

# **A1 in Northumberland: Morpeth to Ellingham**

**Scheme Number: TR010041**

## **6.7 Environmental Statement – Appendix 5.5 Operational Impacts - Human Receptors**

### **Part A**

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed  
Forms and Procedure) Regulations 2009

June 2020

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning  
(Applications: Prescribed Forms and  
Procedure) Regulations 2009**

**The A1 in Northumberland: Morpeth to Ellingham  
Development Consent Order 20[xx]**

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**Environmental Statement - Appendix**

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<b>Regulation Reference:</b>	APFP Regulation 5(2)(a)
<b>Planning Inspectorate Scheme Reference</b>	TR010041
<b>Application Document Reference</b>	TR010041/APP/6.7
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## RESULTS

**Table 5-1 - Annual Mean NO<sub>2</sub> Concentrations (µg/m<sup>3</sup>)**

Receptor	Verification Factor Group*	Baseline 2015	Do-Minimum 2023	Do-Something 2023	Change with Do-Something
R001	3	7.48	5.7	5.8	0.11
R002	3	10.51	8.2	8.3	0.19
R003	3	17.63	14.3	15.2	0.90
R004	3	16.03	13.0	13.8	0.86
R005	3	7.74	6.0	6.2	0.24
R006	3	11.55	9.1	10.0	0.90
R007	3	7.06	5.4	5.7	0.33
R008	3	13.86	10.9	10.4	-0.51
R009	3	23.85	19.0	22.1	3.03
R010	3	10.73	8.4	8.5	0.14
R011	3	8.16	6.4	6.5	0.12
R012	3	13.65	11.8	12.6	0.84
R013	3	14.77	11.6	6.4	-5.20
R014	3	12.32	9.7	9.9	0.21
R015	3	8.56	6.7	6.8	0.09
R016	3	7.32	5.6	6.4	0.84
R017	3	12.46	9.8	8.4	-1.37

Receptor	Verification Factor Group*	Baseline 2015	Do-Minimum 2023	Do-Something 2023	Change with Do-Something
R018	3	8.60	6.7	6.3	-0.43
R019	2	19.14	15.2	8.2	-7.03
R020	3	6.01	4.5	5.3	0.72
R021	3	6.23	4.7	5.0	0.28
R022	3	26.81	21.5	8.7	-12.79
R023	3	13.01	10.0	8.2	-1.81
R024	3	7.91	6.1	5.4	-0.70
R025	1	33.02	21.8	22.8	1.01

**Table 5-2 - Annual Mean PM<sub>10</sub>/PM<sub>2.5</sub> Concentrations (µg/m<sup>3</sup>)**

<b>Receptor</b>	<b>Baseline 2015</b>	<b>Do-Minimum 2023</b>	<b>Do-Something 2023</b>	<b>Change with Do-Something</b>
R001	10.2	9.8	9.8	0.0
R002	10.9	10.4	10.5	0.0
R003	11.7	11.2	11.3	0.1
R004	10.6	10.1	10.2	0.1
R005	10.1	9.7	9.7	0.0
R006	11.8	11.3	11.5	0.1
R007	10.8	10.4	10.4	0.0
R008	11.1	10.6	10.5	-0.1
R009	12.4	11.6	12.0	0.4
R010	11.1	10.7	10.7	0.0
R011	9.3	8.9	8.9	0.0
R012	10.3	9.9	10.0	0.1
R013	11.7	11.2	10.4	-0.8
R014	11.6	11.2	11.2	0.0
R015	10.9	10.6	10.6	0.0
R016	8.2	7.8	7.9	0.1
R017	10.2	9.7	9.5	-0.2
R018	9.8	9.4	9.3	-0.1
R019	12.0	11.4	10.3	-1.1



<b>Receptor</b>	<b>Baseline 2015</b>	<b>Do-Minimum 2023</b>	<b>Do-Something 2023</b>	<b>Change with Do-Something</b>
R020	10.5	10.1	10.2	0.1
R021	10.5	10.1	10.1	0.0
R022	13.3	12.6	10.6	-2.0
R023	11.0	10.4	10.1	-0.3
R024	9.6	9.3	9.2	-0.1
R025	23.6	17.4	18.7	1.3

**Table 5-3 - 24-hour Mean PM<sub>10</sub> Concentrations (number of days exceeding 50 µg/m<sup>3</sup>)**

Receptor	Baseline 2015	Do-Minimum 2023	Do-Something 2023	Change with Do-Something
R001	< 1	< 1	< 1	-
R002	< 1	< 1	< 1	-
R003	< 1	< 1	< 1	-
R004	< 1	< 1	< 1	-
R005	< 1	< 1	< 1	-
R006	< 1	< 1	< 1	-
R007	< 1	< 1	< 1	-
R008	< 1	< 1	< 1	-
R009	< 1	< 1	< 1	-
R010	< 1	< 1	< 1	-
R011	< 1	< 1	< 1	-
R012	< 1	< 1	< 1	-
R013	< 1	< 1	< 1	-
R014	< 1	< 1	< 1	-
R015	< 1	< 1	< 1	-
R016	< 1	< 1	< 1	-
R017	< 1	< 1	< 1	-





Receptor	Baseline 2015	Do-Minimum 2023	Do-Something 2023	Change with Do-Something
R018	< 1	< 1	< 1	-
R019	< 1	< 1	< 1	-
R020	< 1	< 1	< 1	-
R021	< 1	< 1	< 1	-
R022	< 1	< 1	< 1	-
R023	< 1	< 1	< 1	-
R024	< 1	< 1	< 1	-
R025	9	1	2	1

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