

Appendix A: Monitoring Results

Table A.1 – Details of Automatic Monitoring Sites

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	Pollutants Monitored	In AQMA? Which AQMA?	Monitoring Technique	Distance to Relevant Exposure (m) ⁽¹⁾	Distance to kerb of nearest road (m) ⁽²⁾	Inlet Height (m)
EDB1	Bishopbriggs	Roadside	260995	670130	NO ₂ ; PM ₁₀ ; PM _{2.5}	Yes AQMA 1	Chemiluminescent; FIDAS	5m	2m	2
EDB2	Bearsden	Kerbside	254269	672067	NO ₂ ; PM ₁₀ ; PM _{2.5}	Yes AQMA 2	Chemiluminescent; FIDAS	<2m	1m	2
EDB3	Kirkintilloch	Kerbside	265675	673516	NO ₂ ; PM ₁₀ ; PM _{2.5}	No	Chemiluminescent; FIDAS	<2m	1m	3
EDB4	Milngavie	Roadside	255328	674115	NO ₂ ; PM ₁₀ ; PM _{2.5}	No	Chemiluminescent; TEOM FDMS; FIDAS	<40m	1m	3

Notes:

(1) AQMA1 is Bishopbriggs Air Quality Management Area

(2) AQMA2 is Bearsden Air Quality Management Area

Table A.2 – Details of Non-Automatic Monitoring Sites

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) ⁽¹⁾	Distance to kerb of nearest road (m) ⁽²⁾	Tube co-located with a Continuous Analyser?	Tube Height (m)
EDB5	Bearsden 1 (118 Drymen Rd)	Roadside	254218	672193	NO2	Yes - Bearsden	3m	2m	No	2.4
EDB11	Bearsden 10	Roadside	255394	670683	NO2	No	24m	2m	No	2.4
EDB12	Bearsden 13	Roadside	254809	671057	NO2	Yes - Bearsden	26m	2m	No	2.4
EDB13	Bearsden 14	Roadside	254877	671000	NO2	Yes - Bearsden	8m	2m	No	2.4
EDB14	Bearsden 15	Roadside	254898	671023	NO2	Yes - Bearsden	2m	2m	No	2.5
EDB15	Bearsden 16	Kerbside	254269	672067	NO2	Yes - Bearsden	2m	1m	Yes	1.8
EDB16	Bearsden 16 B	Kerbside	254269	672067	NO2	Yes - Bearsden	2m	1m	Yes	1.8
EDB17	Bearsden 16 C	Kerbside	254269	672067	NO2	Yes - Bearsden	2m	1m	Yes	1.8
EDB18	Bearsden 17	Roadside	254258	672077	NO2	Yes - Bearsden	<2m	2m	No	2.6
EDB19	Bearsden 18	Roadside	254275	672069	NO2	Yes - Bearsden	<2m	2m	No	2.4
EDB51	Bearsden 19	Roadside	255403	673236	NO2	No	5m	<2m	No	2.2

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) ⁽¹⁾	Distance to kerb of nearest road (m) ⁽²⁾	Tube co-located with a Continuous Analyser?	Tube Height (m)
EDB52	Bearsden 20	Roadside	255400	673134	NO2	No	28m	<2m	No	2.5
EDB53	Bearsden 21	Roadside	254984	671910	NO2	No	32m	<2m	No	2.2
EDB6	Bearsden 3 (5 Ravelston Rd)	Urban Background	254655	670158	NO2	No	8m	5m	No	2.4
EDB7	Bearsden 4 (8 Lowther Ave)	Urban Background	253075	673382	NO2	No	6m	5m	No	1.8
EDB8	Bearsden 7	Roadside	254269	672069	NO2	Yes - Bearsden	<2m	2m	No	1.8
EDB9	Bearsden 8	Roadside	254275	672047	NO2	Yes - Bearsden	18m	2m	No	1.8
EDB10	Bearsden 9	Roadside	254751	670621	NO2	No	30m	2m	No	1.8
EDB21	Bishopbriggs 13	Roadside	260549	669312	NO2	Yes - Bishopbriggs	5m	2m	No	2.4
EDB22	Bishopbriggs 14	Roadside	260995	670130	NO2	Yes - Bishopbriggs	42m	2m	Yes	1.8
EDB23	Bishopbriggs 14B	Roadside	260995	670130	NO2	Yes - Bishopbriggs	42m	2m	Yes	1.8
EDB24	Bishopbriggs 14C	Roadside	260995	670130	NO2	Yes - Bishopbriggs	42m	2m	Yes	1.8
EDB25	Bishopbriggs 16	Roadside	260580	669533	NO2	Yes - Bishopbriggs	<2m	2m	No	2.4
EDB26	Bishopbriggs 17	Roadside	260552	669320	NO2	Yes - Bishopbriggs	<2m	2m	No	2.0

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) ⁽¹⁾	Distance to kerb of nearest road (m) ⁽²⁾	Tube co-located with a Continuous Analyser?	Tube Height (m)
EDB30	Bishopbriggs 21	Roadside	261033	669650	NO2	No	6m	2m	No	2.2
EDB31	Bishopbriggs 22	Roadside	260571	669339	NO2	Yes - Bishopbriggs	5m	2m	No	2.3
EDB32	Bishopbriggs 23	Roadside	260759	669999	NO2	Yes - Bishopbriggs	5m	2m	No	2.2
EDB33	Bishopbriggs 24	Roadside	261903	671955	NO2	Yes - Bishopbriggs	10m	2m	No	2.2
EDB34	Bishopbriggs 25	Urban Background	260617	670338	NO2	No	6m	2m	No	2.4
EDB64	Bishopbriggs 26	Roadside	262112	670517	NO2	No	3m	1m	No	2.4
EDB68	Bishopbriggs 30	Roadside	262398	669436	NO2	No	3m	1m	No	2.4
EDB36	Bishopbriggs 6	Roadside	261016	670198	NO2	Yes - Bishopbriggs	<2m	2m	No	2.5
EDB37	Kirkintilloch 15	Roadside	265641	673497	NO2	No	2m	2m	No	2.8
EDB38	Kirkintilloch 16	Roadside	265697	673524	NO2	No	3m	2m	No	2.4
EDB39	Kirkintilloch 17	Kerbside	265675	673516	NO2	No	3m	1m	Yes	1.9
EDB40	Kirkintilloch 17 B	Kerbside	265675	673516	NO2	No	3m	1m	Yes	1.9
EDB41	Kirkintilloch 17 C	Kerbside	265675	673516	NO2	No	3m	1m	Yes	1.9
EDB42	Kirkintilloch 18	Kerbside	265674	673521	NO2	No	<2m	2m	No	2.4

Site ID	Site Name	Site Type	X OS Grid Ref	Y OS Grid Ref	Pollutants Monitored	In AQMA? Which AQMA?	Distance to Relevant Exposure (m) ⁽¹⁾	Distance to kerb of nearest road (m) ⁽²⁾	Tube co-located with a Continuous Analyser?	Tube Height (m)
EDB43	Kirkintilloch 19	Roadside	265602	673583	NO2	No	<2m	<2m	No	2.5
EDB44	Kirkintilloch 20	Roadside	265849	673424	NO2	No	6m	<2m	No	2.3
EDB45	Kirkintilloch 21	Roadside	265506	671961	NO2	No	5m	<2m	No	2.4
EDB53	Milngavie 10	Roadside	255329	674114	NO2	No	40m	1m	Yes	2.0
EDB54	Milngavie 10 B	Roadside	255329	674114	NO2	No	40m	1m	Yes	2.0
EDB55	Milngavie 10 C	Roadside	255329	674114	NO2	No	40m	1m	Yes	2.0
EDB73	Milngavie 13	Roadside	255183	674409	NO2	No	3m	1m	No	2.4
EDB47	Milngavie 4	Roadside	255728	674486	NO2	No	5m	2m	No	2.6
EDB50	Milngavie 7	Roadside	255279	674124	NO2	No	<2m	9m	No	2.1
EDB52	Milngavie 9	Urban Background	255331	674214		No	7m	2m	No	2.4

* A number of diffusion tubes (8) were removed part way through 2021 as part of the NO₂ diffusion tube review. These tubes have been removed from the table

Notes:

(1) 0m if the monitoring site is at a location of exposure (e.g. installed on/adjacent to the façade of a residential property).

(2) N/A if not applicable.

Table A.3 – Annual Mean NO₂ Monitoring Results (µg/m³)

Site ID	Site Type	Monitoring Type	Valid Data Capture for Monitoring Period (%) ⁽¹⁾	Valid Data Capture 2021 (%) ⁽²⁾	2017	2018	2019	2020	2021
Bearsden	Kerbside	Automatic	98.2	98.2	33	33	32	20	24.3
Bishopbriggs	Roadside	Automatic	56.7	56.7	27.0	27	26	20	18.6* (16.8 after annualisation)
Kirkintilloch	Kerbside	Automatic	99.7	99.7	30	29	27	18	19.6
Milngavie	Roadside	Automatic	96.7	96.7	22	20	19	15	16.2
Bearsden 1 (118 Drymen Rd)	Roadside	Diffusion Tubes	100	100	24.7	26.8	25	16.9	19.3
Bearsden 10	Roadside	Diffusion Tubes	100	100	26.3	24.2	24.1	23.1	20.08
Bearsden 13	Roadside	Diffusion Tubes	100	100	33.2	28	29.2	21.7	21.25
Bearsden 14	Roadside	Diffusion Tubes	92	92	31.4	28.1	27.6	21.4	22.02
Bearsden 15	Roadside	Diffusion Tubes	100	100	34.3	30.1	28.8	22.9	19.34
Bearsden 16	Roadside	Diffusion Tubes	100	100	33.2	29	31.7	23.2	20.95
Bearsden 16 B	Roadside	Diffusion Tubes	100	100	37.1	32.5	29.7	23.7	21.16
Bearsden 16 C	Roadside	Diffusion Tubes	100	100	34.4	30.8	30.4	20.7	26.15

Site ID	Site Type	Monitoring Type	Valid Data Capture for Monitoring Period (%) ⁽¹⁾	Valid Data Capture 2021 (%) ⁽²⁾	2017	2018	2019	2020	2021
Bearsden 17	Roadside	Diffusion Tubes	100	100	32.1	31.1	31.2	20.6	22.68
Bearsden 19	Roadside	Diffusion Tubes	100	100	#N/A	16.4	18.5	14.2	18.03
Bearsden 20	Roadside	Diffusion Tubes	100	100	#N/A	14.5	17.3	13.4	14.30
Bearsden 21	Roadside	Diffusion Tubes	100	100	#N/A	16.4	18.0	19.9	15.87
Bearsden 3 (5 Ravelston Rd)	Roadside	Diffusion Tubes	100	100	17.9	17.0	17.4	11.4	12.35
Bearsden 4 (8 Lowther Ave)	Urban Background	Diffusion Tubes	83	83	10.1	13.3	15.3	7.5	7.27
Bearsden 7	Roadside	Diffusion Tubes	100	100	31.3	24.9	30.1	21.5	21.59
Bearsden 8	Roadside	Diffusion Tubes	100	100	32.3	27.0	27.4	20.9	22.22
Bearsden 9	Roadside	Diffusion Tubes	100	100	25.9	21.3	23.4	17.0	17.86
Bishopbriggs 13	Roadside	Diffusion Tubes	100	100	34.1	34.7	31.5	23.3	27.62
Bishopbriggs 14	Roadside	Diffusion Tubes	100	100	25.5	24.1	22.0	15.2	14.42
Bishopbriggs 14 B	Roadside	Diffusion Tubes	100	100	24.6	23.3	21.5	16.7	14.63
Bishopbriggs 14 C	Roadside	Diffusion Tubes	100	100	25.6	22.8	21.8	17.5	15.93
Bishopbriggs 16	Roadside	Diffusion Tubes	100	100	24.7	24.8	22.1	18.1	16.87

Site ID	Site Type	Monitoring Type	Valid Data Capture for Monitoring Period (%) ⁽¹⁾	Valid Data Capture 2021 (%) ⁽²⁾	2017	2018	2019	2020	2021
Bishopbriggs 17	Roadside	Diffusion Tubes	100	100	29	27.6	24.9	19.6	19.81
Bishopbriggs 21	Roadside	Diffusion Tubes	100	100	18.9	19.7	14.9	12.0	12
Bishopbriggs 22	Roadside	Diffusion Tubes	83	83	33.2	32.7	29.0	23.6	24.37
Bishopbriggs 23	Roadside	Diffusion Tubes	92	92	32.3	23.0	27.0	21.0	19.22
Bishopbriggs 24	Roadside	Diffusion Tubes	100	100	21.2	22.8	24.9	18.5	17.27
Bishopbriggs 25	Roadside	Diffusion Tubes	100	100	14.8	15.6	15.4	12.7	11.38
Bishopbriggs 26	Roadside	Diffusion Tubes	92	92	#N/A	#N/A	17.2	12.5	16.08
Bishopbriggs 30	Roadside	Diffusion Tubes	100	100	#N/A	#N/A	22.5	16.7	19.15
Bishopbriggs 6	Roadside	Diffusion Tubes	100	100	28.8	24.9	24.1	17.8	17.14
Kirkintilloch 15	Roadside	Diffusion Tubes	100	100	25.7	25.3	24.4	17.3	17.85
Kirkintilloch 16	Roadside	Diffusion Tubes	100	100	32.4	28.4	27.6	20.3	20.57
Kirkintilloch 17	Roadside	Diffusion Tubes	100	100	30.9	26.7	28.1	19.1	20.9
Kirkintilloch 17 B	Roadside	Diffusion Tubes	100	100	28.4	24.1	27.7	17.8	20.86
Kirkintilloch 17 C	Roadside	Diffusion Tubes	100	100	28.1	26.3	27.5	18.0	22.1

Site ID	Site Type	Monitoring Type	Valid Data Capture for Monitoring Period (%) ⁽¹⁾	Valid Data Capture 2021 (%) ⁽²⁾	2017	2018	2019	2020	2021
Kirkintilloch 18	Roadside	Diffusion Tubes	100	100	25.1	22.5	23.4	16.6	16.83
Kirkintilloch 19	Roadside	Diffusion Tubes	100	100	16.0	17.4	18.2	14.0	15.43
Kirkintilloch 20	Roadside	Diffusion Tubes	100	100	30.1	27.5	24.8	22.5	23.68
Kirkintilloch 21	Roadside	Diffusion Tubes	100	100	22.4	18.8	18.2	15.2	13.63
Milngavie 10	Roadside	Diffusion Tubes	100	100	20.5	22.9	20.5	15.8	16.47
Milngavie 10 B	Roadside	Diffusion Tubes	100	100	20.1	19.5	20.0	14.7	16.55
Milngavie 10 C	Roadside	Diffusion Tubes	100	100	20.3	19.5	19.9	12.5	16.02
Milngavie 13	Roadside	Diffusion Tubes	75	75	#N/A	#N/A	18.4	14.1	15.28
Milngavie 4	Roadside	Diffusion Tubes	100	100	24.0	20.3	21.7	17.7	20.92
Milngavie 7	Roadside	Diffusion Tubes	100	100	29.6	26.5	24.5	21.7	21.35
Milngavie 9	Urban Background	Diffusion Tubes	100	100	26.2	25.2	22.0	14.9	21.22

Notes:

*Bishopbriggs Automatic Continuous Monitor requires annualisation as per LAQM.TG(16). See Table C.2

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

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

Means for diffusion tubes have been corrected for bias. All means have been “annualised” as per LAQM.TG(16) if valid data capture for the full calendar year is less than 75%. See Appendix C for details.

- (1) Data capture for the monitoring period, in cases where monitoring was only carried out for part of the year.
- (2) Data capture for the full calendar year (e.g. if monitoring was carried out for 6 months, the maximum data capture for the full calendar year is 50%).

Table A.4 – 1-Hour Mean NO₂ Monitoring Results, Number of 1-Hour Means > 200µg/m³

Site ID	Site Type	Monitoring Type	Valid Data Capture for Monitoring Period (%) ⁽¹⁾	Valid Data Capture 2021 (%) ⁽²⁾	2017	2018	2019	2020	2021
Bearsden	Kerbside	Automatic	98.2	98.2	0	0	0	0	0
Bishopbriggs	Roadside	Automatic	56.7	56.7	0	0(99)	0	0	0
Kirkintilloch	Kerbside	Automatic	99.7	99.7	0	0	0	0	0
Milngavie	Roadside	Automatic	96.7	96.7	0	0(105)	0	0	0

Notes:

Exceedances of the NO₂ 1-hour mean objective (200 µg/m³ not to be exceeded more than 18 times/year) are shown in bold.

If the period of valid data is less than 85%, the 99.8th percentile of 1-hour means is provided in brackets.

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

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

Table A.5 – Annual Mean PM₁₀ Monitoring Results (µg/m³)

Site ID	Site Type	Valid Data Capture for Monitoring Period (%) ⁽¹⁾	Valid Data Capture 2021 (%) ⁽²⁾	2017	2018	2019	2020	2021
Bearsden	Kerbside	100	100	13	14	11	8	9.5
Bishopbriggs	Roadside	100	100	16	17	12	10	10.2
Kirkintilloch	Kerbside	100	100	12	11	13	9	10.7
Milngavie	Roadside	97	97	13	13	14	10	8.7

Notes:

Exceedances of the PM₁₀ annual mean objective of 18 µg/m³ are shown in bold.

All means have been “annualised” as per LAQM.TG(16), valid data capture for the full calendar year is less than 75%. See Appendix C for details.

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

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

Table A.6 – 24-Hour Mean PM₁₀ Monitoring Results, Number of PM₁₀ 24-Hour Means > 50µg/m³

Site ID	Site Type	Valid Data Capture for Monitoring Period (%) (1)	Valid Data Capture 2021 (%) (2)	2017	2018	2019	2020	2021
Bearsden	Kerbside	100	100	0	0	2	0	0
Bishopbriggs	Roadside	100	100	2	7	2	0	0
Kirkintilloch	Kerbside	100	100	0	0	3	0	0
Milngavie	Roadside	97	97	1	0	2	0	0

Notes:

Exceedances of the PM₁₀ 24-hour mean objective (50 µg/m³ not to be exceeded more than seven times/year) are shown in bold.

If the period of valid data is less than 85%, the 98.1st percentile of 24-hour means is provided in brackets.

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

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

Table A.7 – Annual Mean PM_{2.5} Monitoring Results (µg/m³)

Site ID	Site Type	Valid Data Capture for Monitoring Period (%) ⁽¹⁾	Valid Data Capture 2021 (%) ⁽²⁾	2017	2018	2019	2020	2021
Bearsden	Kerbside	100	100	N/A	N/A	6	5	5.2
Bishopbriggs	Roadside	100	100	N/A	N/A	7	6	5.9
Kirkintilloch	Kerbside	100	100	6	6	8	5	5.4
Milngavie	Roadside	97	97	N/A	N/A	N/A	4	4.8

Notes:

Exceedances of the PM_{2.5} annual mean objective of 10 µg/m³ are shown in bold.

All means have been “annualised” as per LAQM.TG(16), valid data capture for the full calendar year is less than 75%. See Appendix C for details.

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

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