379.01	34.46	34	26.53	27	11
87397	30 Irish Street	43.2	23.3	37.9	26.7	35	30.8	34.5	34.5	31.8	29.8			31.9	359.4	32.67	33	25.16	25	11
87398	10 English Street		19.3	21	16.2	19.5	8.3	18.2	18.2	25	25.3			25.2	196.2	19.62	20	15.11	15	10
87399	6 Church Street	62.7	17.4	52.1	41.1	46.6	38.3	46.1	46.1	54.9	62.2			43.4	510.9	46.45	47	35.77	36	11
87400	13 Church Street	38.1	28.9	31.2	32.7	36.5	27.1	33.9	33.9	30.8	29.4			33.1	355.6	32.33	32	24.89	25	11
87401	19 Market Street	43.4	13.8	38	32.4	33.2	28.4	37.2	37.2	39.7	45.4			34.9	383.6	34.87	35	26.85	27	11
87402	40 Market Street	30.2	24.7	31.7	27.6	33.6	22.7	30.3	30.3	33.8	34.8			33	332.7	30.25	30	23.29	23	11
87403	58 Irish Street	32.2		27.1	21.7	22.7	18.1	19	19	21.2	23.5			21.6	226.1	22.61	23	17.41	17	10

2022 NO2 DIFFUSION DATA														Average of the street	Average round up	Bias adjustment of 0.76	Bias adjustment round up	No. of tubes collected
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec						
83610 Monaghan Row	13.6	15.7	16.4	13.4	7	7	7.8	11.3	11.4	12.1	15	19.8	150.5	12.54	13	9.53	10	12
84610 Lower Canal Street	35.6	42.4	48.5	44.6	31.7	25.2	28.6	41	39.5	39	42.1	48.5	466.7	38.89	39	29.56	30	12
87268 14 Canal Street	31.7	34.9	34	32.3	21.4	20.6	22.4	27	28.9	29.7	30.3	28.1	341.3	28.44	28	21.61	22	12
87241 Canal Street Station1,2,3	38.7	42.9	50.8	50.8	36.2	29.2	34.6	43.3	46.7	40.6	47.7	46	507.5	42.29	42	32.14	32	12
87252	37	49.9	50.6	49.9	35.3	30	39.5	46.9	49.1	35.9	46.2	44.3	514.6	42.88	43	32.59	33	12
87253	45.2	50.7	55.9	50.4	48.6	26.5	39.5	48.7	46.2	40.2	45.8	58.7	556.4	46.37	46	35.24	35	12
87242 63 Canal Street	37.6	44.1	47.3	49.4	32.5	26.2	34.2	46.3	47	38.5	49.4	48.3	500.8	41.73	42	31.71	32	12
84609 Canal Street	60.3	60.7	59.4	61.5	49.6	29.1	47.8	53.8	60.1	52.8	59	58.8	652.9	54.41	54	41.35	41	12
84611 Catherine Street	34.3	47.3	44.5	44.5	26.4	29.3	32.6	39.4	35.8	41.5	47.5	44	467.1	38.93	39	29.59	30	12
87313 Southern ITEC	30.7	32.9	30.9	30.9	21.2	17.7	20.7	25	23.8	29.3	36.8	32.9	332.8	27.73	28	21.07	21	12
87312 2 Mountain View Drive	20.6	24.1	23.9	18.7	11	23.3	11.8	17.5	16.8	17.1	25.1	26.8	236.7	19.73	20	14.99	15	12
84649 59 Sandy Street	51.9	53.9	52.7	49.1	36.6	34.3	32.1	43.2	38.2	44.3	40.7	51.6	528.6	44.05	44	33.48	34	12
87314 Abbey Way	23.6	24.6	27.9	22	13.5	12.6	14.2	19.9	20.8	22	30.4	28.6	260.1	21.68	22	16.48	17	12
82651 Water Street	62.1	59.2	58.8	52.6	45.2	43.6	45.7		57.7	46.1	54.3	55.5	580.8	52.8	53	40.13	40	11
87085 Market Office	14.8	23.7	23.6	20.6	12	11.5	12.7	16	17.6	21.1	26.6		200.2	18.2	18	13.83	14	11
85064 33 Kilmorey Street	58.4	58.6	57.7	54.2		52.6	50.4	58.1	55.4	49.1	61.8	41.5	597.8	54.35	54	41.31	41	11
87088 71 Kilmorey Street	53.4	58.2	66.9	70.5	51.5	43.7	53	60.3	67.3	55.6	65.4	56.7	702.5	58.54	59	44.49	45	12
87089 4 Bridge Street	34.3	39.7	44.5	43.7	31	27.7	27	39.1	32.4	41.7	41.5	45.4	448	37.33	37	28.37	28	12
87315 Loretto Park	16.5	16.5	19.5	12.7	7.5	7.4	9.2	10.2	14	43.8	21.2	23.3	201.8	16.82	17	12.79	13	12
85070 Basin View Terrace	34.4	39.9	42.2	39.8	32.9	27.7	30.8	33.2	36.9	36.4	41.5	32.8	428.5	35.71	36	27.14	27	12
85077 Dominic Street	40.9	43	39.9	40.6	28.7	24.5	30.7	32.6	39.9	39.7	35.9	44.6	441	36.75	37	27.93	28	12
87369 11 Armagh Road	35.1	45.5	46.3	39.3	28.7	27.8	28.1	39.8	35.5	43.4	47.1	49.6	466.2	38.85	39	29.53	30	12
87370 21 Merchant Quay	38.3	38.6	28.4	33.4	26.3	23.5	26.4	23.1	35.1	32.7	44.1	43	392.9	32.74	33	24.88	25	12
87371 31 Dublin Road	40	39.7		41.7	42.4	37.8	40.2	40.8	49.1	45.2	35.2	46.3	458.4	41.68	42	31.68	32	11
87397 30 Irish Street	46.4	37.7	32.7	23.7	27.4	21.9	19.8	38.3	44.3	28.1	46.9	40.2	407.4	33.95	34	25.8	26	12
87398 10 English Street	33.4			21.5	18.2	17	16.3	20.7		27.2	32.8		187.1	23.39	24	17.78	18	8
87399 6 Church Street	74	57	54.1	44.9	45.9	40.7	42.4	42.8	53.5	43.8	31.6	62.4	593.1	49.43	49	37.57	38	12
87400 13 Church Street	41.1	38.4	41.9	39	30.1	23.3	26.1	39.4		30.4	38.1	38.3	386.1	35.1	35	26.68	27	11
87401 19 Market Street	55.8	42.7	43.2	36.6	34	28	32.1	35.7	39.5	34.3	39.1	47.6	468.6	40.55	41	30.82	31	12
87402 40 Market Street	38.8	32.6	33.6	39.3	34.9	23.9	23.1	33.1	23.7	30.6	34.8	36.8	385.2	32.1	32	24.4	24	12
87403 58 Irish Street	24.9	26.8	28.6	22.8	18.5	14.2	17.7	22.7	24	22.3	25.3		247.8	22.53	23	17.12	17	11

Annualization calculation has been carried out on 87398 with a revised result prior to bias correction of 24 µg/m3.

Appendix C- Detailed Assessment AQMA Canal Street

Executive Summary

This detailed assessment sets out the evidence provided by Newry, Mourne and Down

District Council (“the Council”) to revoke the Canal Street Air Quality Management Area (AQMA), which was declared due to exceedances of the 24-hour mean particulate matter (PM₁₀) objective.

Under the Environment (Northern Ireland) Order 2002, local authorities in Northern Ireland are required to undertake an air quality assessment within their area and determine whether they are likely to achieve the national air quality objectives. Where it has been shown that the objectives will not be achieved, local authorities must declare an AQMA and develop an Air Quality Action Plan (AQAP) to bring air quality within acceptable levels.

Where it can be subsequently demonstrated that air quality objectives are being and will continue to be met over a number of years, then a local authority can revoke an AQMA set out under article 12(4) of the Order.

The Canal Street AQMA was designated in 2013 for exceedances of the PM₁₀ 24-hour air quality objective linked to emissions from solid fuel burning and road traffic. The AQMA encompasses part of Canal Street between its junction with Chequer Hill and Barrack Street to the North and the junction with New Street to the South and land adjacent thereto.

Since designation, the measured PM₁₀ concentrations within the AQMA have continually fallen and levels have now been consistently below the national objective for eight years.

National, regional and local policies have influenced this reduction in emissions and concentrations, and it is reasonable to expect that further reductions will be achieved through the increasing use of ultra-low and low emission vehicles and the shift to less polluting fuels for domestic burners.

Having considered the historical monitoring data associated with the Canal Street AQMA, future national trends in emissions and any likely local impacts on the air quality levels within the AQMA, the Council is satisfied that the AQMA can be revoked.



Newry Detailed
Assessment_v1.0.pdf

Appendix D- Air Quality Action Plan

No.	Measure	Focus	Lead Authority	Planning Phase	Implementation Phase	Indicator	Target Annual Emission Reduction in the AQMA	Progress to Date	Progress in Last 12 Months	Estimated Completion Date
1	DBFO 2 - A1 Beech Hill – Cloghogue. Project	Reduce traffic entering city centre thereby reducing emissions	Road Service	2007 - 2010	2008 - 2010	Completion of road	Not known	New road open to traffic July 2010	Complete	Complete
2	Expanded Strategic Road Improvement Programme 2015 – Southern Relief Road	Reduce traffic entering city centre thereby reducing emissions	Road Service	2011 onwards	Not determined	DRD Road Service to identify preferred route for the Southern Relief Road by 2011. Estimated Cost of scheme £100 - 210 million (depending on preferred route - Newry Southern Relief Road Feasibility Study Report August 2009)	Not known	The Department announced the Preferred Route in October 2018. Subsequent will help finalise the design used for the technical Scheme Assessment Reports, the Environmental Impact Assessment (EIA) and the draft Statutory Orders.	Ongoing	Not known
3	Review signage displayed under Traffic Weight Restriction (Newry) Order (NI) 1992 and to raise awareness of TRO among motorists	Enforce provisions of TRO in Canal Street thereby reducing emissions from HGV's using this street	PSNI	Ongoing	Ongoing	Compliance with TRO	Not known	Ongoing	Ongoing	Ongoing

No.	Measure	Focus	Lead Authority	Planning Phase	Implementation Phase	Indicator	Target Annual Emission Reduction in the AQMA	Progress to Date	Progress in Last 12 Months	Estimated Completion Date
4	Proposed improvements to walking facilities in Newry City, as detailed in the SRTP Technical Supplement for Newry, by 2015.	Improve walking facilities thereby encourage walking as an alternative mode of transport to private car	Road Service	2002 - 2015	2007 - 2015	Improved walking facilities	Not known	Provision of new footpaths in Newry City Centre (Hill St, Monaghan St, Merchant Quay) as part of ongoing Public Realm Schemes.	Complete	Complete
5	Proposed improvements to cycling facilities in Newry City, as detailed in the SRTP Technical Supplement for Newry, by 2015.	Improve cycling facilities thereby encourage cycling as an alternative mode of transport to private car	Road Service	2002 - 2015	2007 - 2015	Improved cycling facilities	Not known	Provision of cycle paths and cycle stands along Merchants Quay. Introduction of approximately 15 new cycle stands across Newry city centre.	Not known	Ongoing
6	Park and Share Facilities to be provided at Beech Hill and Cloghogue of A1	Encourage car sharing thereby reducing number of single occupancy vehicles using city	Road Service	2002 - 2015	2007 - 2015	Establishing park and share facilities	Not known	As part of DBFO 2 - A1 Beech Hill – Cloghogue. Project Park and Share facilities established at Sheepbridge and Cloghogue (25 spaces each)	Complete	Complete
7	Replace Ulsterbus Newry Fleet with new less polluting vehicles in accordance with Translink Environmental Statement	Reduce emissions from public transport in the AQMA	Translink	2007 - 2013	2007 - 2013	To achieve an average road fleet age of 8 years and a retirement age of 12 years for coaches and 18 years for buses by 2013.	Not known	As of Feb 2014, average road fleet age of 5.87 years and oldest vehicle in use is 12.74 years.	Ongoing	Ongoing

No.	Measure	Focus	Lead Authority	Planning Phase	Implementation Phase	Indicator	Target Annual Emission Reduction in the AQMA	Progress to Date	Progress in Last 12 Months	Estimated Completion Date
8	Improved bus stops and customer information	Encourage greater use of public transport against use of private vehicles thereby reducing emissions from private vehicles	Translink	2002 - 2015	2007 - 2015	Improvement to existing bus stops and increase to number of bus stops	Not known	From 07/08 to 08/09 there was a 10% increase in passenger numbers using Ulster bus, 08/09 to 09/10 saw a further 7% increase however, from 09/10 to 10/11 there has been an 8% reduction in passenger numbers.	Ongoing	Ongoing
9	Provision of network of natural gas in Newry City	Providing natural gas as an alternative fuel over other fuels such as oil and coal which have higher emission rates of NO2	Firmus	Ongoing	Ongoing	Increased uptake of natural gas customers in Newry City	Not known	There are 2837 domestic properties converted to Firmus Energy Gas Network across the Newry area.	Ongoing	Ongoing
10	NIHE Energy Efficiency Improvement Programme	Improve energy efficiency of NIHE homes in AQMA thereby reducing energy consumption & emissions	NIHE	2018- 2021	NIHE's 2018/21 Energy Efficiency Programme includes 16 schemes at a cost of £8.9m.	Increased number of housing stock with improved energy efficiency and cleaner heating systems	Not known	Of the NIHE properties within Newry City 265 properties have gas-heating system and 737 have oil-heating system.	Ongoing	Ongoing
11	Extension of Council ISO 14001 management system	Reduce the impact of Council services on the environment, including air quality. The Council, by leading by example, will encourage other businesses within the Council area to implement their own environmental management system	Council	2004 - 2011	2004 - 2011	Maintenance of ISO 14001 accreditation.	Not known	The council has not maintained the accreditation	No progress in the last 12 months.	No progress in the last 12 months.

No.	Measure	Focus	Lead Authority	Planning Phase	Implementation Phase	Indicator	Target Annual Emission Reduction in the AQMA	Progress to Date	Progress in Last 12 Months	Estimated Completion Date
12	Establish a Workplace Travel Plan for NMDC	Reduce emissions from Council travel	Council	2009 - 2010	2010 - 2015	Achievement of targets set within Council Travel plan	Not known	Council purchased its first electric vehicle for use by an Enforcement Officer and installed an electric charging point at the Monaghan Row site. Further replacement of council fleet with less polluting vehicles, increased number of employees part of Cycle scheme	Active Travel Plan nearing completion	The council continue to use an electric vehicle for enforcement officer. The council have launched a new Cycle 2 Work Scheme and are encouraging employees to take part in the scheme. Active Travel plan expected in 2021.