Comhairle Ceantair
Lár Uladh
Mid Ulster
District Council

2021 Updating Screening Assessment for Mid Ulster District Council

In fulfilment of Environment (Northern Ireland) Order 2002

Local Air Quality Management

Date: January 2022

Information	Mid Ulster District Council
Local Authority Officer	Conor Breslin
Department	Public Health and Infrastructure
Address	Council Offices, Burn Road, Cookstown, Co. Tyrone BT80 8DT
Telephone	03000 132 132
E-mail	conor.breslin@midulstercouncil.org
Report Reference Number	AQ/MUDC/2021
Date	January 2022

Executive Summary

Mid Ulster District Council undertakes non-automatic monitoring for NO_2 in a number of towns and villages across the District. These are generally located close to the centres of the towns and villages along the main North to South A29 road transport system. This road runs from the North to the South of Northern Ireland and connects the three main towns in the District of Magherafelt, Cookstown and Dungannon.

There were previously five AQMA's declared for NO_2 in the District, two of which have been revoked due to improvements in the air quality at these locations. Ongoing monitoring has shown continued exceedences of the air quality objective for NO_2 at two of the AQMA's. It was hoped that Mid Ulster would be in a position to revoke the Magherafelt AQMA if the air quality monitoring showed results within air quality objectives for the third consecutive year. While the results continue to show compliance at this location, the impacts of Covid-19 mean that a further years results will need to be considered.

The improvement in the air quality at Magherafelt is most likely linked to the construction of the A31 Magherafelt by-pass. The by-pass consists of a 5.9km single carriageway to the east of Magherafelt town, and now diverts a lot of the through traffic that previously passed through the town centre around the outskirts of the town.

Diffusion Tube monitoring at 8 locations within the AQMA's in Dungannon and Moy has demonstrated that there are 2 sites where NO2 levels continue to exceed the objective limit of 40ug/m3; namely Newell Road, Dungannon and Charlemont Street in Moy.

Diffusion tube monitoring at eight locations in Cookstown and Moneymore did not demonstrate any exceedances of the air quality objective limit. Routine monitoring of these locations will continue to help monitor trends in the air quality at these locations.

Table of Contents

Tables

Figures

1 Introduction

1.1 Description of Local Authority Area

Mid-Ulster District Council was established on 1 April 2015 as a part of Local Government re-organisation in Northern Ireland. It replaced the three former Councils of Cookstown D.C., Dungannon and South Tyrone B.C., and Magherafelt D.C.

Mid Ulster District Council, as the name suggests, is located centrally within the province. It straddles the two counties of Tyrone and Derry/ Londonderry. The District runs from Swatragh in the north to Fivemiletown in the south and from the Sperrin Mountains in the west to the shores of Lough Neagh in the east.

Mid Ulster is the seventh largest of the eleven new council districts. The district covers an area of some 1955 km². Mid Ulster is the sixth most populous District in Northern Ireland with a 2020 population listed as 148,530. The District is mainly rural in nature with 72% of the population living in a rural area as defined by the interdepartmental rural urban definition group. The District is therefore classified as rural apart from Cookstown, Dungannon, Magherafelt and Coalisland.

Additionally, 40% of households are located within the countryside. The District has a high prevalence of manufacturing within 27.5% of all jobs in Mid Ulster being in manufacturing compared with a Northern Ireland average of 11%. The high prevalence of manufacturing is partly linked to a thriving minerals industry in the District, particularly the extraction of sand and gravel. As a spin off to this extraction activity, there is a strong manufacturing sector specialising in crushing and screening equipment.

In terms of infrastructure, the A29 which runs through Northern Ireland from the North to the South is the spine of the District and the main transport corridor. The A29 also connects the three main towns in the District. Dungannon and Cookstown are classified as medium towns by NISRA due to having a population of more than 10,000 while

Magherafelt is classified as a small town. The A4 is an important East-West transport corridor and runs through the Southern part of the District, as does the A5, which is the main link between Dublin / ROI and the Northwest of Northern Ireland. The A6 runs through the Northern portion of the District and is a vital corridor that connects the two main cities in Northern Ireland

1.2 Purpose of Report

This report fulfils the requirements of the Local Air Quality Management 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 the air quality objectives are likely to be achieved. Where exceedances are 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.

The objective of this Updating and Screening Assessment is to identify any matters that have changed which may lead to risk of an air quality objective being exceeded. A checklist approach and screening tools are used to identify significant new sources or changes and whether there is a need for a Detailed Assessment. The USA report should provide an update of any outstanding information requested previously in Review and Assessment reports.

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 micrograms per cubic metre µg/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 Concentration	Air Quality Objective Measured as	Date to be achieved by
Benzene	16.25µg/m^3	Running annual mean	31.12.2003
Benzene	3.25µg/m^3	Running annual mean	31.12.2010
1,3-Butadiene	2.25µg/m^3	Running annual mean	31.12.2003
Carbon monoxide	10.0mg/m^3	Running 8-hour mean	31.12.2003
Lead	0.5µg/m^3	Annual mean	31.12.2004
Lead	0.25µg/m^3	Annual mean	31.12.2008
Nitrogen dioxide	200µg/m^3 not to be exceeded more than 18 times a year	1-hour mean	31.12.2005
Nitrogen dioxide	40µg/m^3	Annual mean	31.12.2005
Particles (PM_{10}) (gravimetric)	50µg/m^3, not to be exceeded more than 35 times a year	24-hour mean	31.12.2004
Particles (PM_{10}) (gravimetric)	40µg/m^3	Annual mean	31.12.2004
Sulphur dioxide	350µg/m^3, not to be exceeded more than 24 times a year	1-hour mean	31.12.2004
Sulphur dioxide	125µg/m^3, not to be exceeded more than 3 times a year	24-hour mean	31.12.2004
Sulphur dioxide	266µg/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

The Updating and Screening Assessment of 2015 was the first Report submitted on behalf of the newly established Mid Ulster District Council. Previous reports submitted by both Dungannon and South Tyrone borough Council, and by Magherafelt District Council had identified a number of problematic areas in relation to areas where the air quality objective of 40µg/m³for Nitrogen dioxide (NO_2) was exceeded. Routine air quality monitoring for Nitrogen Dioxide using diffusion tubes had identified the exceedances of this objective. As a result of this monitoring a number of Air Quality Management (AQMA's) were established in various areas throughout the District. There have been a total of five AQMA's declared within the Mid Ulster area since routine monitoring began. Four of these were located in the former Dungannon and South Tyrone Borough and one in the former Magherafelt District. However, following improvements in the air quality in two of these AQMA's for three successive years during which time the air quality objective was not exceeded the AQMA for these areas were revoked. The AQMA's were revoked for the following areas: 1. Church Street, Dungannon 2. Stewartstown Road, Coalisland There are still three remaining AQMA's in the District. These are located at the following locations: 1. Newell Road, Dungannon. 2. Charlemont Street, Moy. 3. Church Street & King Street, Magherafelt. Mid Ulster District Council approved an Action Plan to help address air quality issues in the remaining AQMA's in December 2017. Ongoing routine air quality monitoring is undertaken in these areas and along main arterial routes in Cookstown and Moneymore to help identify any trends in air quality in the District.

Maps Showing Air Quality management Areas (AQMA's) in Mid Ulster.

Fig 1.1 Map of AQMA Boundary at Church Street/ King Street Magherafelt

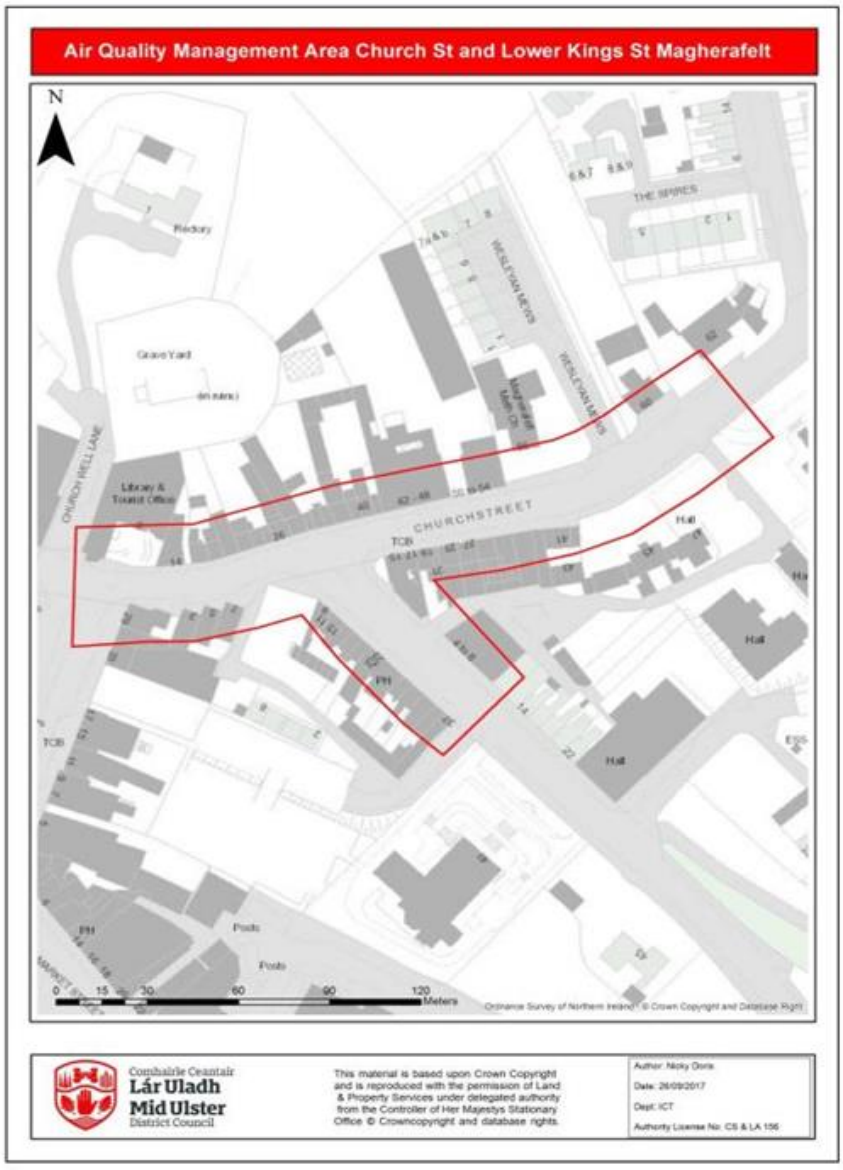
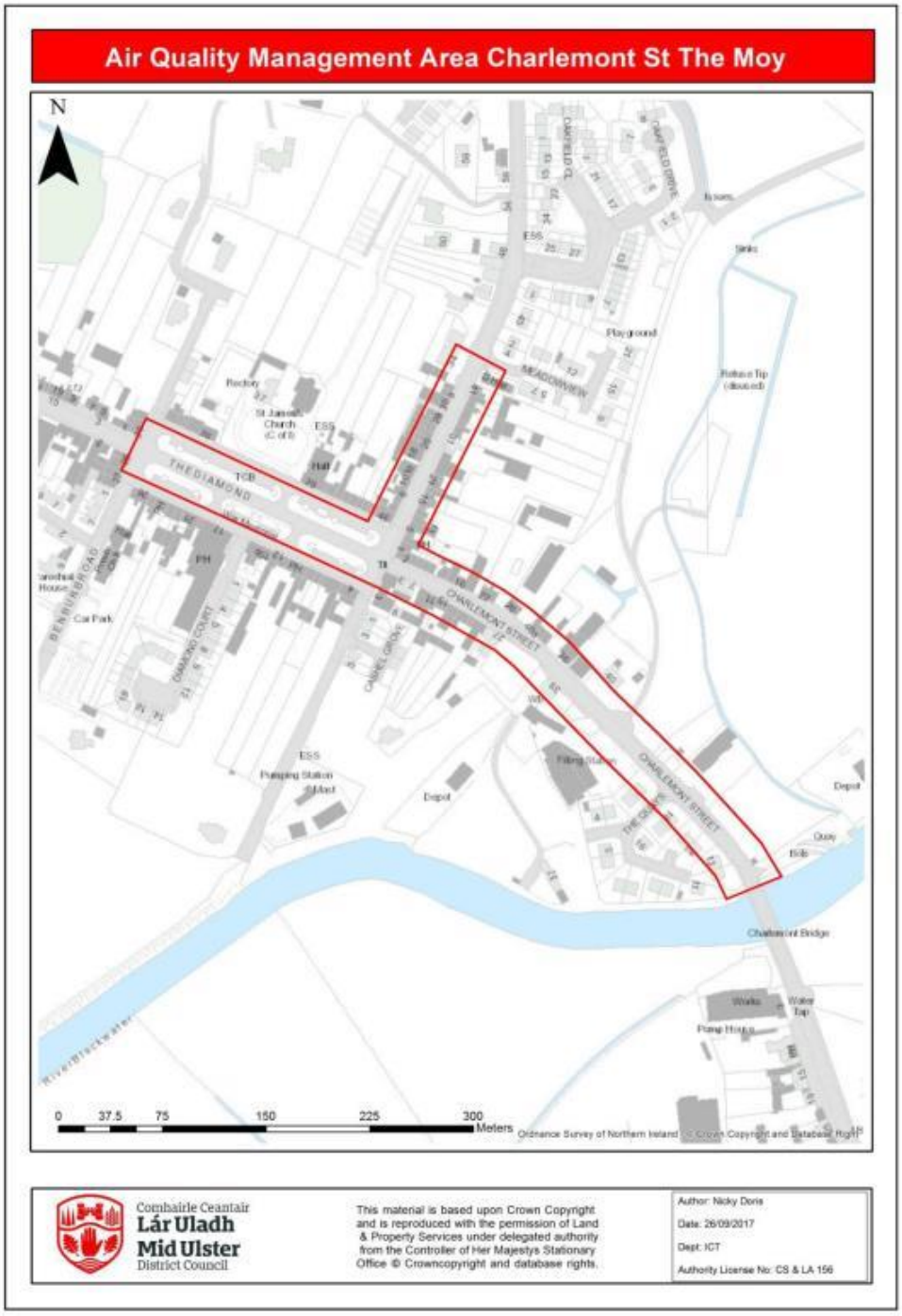


Figure 1.2 – Map of AQMA Boundary Newell Road, Dungannon

Figure 1.3 – Map of AQMA Boundary Charlemont Street, Moy



2 New Monitoring Data

2.1 Summary of Monitoring Undertaken

2.1.1 Automatic Monitoring Sites

Mid Ulster District Council does not undertake any automatic monitoring within its area.

2.1.2 Non-Automatic Monitoring Sites

Mid Ulster District Council has 20 non-automatic monitoring sites for Nitrogen dioxide (NO_2). These sites are monitored using 43 diffusion tubes supplied by SOCOTEC, Diffusion Tube Laboratory in Didcot, Oxfordshire. The reason that there is a greater number of diffusion tubes than monitoring sites is that some sites are monitored using three diffusion tubes to ensure results that are more accurate. These tend to be at the sites within the AQMA's. The Air quality monitoring takes place along the roads that are more heavily congested throughout the District. This generally occurs along the main North-South transport route identified in the Local Development Plan 2030 – Draft Plan Strategy. The roads in question link the three main towns of Magherafelt, Cookstown and Dungannon. Two of the smaller villages that this traffic passes through are also monitoring sites, namely Moneymore and Moy. The chosen sites tend to be located close to residential dwellings at points where the traffic is slowing down or idling at busy junctions or traffic lights.

Figure 2.1 Map(s) of Non-Automatic Monitoring Sites

Fig.2.2.1 Map Overview of Magherafelt Town Centre (Sites M2- M24)

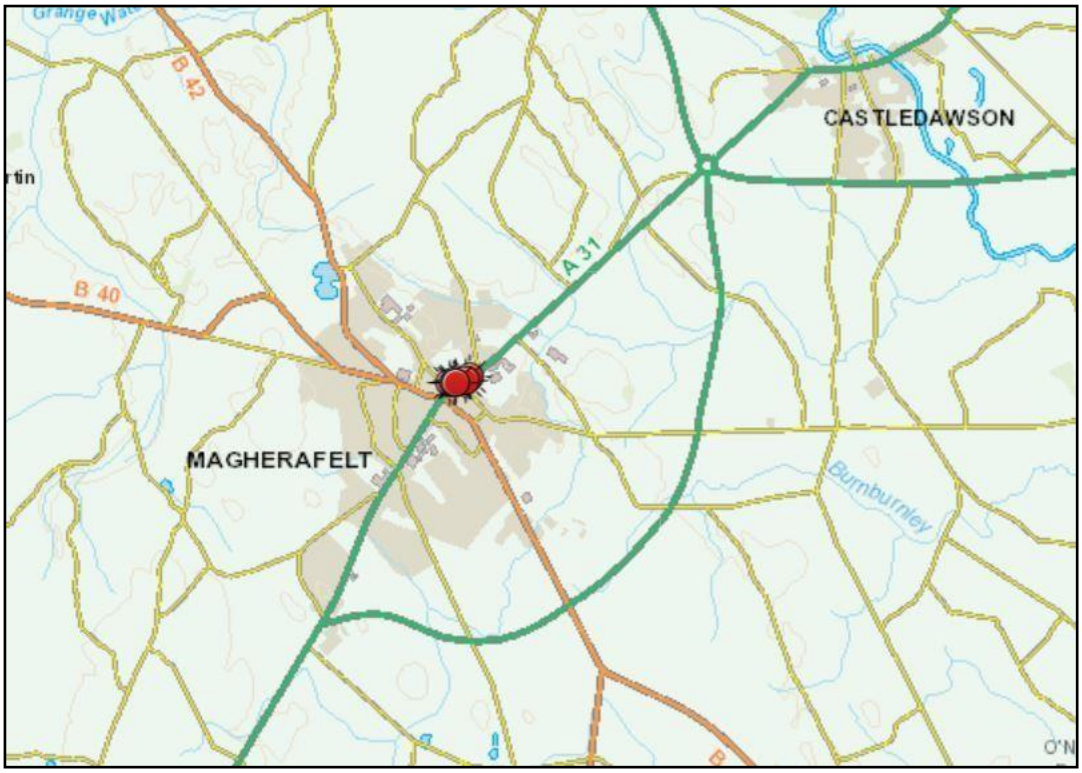


Figure 2.2.1 shows that the monitoring tubes are clustered in the town centre along the previous main thoroughfare of the A31 (route shown in green). The new Magherafelt bypass is also shown in green and it can be seen that this loops around Magherafelt to the South and is now the main route for all through traffic.

Fig. 2.2.2 Map Showing Location of Diffusion Tubes in Magherafelt Town Centre along Church St. and King St. (M2-M23)

The air quality monitoring sites for Magherafelt are shown above. It can be seen that the monitoring sites are located in the Church Street/ King Street areas in the centre of the town. These sites correspond with the AQMA area for the town outlined in Figure 1.1. Routine monitoring of other areas in the Magherafelt town centre in previous years indicated compliance with the air quality objective. Consequently, the focus of the monitoring is now within the AQMA. The new urban background location can be seen in Wesleyann Mews to the top right-hand side of the map.

Fig. 2.2.3- Overview of Air Quality Monitoring Sites in Moneymore (C1,C8,C10,C11)

The village of Moneymore receives a lot of through traffic from Cookstown to Magherafelt, and from Cookstown to the north coast. The air quality monitoring sites in Moneymore are located close to residential properties on the main roads into and out of the village, and in the cases of the Stonard Street and Conyngham Street locations along inclines where traffic is likely to be moving slowly.

The sites shown are from top to bottom Smith Street, Lawford Street, Conyngham Street and Stonard Street.

Fig. 2.2.4 Overview of Air Quality Monitoring Sites in Cookstown (C2, C3,C4,C5)

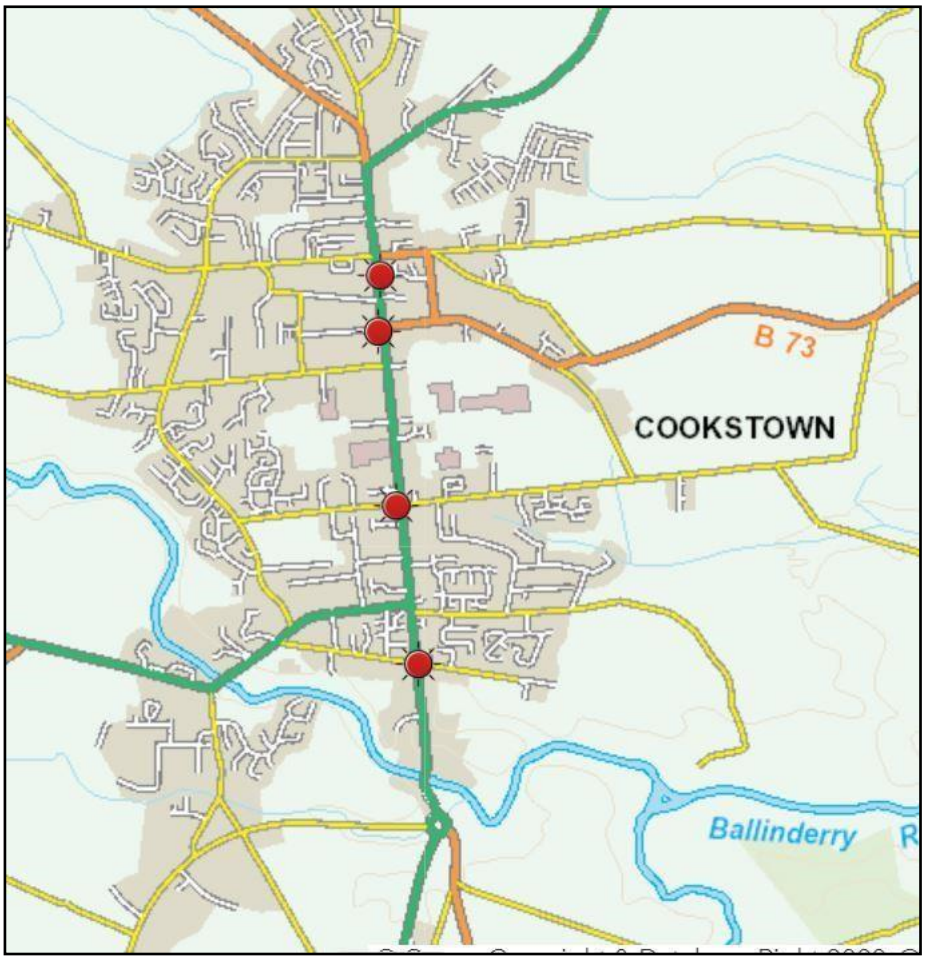


Fig. 2.2.4 above shows the monitoring site locations along Cookstown's main thoroughfare. As can be seen the sites are located close to busy road junctions and traffic lights where high volumes of traffic will frequently be idling.

Fig. 2.2.5. Monitoring Locations at William Street and James Street (C2,C3)

Figure 2.2.5 above shows the town centre monitoring locations along the town centre area of Cookstown in the main retail area of the town.

Fig. 2.2.6. Monitoring Locations at Church Street and Killymoon Street (C4, C5)

Figure 2.2.5 above shows the town centre monitoring locations at the busy Church Street junction (top) and at the traffic lights beside the Sweep Road Asda/ McDonald's development.

Fig. 2.2.7 Overview of Monitoring Locations in Dungannon (D1, D2, D6)

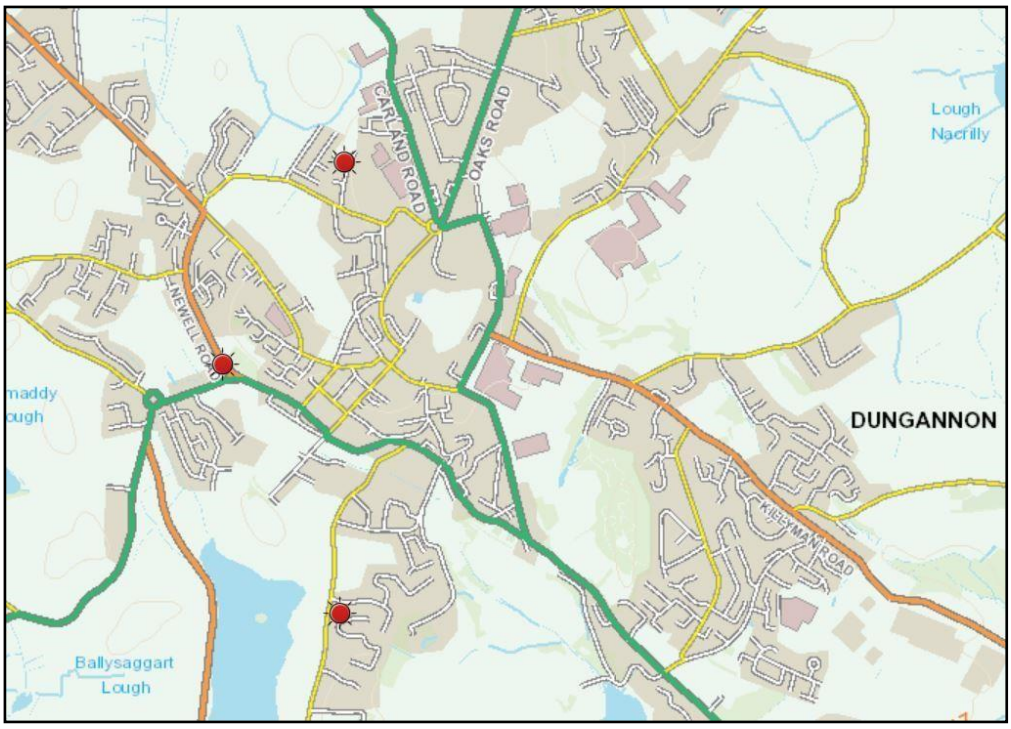


Fig. 2.2.7. shows the three monitoring sites in Dungannon showing from top to bottom sites at Ardgannon (D1), Newell Road (D2), and Dunclare Way (D6).

Fig. 2.2.8. Position of Monitoring Site at Newell Road, Dungannon (D2)

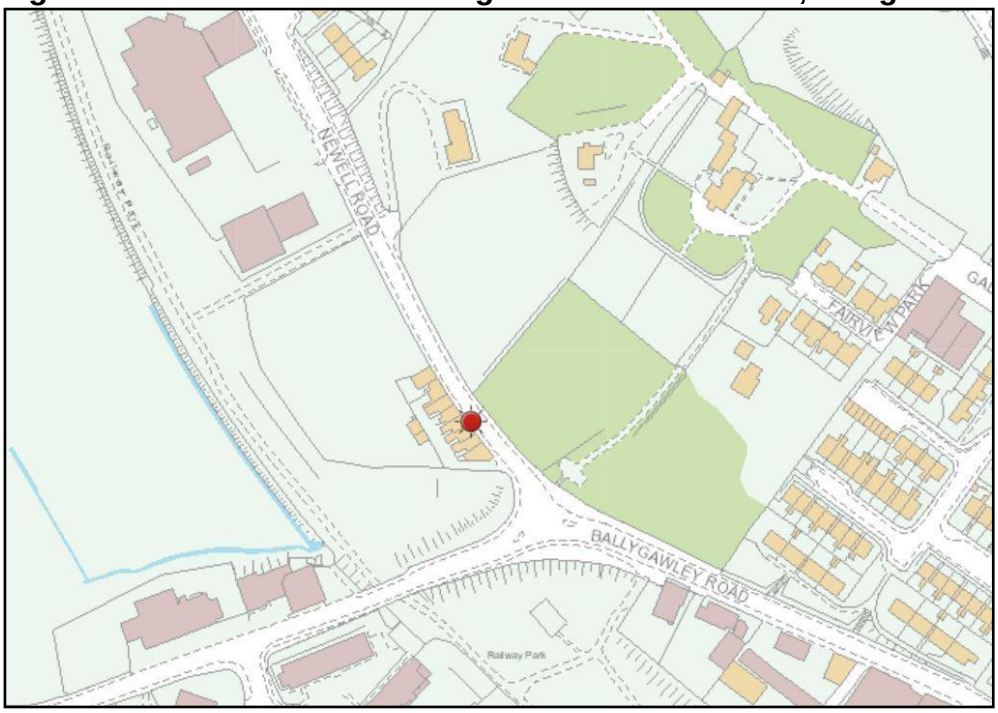


Fig.2.2.8. shows the location of the monitoring site at the AQMA on Newell Road. The site is framed by terraced houses on one side and a steep bank on the other. The route is along the main thoroughfare through the town from North to South.

Fig. 2.2.9. Overview of Monitoring Locations in Moy (D3, D4, D5)

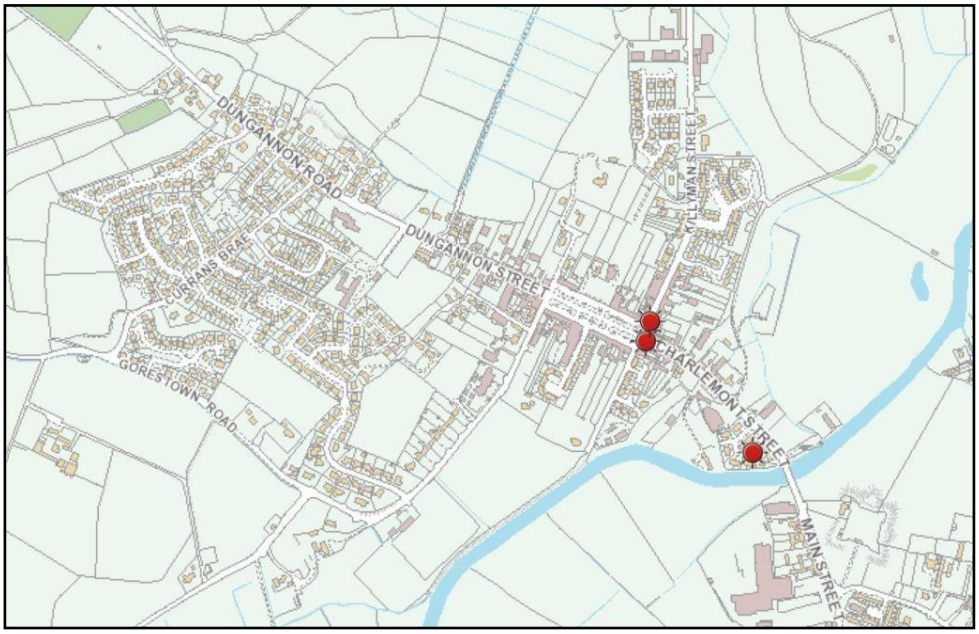
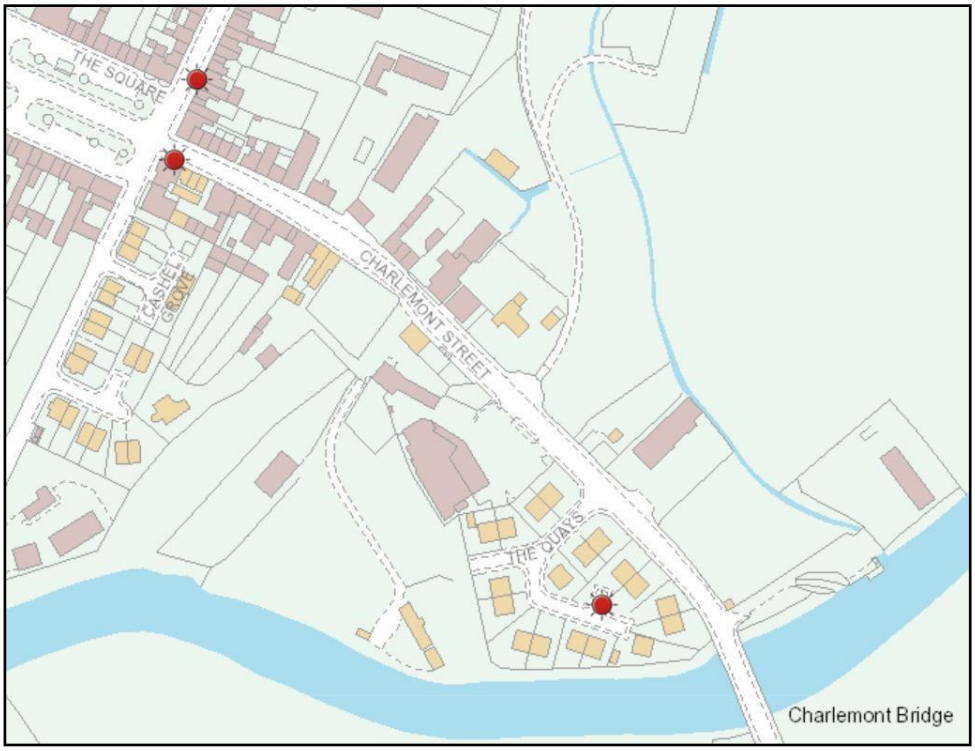


Fig. 2.2.10. shows the three monitoring sites in the village of Moy along the main Armagh to Dungannon Road. (D3, D4, D5).



The air quality monitoring sites for Moy are shown above.

The Charlemont Street site is shown at the junction of Charlemont Street running into the Square. The Killyman Street site (top site in Map) is located at a busy traffic light junction feeding into the main Square as well. These two sites are located within the AQMA. The urban background site located in the Quays residential area is also shown.

Table 2.1 Details of Non-Automatic Monitoring Sites

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	Site Height (m)	Pollutants Monitored	In AQMA? Which AQMA?	Is monitoring co-located with a Continuous Analyser (Y/N)	Relevant Exposure? *(Y/N with distance (m) to relevant exposure)*	Distance to kerb of nearest road (m) *(N/A if not applicable)*	Does this location represent worst-case exposure?
M2	22 Church Street	Roadside	289771	390728	2.5	NO_2	Y	N	Y	<5m	Y
M9	12 Church Street	Roadside	289745	390722	2.5	NO_2	Y	N	Y	<5m	Y
M10	30 Church Street	Roadside	289794	390735	2.5	NO_2	Y	N	Y	<5m	Y
M11	11 King Street	Roadside	289798	390706	2.5	NO_2	Y	N	Y	<5m	Y
M13	60 Church Street	Roadside	289903	390778	2.5	NO_2	Y	N	Y	<5m	Y
M23	35 Church Street	Roadside	289860	390734	2.5	NO_2	Y	N	Y	<5m	Y
M24	Wesleyan Mews	Urban Background	289867	390801	2.5	NO	N	N	Y	<5m	Y
D1	Ardgannon	Urban Background	279576	363173	2.5	NO_2	N	N	Y(<10m)	>50m	Y
D2	Newell Road	Roadside	279139	362445	2.5	NO_2	Y	N	Y(<1m)	2m	Y
D3	Charlemont Street	Urban Background	279556	363019	2.5	NO_2	N	N	Y(<1m)	>50m	Y
D4	Killyman Street	Urban Background	284991	356169	2.5	NO_2	N	N	Y(<10m)	>50m	Y
D5	The Quays	Roadside	285171	355922	2.5	NO_2	Y	N	Y(<1m)	3m	Y
D6	Dunclare Way	Roadside	279568	361548	2.5	NO_2	Y	N	Y(<1m)	2.5m	Y
C2	William Street	Roadside	281071	378445	2.5	NO_2	N	N	Y(<2m)	1m	Y
C3	James Street	Kerbside	281053	378197	2.5	NO_2	N	N	Y(<4m)	2m	Y
C4	Church Street	Roadside	281121	377537	2.5	NO_2	N	N	Y(<1m)	2m	Y
C5	Killymoon Street	Kerbside	281225	376939	2.5	NO_2	N	N	Y(<6m)	1m	Y
C1	Lawford Street	Kerbside	285770	383510	2.5	NO_2	N	N	Y(<1m)	2m	Y
C8	Smith Street	Kerbside	285813	383458	2.5	NO_2	N	N	Y(<1m)	3m	Y

2.2 Comparison of Monitoring Results with Air Quality Objectives

2.2.1 Nitrogen Dioxide

Automatic Monitoring Data

Mid Ulster District Council does not undertake any automatic monitoring for Nitrogen Dioxide throughout the District.

Diffusion Tube Monitoring Data

Mid Ulster District Council routinely monitors for NO_2 at a number of sites throughout the District in Magherafelt, Moneymore, Cookstown, Dungannon and Moy. Given that heightened levels of this pollutant are generally found close to congested roadsides, it is not surprising that these sites are found in urban areas along the A29 North South road that provides the main arterial route through the District.

The results of the diffusion tube monitoring for 2018 are indicated in Table 2.5 below. As can be seen from the table two of the sites exceeded the air quality objective of 40 µg/m³. These sites are located at Newell Road in Dungannon and Charlemont Street in Moy. The results for these two sites are 50 and 55 µg/m³ respectively. These two monitoring sites are located within the air quality management areas (AQMA) for Dungannon and Moy.

As noted above one of the monitoring sites located within the AQMA for Moy shows an exceedance of the air quality objective in Charlemont Street. However, the other site within the AQMA nearby in Killyman Street shows a level of 26µg/m³ a figure well within the objective level. This trend is consistent with recent years.

This year marks the first year when all the monitoring sites in the Magherafelt AQMA have recorded levels below the air quality objective. This is encouraging and would seem to indicate a general downwards trend as discussed later in this section. All results for the Dungannon, Moy and Magherafelt areas were recorded as the average of three tubes at each location to ensure better accuracy. The only two sites monitored individually at these sites were the urban backgrounds taken for comparison purposes.

Results for the Cookstown and Moneymore areas continue to show levels well in compliance with the air quality objective. This is most likely due to the wide streets in the main thoroughfares of these areas.

Table 2.2 Results of Nitrogen Dioxide Diffusion Tubes in 2020

Site ID	Location	Site Type	Within AQMA? Which AQMA?	Triplicate or Colocated Tube	Full Calendar Year Data Capture 2020 (Number of Months or %) [a]	2020 Annual Mean Concentration (µg/m^3) - Bias Adjustment factor = 0.77 [b]
M2	22 Church St	Roadside	Y	Triplicate	11 months	28
M9	12 Church St	Roadside	Y	Triplicate	11 months	25
M10	30 Church St	Roadside	Y	Triplicate	11 months	31
M11	11 King St	Roadside	Y	Triplicate	11 months	18
M13	60 Church St	Roadside	Y	Triplicate	11 months	15
M23	35 Church St	Roadside	Y	Triplicate	11 months	21
M24	Wesleyan Mews	Urban Background	Y	Single	11 months	08
D1	Ardgannon	Urban Background	N	Single	7 months	09[a]
D2	**Newell Road**	**Roadside**	**Y**	**Triplicate**	**11 months**	**42**
D6	Dunclare Way	Roadside	N	Triplicate	11 months	07
D5	The Quays	Suburban	N	Single	11 months	07
D3	**Charlemont St.**	**Roadside**	**Y**	**Triplicate**	**11 months**	**46**
D4	Killyman St.	Roadside	Y	Triplicate	11 months	20
C1	Lawford St	Kerbside	N	Single	11 months	26
C8	Smith St	Roadside	N	Single	11 months	19
C10	Conyngham St	Kerbside	N	Single	11 months	13
C11	Stonard St	Roadside	N	Single	11 months	27
C2	William St	Kerbside	N	Single	11 months	20
C3	James St	Roadside	N	Single	11 months	20
C4	Church St	Kerbside	N	Single	11 months	19
C5	Killymoon St	Kerbside	N	Single	8 months	18[a]

In **bold**, exceedance of the NO_2 annual mean AQS objective of 40µg/m^3.

Underlined, annual mean > 60µg/m^3, indicating a potential exceedance of the NO_2 hourly mean AQS objective. [a]

Means should be “annualised” as per LAQM.TG16, 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, NO_2 concentration at the nearest relevant exposure should be estimated based on the NO_2 fall-off with distance calculator, and results should be discussed in a specific section.

Table 2.3 Results of Nitrogen Dioxide Diffusion Tubes, adjusted for bias (µg/m^3): 2016 to 2020

Site ID	Site Type	Within AQMA? Which AQMA?	2016[a] (Bias Adjustment Factor = 0.92)	2017 [a] (Bias Adjustment Factor = 0.89)	2018 [a] (Bias Adjustment Factor = 0.76)	2019 [a] (Bias Adjustment Factor = 0.77)	2020 [a] (Bias Adjustment Factor = 0.77)
M2	Roadside	Y Magherafelt	**47**	37	35	35	28
M9	Roadside	Y Magherafelt	**46**	35	30	31	25
M10	Roadside	Y Magherafelt	**52**	**41**	35	37	31
M11	Roadside	Y Magherafelt	33	28	24	22	18
M13	Roadside	Y Magherafelt	28	25	23	19	15
M23	Roadside	Y Magherafelt	N/A	N/A	33	29	21
M24	Urban Background	N	N/A	N/A	N/A	10	08
D1	Urban Background	N	11	10	12	11	09[a]
D2	**Roadside**	**Y Dungannon**	**58**	**50**	**50**	**54**	**42**
D6	Roadside	N	9	7	8	8	07
D5	Suburban	N	10	7	9	9	07
D3	**Roadside**	**Y Moy**	**61**	**57**	**55**	**55**	**46**
D4	Roadside	Y Moy	29	26	26	26	20
C1	Kerbside	N	35	35	35	33	26
C8	Roadside	N	21	22	25	24	19
C10	Kerbside	N	15	14	17	13	13
C11	Roadside	N	34	34	37	37	31
C2	Kerbside	N	21	22	25	26	20
C3	Roadside	N	32	31	31	27	20
C4	Kerbside	N	29	26	26	24	19
C5	Kerbside	N	32	32	30	27	18[a]

In **bold**, exceedance of the NO_2 annual mean AQS objective of 40µg/m^3.

Underlined, annual mean > 60µg/m^3, indicating a potential exceedance of the NO_2 hourly mean AQS objective.

[a] Means should be “annualised” as per LAQM.TG16, if full calendar year data capture is less than 75%.

Figure 2.2 Trends in Annual Mean Nitrogen Dioxide Concentrations measured at Diffusion Tube Monitoring Sites

The information provided in Tables 2.5 and 2.6 show that the vast majority of sites within the Mid Ulster District Council area continue to show compliance with the air quality objectives in relation to NO_2.

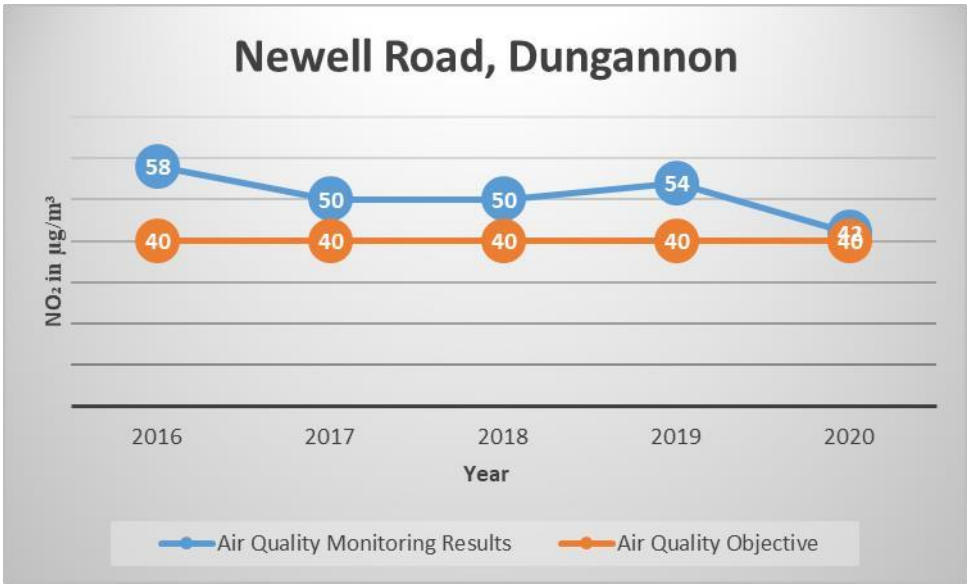
The exceptional circumstances of the Covid-19 pandemic meant that during the lockdown period the volume of traffic fell to levels last seen in the 1950s, declining by as much as 70%-80%.

Using data collected from the UK's national network of air pollution monitoring stations, the research showed that over the March – June 2020 period, nitrogen dioxide (NO_2) concentrations fell by between 14% and 38% compared to the preceding five-year baseline for the same period owing to a significant decrease in vehicle movements.

This was reflected in the monitoring results for the Mid Ulster District with the NO_2 levels fell at all sites compared with the previous 5-year average. The biggest falls in NO_2 level were within the AQMA's at Newell Road and Charlemont Street with a 14µg/m³ reduction in both. However, these falls still did not comply with the air quality objective of 40µg/m³.

The percentage fall in NO_2 varied between 13% at James St in Cookstown and 36% at Church St in Magherafelt. As can be seen from these figures it was areas within the AQMA's that recorded the largest falls. This would most likely be because these areas are normally some of the most congested in the District and the reduction in traffic would have the most benefit.

Fig 2.41 AQMA Dungannon

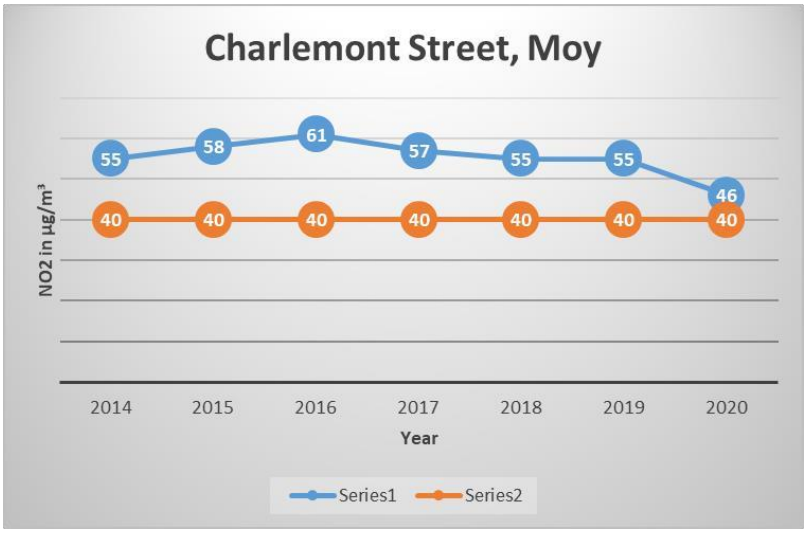


As can be seen from the graph above the level of NO_2 has shown an overall decline since 2016. The 2016 year was the peak year recorded at the Newell Road site, and in the years since it has shown a gradual decline except for 2019. The years leading up to 2016 had shown a slight increase from a total of 52µg/m^3 in 2014 to the 2016 apex.

It was disappointing that the figures for 2020 remained above the air quality objective of 40µg/m^{3}given the reduction in traffic for the year.

The site at Newell Road is one of the main through roads in Dungannon between the M1 motorway and the rods to Cookstown and Magherafelt to the North. The site is located in one of the AQMA's and consists of a narrow street with houses on one side and a steep bank on the other. This is most likely due to a canyoning effect that may help explain the elevated levels at this location.

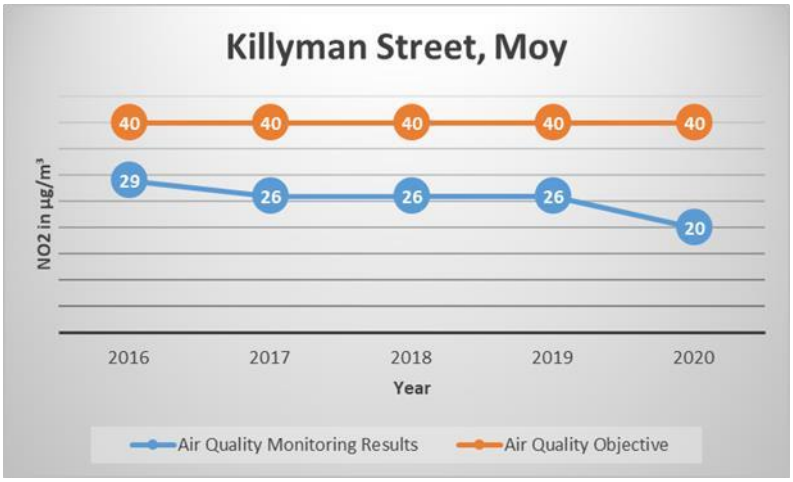
Fig 2.42 AQMA Charlemont Street, Moy



Charlemont Street in the Moy continues to show a steady trend towards decline from the apex of 61µg/m³ of 2016. The previous two results for this area were 55 and 58 µg/m³.

Once again, however the overall result in spite of the lockdown was still above the 40 µg/m³ air quality objective. The monitoring site is located close to a busy set of traffic lights on an incline on a narrow street coming up into the village. There is a right turn onto Killyman Road at this location and there are usually a number of cars idling waiting to turn right particularly at rush hours.

Fig 2.43 AQMA Killyman Street, Moy



It is interesting how localised this figure is because the AQMA also has a monitoring point close to the traffic lights on the Killyman Road where cars idle as they wait to turn onto Charlemont Street. The monitoring points are less than 40m apart. The figures obtained at this location are all well within the air quality objective for each of the years monitored.

Fig 2.44 Urban Background Dunclare Way, Dungannon

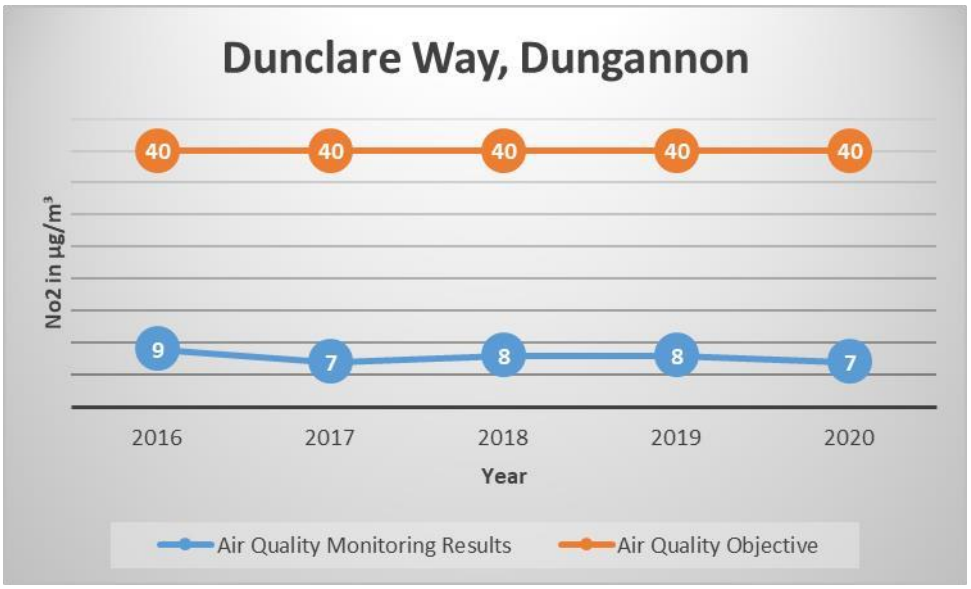
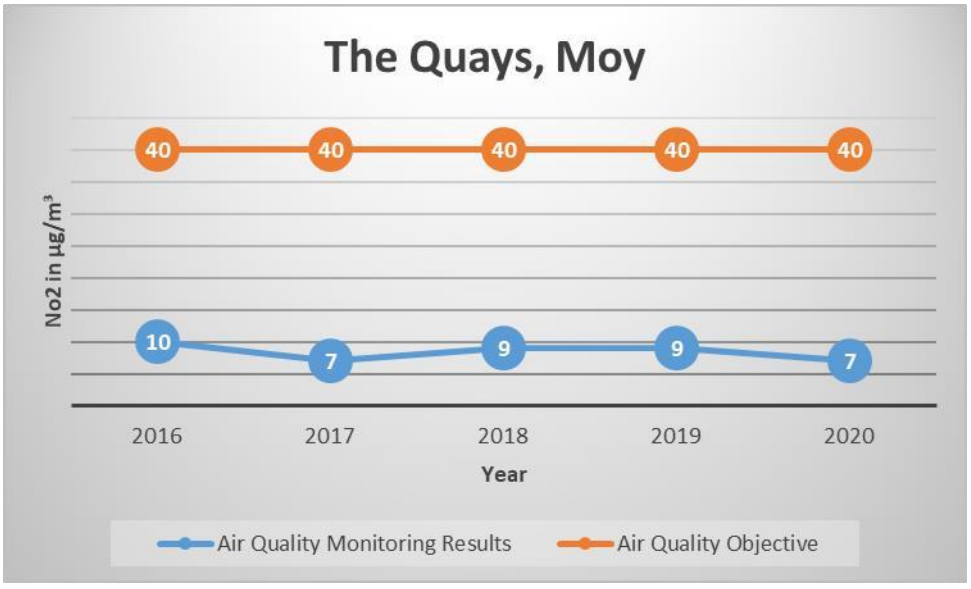
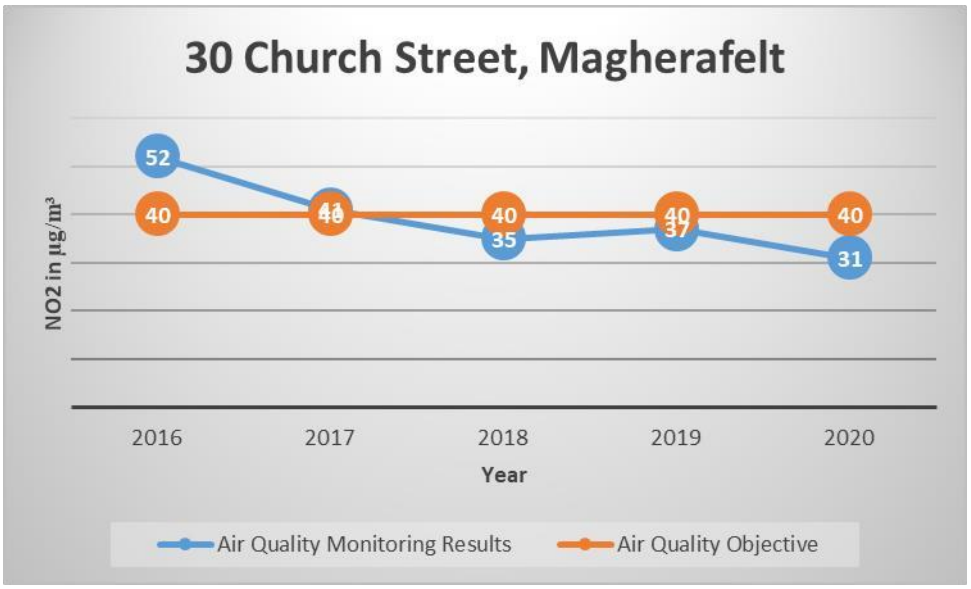


Fig 2.45 Urban Background The Quays, Moy



By way of comparison, the background urban monitoring figures for areas close to the AQMA's show background levels of NO_2 in and around 8 or 9µg/m³. These figures are broadly representative of the expected air quality at the Newell Road and Charlemont Street sites if the effects of vehicular traffic were taken away.

Fig. 2.46 AQMA Magherafelt



The graph above shows the air quality monitoring results for one of the monitoring points within the AQMA in Magherafelt. The Monitoring point is M10 located outside 30 Church Street. This was the last of the monitoring points to exceed the Air Quality objective in 2017. The entire AQMA has now has three years of results at each monitoring point below the air quality objective of 40µg/m³. MUDC hoped to revoke the AQMA following this set of results. However given how Covid-19 had skewed results and following Guidance Mid Ulster District Council will not revoke the Magherafelt AQMA at this time.

Fig. 2.47 Results outside the AQMA

The results from monitoring conducted outside the AQMA's followed a broadly similar pattern to the results for the monitoring points within the AQMA's. All results fell from the 2019 figure and most followed a gradual decline from a peak in 2016. Whether this forms part of a longer-term trend remains an unknown. However, at this point all other monitoring points were found to be well within the air quality objective for NO_2.

2.2.2 Particulate Matter (PM_{10})

Mid Ulster District Council does not routinely monitor for Particulate Matter (PM10).

2.2.3 Sulphur Dioxide

Mid Ulster District Council does not routinely monitor for Sulphur dioxide.

2.2.4 Benzene

Mid Ulster District Council does not routinely monitor for Benzene.

2.2.5 Other pollutants monitored

Mid Ulster District Council does not routinely monitor for any other pollutants.

2.2.6 Summary of Compliance with AQS Objectives

Mid Ulster District Council has examined the results from monitoring in the district. Concentrations outside of the AQMA's are all below the objectives at relevant locations. Therefore, there is no need to proceed to a Detailed Assessment.

3 Road Traffic Sources

3.1 Narrow Congested Streets with Residential Properties Close to the Kerb

Mid Ulster District Council confirms that there are no new/newly identified congested streets with a flow above 5,000 vehicles per day and residential properties close to the kerb, that have not been adequately considered in previous rounds of Review and Assessment.

3.2 Busy Streets Where People May Spend 1 hour or More Close to Traffic

Mid Ulster District Council confirms that there are no new/newly identified busy streets where people may spend 1 hour or more close to traffic.

3.3 Roads with a High Flow of Buses and/or HGVs.

Mid Ulster District Council confirms that there are no new/newly identified roads with high flows of buses/HDVs.

3.4 Junctions

Mid Ulster District Council confirms that there are no new/newly identified busy junctions/busy roads.

3.5 New Roads Constructed or Proposed Since the Last Round of Review and Assessment

There are three new major road projects in the Mid Ulster District Council area currently proposed. The 14.7km Randalstown to Castledawson scheme opened in May 2021.

Details of the air quality assessment undertaken for this development are available at the hyperlink below:

A6 Toome Bypass Environmental Statement - Volume 1 (infrastructureni.gov.uk)

Mid Ulster District Council is also aware of detailed air quality assessments currently being undertaken for the A29 Cookstown by-pass and the A5 Western Transport corridor part of which runs through the District.

Mid Ulster District Council has assessed new/proposed roads meeting the criteria in Table 7.1 of Chapter 7 of LAQM.TG16 and concluded that it will not be necessary to proceed to a Detailed Assessment.

3.6 Roads with Significantly Changed Traffic Flows

Mid Ulster District Council confirms that there are no new/newly identified roads with significantly changed traffic flows.

3.7 Bus and Coach Stations

Mid Ulster District Council confirms that there are no relevant bus stations in the Local Authority area.

4 Other Transport Sources

4.1 Airports

Mid Ulster District Council confirms that there are no airports in the Local Authority area.

4.2 Railways (Diesel and Stream Trains)

Stationary Trains

Mid Ulster District Council confirms that there are no locations where diesel or steam trains are regularly stationary for periods of 15 minutes or more, with potential for relevant exposure within 15m.

4.2.1 Moving Trains

Mid Ulster District Council confirms that there are no locations with a large number of movements of diesel locomotives, and potential long-term relevant exposure within 30m.

4.3 Ports

Mid Ulster District Council confirms that there are no ports or shipping that meet the specified criteria within the Local Authority area.

5 Industrial Sources

5.1 Industrial Installations

5.1.1 New or Proposed Installations for which an Air Quality Assessment has been Carried Out

Mid Ulster District Council has assessed new/proposed industrial installations and concluded that it will not be necessary to proceed to a Detailed Assessment.

5.1.2 Existing Installations where Emissions have Increased Substantially, or New Relevant Exposure has been introduced

Mid Ulster District Council considered existing installations as part of its planning consultation responses.

Mid Ulster District Council confirms that there are no industrial installations with substantially increased emissions or new relevant exposure in their vicinity within its area or nearby in a neighbouring authority.

5.1.3 New or Significantly Changed Installations with No Previous Air Quality Assessment

Mid Ulster District Council considered new or significantly changed installations as part of its planning consultation responses.

Mid Ulster District Council has assessed new/proposed industrial installations and concluded that it will not be necessary to proceed to a Detailed Assessment.

5.2 Major Fuel Depots

There are no major fuel (petrol) storage depots within the Local Authority area.

5.3 Petrol Stations

The approved planning applications for Mid Ulster District Council were checked, and new permits issued during 2020 in relation to petrol stations in the District.

Mid Ulster District Council confirms that there are no petrol stations meeting the specified criteria.

5.4 Poultry Farms

Mid Ulster District Council has considered applications for poultry houses in its area through the planning application system.

Mid Ulster District Council confirms that there are no poultry farms meeting the specified criteria.

6 Commercial and Domestic Sources

6.1 Biomass Combustion – Individual Installations

Mid Ulster District Council confirms that there are no biomass combustion plant in the Local Authority area.

6.2 Biomass Combustion – Combined Impacts

Mid Ulster District Council confirms that there are no biomass combustion plant in the Local Authority area.

6.3 Domestic Solid Fuel Burning

Mid Ulster District Council confirms that there are no areas of significant domestic fuel use in the Local Authority area.

7 Fugitive or Uncontrolled Sources

Mid Ulster District Council confirms that there are no potential sources of fugitive particulate matter emissions in the Local Authority area.

8 Conclusions and Proposed Actions

8.1 Conclusions from New Monitoring Data

This year's new monitoring data indicates compliance with air quality objectives at areas monitored outside of the AQMA's. It also shows compliance with air quality objectives at the Magherafelt AQMA. However, given the Covid-19 traffic restrictions, it was disappointing to note that exceedances' were still noted at the Dungannon and Moy AQMA's. Based on this year's results there is no need to proceed to a detailed assessment based on this year's new monitoring data.

8.2 Conclusions from Assessment of Sources

There is no need to proceed to a detailed assessment for the impacts of local developments such as road transport, industrial installations, commercial/domestic or fugitive emissions. Mid Ulster District Council will continue to review the proposed new A29 Cookstown by-pass and the A5 Western Transport corridor.

8.3 Proposed Actions

New monitoring data has not identified the need to progress to a detailed assessment for any pollutant. The monitoring data has indicated that there are no changes required to the existing AQMA's within the District at this stage. Air Quality at the Magherafelt AQMA has complied with air quality objectives for the third successive year. It was hoped to revoke this AQMA should this occur. However, given the Covid-19 situation it is felt that a further years monitoring should occur before the AQMA is revoked. This is a welcome step in the improvement of air quality within the District. Mid Ulster District Council's next course of action is to continue to monitor pollutants at their current locations and submit a Progress Report in 2022.

9 References

i. Local Air Quality Management: Technical Guidance (TG16) April 2021

ii. The Environment (Northern Ireland) Order 2002

iii. Air Quality Regulations (Northern Ireland) 2003

iv. The Air Quality Strategy for England, Scotland, Wales and Northern Ireland 2000

v. DEFRA Local Air Quality Management Technical Guidance LAQM.TG(16)

vi. Magherafelt District Council 1st Stage Review and Assessment of Air Quality 2001

vii. Magherafelt District Council 2nd Stage Review and Assessment of Air Quality 2002

viii. Magherafelt District Council Progress Report on Air Quality Management 2005

ix. Magherafelt District Council Air Quality Update and Screening Assessment 2006

x. Magherafelt District Council Progress Report on Air Quality Management 2007

xi. Magherafelt District Council Local Air Quality Management Grant Evaluation Form 2008

xii. Magherafelt District Council Progress Report on Air Quality Management 2008

xiii. Magherafelt District Council Local Air Quality Management Grant Evaluation Form 2009

xiv. Magherafelt District Council Air Quality Update and Screening Assessment 2009

xv. Magherafelt District Council Local Air Quality Management Grant Evaluation Form 2010

xvi. Magherafelt District Council Progress Report on Air Quality Management 2010

xvii. Magherafelt District Council Local Air Quality Management Grant Evaluation Form 2011

xviii. Magherafelt District Council Detailed Assessment for NO2 Levels on Church Street and King Street, Magherafelt 2011

xix. Magherafelt District Council Local Air Quality Management Grant Evaluation Form 2012

xx. Magherafelt District Council Air Quality Update and Screening Assessment 2012

xxi. Magherafelt District Council Local Air Quality Management Grant Evaluation Form 2013

xxii. Magherafelt District Council Air Quality Progress Report 2013

xxiii. Magherafelt District Council Air Quality Progress Report 2014

xxiv. Cookstown District Council 1st Stage Review and Assessment - August 2001

xxv. Cookstown District Council 2nd/3rd Stage Review and Assessment Report- August 2004.

xxvi. Cookstown District Council – Updating and Screening Assessment – August 2006

xxvii. Cookstown District Council – Updating and Screening Assessment – Aug 2009

xxviii. Cookstown District Council – Updating and Screening Assessment – Aug 2012

xxix. Cookstown District Council Progress Report – 2007

xxx. Cookstown District Council Progress Report – 2008

xxxi. Cookstown District Council Progress Report – 2010

xxxii. Cookstown District Council Progress Report – 2011

xxxiii. Cookstown District Council Progress Report – 2013

xxxiv. 2015 Mid Ulster District Council Updating and Screening Assessment

xxxv. 2016 Mid Ulster District Council Air Quality Progress Report

xxxvi. 2017 Mid Ulster District Council Air Quality Progress Report

xxxvii. 2018 Mid Ulster District Council Air Quality Progress Report xxxviii. 2019 Mid Ulster District Council Air Quality Progress Report xxxix. 2020 Mid Ulster District Council Air Quality Progress Report

Appendices

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

Appendix B: Impact of COVID-19 upon LAQM

Appendix C: NO_2 Diffusion Tube Results

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

QA/QC of Diffusion Tube Monitoring

The NO_2 tubes for Mid Ulster District Council were analysed by Socotec based in Didcot, Oxfordshire. The tubes were analysed using 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 the grids prior to the tubes being assembled. The tubes were desorbed with distilled water and the extract analysed using a segmented flow autoanalyser with ultraviolet detection.

Diffusion Tube Preparation Method 2020	Good	Bad
ESG Didcot / SOCOTEC, 50% TEA in Acetone	24	0

For the purposes of Local Air Quality Management, tube precision is separated into two categories, "good" or "bad", As can be seen from the table above all 24 of Socotec's results for the 2020 were good.

Diffusion Tube Annualisation

All but two of the diffusion tubes monitoring locations within Mid Ulster District Council area recorded data capture of 75% or above. Therefore, annualisation was only required for these two sites. (See Table A2).

Diffusion Tube Bias Adjustment Factors

Mid Ulster District Council have applied a national bias adjustment factor of 0.77 to the 2020 monitoring data. A summary of bias adjustment factors used by Mid Ulster District Council over the past five years is presented in Table A.1.

The bias adjustment was chosen by using the national diffusion tube bias adjustment factor spreadsheet. Socotec Didcot was put into the spreadsheet along with the year 2020 and the analysis method of 50% TEA in acetone. This brought up the results of 24 studies throughout the UK and the average bias adjustment figure for this methodology and laboratory was found to be 0.77. Mid Ulster District Council adopted this as their bias adjustment figure.

Table A.1 Bias Adjustment Factor

Year	Local or National	If National, Version of National Spreadsheet	Adjustment Factor
2020	National	Unknown	0.77
2019	National	Unknown	0.77
2018	National	Unknown	0.76
2017	National	Unknown	0.89
2016	National	Unknown	0.92

NO_2 Fall-off with Distance from the Road

No diffusion tube NO_2 monitoring locations within Mid Ulster District Council required distance correction during 2020.

Table A.2 Annualisation Summary (concentrations presented in µg/m^3)

Site ID	Annual-isation Factor Ballymena-Antrim Road	Annualisation Factor Ballymena Ballykeel	Annualisation Factor Derry Dale's Corner	Annualisation Factor Derry Rosemount	Average Annualisation Factor	Raw Data Annual Mean	Annual-ised Annual Mean	Comments
D1	0.8833	0.9690	0.9799	0.9799	0.9545	11.8	11.3	See copy of Annualised Results
C5	0.7941	0.8878	0.8998	0.9290	0.8777	26.3	23.0	

The data for the urban background site at Ardgannon in Dungannon had only 7 months' worth of data due to the tube in question being removed for a number of months (presumably by local youths). The collected data was processed through the annualisation tool on the local air quality website. The relevant data was complimented by continuous monitor inputs for the period from four of the local continuous monitor sites. This provided an annualised annual mean of 11.3μg/m^3. When this is bias adjusted with a figure of 0.77 it gives the result of 8.73μg/m^3.

The data for the site at Killymoon Road had only 8 months' worth of data due to the tube in question being removed for the erection of unofficial signage. The collected data was processed in a manner similar to the Ardgannon site using the same four continuous monitor sites. This provided an annual mean of 23.0μg/m^3. When this is bias adjusted with a figure of 0.77 it gives the result of 17.7μg/m^3.

Appendix B: Impact of COVID-19 upon LAQM

COVID-19 has had a significant impact on society. Inevitably, COVID-19 has also had an impact on the environment, with implications to air quality at local, regional and national scales. COVID-19 has presented various challenges for Local Authorities with respect to undertaking their statutory LAQM duties in the 2021 reporting year.

Despite the challenges that the pandemic has given rise to, the events of 2020 have also provided Local Authorities and other organisations with an opportunity to quantify the air quality impacts associated with wide-scale and extreme intervention and changes in behaviour such as reduced road traffic and working from home.

Mid Ulster District Council maintained their air quality monitoring duties changing the diffusion tubes for each month except for April 2020 when travel was only allowed only for what was deemed essential work. The tubes were duly changed at the beginning of May 2020.

One of the biggest challenges faced by the authority in this period was that a number of people who would normally change the tubes were ‘shielding’ at the time and alternative arrangements had to be made for changing them from a limited staff availability. This was further impacted when Environmental Health staff were seconded into other roles within the Council to cover shortfalls elsewhere. Many of the |Environmental Health functions saw an increased level of complaints during this period because of people working from and being restricted to the home environment. This meant a greater workload than normal being borne by fewer people than normal.

This obviously presented difficulties in performing the air quality duties in as timely a manner as previously. The situation with Covid -19 and air quality has gradually returned to a more normal working pattern with only minor interruptions since January 2021.

Appendix C: NO_2 Diffusion Tube Results

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/19A/NA9S1	9A	08/01/2020 12:00	05/02/2020 12:00	672.00	2.13	45.4	23.6	
MIDUL/19A/NA9S2	9B	08/01/2020 12:00	05/02/2020 12:00	672.00	2	42.7	22.2	
MIDUL/19A/NA9S3	9C	08/01/2020 12:00	05/02/2020 12:00	672.00	2.11	45.1	23.4	
MIDUL/19A/NA9S4	2A	08/01/2020 12:00	05/02/2020 12:00	672.00	2.54	54.2	28.2	
MIDUL/19A/NA9S5	2B	08/01/2020 12:00	05/02/2020 12:00	672.00	2.23	47.6	24.7	
MIDUL/19A/NA9S6	2C	08/01/2020 12:00	05/02/2020 12:00	672.00	2.34	49.8	25.9	
MIDUL/19A/NA9S7	10A	08/01/2020 12:00	05/02/2020 12:00	672.00	2.12	45.3	23.5	
MIDUL/19A/NA9S8	10B	08/01/2020 12:00	05/02/2020 12:00	672.00	2.16	46	23.9	
MIDUL/19A/NA9S9	10C	08/01/2020 12:00	05/02/2020 12:00	672.00	2.26	48.2	25	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/19A/NA9S19	Argannon							Missing
MIDUL/19A/NA9S20	Newell Rd 1	08/01/2020 13:30	05/02/2020 12:00	670.50	3.23	69	35.9	
MIDUL/19A/NA9S21	Newell Rd 2	08/01/2020 13:30	05/02/2020 12:00	670.50	3.17	67.8	35.3	
MIDUL/19A/NA9S22	Newell Rd 3	08/01/2020 13:30	05/02/2020 12:00	670.50	3.47	74.1	38.5	
MIDUL/19A/NA9S23	Dunclare Way	08/01/2020 13:00	05/02/2020 11:45	670.75	0.58	12.5	6.5	
MIDUL/19A/NA9S24	The Quays 1	08/01/2020 12:30	05/02/2020 11:30	671.00	0.44	9.5	4.9	
MIDUL/19A/NA9S25	The Quays 2	08/01/2020 12:30	05/02/2020 11:30	671.00	0.43	9.1	4.8	
MIDUL/19A/NA9S26	The Quays 3	08/01/2020 12:30	05/02/2020 11:30	671.00	0.42	8.9	4.6	

MIDUL/19A/NA9S27	Charlemont St 1	08/01/2020 12:30	05/02/2020 11:30	671.00	3.45	73.8	38.4	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/19A/NA9S28	Charlemont St 2	08/01/2020 12:30	05/02/2020 11:30	671.00	3.62	77.3	40.2	
MIDUL/19A/NA9S29	Charlemont St 3	08/01/2020 12:30	05/02/2020 11:30	671.00	3.55	75.9	39.5	
MIDUL/19A/NA9S30	Killyman St 1	08/01/2020 12:30	05/02/2020 11:30	671.00	1.54	32.9	17.1	
MIDUL/19A/NA9S31	Killyman St 2	08/01/2020 12:30	05/02/2020 11:30	671.00	1.61	34.4	17.9	
MIDUL/19A/NA9S32	Killyman St 3	08/01/2020 12:30	05/02/2020 11:30	671.00	1.33	28.5	14.8	
MIDUL/19A/NA9S33	Lawford St Moneymore	03/01/2020 11:00	05/02/2020 14:00	795.00	2.81	50.6	26.3	

MIDUL/19A/NA9S34	Smith St Moneymore	03/01/2020 11:15	05/02/2020 14:15	795.00	1.92	34.5	18	
MIDUL/19A/NA9S35	Conyngham St Moneymore	03/01/2020 11:30	05/02/2020 14:30	795.00	1.09	19.6	10.2	
MIDUL/19A/NA9S36	Stonard St Moneymore	03/01/2020 11:45	05/02/2020 14:45	795.00	2.74	49.4	25.7	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/19A/NA10S1	9A	05/02/2020 12:00	04/03/2020 12:00	672.00	1.66	35.4	18.4	
MIDUL/19A/NA10S2	9B	05/02/2020 12:00	04/03/2020 12:00	672.00	1.49	31.9	16.6	
MIDUL/19A/NA10S3	9C	05/02/2020 12:00	04/03/2020 12:00	672.00	1.3	27.7	14.4	
MIDUL/19A/NA10S4	2A	05/02/2020 12:00	04/03/2020 12:00	672.00	1.64	35	18.2	

MIDUL/19A/NA10S5	2B	05/02/2020 12:00	04/03/2020 12:00	672.00	1.7	36.4	18.9	
MIDUL/19A/NA10S6	2C	05/02/2020 12:00	04/03/2020 12:00	672.00	1.23	26.3	13.7	
MIDUL/19A/NA10S7	10A	05/02/2020 12:00	04/03/2020 12:00	672.00	1.88	40.2	20.9	
MIDUL/19A/NA10S8	10B	05/02/2020 12:00	04/03/2020 12:00	672.00	1.81	38.7	20.1	
MIDUL/19A/NA10S9	10C	05/02/2020 12:00	04/03/2020 12:00	672.00	1.62	34.5	18	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/19A/NA10S10	13A	05/02/2020 12:00	04/03/2020 12:00	672.00	0.97	20.6	10.7	
MIDUL/19A/NA10S11	13B	05/02/2020 12:00	04/03/2020 12:00	672.00	1.03	21.9	11.4	

MIDUL/19A/NA10S12	13C	05/02/2020 12:00	04/03/2020 12:00	672.00	0.95	20.2	10.5	
MIDUL/19A/NA10S13	23A	05/02/2020 12:00	04/03/2020 12:00	672.00	1.71	36.4	18.9	
MIDUL/19A/NA10S14	23B	05/02/2020 12:00	04/03/2020 12:00	672.00	1.46	31.2	16.2	
MIDUL/19A/NA10S15	23C	05/02/2020 12:00	04/03/2020 12:00	672.00	1.35	28.8	15	
MIDUL/19A/NA10S16	11A	05/02/2020 12:00	04/03/2020 12:00	672.00	1.22	26	13.5	
MIDUL/19A/NA10S17	11B	05/02/2020 12:00	04/03/2020 12:00	672.00	1.28	27.3	14.2	
MIDUL/19A/NA10S18	11C	05/02/2020 12:00	04/03/2020 12:00	672.00	1.31	28	14.6	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments

MIDUL/19A/NA10S19	Argannon							Missing
MIDUL/19A/NA10S20	Newell Rd 1	05/02/2020 12:00	04/03/2020 11:45	671.75	2.58	55.1	28.6	
MIDUL/19A/NA10S21	Newell Rd 2	05/02/2020 12:00	04/03/2020 11:45	671.75	2.87	61.2	31.8	
MIDUL/19A/NA10S22	Newell Rd 3	05/02/2020 12:00	04/03/2020 11:45	671.75	2.67	56.9	29.6	
MIDUL/19A/NA10S23	Dunclare Way	05/02/2020 11:45	04/03/2020 11:30	671.75	0.39	8.4	4.4	
MIDUL/19A/NA10S24	The Quays 1	05/02/2020 11:30	04/03/2020 11:15	671.75	0.35	7.4	3.9	
MIDUL/19A/NA10S25	The Quays 2	05/02/2020 11:30	04/03/2020 11:15	671.75	0.32	6.8	3.5	
MIDUL/19A/NA10S26	The Quays 3	05/02/2020 11:30	04/03/2020 11:15	671.75	0.32	6.9	3.6	
MIDUL/19A/NA10S27	Charlemont St 1	05/02/2020 11:30	04/03/2020 11:15	671.75	3.17	67.5	35.1	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/19A/NA10S37	William St Cookstown	06/12/2019 15:00	03/01/2020 12:00	669.00	1.09	23.4	12.2	
MIDUL/19A/NA10S38	Killymoon St Cookstown	06/12/2019 15:15	03/01/2020 12:15	669.00	1.57	33.5	17.4	
MIDUL/19A/NA10S39	Church St Cookstown	06/12/2019 15:30	03/01/2020 12:30	669.00	1.16	24.8	12.9	
MIDUL/19A/NA10S40	James St Cookstown	06/12/2019 15:45	03/01/2020 12:45	669.00	1.64	35.2	18.3	
MIDUL/19A/NA10S41	24A	05/02/2020 12:00	04/03/2020 12:00	672.00	0.46	9.8	5.1	
MIDUL/19A/NA10S42	24B	05/02/2020 12:00	04/03/2020 12:00	672.00	0.51	10.9	5.7	
MIDUL/19A/NA10S43	24C	05/02/2020 12:00	04/03/2020 12:00	672.00	0.48	10.3	5.4	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/19A/NA11S1	9A	04/03/2020 12:00	12/05/2020 12:00	1656.00	2.58	22.3	11.6	
MIDUL/19A/NA11S2	9B	04/03/2020 12:00	12/05/2020 12:00	1656.00	2.7	23.4	12.2	
MIDUL/19A/NA11S3	9C							Missing
MIDUL/19A/NA11S4	2A	04/03/2020 12:00	12/05/2020 12:00	1656.00	3.36	29.1	15.1	
MIDUL/19A/NA11S5	2B	04/03/2020 12:00	12/05/2020 12:00	1656.00	2.82	24.5	12.7	
MIDUL/19A/NA11S6	2C	04/03/2020 12:00	12/05/2020 12:00	1656.00	3.04	26.3	13.7	
MIDUL/19A/NA11S7	10A	04/03/2020 12:00	12/05/2020 12:00	1656.00	3.4	29.4	15.3	
MIDUL/19A/NA11S8	10B	04/03/2020 12:00	12/05/2020 12:00	1656.00	3.43	29.7	15.4	

MIDUL/19A/NA11S9	10C	04/03/2020 12:00	12/05/2020 12:00	1656.00	3.15	27.2	14.2	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/19A/NA11S10	13A	04/03/2020 12:00	12/05/2020 12:00	1656.00	1.48	12.8	6.7	
MIDUL/19A/NA11S11	13B	04/03/2020 12:00	12/05/2020 12:00	1656.00	1.27	11	5.7	Spider in tube
MIDUL/19A/NA11S12	13C	04/03/2020 12:00	12/05/2020 12:00	1656.00	1.56	13.5	7	
MIDUL/19A/NA11S13	23A	04/03/2020 12:00	12/05/2020 12:00	1656.00	2.4	20.8	10.8	
MIDUL/19A/NA11S14	23B	04/03/2020 12:00	12/05/2020 12:00	1656.00	2.63	22.8	11.9	
MIDUL/19A/NA11S15	23C	04/03/2020 12:00	12/05/2020 12:00	1656.00	2.38	20.6	10.7	

MIDUL/19A/NA11S16	11A	04/03/2020 12:00	12/05/2020 12:00	1656.00	1.84	15.9	8.3	
MIDUL/19A/NA11S17	11B	04/03/2020 12:00	12/05/2020 12:00	1656.00	1.65	14.3	7.4	
MIDUL/19A/NA11S18	11C	04/03/2020 12:00	12/05/2020 12:00	1656.00	1.84	15.9	8.3	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/19A/NA11S19	Arogannon							Missing
MIDUL/19A/NA11S20	Newell Rd 1	04/03/2020 11:45	06/05/2020 13:15	1513.50	5.36	50.8	26.4	
MIDUL/19A/NA11S21	Newell Rd 2	04/03/2020 11:45	06/05/2020 13:15	1513.50	5.61	53.1	27.6	
MIDUL/19A/NA11S22	Newell Rd 3	04/03/2020 11:45	06/05/2020 13:15	1513.50	4.97	47	24.5	

MIDUL/19A/NA11S23	Dunclape Way	04/03/2020 11:30	06/05/2020 13:00	1513.50	0.77	7.3	3.8	
MIDUL/19A/NA11S24	The Quays 1	04/03/2020 11:15	06/05/2020 12:45	1513.50	0.74	7	3.6	
MIDUL/19A/NA11S25	The Quays 2	04/03/2020 11:15	06/05/2020 12:45	1513.50	0.75	7.1	3.7	
MIDUL/19A/NA11S26	The Quays 3	04/03/2020 11:15	06/05/2020 12:45	1513.50	0.75	7.1	3.7	
MIDUL/19A/NA11S27	Charlemont St 1	04/03/2020 11:15	06/05/2020 12:45	1513.50	4.47	42.3	22	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/19A/NA11S28	Charlemont St 2	04/03/2020 11:15	06/05/2020 12:45	1513.50	4.91	46.5	24.2	

MIDUL/19A/NA11S29	Charlemont St 3	04/03/2020 11:15	06/05/2020 12:45	1513.50	4.3	40.7	21.2	
MIDUL/19A/NA11S30	Killyman St 1	04/03/2020 11:15	06/05/2020 12:45	1513.50	2.28	21.6	11.3	
MIDUL/19A/NA11S31	Killyman St 2							Missing
MIDUL/19A/NA11S32	Killyman St 3	04/03/2020 11:15	06/05/2020 12:45	1513.50	2.13	20.2	10.5	
MIDUL/19A/NA11S33	Lawford St Moneymore	03/03/2020 14:00	01/05/2020 10:00	1412.00	2.53	25.7	13.4	
MIDUL/19A/NA11S34	Smith St Moneymore	03/03/2020 14:15	01/05/2020 10:15	1412.00	1.95	19.8	10.3	
MIDUL/19A/NA11S35	Conyngham St Moneymore	03/03/2020 14:30	01/05/2020 10:30	1412.00	1.01	10.2	5.3	
MIDUL/19A/NA11S36	Stonard St Moneymore	03/03/2020 14:45	01/05/2020 10:45	1412.00	2.81	28.5	14.8	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments

MIDUL/19A/NA11S37	William St Cookstown	03/03/2020 15:00	01/05/2020 11:00	1412.00	2.02	20.5	10.7	
MIDUL/19A/NA11S38	Killymoon St Cookstown							Tube missing
MIDUL/19A/NA11S39	Curch St Cookstown	03/03/2020 15:30	01/05/2020 11:30	1412.00	1.79	18.2	9.5	
MIDUL/19A/NA11S40	James St Cookstown	03/03/2020 15:45	01/05/2020 11:45	1412.00	2.3	23.3	12.1	
MIDUL/19A/NA11S41	24A	04/03/2020 12:00	12/05/2020 12:00	1656.00	0.75	6.5	3.4	
MIDUL/19A/NA11S42	24B	04/03/2020 12:00	12/05/2020 12:00	1656.00	0.77	6.7	3.5	
MIDUL/19A/NA11S43	24C	04/03/2020 12:00	12/05/2020 12:00	1656.00	0.81	7	3.6	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA1S1	9A	12/05/2020 12:00	02/06/2020 12:00	504.00	0.87	24.7	12.9	
MIDUL/20A/NA1S2	9B	12/05/2020 12:00	02/06/2020 12:00	504.00	0.85	24.2	12.6	
MIDUL/20A/NA1S3	9C	12/05/2020 12:00	02/06/2020 12:00	504.00	0.85	24.3	12.6	
MIDUL/20A/NA1S4	2A	12/05/2020 12:00	02/06/2020 12:00	504.00	1.02	28.9	15	
MIDUL/20A/NA1S5	2B	12/05/2020 12:00	02/06/2020 12:00	504.00	1.09	31.1	16.2	
MIDUL/20A/NA1S6	2C	12/05/2020 12:00	02/06/2020 12:00	504.00	1.04	29.7	15.4	
MIDUL/20A/NA1S7	10A	12/05/2020 12:00	02/06/2020 12:00	504.00	1.87	53.1	27.6	Rec'd with NA2
MIDUL/20A/NA1S8	10B	12/05/2020 12:00	02/06/2020 12:00	504.00	2.06	58.6	30.5	Rec'd with NA2
MIDUL/20A/NA1S9	10C	12/05/2020 12:00	02/06/2020 12:00	504.00	1.95	55.5	28.9	Rec'd with NA2

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA1S10	13A	12/05/2020 12:00	02/06/2020 12:00	504.00	0.48	13.6	7.1	
MIDUL/20A/NA1S11	13B	12/05/2020 12:00	02/06/2020 12:00	504.00	0.47	13.3	6.9	
MIDUL/20A/NA1S12	13C	12/05/2020 12:00	02/06/2020 12:00	504.00	0.48	13.7	7.1	
MIDUL/20A/NA1S13	23A	12/05/2020 12:00	02/06/2020 12:00	504.00	0.84	23.7	12.3	
MIDUL/20A/NA1S14	23B	12/05/2020 12:00	02/06/2020 12:00	504.00	0.75	21.4	11.1	
MIDUL/20A/NA1S15	23C	12/05/2020 12:00	02/06/2020 12:00	504.00	0.91	25.9	13.5	
MIDUL/20A/NA1S16	11A	12/05/2020 12:00	02/06/2020 12:00	504.00	1.17	33.4	17.4	Rec'd with NA2
MIDUL/20A/NA1S17	11B	12/05/2020 12:00	02/06/2020 12:00	504.00	1.25	35.5	18.4	Rec'd with NA2

MIDUL/20A/NA1S18	11C	12/05/2020 12:00	02/06/2020 12:00	504.00	1	28.6	14.9	Rec'd with NA2

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA1S19	ARDFANNON	06/05/2020 13:15	04/06/2020 12:00	694.75	0.38	7.8	4.1	
MIDUL/20A/NA1S20	NEWELL RD 1	06/05/2020 13:15	04/06/2020 12:00	694.75	2.38	49.1	25.5	
MIDUL/20A/NA1S21	NEWELL RD 2	06/05/2020 13:15	04/06/2020 12:00	694.75	2.43	50.1	26.1	
MIDUL/20A/NA1S22	NEWELL RD 3	06/05/2020 13:15	04/06/2020 12:00	694.75	2.51	51.7	26.9	
MIDUL/20A/NA1S23	DUNCLARE WAY	06/05/2020 13:00	04/06/2020 11:45	694.75	0.33	6.8	3.5	
MIDUL/20A/NA1S24	THE QUAYS 1	06/05/2020 12:45	04/06/2020 09:45	693.00	0.37	7.7	4	

MIDUL/20A/NA1S25	THE QUAYS 2	06/05/2020 12:45	04/06/2020 09:45	693.00	0.32	6.7	3.5	
MIDUL/20A/NA1S26	THE QUAYS 3	06/05/2020 12:45	04/06/2020 09:45	693.00	0.35	7.2	3.8	
MIDUL/20A/NA1S27	CHARLEMONT ST 1	06/05/2020 12:45	04/06/2020 09:45	693.00	2.52	52	27.1	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA1S28	CHARLEMONT ST2							Missing
MIDUL/20A/NA1S29	CHARLEMONT ST 3	06/05/2020 12:45	04/06/2020 09:45	693.00	2.72	56.2	29.2	
MIDUL/20A/NA1S30	KILLYMAN ST1	06/05/2020 12:45	04/06/2020 09:45	693.00	1.2	24.7	12.9	
MIDUL/20A/NA1S31	KILLYMAN ST2	06/05/2020 12:45	04/06/2020 09:45	693.00	1.2	24.8	12.9	

MIDUL/20A/NA1S32	KILLYMAN ST3	06/05/2020 12:45	04/06/2020 09:45	693.00	1.16	24.1	12.5	
MIDUL/20A/NA1S33		01/05/2020 10:00	01/06/2020 10:00	744.00	1.34	25.9	13.5	
MIDUL/20A/NA1S34		01/05/2020 10:15	01/06/2020 10:15	744.00	1.16	22.4	11.7	
MIDUL/20A/NA1S35		01/05/2020 10:30	01/06/2020 10:30	744.00	0.56	10.9	5.6	
MIDUL/20A/NA1S36		01/05/2020 10:45	01/06/2020 10:45	744.00	1.52	29.2	15.2	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA1S37		01/05/2020 11:00	01/06/2020 11:00	744.00	1.13	21.8	11.3	

MIDUL/20A/NA1S38								Missing
MIDUL/20A/NA1S39		01/05/2020 11:30	01/06/2020 11:30	744.00	1.05	20.3	10.6	
MIDUL/20A/NA1S40		01/05/2020 11:45	01/06/2020 11:45	744.00	1.21	23.3	12.1	
MIDUL/20A/NA1S41	24A	12/05/2020 12:00	02/06/2020 12:00	504.00	0.27	7.8	4.1	
MIDUL/20A/NA1S42	24B	12/05/2020 12:00	02/06/2020 12:00	504.00	0.26	7.3	3.8	
MIDUL/20A/NA1S43	24C	12/05/2020 12:00	02/06/2020 12:00	504.00	0.3	8.7	4.5	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA1S37		01/05/2020 11:00	01/06/2020 11:00	744.00	1.13	21.8	11.3	
MIDUL/20A/NA1S38								Missing
MIDUL/20A/NA1S39		01/05/2020 11:30	01/06/2020 11:30	744.00	1.05	20.3	10.6	
MIDUL/20A/NA1S40		01/05/2020 11:45	01/06/2020 11:45	744.00	1.21	23.3	12.1	
MIDUL/20A/NA1S41	24A	12/05/2020 12:00	02/06/2020 12:00	504.00	0.27	7.8	4.1	
MIDUL/20A/NA1S42	24B	12/05/2020 12:00	02/06/2020 12:00	504.00	0.26	7.3	3.8	

MIDUL/20A/NA1S43	24C	12/05/2020 12:00	02/06/2020 12:00	504.00	0.3	8.7	4.5	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA2S1	9A	02/06/2020 12:00	30/06/2020 12:00	672.00	1.35	28.8	15	
MIDUL/20A/NA2S2	9B	02/06/2020 12:00	30/06/2020 12:00	672.00	1.47	31.3	16.3	
MIDUL/20A/NA2S3	9C	02/06/2020 12:00	30/06/2020 12:00	672.00	1.3	27.7	14.4	
MIDUL/20A/NA2S4	2A	02/06/2020 12:00	30/06/2020 12:00	672.00	1.39	29.6	15.4	
MIDUL/20A/NA2S5	2B	02/06/2020 12:00	30/06/2020 12:00	672.00	1.59	33.8	17.6	
MIDUL/20A/NA2S6	2C	02/06/2020 12:00	30/06/2020 12:00	672.00	1.58	33.6	17.5	

MIDUL/20A/NA2S7	10A	02/06/2020 12:00	30/06/2020 12:00	672.00	1.9	40.4	21	
MIDUL/20A/NA2S8	10B	02/06/2020 12:00	30/06/2020 12:00	672.00	1.68	35.8	18.6	
MIDUL/20A/NA2S9	10C	02/06/2020 12:00	30/06/2020 12:00	672.00	1.69	36	18.7	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA2S10	13A	02/06/2020 12:00	30/06/2020 12:00	672.00	0.64	13.7	7.1	
MIDUL/20A/NA2S11	13B	02/06/2020 12:00	30/06/2020 12:00	672.00	0.59	12.6	6.6	
MIDUL/20A/NA2S12	13C	02/06/2020 12:00	30/06/2020 12:00	672.00	0.58	12.3	6.4	
MIDUL/20A/NA2S13	23A	02/06/2020 12:00	30/06/2020 12:00	672.00	0.04	0.9	0.5	Rec'd with NA1

MIDUL/20A/NA2S14	23B	02/06/2020 12:00	30/06/2020 12:00	672.00	0.04	0.9	0.4	Rec'd with NA1
MIDUL/20A/NA2S15	23C	02/06/2020 12:00	30/06/2020 12:00	672.00	0.03	0.7	0.4	Rec'd with NA1
MIDUL/20A/NA2S16	11A	02/06/2020 12:00	30/06/2020 12:00	672.00	0.04	0.8	0.4	Rec'd with NA1
MIDUL/20A/NA2S17	11B	02/06/2020 12:00	30/06/2020 12:00	672.00	0.04	0.8	0.4	Rec'd with NA1
MIDUL/20A/NA2S18	11C	02/06/2020 12:00	30/06/2020 12:00	672.00	<0.03	<0.6	<0.3	Rec'd with NA1

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA2S19	Ardgannon							Missing

MIDUL/20A/NA2S20	Newell Rd 1				2.72			No Exposure time given
MIDUL/20A/NA2S21	Newell Rd 2	04/06/2020 12:00	01/07/2020 15:30	651.50	2.75	60.6	31.5	
MIDUL/20A/NA2S22	Newell Rd 3	04/06/2020 12:00	01/07/2020 15:30	651.50	2.58	56.7	29.5	
MIDUL/20A/NA2S23	Dunclare Way	04/06/2020 11:45	01/07/2020 15:15	651.50	0.27	6	3.1	
MIDUL/20A/NA2S24	The Quays 1	04/06/2020 09:45	01/07/2020 14:00	652.25	0.38	8.3	4.3	
MIDUL/20A/NA2S25	The Quays 2	04/06/2020 09:45	01/07/2020 14:00	652.25	0.36	7.9	4.1	
MIDUL/20A/NA2S26	The Quays 3	04/06/2020 09:45	01/07/2020 14:00	652.25	0.35	7.6	4	
MIDUL/20A/NA2S27	Charlemount St 1	04/06/2020 09:45	01/07/2020 14:00	652.25	2.55	56	29.1	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA2S28	Charlemount St 2	04/06/2020 09:45	01/07/2020 14:00	652.25	2.41	53	27.5	
MIDUL/20A/NA2S29	Charlemount St 3	04/06/2020 09:45	01/07/2020 14:00	652.25	2.54	55.7	29	
MIDUL/20A/NA2S30	Killyman St 1	04/06/2020 09:45	01/07/2020 14:00	652.25	1.03	22.6	11.7	
MIDUL/20A/NA2S31	Killyman St 2	04/06/2020 09:45	01/07/2020 14:00	652.25	1.06	23.2	12.1	
MIDUL/20A/NA2S32	Killyman St 3	04/06/2020 09:45	01/07/2020 14:00	652.25	1.08	23.8	12.4	
MIDUL/20A/NA2S33	Lawford St Moneymore	01/06/2020 10:00	01/07/2020 10:00	720.00	1.38	27.4	14.3	
MIDUL/20A/NA2S34	Smith St Moneymore	01/06/2020 10:15	01/07/2020 10:15	720.00	1.05	20.9	10.9	
MIDUL/20A/NA2S35	Conyngham St Moneymore	01/06/2020 10:30	01/07/2020 10:30	720.00	0.48	9.5	4.9	
MIDUL/20A/NA2S36	Stonard St Moneymore	01/06/2020 10:45	01/07/2020 10:45	720.00	1.52	30.3	15.8	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA2S37	William St Cookstown	01/06/2020 11:00	01/07/2020 11:00	720.00	1.17	23.4	12.1	
MIDUL/20A/NA2S38	Killymoon St Cookstown							Missing
MIDUL/20A/NA2S39	Church St Cookstown	01/06/2020 11:30	01/07/2020 11:30	720.00	0.98	19.4	10.1	
MIDUL/20A/NA2S40	James St Cookstown	01/06/2020 11:45	01/07/2020 11:45	720.00	1.26	25	13	
MIDUL/20A/NA2S41	24A	02/06/2020 12:00	30/06/2020 12:00	672.00	0.27	5.8	3	
MIDUL/20A/NA2S42	24B	02/06/2020 12:00	30/06/2020 12:00	672.00	0.3	6.3	3.3	
MIDUL/20A/NA2S43	24C	02/06/2020 12:00	30/06/2020 12:00	672.00	0.26	5.5	2.9	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA3S1	9A	30/06/2020 12:00	04/08/2020 12:00	840.00	1.27	21.7	11.3	
MIDUL/20A/NA3S2	9B	30/06/2020 12:00	04/08/2020 12:00	840.00	1.5	25.6	13.3	
MIDUL/20A/NA3S3	9C	30/06/2020 12:00	04/08/2020 12:00	840.00	1.29	22.1	11.5	
MIDUL/20A/NA3S4	2A	30/06/2020 12:00	04/08/2020 12:00	840.00	1.78	30.3	15.8	
MIDUL/20A/NA3S5	2B	30/06/2020 12:00	04/08/2020 12:00	840.00	1.62	27.7	14.4	

MIDUL/20A/NA3S6	2C	30/06/2020 12:00	04/08/2020 12:00	840.00	1.61	27.5	14.3	
MIDUL/20A/NA3S7	10A	30/06/2020 12:00	04/08/2020 12:00	840.00	1.91	32.6	16.9	
MIDUL/20A/NA3S8	10B							*Missing*
MIDUL/20A/NA3S9	10C	30/06/2020 12:00	04/08/2020 12:00	840.00	1.52	25.9	13.5	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA3S10	13A	30/06/2020 12:00	04/08/2020 12:00	840.00	0.89	15.1	7.9	
MIDUL/20A/NA3S11	13B	30/06/2020 12:00	04/08/2020 12:00	840.00	0.82	13.9	7.2	
MIDUL/20A/NA3S12	13C	30/06/2020 12:00	04/08/2020 12:00	840.00	0.98	16.6	8.7	

MIDUL/20A/NA3S13	23A	30/06/2020 12:00	04/08/2020 12:00	840.00	1.22	20.8	10.8	
MIDUL/20A/NA3S14	23B	30/06/2020 12:00	04/08/2020 12:00	840.00	1.2	20.6	10.7	
MIDUL/20A/NA3S15	23C	30/06/2020 12:00	04/08/2020 12:00	840.00	1.35	23	12	
MIDUL/20A/NA3S16	11A	30/06/2020 12:00	04/08/2020 12:00	840.00	0.91	15.6	8.1	
MIDUL/20A/NA3S17	11B	30/06/2020 12:00	04/08/2020 12:00	840.00	0.97	16.6	8.6	
MIDUL/20A/NA3S18	11C	30/06/2020 12:00	04/08/2020 12:00	840.00	0.87	14.8	7.7	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA3S19	Ardgannon	01/07/2020 15:30	04/08/2020 12:15	812.75	0.52	9.1	4.7	

MIDUL/20A/NA3S20	Newell Rd 1	01/07/2020 15:30	04/08/2020 12:15	812.75	2.7	47.7	24.8	
MIDUL/20A/NA3S21	Newell Rd 2	01/07/2020 15:30	04/08/2020 12:15	812.75	2.93	51.7	26.9	
MIDUL/20A/NA3S22	Newell Rd 3	01/07/2020 15:30	04/08/2020 12:15	812.75	2.94	51.8	26.9	
MIDUL/20A/NA3S23	Dunclare Way	01/07/2020 15:15	04/08/2020 12:00	812.75	0.31	5.4	2.8	
MIDUL/20A/NA3S24	The Quays 1	01/07/2020 14:00	04/08/2020 11:45	813.75	0.32	5.7	3	
MIDUL/20A/NA3S25	The Quays 2	01/07/2020 14:00	04/08/2020 11:45	813.75	0.31	5.5	2.9	
MIDUL/20A/NA3S26	The Quays 3	01/07/2020 14:00	04/08/2020 11:45	813.75	0.28	5	2.6	
MIDUL/20A/NA3S27	Charlemount St 1	01/07/2020 14:00	04/08/2020 11:45	813.75	3.38	59.6	31	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA3S28	Charlemount St 2	01/07/2020 14:00	04/08/2020 11:45	813.75	3.53	62.1	32.3	
MIDUL/20A/NA3S29	Charlemount St 3	01/07/2020 14:00	04/08/2020 11:45	813.75	3.23	56.8	29.6	
MIDUL/20A/NA3S30	Killyman St 1	01/07/2020 14:00	04/08/2020 11:45	813.75	1.24	21.8	11.3	
MIDUL/20A/NA3S31	Killyman St 2	01/07/2020 14:00	04/08/2020 11:45	813.75	1.09	19.1	9.9	
MIDUL/20A/NA3S32	Killyman St 3	01/07/2020 14:00	04/08/2020 11:45	813.75	1.15	20.2	10.5	
MIDUL/20A/NA3S33	Lawford St Moneymore	01/07/2020 10:00	06/08/2020 10:00	864.00	1.76	29.2	15.2	
MIDUL/20A/NA3S34	Smith St Moneymore	01/07/2020 10:15	06/08/2020 10:15	864.00	1.1	18.2	9.5	
MIDUL/20A/NA3S35	Conyngham St Moneymore	01/07/2020 10:30	06/08/2020 10:30	864.00	0.62	10.3	5.4	
MIDUL/20A/NA3S36	Stonard St Moneymore	01/07/2020 10:45	06/08/2020 10:45	864.00	1.69	28	14.5	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA3S37	William St Cookstown	01/07/2020 11:00	06/08/2020 11:00	864.00	0.99	16.4	8.5	
MIDUL/20A/NA3S38	Killymoon St Cookstown	01/07/2020 11:15	06/08/2020 11:15	864.00	1.03	17.1	8.9	
MIDUL/20A/NA3S39	Church St Cookstown	01/07/2020 11:30	06/08/2020 11:30	864.00	0.94	15.5	8.1	
MIDUL/20A/NA3S40	James St Cookstown	01/07/2020 11:45	06/08/2020 11:45	864.00	1.61	26.6	13.9	
MIDUL/20A/NA3S41	24A	30/06/2020 12:00	04/08/2020 12:00	840.00	0.31	5.3	2.8	
MIDUL/20A/NA3S42	24B	30/06/2020 12:00	04/08/2020 12:00	840.00	0.31	5.2	2.7	
MIDUL/20A/NA3S43	24C	30/06/2020 12:00	04/08/2020 12:00	840.00	0.29	4.9	2.5	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA4S1	9A	04/08/2020 12:00	03/09/2020 12:00	720.00	1.63	32.5	16.9	
MIDUL/20A/NA4S2	9B	04/08/2020 12:00	03/09/2020 12:00	720.00	1.41	28.1	14.6	
MIDUL/20A/NA4S3	9C	04/08/2020 12:00	03/09/2020 12:00	720.00	1.44	28.6	14.9	
MIDUL/20A/NA4S4	2A	04/08/2020 12:00	03/09/2020 12:00	720.00	1.9	37.9	19.7	
MIDUL/20A/NA4S5	2B	04/08/2020 12:00	03/09/2020 12:00	720.00	1.74	34.7	18	

MIDUL/20A/NA4S6	2C	04/08/2020 12:00	03/09/2020 12:00	720.00	1.92	38.2	19.9	
MIDUL/20A/NA4S7	10A	04/08/2020 12:00	03/09/2020 12:00	720.00	1.96	38.9	20.3	
MIDUL/20A/NA4S8	10B	04/08/2020 12:00	03/09/2020 12:00	720.00	1.92	38.1	19.8	
MIDUL/20A/NA4S9	10C	04/08/2020 12:00	03/09/2020 12:00	720.00	1.94	38.6	20	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA4S10	13A	04/08/2020 12:00	03/09/2020 12:00	720.00	0.77	15.3	8	
MIDUL/20A/NA4S11	13B	04/08/2020 12:00	03/09/2020 12:00	720.00	0.78	15.4	8	
MIDUL/20A/NA4S12	13C	04/08/2020 12:00	03/09/2020 12:00	720.00	0.76	15.2	7.9	

MIDUL/20A/NA4S13	23A	04/08/2020 12:00	03/09/2020 12:00	720.00	1.5	29.9	15.5	
MIDUL/20A/NA4S14	23B	04/08/2020 12:00	03/09/2020 12:00	720.00	1.43	28.6	14.9	
MIDUL/20A/NA4S15	23C	04/08/2020 12:00	03/09/2020 12:00	720.00	1.21	24.1	12.5	
MIDUL/20A/NA4S16	11A	04/08/2020 12:00	03/09/2020 12:00	720.00	0.95	18.9	9.8	
MIDUL/20A/NA4S17	11B	04/08/2020 12:00	03/09/2020 12:00	720.00	0.89	17.7	9.2	
MIDUL/20A/NA4S18	11C	04/08/2020 12:00	03/09/2020 12:00	720.00	0.87	17.2	9	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA4S19	Ardgannon	04/08/2020 12:15	05/09/2020 15:15	771.00	0.45	8.4	4.4	

MIDUL/20A/NA4S20	Newell Rd 1	04/08/2020 12:15	05/09/2020 15:15	771.00	3.17	59	30.7	
MIDUL/20A/NA4S21	Newell Rd 2	04/08/2020 12:15	04/09/2020 15:45	747.50	3.27	62.7	32.6	
MIDUL/20A/NA4S22	Newell Rd 3	04/08/2020 12:15	04/09/2020 15:45	747.50	2.67	51.2	26.6	
MIDUL/20A/NA4S23	Dunclare Way	04/08/2020 12:00	04/09/2020 15:00	747.00	0.37	7	3.7	
MIDUL/20A/NA4S24	The Quays 1	04/08/2020 11:45	04/09/2020 14:30	746.75	0.39	7.4	3.8	
MIDUL/20A/NA4S25	The Quays 2	04/08/2020 11:45	04/09/2020 14:30	746.75	0.56	10.8	5.6	
MIDUL/20A/NA4S26	The Quays 3	04/08/2020 11:45	04/09/2020 14:30	746.75	0.43	8.2	4.3	
MIDUL/20A/NA4S27	Charlemount St 1	04/08/2020 11:45	04/09/2020 14:30	746.75	2.49	47.8	24.9	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA4S28	Charlemount St 2	04/08/2020 11:45	04/09/2020 14:30	746.75	2.88	55.3	28.8	
MIDUL/20A/NA4S29	Charlemount St 3	04/08/2020 11:45	04/09/2020 14:30	746.75	2.8	53.7	27.9	
MIDUL/20A/NA4S30	Killyman St 1	04/08/2020 11:45	04/09/2020 14:30	746.75	1.34	25.7	13.4	
MIDUL/20A/NA4S31	Killyman St 2	04/08/2020 11:45	04/09/2020 14:30	746.75	1.38	26.5	13.8	
MIDUL/20A/NA4S32	Killyman St 3	04/08/2020 11:45	04/09/2020 14:30	746.75	1.42	27.3	14.2	
MIDUL/20A/NA4S33	Lawford St Moneymore	06/08/2020 10:00	04/09/2020 10:00	696.00	1.37	28.2	14.7	
MIDUL/20A/NA4S34	Smith St Moneymore	06/08/2020 10:15	04/09/2020 10:15	696.00	1.23	25.4	13.2	
MIDUL/20A/NA4S35	Conyngham St Moneymore	06/08/2020 10:30	04/09/2020 10:30	696.00	0.52	10.6	5.5	
MIDUL/20A/NA4S36	Stonard St Moneymore	06/08/2020 10:45	04/09/2020 10:45	696.00	1.62	33.4	17.3	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA4S37	William St Cookstwon	06/08/2020 11:00	04/09/2020 11:00	696.00	1.23	25.3	13.1	
MIDUL/20A/NA4S38	Lillymoon St Cookstown	06/08/2020 11:15	04/09/2020 11:15	696.00	0.77	15.9	8.3	
MIDUL/20A/NA4S39	Church St Cookstown	06/08/2020 11:30	04/09/2020 11:30	696.00	1.11	22.9	11.9	
MIDUL/20A/NA4S40	James St Cookstown	06/08/2020 11:45	04/09/2020 11:45	696.00	1.32	27.2	14.1	
MIDUL/20A/NA4S41	24A	04/08/2020 12:00	03/09/2020 12:00	720.00	0.37	7.4	3.8	
MIDUL/20A/NA4S42	24B	04/08/2020 12:00	03/09/2020 12:00	720.00	0.36	7.1	3.7	
MIDUL/20A/NA4S43	24C	04/08/2020 12:00	03/09/2020 12:00	720.00	0.36	7.2	3.7	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA5S1	9A	03/09/2020 12:00	29/09/2020 12:00	624.00	1.39	31.9	16.6	
MIDUL/20A/NA5S2	9B	03/09/2020 12:00	29/09/2020 12:00	624.00	1.44	33.2	17.2	
MIDUL/20A/NA5S3	9C	03/09/2020 12:00	29/09/2020 12:00	624.00	1.52	34.8	18.1	
MIDUL/20A/NA5S4	2A	03/09/2020 12:00	29/09/2020 12:00	624.00	1.73	39.7	20.6	
MIDUL/20A/NA5S5	2B	03/09/2020 12:00	29/09/2020 12:00	624.00	1.74	40	20.8	

MIDUL/20A/NA5S6	2C	03/09/2020 12:00	29/09/2020 12:00	624.00	1.77	40.6	21.1	
MIDUL/20A/NA5S7	10A	03/09/2020 12:00	29/09/2020 12:00	624.00	1.74	40.1	20.8	
MIDUL/20A/NA5S8	10B	03/09/2020 12:00	29/09/2020 12:00	624.00	1.69	38.7	20.1	
MIDUL/20A/NA5S9	10C	03/09/2020 12:00	29/09/2020 12:00	624.00	1.82	41.9	21.8	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA5S10	13A	03/09/2020 12:00	29/09/2020 12:00	624.00	0.98	22.5	11.7	
MIDUL/20A/NA5S11	13B	03/09/2020 12:00	29/09/2020 12:00	624.00	0.84	19.3	10	
MIDUL/20A/NA5S12	13C	03/09/2020 12:00	29/09/2020 12:00	624.00	0.87	19.9	10.3	

MIDUL/20A/NA5S13	23A	03/09/2020 12:00	29/09/2020 12:00	624.00	1.32	30.2	15.7	
MIDUL/20A/NA5S14	23B	03/09/2020 12:00	29/09/2020 12:00	624.00	1.35	31	16.1	
MIDUL/20A/NA5S15	23C	03/09/2020 12:00	29/09/2020 12:00	624.00	1.46	33.5	17.4	
MIDUL/20A/NA5S16	11A	03/09/2020 12:00	29/09/2020 12:00	624.00	1.14	26.1	13.6	
MIDUL/20A/NA5S17	11B	03/09/2020 12:00	29/09/2020 12:00	624.00	1	23.1	12	
MIDUL/20A/NA5S18	11C	03/09/2020 12:00	29/09/2020 12:00	624.00	1.01	23.1	12	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA5S19	Ardgannon	04/09/2020 15:45	02/10/2020 13:00	669.25	0.56	12	6.2	

MIDUL/20A/NA5S20	Newell Rd 1	04/09/2020 15:45	02/10/2020 13:00	669.25	3.19	68.3	35.5	
MIDUL/20A/NA5S21	Newell Rd 2	04/09/2020 15:45	02/10/2020 13:00	669.25	3.05	65.4	34	
MIDUL/20A/NA5S22	Newell Rd 3	04/09/2020 15:45	02/10/2020 13:00	669.25	3.24	69.4	36.1	
MIDUL/20A/NA5S23	Dunclare Way	04/09/2020 15:00	02/10/2020 12:45	669.75	0.42	9.1	4.7	
MIDUL/20A/NA5S24	The Quays 1	04/09/2020 14:30	02/10/2020 12:30	670.00	0.47	10	5.2	
MIDUL/20A/NA5S25	The Quays 2	04/09/2020 14:30	02/10/2020 12:30	670.00	0.4	8.5	4.4	
MIDUL/20A/NA5S26	The Quays 3	04/09/2020 14:30	02/10/2020 12:30	670.00	0.42	9	4.7	
MIDUL/20A/NA5S27	Charlemount St 1	04/09/2020 14:30	02/10/2020 12:30	670.00	2.91	62.3	32.4	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA5S28	Charlemount St 2	04/09/2020 14:30	02/10/2020 12:30	670.00	2.85	61	31.7	
MIDUL/20A/NA5S29	Charlemount St 3	04/09/2020 14:30	02/10/2020 12:30	670.00	3.05	65.2	33.9	
MIDUL/20A/NA5S30	Killyman St 1	04/09/2020 14:30	02/10/2020 12:30	670.00	1.45	30.9	16.1	
MIDUL/20A/NA5S31	Killyman St 2	04/09/2020 14:30	02/10/2020 12:30	670.00	1.25	26.7	13.9	
MIDUL/20A/NA5S32	Killyman St 3	04/09/2020 14:30	02/10/2020 12:30	670.00	1.4	29.9	15.6	
MIDUL/20A/NA5S33	Lawford St Moneymore	04/09/2020 10:00	01/10/2020 10:00	648.00	1.47	32.6	16.9	
MIDUL/20A/NA5S34	Smith St Moneymore	04/09/2020 10:15	01/10/2020 10:15	648.00	1.25	27.6	14.4	
MIDUL/20A/NA5S35	Conyngham St Moneymore	04/09/2020 10:30	01/10/2020 10:30	648.00	0.68	15.1	7.8	
MIDUL/20A/NA5S36	Stonard St Moneymore	04/09/2020 10:45	01/10/2020 10:45	648.00	1.77	39.1	20.3	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA5S37	William St Cookstwon	04/09/2020 11:00	01/10/2020 11:00	648.00	1.16	25.6	13.3	
MIDUL/20A/NA5S38	Lillymoon St Cookstown	04/09/2020 11:15	01/10/2020 11:15	648.00	1.08	23.8	12.4	
MIDUL/20A/NA5S39	Church St Cookstown	04/09/2020 11:30	01/10/2020 11:30	648.00	1.16	25.7	13.4	
MIDUL/20A/NA5S40	James St Cookstown	04/09/2020 11:45	01/10/2020 11:45	648.00	1.51	33.3	17.3	
MIDUL/20A/NA5S41	24A	03/09/2020 12:00	29/09/2020 12:00	624.00	0.45	10.3	5.3	
MIDUL/20A/NA5S42	24B	03/09/2020 12:00	29/09/2020 12:00	624.00	0.48	11	5.7	
MIDUL/20A/NA5S43	24C	03/09/2020 12:00	29/09/2020 12:00	624.00	0.46	10.5	5.5	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA6S1	9A	29/09/2020 12:00	05/11/2020 12:00	888.00	2.1	34	17.7	
MIDUL/20A/NA6S2	9B	29/09/2020 12:00	05/11/2020 12:00	888.00	2.15	34.7	18	
MIDUL/20A/NA6S3	9C	29/09/2020 12:00	05/11/2020 12:00	888.00	2.24	36.2	18.8	
MIDUL/20A/NA6S4	2A	29/09/2020 12:00	05/11/2020 12:00	888.00	2.56	41.3	21.5	
MIDUL/20A/NA6S5	2B	29/09/2020 12:00	05/11/2020 12:00	888.00	2.7	43.6	22.7	

MIDUL/20A/NA6S6	2C	29/09/2020 12:00	05/11/2020 12:00	888.00	2.58	41.6	21.6	
MIDUL/20A/NA6S7	10A	29/09/2020 12:00	05/11/2020 12:00	888.00	2.25	36.4	18.9	
MIDUL/20A/NA6S8	10B	29/09/2020 12:00	05/11/2020 12:00	888.00	2.68	43.3	22.5	
MIDUL/20A/NA6S9	10C	29/09/2020 12:00	05/11/2020 12:00	888.00	2.55	41.1	21.4	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA6S10	13A	29/09/2020 12:00	05/11/2020 12:00	888.00	1.38	22.2	11.6	
MIDUL/20A/NA6S11	13B							MISSING
MIDUL/20A/NA6S12	13C							MISSING

MIDUL/20A/NA6S13	23A	29/09/2020 12:00	05/11/2020 12:00	888.00	1.87	30.1	15.7	
MIDUL/20A/NA6S14	23B	29/09/2020 12:00	05/11/2020 12:00	888.00	1.88	30.4	15.8	
MIDUL/20A/NA6S15	23C	29/09/2020 12:00	05/11/2020 12:00	888.00	1.85	29.9	15.5	
MIDUL/20A/NA6S16	11A	29/09/2020 12:00	05/11/2020 12:00	888.00	1.22	19.6	10.2	
MIDUL/20A/NA6S17	11B	29/09/2020 12:00	05/11/2020 12:00	888.00	1.44	23.3	12.1	
MIDUL/20A/NA6S18	11C	29/09/2020 12:00	05/11/2020 12:00	888.00	1.52	24.6	12.8	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA6S19	Ardgannon	02/10/2020 13:00	06/11/2020 13:00	840.00	0.73	12.4	6.5	

MIDUL/20A/NA6S20	Newell Rd 1	02/10/2020 13:00	06/11/2020 13:00	840.00	3.39	57.8	30.1	
MIDUL/20A/NA6S21	Newell Rd 2	02/10/2020 13:00	06/11/2020 13:00	840.00	3.39	57.8	30.1	
MIDUL/20A/NA6S22	Newell Rd 3	02/10/2020 13:00	06/11/2020 13:00	840.00	3.6	61.5	32	
MIDUL/20A/NA6S23	Dunclare Way	02/10/2020 12:45	06/11/2020 12:30	839.75	0.54	9.2	4.8	
MIDUL/20A/NA6S24	The Quays 1	02/10/2020 12:30	06/11/2020 12:00	839.50	0.57	9.7	5	
MIDUL/20A/NA6S25	The Quays 2	02/10/2020 12:30	06/11/2020 12:00	839.50	0.59	10.1	5.2	
MIDUL/20A/NA6S26	The Quays 3	02/10/2020 12:30	06/11/2020 12:00	839.50	0.6	10.2	5.3	
MIDUL/20A/NA6S27	Charlemount St 1	02/10/2020 12:30	06/11/2020 12:00	839.50	3.65	62.4	32.4	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA6S28	Charlemount St 2	02/10/2020 12:30	06/11/2020 12:00	839.50	3.69	62.9	32.7	
MIDUL/20A/NA6S29	Charlemount St 3	02/10/2020 12:30	06/11/2020 12:00	839.50	3.9	66.6	34.6	
MIDUL/20A/NA6S30	Killyman St 1	02/10/2020 12:30	06/11/2020 12:00	839.50	1.59	27.1	14.1	
MIDUL/20A/NA6S31	Killyman St 2	02/10/2020 12:30	06/11/2020 12:00	839.50	1.45	24.7	12.8	
MIDUL/20A/NA6S32	Killyman St 3	02/10/2020 12:30	06/11/2020 12:00	839.50	1.57	26.8	14	
MIDUL/20A/NA6S33	Lawford St Moneymore	01/10/2020 10:00	06/11/2020 14:00	868.00	2.23	36.9	19.2	
MIDUL/20A/NA6S34	Smith St Moneymore	01/10/2020 10:15	06/11/2020 14:15	868.00	1.44	23.7	12.3	
MIDUL/20A/NA6S35	Conyngham St Moneymore	01/10/2020 10:30	06/11/2020 14:30	868.00	0.9	14.8	7.7	
MIDUL/20A/NA6S36	Stonard St Moneymore	01/10/2020 10:45	06/11/2020 14:45	868.00	2.04	33.7	17.5	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA6S37	William St Cookstwon	01/10/2020 11:00	06/11/2020 15:00	868.00	1.64	27.2	14.1	
MIDUL/20A/NA6S38	Lillymoon St Cookstown	01/10/2020 11:15	06/11/2020 15:15	868.00	1.47	24.2	12.6	
MIDUL/20A/NA6S39	Church St Cookstown	01/10/2020 11:30	06/11/2020 15:30	868.00	1.56	25.8	13.4	
MIDUL/20A/NA6S40	James St Cookstown	01/10/2020 11:45	06/11/2020 15:45	868.00	2.05	33.9	17.6	
MIDUL/20A/NA6S41	24A	29/09/2020 12:00	05/11/2020 12:00	888.00	0.7	11.3	5.9	
MIDUL/20A/NA6S42	24B	29/09/2020 12:00	05/11/2020 12:00	888.00	0.65	10.5	5.5	
MIDUL/20A/NA6S43	24C	29/09/2020 12:00	05/11/2020 12:00	888.00	0.6	9.7	5.1	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA7S1	9A	05/11/2020 12:00	03/12/2020 12:00	672.00	1.89	40.3	21	
MIDUL/20A/NA7S2	9B	05/11/2020 12:00	03/12/2020 12:00	672.00	1.5	32	16.6	
MIDUL/20A/NA7S3	9C	05/11/2020 12:00	03/12/2020 12:00	672.00	1.64	35	18.2	
MIDUL/20A/NA7S4	2A	05/11/2020 12:00	03/12/2020 12:00	672.00	1.92	41	21.3	
MIDUL/20A/NA7S5	2B	05/11/2020 12:00	03/12/2020 12:00	672.00	1.92	41	21.3	

MIDUL/20A/NA7S6	2C	05/11/2020 12:00	03/12/2020 12:00	672.00	1.67	35.7	18.6	
MIDUL/20A/NA7S7	10A	05/11/2020 12:00	03/12/2020 12:00	672.00	1.67	35.7	18.5	
MIDUL/20A/NA7S8	10B	05/11/2020 12:00	03/12/2020 12:00	672.00	1.95	41.7	21.7	
MIDUL/20A/NA7S9	10C	05/11/2020 12:00	03/12/2020 12:00	672.00	2.08	44.5	23.1	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA7S10	13A	05/11/2020 12:00	03/12/2020 12:00	672.00	1.36	29	15.1	
MIDUL/20A/NA7S11	13B	05/11/2020 12:00	03/12/2020 12:00	672.00	1.09	23.3	12.1	
MIDUL/20A/NA7S12	13C	05/11/2020 12:00	03/12/2020 12:00	672.00	1.27	27.2	14.1	

MIDUL/20A/NA7S13	23A	05/11/2020 12:00	03/12/2020 12:00	672.00	1.74	37.2	19.3	
MIDUL/20A/NA7S14	23B	05/11/2020 12:00	03/12/2020 12:00	672.00	1.65	35.1	18.3	
MIDUL/20A/NA7S15	23C	05/11/2020 12:00	03/12/2020 12:00	672.00	1.99	42.4	22	
MIDUL/20A/NA7S16	11A	05/11/2020 12:00	03/12/2020 12:00	672.00	1.49	31.7	16.5	
MIDUL/20A/NA7S17	11B	05/11/2020 12:00	03/12/2020 12:00	672.00	1.55	33.1	17.2	
MIDUL/20A/NA7S18	11C	05/11/2020 12:00	03/12/2020 12:00	672.00	1.5	32.1	16.7	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA7S19	Ardgannon	06/11/2020 13:00	04/12/2020 09:45	668.75	0.85	18.2	9.5	

MIDUL/20A/NA7S20	Newell Rd 1	06/11/2020 13:00	04/12/2020 09:30	668.50	2.21	47.4	24.7	
MIDUL/20A/NA7S21	Newell Rd 2	06/11/2020 13:00	04/12/2020 09:30	668.50	2.56	55	28.6	
MIDUL/20A/NA7S22	Newell Rd 3	06/11/2020 13:00	04/12/2020 09:30	668.50	2.76	59.3	30.8	
MIDUL/20A/NA7S23	Dunclare Way	06/11/2020 12:30	04/12/2020 09:30	669.00	0.63	13.5	7	
MIDUL/20A/NA7S24	The Quays 1	06/11/2020 12:00	03/12/2020 14:45	650.75	0.54	12	6.2	
MIDUL/20A/NA7S25	The Quays 2	06/11/2020 12:00	03/12/2020 14:45	650.75	0.47	10.4	5.4	
MIDUL/20A/NA7S26	The Quays 3	06/11/2020 12:00	03/12/2020 14:45	650.75	0.5	11	5.7	
MIDUL/20A/NA7S27	Charlemount St 1	06/11/2020 12:00	03/12/2020 14:45	650.75	3.23	71.1	37	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA7S28	Charlemount St 2	06/11/2020 12:00	03/12/2020 14:45	650.75	3.06	67.4	35.1	
MIDUL/20A/NA7S29	Charlemount St 3	06/11/2020 12:00	03/12/2020 14:45	650.75	2.99	65.8	34.2	
MIDUL/20A/NA7S30	Killyman St 1	06/11/2020 12:00	03/12/2020 14:45	650.75	1.47	32.3	16.8	
MIDUL/20A/NA7S31	Killyman St 2	06/11/2020 12:00	03/12/2020 14:45	650.75	1.53	33.8	17.6	
MIDUL/20A/NA7S32	Killyman St 3	06/11/2020 12:00	03/12/2020 14:45	650.75	1.38	30.5	15.9	
MIDUL/20A/NA7S33	Lawford St Moneymore	06/11/2020 14:00	03/12/2020 10:00	644.00	1.82	40.6	21.1	
MIDUL/20A/NA7S34	Smith St Moneymore	06/11/2020 14:15	03/12/2020 10:15	644.00	1.4	31.1	16.2	
MIDUL/20A/NA7S35	Conyngham St Moneymore	06/11/2020 14:30	03/12/2020 10:30	644.00	0.83	18.4	9.6	
MIDUL/20A/NA7S36	Stonard St Moneymore	06/11/2020 14:45	03/12/2020 10:45	644.00	1.96	43.7	22.7	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA7S37	William St Cookstwon	06/11/2020 15:00	03/12/2020 11:00	644.00	1.57	34.9	18.1	
MIDUL/20A/NA7S38	Lillymoon St Cookstown	06/11/2020 15:15	03/12/2020 11:15	644.00	0.69	15.4	8	
MIDUL/20A/NA7S39	Church St Cookstown	06/11/2020 15:30	03/12/2020 11:30	644.00	1.42	31.6	16.5	
MIDUL/20A/NA7S40	James St Cookstown	06/11/2020 15:45	03/12/2020 11:45	644.00	1.83	40.6	21.1	
MIDUL/20A/NA7S41	24A	05/11/2020 12:00	03/12/2020 12:00	672.00	0.74	15.8	8.2	
MIDUL/20A/NA7S42	24B	05/11/2020 12:00	03/12/2020 12:00	672.00	0.79	16.9	8.8	
MIDUL/20A/NA7S43	24C	05/11/2020 12:00	03/12/2020 12:00	672.00	0.77	16.4	8.5	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA8S1	9A	03/12/2020 12:00	07/01/2021 12:00	840.00	2.4	41	21.3	
MIDUL/20A/NA8S2	9B	03/12/2020 12:00	07/01/2021 12:00	840.00	2.43	41.5	21.6	
MIDUL/20A/NA8S3	9C	03/12/2020 12:00	07/01/2021 12:00	840.00	2.4	40.9	21.3	
MIDUL/20A/NA8S4	2A	03/12/2020 12:00	07/01/2021 12:00	840.00	2.68	45.7	23.8	
MIDUL/20A/NA8S5	2B	03/12/2020 12:00	07/01/2021 12:00	840.00	2.68	45.7	23.7	

MIDUL/20A/NA8S6	2C	03/12/2020 12:00	07/01/2021 12:00	840.00	2.42	41.4	21.5	
MIDUL/20A/NA8S7	10A	03/12/2020 12:00	07/01/2021 12:00	840.00	2.59	44.2	23	
MIDUL/20A/NA8S8	10B	03/12/2020 12:00	07/01/2021 12:00	840.00	2.79	47.6	24.8	
MIDUL/20A/NA8S9	10C	03/12/2020 12:00	07/01/2021 12:00	840.00	2.07	35.3	18.3	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA8S10	13A	03/12/2020 12:00	07/01/2021 12:00	840.00	1.49	25.4	13.2	
MIDUL/20A/NA8S11	13B	03/12/2020 12:00	07/01/2021 12:00	840.00	1.43	24.4	12.7	
MIDUL/20A/NA8S12	13C	03/12/2020 12:00	07/01/2021 12:00	840.00	1.49	25.4	13.2	

MIDUL/20A/NA8S13	23A	03/12/2020 12:00	07/01/2021 12:00	840.00	1.79	30.6	15.9	
MIDUL/20A/NA8S14	23B	03/12/2020 12:00	07/01/2021 12:00	840.00	1.93	32.9	17.1	
MIDUL/20A/NA8S15	23C	03/12/2020 12:00	07/01/2021 12:00	840.00	1.66	28.4	14.7	
MIDUL/20A/NA8S16	11A	03/12/2020 12:00	07/01/2021 12:00	840.00	1.51	25.8	13.4	
MIDUL/20A/NA8S17	11B	03/12/2020 12:00	07/01/2021 12:00	840.00	1.53	26.1	13.6	
MIDUL/20A/NA8S18	11C	03/12/2020 12:00	07/01/2021 12:00	840.00	1.4	23.9	12.4	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA8S19	Ardgannon	04/12/2020 09:45	13/01/2021 13:15	963.50	1.01	15	7.8	

MIDUL/20A/NA8S20	Newell Rd 1	04/12/2020 09:30	13/01/2021 13:15	963.75	2.85	42.4	22.1	
MIDUL/20A/NA8S21	Newell Rd 2	04/12/2020 09:30	13/01/2021 13:15	963.75	3.94	58.6	30.5	
MIDUL/20A/NA8S22	Newell Rd 3	04/12/2020 09:30	13/01/2021 13:15	963.75	4.06	60.3	31.4	
MIDUL/20A/NA8S23	Dunclare Way	04/12/2020 09:30	13/01/2021 13:00	963.50	0.97	14.5	7.5	
MIDUL/20A/NA8S24	The Quays 1	03/12/2020 14:45	13/01/2021 12:30	981.75	1.01	14.8	7.7	
MIDUL/20A/NA8S25	The Quays 2	03/12/2020 14:45	13/01/2021 12:30	981.75	0.74	10.8	5.6	
MIDUL/20A/NA8S26	The Quays 3	03/12/2020 14:45	13/01/2021 12:30	981.75	0.98	14.3	7.4	
MIDUL/20A/NA8S27	Charlemount St 1	03/12/2020 14:45	13/01/2021 12:30	981.75	3.92	57.2	29.7	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA8S28	Charlemount St 2	03/12/2020 14:45	13/01/2021 12:30	981.75	4.64	67.8	35.3	
MIDUL/20A/NA8S29	Charlemount St 3	03/12/2020 14:45	13/01/2021 12:30	981.75	4.15	60.7	31.5	
MIDUL/20A/NA8S30	Killyman St 1	03/12/2020 14:45	13/01/2021 12:30	981.75	1.73	25.2	13.1	
MIDUL/20A/NA8S31	Killyman St 2	03/12/2020 14:45	13/01/2021 12:30	981.75	1.66	24.3	12.6	
MIDUL/20A/NA8S32	Killyman St 3	03/12/2020 14:45	13/01/2021 12:30	981.75	1.83	26.8	13.9	
MIDUL/20A/NA8S33	Lawford St Moneymore	03/12/2020 10:00	14/01/2021 10:00	1008.00	2.81	39.9	20.8	
MIDUL/20A/NA8S34	Smith St Moneymore	03/12/2020 10:15	14/01/2021 10:15	1008.00	2.13	30.3	15.8	
MIDUL/20A/NA8S35	Conyngham St Moneymore							Missing
MIDUL/20A/NA8S36	Stonard St Moneymore	03/12/2020 10:45	14/01/2021 10:45	1008.00	2.81	40	20.8	

Sample Number	Site	Date and Time ON	Date and Time OFF	Exposure Time (Hours)	Total µg	µg m^{-3}	ppb	Comments
MIDUL/20A/NA8S37	William St Cookstwon	03/12/2020 11:00	14/01/2021 11:00	1008.00	2.46	35	18.2	
MIDUL/20A/NA8S38	Lillymoon St Cookstown	03/12/2020 11:15	14/01/2021 11:15	1008.00	1.95	27.7	14.4	
MIDUL/20A/NA8S39	Church St Cookstown	03/12/2020 11:30	14/01/2021 11:30	1008.00	2.08	29.5	15.3	
MIDUL/20A/NA8S40	James St Cookstown	03/12/2020 11:45	14/01/2021 11:45	1008.00	2.51	35.6	18.5	
MIDUL/20A/NA8S41	24A	03/12/2020 12:00	07/01/2021 12:00	840.00	0.86	14.6	7.6	
MIDUL/20A/NA8S42	24B	03/12/2020 12:00	07/01/2021 12:00	840.00	0.87	14.9	7.7	
MIDUL/20A/NA8S43	24C	03/12/2020 12:00	07/01/2021 12:00	840.00	0.88	15.1	7.8	
