

High Speed Rail (Crewe – Manchester)

Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement

Volume 5: Appendix AQ-001-0MA06

Air quality

Air quality report

MA06: Hulseheath to Manchester Airport

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Department for Transport

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1 Introduction

1.1 Structure of this appendix

- 1.1.1 This report is an appendix to the air quality assessment which forms part of Volume 5 of the Supplementary Environmental Statement 2 (SES2) and Additional Provision 2 Environmental Statement (AP2 ES) for the Hulseheath to Manchester Airport (MA06) community area. This report also includes the Broomedge to Glazebrook (MA04) and Risley to Bamfurlong (MA05) community areas which were included in the original scheme but removed through the SES1 change SES1-004-001 – Removal of the HS2 WCML connection.
- 1.1.2 This appendix provides details of changes to the air quality assessment since the High Speed Two (HS2) High Speed Rail (Crewe – Manchester) Environmental Statement (ES) published in 2022¹ (the main ES), and the Supplementary Environmental Statement 1 (SES1) and Additional Provision 1 Environmental Statement (AP1 ES) also published in 2022².
- 1.1.3 This report should be read in conjunction with the main ES Volume 5, Appendices: AQ-001-0MA04, AQ-001-0MA05 and AQ-001-0MA06, and SES1 and AP1 ES Volume 5, Appendices: AQ-001-0MA04 and AQ-001-0MA05.
- 1.1.4 In order to differentiate between the original scheme and the subsequent changes, the following terms are used:
- ‘the original scheme’ – the Bill scheme submitted to Parliament in 2022, which was assessed in the main ES;
 - ‘the SES1 scheme’ – the original scheme with any changes described in SES1 that are within the existing powers of the Bill;
 - ‘the AP1 revised scheme’ – the original scheme as amended by SES1 changes and AP1 amendments;
 - ‘the SES2 scheme’ – the original scheme with any changes described in SES1 (submitted in July 2022) and the SES2; and
 - ‘the AP2 revised scheme’ – the original scheme as amended by SES1 and SES2 changes (as relevant) and AP2 amendments.
- 1.1.5 Maps referred to in this appendix are contained in the SES2 and AP2 ES Volume 5, Air quality Map Book: Map Series AQ-01 – Air Quality Monitoring Locations and Receptors.

¹ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase2b-crewe-manchester-environmental-statement>.

² High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Supplementary Environmental Statement 1 and Additional Provision 1 Environmental Statement*. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-supplementary-environmental-statement-1-and-additional-provision-1-environmental-statement>.

- 1.1.6 In addition, the traffic data used for the air quality assessment is set out in Background Information and Data (BID)³ which accompanies the SES2 and AP2 ES (see BID AQ-002-0MA06 SES2 and AP2 ES).
- 1.1.7 Where it has been possible to differentiate the air quality assessment between the SES2 changes and the AP2 amendments, this has been done and presented in this report. However, the assessment of road traffic emissions is a combined assessment of both SES2 changes and AP2 amendments in this area.

1.2 Scope, methodology, data sources, assumptions and limitations

- 1.2.1 The assessment scope, key assumptions and limitations are as set out in the main ES Environmental Impact Assessment Scope and Methodology Report (SMR)⁴ (see main ES Volume 5: Appendix CT-001-00001).
- 1.2.2 Since the preparation of the main ES, the Department for Environment, Food and Rural Affairs (Defra) has released new versions of tools for undertaking air quality assessments⁵, namely the emissions factors toolkit. This air quality assessment has therefore used the latest available tools.
- 1.2.3 The air quality standards for this assessment are:
- 40µg/m³ as an annual mean for nitrogen dioxide (NO₂) and fine particulate matter (PM₁₀);
 - 200µg/m³ one-hour mean NO₂ concentrations, not to be exceeded more than 18 times a year (equivalent to the 99.8th percentile of the one-hour mean);
 - 50µg/m³ 24-hour mean PM₁₀ concentrations, not to be exceeded more than 35 times a year (equivalent to the 90.4th percentile of the 24-hour mean); and
 - 20µg/m³ as an annual mean for very fine particulate matter (PM_{2.5}).

³ High Speed Two Ltd (2023), High Speed Rail (Crewe – Manchester), *Background Information and Data accompanying Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement, Additional data used in the air quality assessment*, BID AQ-002-0MA01 SES2 and AP2 ES. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-supplementary-environmental-statement-2-and-additional-provision-2-environmental-statement>.

⁴ High Speed Two Ltd (2022), High Speed Rail (Crewe – Manchester), *Environmental Statement, Environmental Impact Assessment Scope and Methodology Report*, Volume 5, Appendix: CT-001-00001. Available online at: <https://www.gov.uk/government/collections/hs2-phase-2b-crewe-manchester-environmental-statement>.

⁵ Department for Environment, Food and Rural Affairs (2022). *Local air quality management*. Available online at: <https://laqm.defra.gov.uk/whatsnew.html>.

2 Baseline air quality data

2.1 Existing air quality

Background pollutant concentrations

- 2.1.1 Estimates of background air quality were obtained from the Defra maps⁶. Background pollutant concentrations are within the air quality standards throughout the study area. Table 1 presents the range of background pollutant concentrations within the Hulseheath to Manchester Airport (MA06) community area for the future baseline, 2018 background pollutant concentrations remain the same as the main ES.
- 2.1.2 Background pollutant concentrations for the operational year of 2039 have been taken from the Defra background maps for 2030, which is the latest available year of data. The 2030 background maps have been used as representative of the future baseline conditions during operation of the AP2 revised scheme.

Table 1: Range of background pollutant concentrations

Pollutant	Background concentrations ($\mu\text{g}/\text{m}^3$)	
	2026	2039
Annual mean NO _x	9.4 $\mu\text{g}/\text{m}^3$ to 35.3 $\mu\text{g}/\text{m}^3$	8.7 $\mu\text{g}/\text{m}^3$ to 33.2 $\mu\text{g}/\text{m}^3$
Annual mean NO ₂	7.3 $\mu\text{g}/\text{m}^3$ to 23.0 $\mu\text{g}/\text{m}^3$	6.8 $\mu\text{g}/\text{m}^3$ to 21.8 $\mu\text{g}/\text{m}^3$
Annual mean PM ₁₀	8.6 $\mu\text{g}/\text{m}^3$ to 14.1 $\mu\text{g}/\text{m}^3$	8.5 $\mu\text{g}/\text{m}^3$ to 14.1 $\mu\text{g}/\text{m}^3$
Annual mean PM _{2.5}	5.7 $\mu\text{g}/\text{m}^3$ to 8.5 $\mu\text{g}/\text{m}^3$	5.7 $\mu\text{g}/\text{m}^3$ to 8.5 $\mu\text{g}/\text{m}^3$

⁶ Department for Environment, Food and Rural Affairs (Defra) (2018), *Defra Background Pollutant Concentration Maps*. Available online at: <https://uk-air.defra.gov.uk/data/laqm-background-maps?year=2018>.

3 Construction dust assessment

3.1 Introduction

3.1.1 This section provides details of the assessment of dust emissions during construction of the AP2 revised scheme. The assessment is provided separately for each proposed amendment to the design, where it has been identified that the amendment has the potential to change the risk of dust soiling, human health effects or ecological effects compared to the main ES. A summary is then provided of the overall risk from construction dust in the Hulseheath to Manchester Airport (MA06) community area, and how it has changed from that reported in the main ES.

3.2 Additional land permanently required for a revised National Grid 400kV overhead power line diversion near Ryecroft Covert LWS (AP2-006-006)

Dust soiling and human health effects

Assessed receptors and sensitivity of the area

- 3.2.1 The assessment of dust soiling and human health effects has been undertaken for the area around Rostherne that is affected by this utility diversion (AP2-006-006). Residential dwellings are located within 20m of demolition, earthworks, construction and trackout activities.
- 3.2.2 The sensitivity of the area to dust soiling and human health effects has been defined as shown in Table 2.

Table 2: Sensitivity of area to dust soiling and human health effects

Effect	Demolition	Earthworks	Construction	Trackout
Area around Rostherne				
Dust soiling	Low	High	High	High
Human health	Low	Low	Low	Low

Dust emission magnitude

3.2.3 Each dust generating activity has been assigned a dust emission magnitude as shown in Table 3.

Table 3: Dust emission magnitude for dust soiling and human health effects

Area	Demolition	Earthworks	Construction	Trackout
Area around Rostherne	Medium	Large	Large	Large

Risk of impacts

3.2.4 Taking into consideration the dust emission magnitude of each activity and the sensitivity of the area, the risk of dust effects has been defined as shown in Table 4.

Table 4: Risk of dust soiling and human health effects

Effect	Demolition	Earthworks	Construction	Trackout
Area around Rostherne				
Dust soiling	Low risk	High risk	High risk	High risk
Human health	Low risk	Low risk	Low risk	Low risk

Ecological effects

Assessed receptors and sensitivity of the area

3.2.5 An assessment of ecological effects has been undertaken for ecological receptors Ashley Mill Wood Local Wildlife Site (LWS)/Site of Biological Importance (SBI), Birkinheath Covert LWS/SBI, Fish House Plantation SBI and Birkin Bridge Lodge Ancient Woodland (AW) that are affected by this utility diversion (AP2-006-006). These ecological receptors are located within 20m of earthworks and construction activities. There are no demolition or trackout activities in this area.

3.2.6 The sensitivity of the area to ecological effects is defined as medium for all dust generating activities.

Dust emission magnitude

3.2.7 Each dust generating activity has been assigned a dust emission magnitude as shown in Table 5.

Table 5: Dust emission magnitude for ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Ashley Mill Wood LWS/SBI, Birkinheath Covert LWS/SBI, Fish House Plantation SBI and Birkin Bridge Lodge AW	Not applicable	Large	Large	Not applicable

Risk of impacts

3.2.8 Taking into consideration the dust emission magnitude of each activity and the sensitivity of the area, the risk of dust effects has been defined as shown in Table 6.

Table 6: Risk of ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Ashley Mill Wood LWS/SBI, Birkinheath Covert LWS/SBI, Fish House Plantation SBI and Birkin Bridge Lodge AW	Not applicable	Medium risk	Medium risk	Not applicable

3.3 Additional land permanently required to reconfigure M56 Junction 6 (AP2-006-014)

Dust soiling and human health effects

Assessed receptors and sensitivity of the area

3.3.1 The assessment of dust soiling and human health effects has been undertaken for the following areas that are affected by this reconfiguration of M56 Junction 6 (AP2-006-014), from south to north:

- area around Hale: residential dwellings are located within 20m of demolition, earthworks, construction and trackout activities; and
- area around Thorns Green: residential dwellings are located within 50m of demolition, 20m of earthworks, construction and trackout activities in this area.

3.3.2 The sensitivity of the area to dust soiling and human health effects has been defined as shown in Table 7.

Table 7: Sensitivity of area to dust soiling and human health effects

Effect	Demolition	Earthworks	Construction	Trackout
Area around Hale				
Dust soiling	Medium	High	High	High
Human health	Low	Medium	Medium	Medium
Area around Thorns Green				
Dust soiling	Low	High	High	Medium
Human health	Low	Low	Low	Low

Dust emission magnitude

3.3.3 Each dust generating activity has been assigned a dust emission magnitude as shown in Table 8.

Table 8: Dust emission magnitude for dust soiling and human health effects

Area	Demolition	Earthworks	Construction	Trackout
Area around Hale	Small	Large	Large	Large
Area around Thorns Green	Medium	Large	Large	Large

Risk of impacts

3.3.4 Taking into consideration the dust emission magnitude of each activity and the sensitivity of the area, the risk of dust effects has been defined as shown in Table 9.

Table 9: Risk of dust soiling and human health effects

Effect	Demolition	Earthworks	Construction	Trackout
Area around Hale				
Dust soiling	Low risk	High risk	High risk	High risk
Human health	Negligible risk	Medium risk	Medium risk	Medium risk
Area around Thorns Green				
Dust soiling	Low risk	High risk	High risk	Medium risk
Human health	Low risk	Low risk	Low risk	Low risk

Ecological effects

Assessed receptors and sensitivity of the area

3.3.5 An assessment of ecological effects has been undertaken for the following ecological receptors that are affected by this reconfiguration of M56 Junction 6 (AP2-006-014), from south to north:

- Hancocks Bank AW, Ryecroft Covert LWS/AW/SBI and Birkin Brook LWS are located within 20m earthworks and construction activities. There are no demolition or trackout activities in this area;
- Brickhill Wood LWS/AW/SBI, Mill Wood Castle Mill LWS/SBI, Veteran Oak Tree Thorns Green LWS, Jackson’s Bank East SBI/LWS and Sunbank Wood and Ponds SBI/AW are located within 20m of demolition, earthworks, construction and trackout; and
- Hennersley Bank AW, Cotterill Clough Site of Special Scientific Interest (SSSI), Rossmill SBI, Bollin Bank AW and Warburton Wood AW are located within 20m of earthworks, construction and trackout activities. There are no demolition activities in this area.

3.3.6 Table 10 presents the sensitivity of the area to ecological effects.

Table 10: Sensitivity of area to ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Hancocks Bank AW, Ryecroft Covert LWS/AW/SBI and Birkin Brook LWS	Not applicable	Medium	Medium	Not applicable
Brickhill Wood LWS/AW/SBI, Mill Wood Castle Mill LWS/SBI, Veteran Oak Tree Thorns Green LWS, Jackson's Bank East SBI/LWS and Sunbank Wood and Ponds SBI/AW	Medium	Medium	Medium	Medium
Hennersley Bank AW, Cotterill Clough SSSI, Rossmill SBI, Bollin Bank AW and Warburton Wood AW	Not applicable	High	High	High

Dust emission magnitude

3.3.7 Each dust generating activity has been assigned a dust emission magnitude as shown in Table 11.

Table 11: Dust emission magnitude for ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Hancocks Bank AW, Ryecroft Covert LWS/AW/SBI and Birkin Brook LWS	Not applicable	Large	Large	Not applicable
Brickhill Wood LWS/AW/SBI, Mill Wood Castle Mill LWS/SBI, Veteran Oak Tree Thorns Green LWS, Jackson's Bank East SBI/LWS and Sunbank Wood and Ponds SBI/AW	Medium	Large	Large	Large
Hennersley Bank AW, Cotterill Clough SSSI, Rossmill SBI, Bollin Bank AW and Warburton Wood AW	Not applicable	Large	Large	Large

Risk of impacts

3.3.8 Taking into consideration the dust emission magnitude of each activity and the sensitivity of the area, the risk of dust effects has been defined as shown in Table 12.

Table 12: Risk of ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Hancocks Bank AW, Ryecroft Covert LWS/AW/SBI and Birkin Brook LWS	Not applicable	Medium risk	Medium risk	Not applicable
Brickhill Wood LWS/AW/SBI, Mill Wood Castle Mill LWS/SBI,	Medium risk	Medium risk	Medium risk	Medium risk

Area	Demolition	Earthworks	Construction	Trackout
Veteran Oak Tree Thorns Green LWS, Jackson's Bank East SBI/LWS and Sunbank Wood and Ponds SBI/AW				
Hennersley Bank AW, Cotterill Clough SSSI, Rossmill SBI, Bollin Bank AW and Warburton Wood AW	Not applicable	High risk	High risk	High risk

3.4 Additional land temporarily required for construction access from Chapel Lane and A556 temporary slip roads (AP2-006-001)

Dust soiling and human health effects

Assessed receptors and sensitivity of the area

- 3.4.1 There are no changes to the air quality information reported in the main ES for this provision of access (AP2-006-001), for dust soiling and human health effects during construction of the AP2 revised scheme.

Ecological effects

Assessed receptors and sensitivity of the area

- 3.4.2 An assessment of ecological effects has been undertaken for ecological receptors Millington Clough LWS, Rushy-Pits Covert SBI and M56/A556 Cloverleaf SBI that are affected by this provision of access (AP2-006-001). These ecological receptors are located within 20m of earthworks, construction and trackout activities. There are no demolition activities in this area.
- 3.4.3 The sensitivity of the area to ecological effects is defined as low for all dust generating activities.

Dust emission magnitude

- 3.4.4 Each dust generating activity has been assigned a dust emission magnitude as shown in Table 13.

Table 13: Dust emission magnitude for ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Millington Clough LWS, Rushy-Pits Covert SBI and M56/A556 Cloverleaf SBI	Not applicable	Large	Large	Large

Risk of impacts

3.4.5 Taking into consideration the dust emission magnitude of each activity and the sensitivity of the area, the risk of dust effects has been defined as shown in Table 14.

Table 14: Risk of ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Millington Clough LWS, Rushy-Pits Covert SBI and M56/A556 Cloverleaf SBI	Not applicable	Low risk	Low risk	Low risk

3.5 Additional land permanently required for water course diversions at Mobberley Road (AP2-006-010)

Dust soiling and human health effects

3.5.1 There are no changes to the air quality reported conclusions in the main ES, or as amended by SES1 and AP1 ES for these water course diversions (AP2-006-010), for dust risk during construction of the AP2 revised scheme.

Ecological effects

Assessed receptors and sensitivity of the area

- 3.5.2 An assessment of ecological effects has been undertaken for ecological receptors Wood near Arden House LWS/SBI, Arden House Wood AW, Ashley Brickworks LWS, Sugar Brook LWS/AW, Unnamed Woodland near Arden House AW, Sugar Brook Grassland LWS and Ecclesfield Wood SBI/LWS that are affected by these water course diversions (AP2-006-010). These ecological sites are located within 20m of earthworks, construction and trackout activities. There are no demolition activities in this area.
- 3.5.3 The sensitivity of the area to ecological effects is defined as medium for all dust generating activities.

Dust emission magnitude

3.5.4 Each dust generating activity has been assigned a dust emission magnitude as shown in Table 15.

Table 15: Dust emission magnitude for ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Wood near Arden House LWS/SBI, Arden House Wood AW, Ashley Brickworks LWS, Sugar Brook LWS/AW, Unnamed Woodland near Arden House AW, Sugar Brook Grassland LWS and Ecclesfield Wood SBI/LWS	Not applicable	Large	Large	Large

Risk of impacts

3.5.5 Taking into consideration the dust emission magnitude of each activity and the sensitivity of the area, the risk of dust effects has been defined as shown in Table 16.

Table 16: Risk of ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Wood near Arden House LWS/SBI, Arden House Wood AW, Ashley Brickworks LWS, Sugar Brook LWS/AW, Unnamed Woodland near Arden House AW, Sugar Brook Grassland LWS and Ecclesfield Wood SBI/LWS	Not applicable	Medium risk	Medium risk	Medium risk

3.6 Additional land permanently required for modifications to Water Framework Directive (WFD) mitigation for Timperley Brook (AP2-006-018)

3.6.1 There are no changes to the air quality reported conclusions in the main ES, or as amended by SES1 and AP1 ES, for this modification of mitigation for Timperley Brook (AP2-006-018) for dust risk during construction of the AP2 revised scheme.

Ecological effects

Assessed receptors and sensitivity of the area

3.6.2 An assessment of ecological effects has been undertaken for ecological receptor Davenport Green Wood AW/SBI that is affected by this modification of mitigation for Timperley Brook

(AP2-006-018). This ecological receptor is located within 20m of earthworks and construction activities. There are no demolition or trackout activities in this area.

3.6.3 The sensitivity of the area to ecological effects is defined as medium for all dust generating activities.

Dust emission magnitude

3.6.4 Each dust generating activity has been assigned a dust emission magnitude as shown in Table 17.

Table 17: Dust emission magnitude for ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Davenport Green Wood AW/SBI.	Not applicable	Large	Large	Not applicable

Risk of impacts

3.6.5 Taking into consideration the dust emission magnitude of each activity and the sensitivity of the area, the risk of dust effects has been defined as shown in Table 18.

Table 18: Risk of ecological effects

Area	Demolition	Earthworks	Construction	Trackout
Davenport Green Wood AW/SBI	Not applicable	Medium risk	Medium risk	Not applicable

Summary of risks

3.6.6 This section summarises the risks for construction dust for the Hulseheath to Manchester Airport (MA06) community area. The risks identified for this modification of mitigation for Timperley Brook (AP2-006-018) are summarised in Table 19, Table 20 summarises the new overall risk for the whole of the Hulseheath to Manchester Airport (MA06) community area.

3.6.7 Table 20 shows that the risk summary for the whole Hulseheath to Manchester Airport (MA06) community area is the same between that reported in the main ES, and for the AP2 revised scheme, with the exception of the ecological risk for demolition. The ecological risk for demolition changes from 'low to medium' in the main ES, to 'medium' in the AP2 revised scheme. This assessment does not change the conclusion of the main ES.

Table 19: Summary of risks for construction dust assessment accounting for the AP2 amendment (areas affected by the AP2 revised scheme)

Activity	Dust Soiling	Human Health	Ecological Effects
Demolition	Low	Negligible to low	Medium
Earthworks	High	Low to medium	Low to high
Construction	High	Low to medium	Low to high
Trackout	Medium to high	Low to medium	Low to high

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Table 20: Summary of risks for construction dust assessment accounting for the AP2 amendment (Hulseheath to Manchester Airport (MA06) community area)

Activity	Dust Soiling	Human Health	Ecological Effects
Demolition	Negligible to High	Negligible to High	Medium
Earthworks	Medium to High	Low to Medium	Low to High
Construction	Medium to High	Low to Medium	Low to High
Trackout	Medium to High	Low to Medium	Low to High

4 Assessment of road traffic emissions

4.1 Overview

4.1.1 This section provides details of the assessment of road traffic emissions during construction of the AP2 revised scheme. The assessment considers the combined effects of SES2 changes and AP2 amendments in this area.

4.2 Model verification

4.2.1 Since the main ES, additional traffic information has been collected, as well as further information relating to local junction modelling. As a result of this, revised traffic data for the baseline year of 2018 and future baseline years for construction and operation has become available. The model verification has therefore been updated to take account of this revised baseline traffic data.

4.2.2 Model verification was undertaken on a route-wide basis where monitoring sites are located adjacent to the modelled road network. The objectives of the model verification are to evaluate model performance and to determine if model adjustment is required.

4.2.3 Some monitoring locations were not considered suitable for model verification, due to missing traffic or monitoring data, or other spatial considerations. A total of 31 monitoring sites were included in the model verification exercise. The comparison of monitored and modelled NO₂ concentrations is shown in Table 21.

Table 21: Comparison of monitored and modelled NO₂ concentrations

Site	Monitored concentration (µg/m ³)	Modelled concentration (µg/m ³)	Percent difference (modelled - monitored/monitored)
MA06.2 ^a	28.7	20.7	-27.9%
MA06.4 ^a	31.3	32.9	5.1%
MA06.5 ^a	32.0	34.7	8.4%
MA06.6 ^a	37.7	30.2	-19.9%
SK12 ^a	38.0	37.2	-2.1%
STK7 ^a	37.4	37.2	-0.5%
(89a 89b) ^a	30.6	28.7	-6.2%
(86a 86b) ^a	32.0	26.2	-18.1%
M-36 ^a	33.1	26.8	-19.0%
MA07.1 ^a	45.7	36.0	-21.2%
MA07.3 ^a	30.2	23.0	-23.8%
MA08.4 ^a	41.3	31.5	-23.7%
TM13 ^a	41.8	41.2	-1.4%
TM24 ^a	32.1	23.4	-27.1%
TM56 ^a	42.8	36.5	-14.7%

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Site	Monitored concentration (µg/m ³)	Modelled concentration (µg/m ³)	Percent difference (modelled - monitored/monitored)
SK20 ^a	41.9	38.9	-7.2%
MA04.01 ^b	32.0	20.3	-36.6%
MA04.02 ^b	20.6	19.3	-6.3%
MA04.03 ^b	21.6	13.9	-35.6%
CE301 ^c	42.8	38.4	-10.3%
CE54 ^c	42.7	35.5	-16.9%
CE298 ^c	26.4	18.1	-31.4%
MA03.4 ^c	21.8	17.6	-19.3%
MA03.5 ^c	18.2	16.0	-12.1%
MA06.1 ^c	19.5	16.7	-14.4%
MA06.3 ^c	22.6	23.0	1.8%
WADT5 ^d	45.6	52.8	15.8%
MA05.6 ^d	40.4	33.0	-18.3%
CWAC_AH ^d	19.4	26.7	37.6%
CWAC_AP ^d	25.3	35.2	39.1%
CE76 ^d	17.3	22.3	28.9%

Note: ^a denotes sites used to derive the adjustment factor for locations to the north of MA06. ^b denotes sites used to derive the adjustment factor for locations to the north of the MA06 boundary (the previous MA04 and MA05 areas in the main ES and the main ES as amended by SES1 and AP1 ES). ^c denotes sites used to derive the adjustment factor for locations to the south of MA06. ^d denotes sites used to derive the adjustment factor for locations to the south of MA06 surrounding the strategic road network.

4.2.4 As some of the modelled NO₂ concentrations were greater than ±25% of the monitored concentrations and given that there were differences in under and overpredictions in different areas depending on local factors, model adjustment was undertaken and four verification factors were used in the Hulseheath to Manchester Airport (MA06) community area. To the north of the MA06 area a verification factor of 1.1 was applied, with the south of the MA06 area getting a verification factor of 1.4 applied. Modelled concentrations to the north of the MA06 boundary (the previous MA04 and MA05 community areas in the main ES and the main ES as amended by SES1 and AP1 ES) had a verification factor of 2.4 applied. Since areas to the south of the MA06 area surrounding the strategic road network were found to be overpredicting, a verification factor of 1 was applied in these areas as a conservative assumption. Modelled concentrations of PM₁₀ and PM_{2.5} have not been adjusted. The comparison of monitored and adjusted modelled NO₂ concentrations is shown in Table 22.

Table 22: Comparison of monitored and adjusted modelled NO₂ concentrations

Site	Monitored concentration (µg/m ³)	Modelled adjusted concentration (µg/m ³)	Percent difference (modelled - monitored/monitored)	Verification factor
MA06.2 ^a	28.7	21.4	-25.4%	1.1
MA06.4 ^a	31.3	33.6	7.3%	1.1

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Site	Monitored concentration ($\mu\text{g}/\text{m}^3$)	Modelled adjusted concentration ($\mu\text{g}/\text{m}^3$)	Percent difference (modelled - monitored/monitored)	Verification factor
MA06.5 ^a	32.0	35.3	10.3%	1.1
MA06.6 ^a	37.7	30.8	-18.3%	1.1
SK12 ^a	38.0	38.7	1.8%	1.1
STK7 ^a	37.4	38.8	3.7%	1.1
(89a 89b) ^a	30.6	29.6	-3.3%	1.1
(86a 86b) ^a	32.0	26.8	-16.3%	1.1
M-36 ^a	33.1	27.3	-17.5%	1.1
MA07.1 ^a	45.7	37.2	-18.6%	1.1
MA07.3 ^a	30.2	23.4	-22.5%	1.1
MA08.4 ^a	41.3	32.6	-21.1%	1.1
TM13 ^a	41.8	42.6	1.9%	1.1
TM24 ^a	32.1	24.0	-25.2%	1.1
TM56 ^a	42.8	37.5	-12.4%	1.1
SK20 ^a	41.9	39.9	-4.8%	1.1
MA04.01 ^b	32.0	30.3	-5.3%	2.4
MA04.02 ^b	20.6	25.6	24.3%	2.4
MA04.03 ^b	21.6	16.7	-22.7%	2.4
CE301 ^c	42.8	45.4	6.1%	1.4
CE54 ^c	42.7	41.5	-2.8%	1.4
CE298 ^c	26.4	20.4	-22.7%	1.4
MA03.4 ^c	21.8	20.2	-7.3%	1.4
MA03.5 ^c	18.2	16.7	-8.2%	1.4
MA06.1 ^c	19.5	18.3	-6.2%	1.4
MA06.3 ^c	22.6	24.8	9.7%	1.4
WADT5 ^d	45.6	45.1	-1.1%	1
MA05.6 ^d	40.4	29.9	-26.0%	1
CWAC_AH ^d	19.4	24.1	24.2%	1
CWAC_AP ^d	25.3	30.9	22.1%	1
CE76 ^d	17.3	20.3	17.3%	1

Note: ^a denotes sites used to derive the adjustment factor for locations to the north of MA06. ^b denotes sites used to derive the adjustment factor for locations to the north of the MA06 boundary (the previous MA04 and MA05 areas in the main ES and the main ES as amended by SES1 and AP1 ES). ^c denotes sites used to derive the adjustment factor for locations to the south of MA06. ^d denotes sites used to derive the adjustment factor for locations to the south of MA06 surrounding the strategic road network.

4.3 Assessment of construction traffic emissions

- 4.3.1 The assessment of construction traffic emissions has used traffic data based on an estimate of the average daily flows in the peak year during the construction period (2026–2039). However, vehicle emissions and background concentrations have been taken for the first construction year in 2026. Five construction scenarios have been assessed for air quality to capture peak construction traffic activity at different times in the construction period. It has been assumed that the changes in construction traffic will occur for the whole year. In some cases, this is a conservative approach, as the duration of the peak traffic flows may well be much shorter. These scenarios have been assessed against the relevant future baseline case without the AP2 revised scheme.
- 4.3.2 Traffic data in the study area have been screened to identify roads that require further assessment and to confirm the likely effect of the change in emissions from vehicles using these roads during construction of the AP2 revised scheme.
- 4.3.3 Traffic data for construction vehicles using the site haul routes and moving between compounds have also been included in the assessment. Additional roads have also been included in the assessment where relevant to account for their emissions at nearby receptors.

Receptors assessed and background concentrations

- 4.3.4 Details of the assessed receptors used in the assessment remain as reported within the main ES, Volume 5, Appendix: AQ-001-0MA06, or the main ES as amended by SES1 and AP1 ES Appendices: AQ-001-0MA04 and AQ-001-0MA05. There were 47 human receptors modelled in the main ES, or the main ES as amended by SES1 and AP1 ES, that have not been modelled as part of the AP2 revised scheme and 128 receptors have been added, due to changes in the study area. Details of the assessed human receptors and the background concentrations used in the assessment are shown in Table 23. The location of all receptors is shown in the accompanying SES2 and AP2 ES, Volume 5, Air quality Map Book: Map Series AQ-01.
- 4.3.5 Six designated ecological receptors, Woolston Eyes SSSI, Holcroft Moss SSSI (which forms part of the Manchester Mosses SAC), Cotterill Clough SSSI, Lindow Common SSSI, Tatton Meres SSSI and Rostherne Mere SSSI and Ramsar site were identified within 200m of the screened in roads within the Hulseheath to Manchester Airport (MA06) community area during construction of the AP2 revised scheme. Note: ** indicates that receptor was added at SES2 and AP2 ES.
- 4.3.6 Table 24 shows the background concentrations for NO_x, background nitrogen deposition and critical loads. Table 25 shows the background acid deposition, critical loads and background ammonia concentrations. Acid deposition and ammonia were not previously

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assessed in the main ES. Woolston Eyes SSSI is not sensitive to acid deposition and has therefore not been assessed for acid deposition.

Table 23: Modelled human receptors and background concentrations (construction phase)

Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2026 ($\mu\text{g}/\text{m}^3$)			
			NOx	NO2	PM10	PM2.5
04-C-H001	Burford Lane, Lymm	370523, 386054	11.2	8.7	9.7	6.3
04-C-H002	Weaste Lane, Warrington	366309, 386655	11.6	9.0	12.4	7.5
04-C-H015**	Nursery Farm, Barton Moss Road, Manchester	373452, 397513	18.1	13.4	12.0	7.6
04-C-H016**	Cutnook Lane, Manchester	372209, 395774	15.2	11.4	12.4	7.9
04-C-H017**	Crossfield Road, Manchester	373465, 395770	16.7	12.4	11.4	7.5
04-C-H018**	Dove Drive, Irlam	372101, 395463	15.2	11.4	12.4	7.9
04-C-H019**	Cutnook Lane, Irlam	372080, 395436	15.2	11.4	12.4	7.9
04-C-H020**	Quay House, Bankquay Court, Manchester	372685, 394094	16.2	12.1	11.4	7.5
04-C-H021**	The Locks, Forebay Drive, Manchester	372729, 394086	16.2	12.1	11.4	7.5
04-C-H022**	Rixtonleys Drive, Manchester	372671, 394061	16.2	12.1	11.4	7.5
04-C-H023**	Roseway Avenue, Manchester	371463, 392027	16.7	12.4	11.7	7.4
04-C-H024**	Manchester Road, Warrington	369771, 390834	12.3	9.4	11.1	6.9
04-C-H025**	Manchester Road, Warrington	369335, 390526	12.3	9.4	11.1	6.9
04-C-H026**	M6 J21	365762, 389861	16.7	12.4	12.5	8.0
04-C-H027**	M6, Warrington AT HEIGHT	366103, 389197	13.9	10.6	12.8	7.8
04-C-H028**	Birch Brook Road, Lymm	370247, 388688	11.2	8.6	10.3	6.4
04-C-H029**	Massey Avenue, Lymm	366472, 386929	11.6	9.0	12.4	7.5
04-C-H030**	Burford Lane, Lymm	370550, 385987	11.7	9.0	11.1	7.0
04-C-H031**	Higher Lane, Lymm	370694, 385951	11.7	9.0	11.1	7.0
04-C-H032**	Higher Lane, Lymm	370582, 385946	11.7	9.0	11.1	7.0
04-C-H033**	High Legh Road, Lymm	370547, 385945	11.7	9.0	11.1	7.0

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Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2026 ($\mu\text{g}/\text{m}^3$)			
			NOx	NO2	PM10	PM2.5
04-C-H034**	Higher Lane, Lymm	370794, 385883	11.7	9.0	11.1	7.0
04-C-H035**	Agden Park Lane, Lymm	370824, 385659	11.7	9.0	11.1	7.0
05-C-H002	Southworth Road, Newton-Le-Willows	360053, 395638	12.9	9.8	13.3	7.9
05-C-H008	Houghwood Grange, Ashton-in-Makerfield	356829, 399157	13.0	9.9	12.8	8.0
05-C-H009	Houghwood Grange, Ashton-in-Makerfield	356821, 399174	13.0	9.9	12.8	8.0
05-C-H010	Houghwood Grange, Ashton-in-Makerfield	356817, 399187	13.0	9.9	12.8	8.0
05-C-H011	Houghwood Grange, Ashton-in-Makerfield	356802, 399194	13.0	9.9	12.8	8.0
05-C-H012	Houghwood Grange, Ashton-in-Makerfield	356795, 399222	13.0	9.9	12.8	8.0
05-C-H013	Skitters Grove, Ashton-in-Makerfield	356558, 399585	13.0	9.9	12.8	8.0
05-C-H014	M6, Ashton-in-Makerfield	356513, 400502	13.1	9.9	13.0	8.2
05-C-H015	M6, Ashton-in-Makerfield	356462, 400647	13.1	9.9	13.0	8.2
05-C-H016	M6, Ashton-in-Makerfield	356442, 400678	13.1	9.9	13.0	8.2
05-C-H017	M6, Ashton-in-Makerfield	356433, 400716	13.1	9.9	13.0	8.2
05-C-H018	Downhall Green Road, Ashton-in-Makerfield	356315, 400735	13.1	9.9	13.0	8.2
05-C-H019	Downhall Green Road, Ashton-in-Makerfield	356415, 400755	13.1	9.9	13.0	8.2
05-C-H020	Downhall Green Road, Ashton-in-Makerfield	356405, 400756	13.1	9.9	13.0	8.2
05-C-H021	Downhall Green Road, Ashton-in-Makerfield	356395, 400756	13.1	9.9	13.0	8.2
05-C-H022	Downhall Green Road, Ashton-in-Makerfield	356419, 400757	13.1	9.9	13.0	8.2
05-C-H023	Downhall Green Road, Ashton-in-Makerfield	356378, 400781	13.1	9.9	13.0	8.2
05-C-H024	Downhall Green Road, Ashton-in-Makerfield	356383, 400783	13.1	9.9	13.0	8.2
05-C-H025	Downhall Green Road, Ashton-in-Makerfield	356387, 400784	13.1	9.9	13.0	8.2
05-C-H026	Downhall Green Road, Ashton-in-Makerfield	356299, 400785	13.1	9.9	13.0	8.2
05-C-H027	Downhall Green Road, Ashton-in-Makerfield	356391, 400786	13.1	9.9	13.0	8.2

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Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2026 ($\mu\text{g}/\text{m}^3$)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
05-C-H028	Downhall Green Road, Ashton-in-Makerfield	356398, 400788	13.1	9.9	13.0	8.2
05-C-H029	Downhall Green Road, Ashton-in-Makerfield	356403, 400790	13.1	9.9	13.0	8.2
05-C-H030	Downhall Green Road, Ashton-in-Makerfield	356407, 400791	13.1	9.9	13.0	8.2
05-C-H032	Warrington Road, Wigan	356843, 402277	13.2	10.0	11.6	7.3
05-C-H033**	M6, Warrington	362040, 393168	14.2	10.8	13.2	7.9
05-C-H034**	Inglewood Close, Warrington	366966, 393024	27.8	19.3	12.5	7.9
05-C-H035**	Inglewood Close, Birchwood, Warrington	366910, 393017	27.8	19.3	12.5	7.9
05-C-H036**	Cross Lane, Warrington, AT HEIGHT	364653, 392986	16.4	12.2	12.4	7.9
05-C-H037**	Cross Lane South, Warrington, AT HEIGHT	365025, 392974	18.6	13.7	11.4	7.4
05-C-H038**	M6, Warrington	362758, 392719	23.6	17.0	12.7	8.0
05-C-H039**	Mill House Lane, Warrington	363253, 392669	24.4	17.5	12.9	8.0
05-C-H040**	M62, Warrington	363664, 392552	24.4	17.5	12.9	8.0
05-C-H041**	M62, Warrington	363802, 392364	24.4	17.5	12.9	8.0
05-C-H042**	Delph Lane, Warrington	362074, 392087	23.6	17.0	12.7	8.0
05-C-H043**	Mill Lane, Warrington	362156, 391947	16.2	12.1	11.6	7.8
05-C-H044**	St Andrews Close, Warrington	363073, 391944	15.5	11.7	12.7	8.2
05-C-H045**	Peel Cottage Lane, Warrington	361609, 391928	18.4	13.6	12.8	8.4
05-C-H046**	Dig Lane, Warrington	363715, 391544	15.5	11.7	12.7	8.2
05-C-H047**	Locking Stumps Lane, Warrington	364030, 391524	17.1	12.7	12.6	8.1
05-C-H048**	University of Chester	363886, 391156	15.5	11.7	12.7	8.2
6-C-H001	London Road, Alderley Edge	384349, 378484	11.6	8.9	8.9	5.9
6-C-H002	Alderley Edge School for Girls, Wilmslow Road, Alderley Edge	384216, 378757	11.6	8.9	8.9	5.9
6-C-H003	Hurst Lea Court, Alderley Edge	384230, 378807	11.6	8.9	8.9	5.9

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Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2026 (µg/m ³)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
6-C-H004	Brook Lane, Alderley Edge	384168, 378880	11.6	8.9	8.9	5.9
6-C-H005	Brook Lane, Alderley Edge	383293, 379212	10.5	8.1	8.9	6.0
6-C-H006	Brook Lane, Alderley Edge	383178, 379297	10.5	8.1	8.9	6.0
6-C-H007	Mobberley Road, Knutsford	376717, 379440	12.2	9.3	9.7	6.3
6-C-H008	Hall Lane, Mobberley	379850, 379455	9.8	7.6	8.8	5.8
6-C-H009	Hall Lane, Knolls Green	379788, 379465	9.8	7.6	8.8	5.8
6-C-H012	Tipping Brow, Mobberley	379107, 379740	9.8	7.6	8.8	5.8
6-C-H013	Hough Lane, Wilmslow	385709, 379870	9.8	7.6	8.4	5.6
6-C-H014	Hough Lane, Wilmslow	385792, 380148	10.5	8.1	8.9	5.9
6-C-H015	Kingsley Lodge, Wilmslow	385815, 380449	10.5	8.1	8.9	5.9
6-C-H016	Burnside Close, Wilmslow	385046, 380491	10.5	8.1	8.9	5.9
6-C-H017	Prestbury Road, Wilmslow	385871, 380496	10.5	8.1	8.9	5.9
6-C-H018	Avondale Rise, Wilmslow	385836, 380512	10.5	8.1	8.9	5.9
6-C-H019	Burnside Close, Wilmslow	385033, 380524	10.5	8.1	8.9	5.9
6-C-H020	Alderley Road, Wilmslow	384243, 380540	11.8	9.0	8.9	6.0
6-C-H021	Alderley Road, Wilmslow	384304, 380581	11.8	9.0	8.9	6.0
6-C-H023	Alderley Road, Wilmslow	384375, 380660	11.8	9.0	8.9	6.0
6-C-H024	Alderley Road, Wilmslow	384376, 380707	11.8	9.0	8.9	6.0
6-C-H025	Albert Road, Wilmslow	384406, 380749	11.8	9.0	8.9	6.0
6-C-H026	Cygnets Court (Nursery), Hawthorn Street, Wilmslow	384138, 380806	11.8	9.0	8.9	6.0
6-C-H027	Queen Anne Court, Macclesfield Road, Wilmslow	385083, 380817	10.5	8.1	8.9	5.9
6-C-H028	Alderley Road, Wilmslow	384491, 380846	11.8	9.0	8.9	6.0
6-C-H029	The Hawthorns (Nursery), Hawthorn Street, Wilmslow	384186, 380853	11.8	9.0	8.9	6.0
6-C-H030	Lawdon Court, Beech Lane	384170, 380884	11.8	9.0	8.9	6.0
6-C-H031	Beech Lane, Wilmslow	384176, 380944	11.8	9.0	8.9	6.0
6-C-H032	Alderley Road, Wilmslow	384539, 380968	11.8	9.0	8.9	6.0
6-C-H033	Wilmslow Park Street, Wilmslow	385142, 381081	11.9	9.1	9.4	6.3
6-C-H034	Water Lane, Wilmslow	384235, 381113	12.5	9.5	9.2	6.2

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Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2026 (µg/m ³)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
6-C-H035	Macclesfield Road, Wilmslow	385111, 381129	11.9	9.1	9.4	6.3
6-C-H036	Water Lane Wilmslow	384244, 381130	12.5	9.5	9.2	6.2
6-C-H037	Station Road, Wilmslow	384850, 381177	12.5	9.5	9.2	6.2
6-C-H038	Swan Street, Wilmslow	384829, 381181	12.5	9.5	9.2	6.2
6-C-H043	Pownall Court, Wilmslow	383270, 381652	11.6	8.9	9.0	6.1
6-C-H044	Wallworth Terrace, Wilmslow	383220, 381678	11.6	8.9	9.0	6.1
6-C-H046	Connaught Close, Wilmslow	385432, 381721	11.9	9.1	9.4	6.3
6-C-H047	Styal Road, Wilmslow	384914, 381793	12.5	9.5	9.2	6.2
6-C-H048	Styal Road, Wilmslow	384917, 381822	12.5	9.5	9.2	6.2
6-C-H049	Altrincham Road, Wilmslow	383166, 381862	11.6	8.9	9.0	6.1
6-C-H050	Kingsbury Drive, Wilmslow	385589, 381883	11.9	9.1	9.4	6.3
6-C-H052	Lancelyn Drive, Wilmslow	385888, 381919	11.9	9.1	9.4	6.3
6-C-H056	Altrincham Road, Wilmslow	383103, 381987	11.6	8.9	9.0	6.1
6-C-H057	Queensbury Close, Wilmslow	385816, 381988	11.9	9.1	9.4	6.3
6-C-H058	Heathfield Farm, Wilmslow	386574, 382048	12.8	9.7	9.3	6.2
6-C-H059	Woodcote View, Wilmslow	386779, 382050	12.8	9.7	9.3	6.2
6-C-H060	Tudor Green, Wilmslow	386268, 382061	12.8	9.7	9.3	6.2
6-C-H061	Hunters Close Path, Wilmslow	386625, 382066	12.8	9.7	9.3	6.2
6-C-H062	Wilmslow Road, Stockport	388053, 382103	10.2	7.9	8.5	5.7
6-C-H063	Wilmslow Road, Stockport	388277, 382233	10.2	7.9	8.5	5.7
6-C-H064	Tatton Dale, Knutsford	374230, 382251	10.3	8.0	9.8	6.2
6-C-H067	Stanneylands Road, Wilmslow	385261, 382483	12.7	9.7	9.2	6.2
6-C-H069	Rostherne Drive, Rostherne	374836, 382723	10.3	8.0	9.8	6.2
6-C-H071	Altrincham Road, Wilmslow	382012, 382901	12.4	9.4	9.4	6.0
6-C-H073	Chester Road, Bucklow Hill	373133, 383244	11.4	8.8	10.1	6.4
6-C-H074	Mobberley Road, Ashley	377168, 383287	11.7	9.0	9.3	6.0
6-C-H075	Ashley Road, Ashley	375609, 383290	11.2	8.7	9.5	6.1
6-C-H077	Chapel Lane, Bucklow Hill	372868, 383443	10.5	8.1	11.2	6.8
6-C-H080	Mill Lane, Ashley	380322, 383710	15.5	11.6	9.5	6.1

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Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2026 (µg/m ³)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
6-C-H081	Chapel Lane, Bucklow Hill	372410, 383775	10.5	8.1	11.2	6.8
6-C-H082	Mill Lane, Ashley	380023, 383798	15.5	11.6	9.5	6.1
6-C-H083	Millington Hall Lane, Millington	372941, 383835	10.5	8.1	11.2	6.8
6-C-H084	Back Lane, Ashley	378711, 383904	12.3	9.4	9.2	6.0
6-C-H085	Mobberley Road, Ashley	377600, 384015	16.7	12.5	11.6	7.2
6-C-H086	Back Lane, Ashley	379013, 384020	18.9	13.9	11.3	7.1
6-C-H087	Ashley Road, Ashley	376538, 384036	16.6	12.5	12.1	7.3
6-C-H088	Birkinheath Lane, Rostherne	375765, 384042	19.1	14.1	12.0	7.3
6-C-H089	Castle Mill Lane, Ashley	379134, 384111	18.9	13.9	11.3	7.1
6-C-H091	Cherry Tree Lane, Rostherne	375240, 384127	19.1	14.1	12.0	7.3
6-C-H092	Ashley Road, Ashley	377498, 384220	16.7	12.5	11.6	7.2
6-C-H093	Ashley Road, Ashley	377450, 384231	16.7	12.5	11.6	7.2
6-C-H094	Chester Road, Millington	373407, 384236	13.5	10.3	10.9	6.8
6-C-H095	Ashley Road, Ashley	377478, 384239	16.7	12.5	11.6	7.2
6-C-H096	Cow Lane, Ashley	377538, 384250	16.7	12.5	11.6	7.2
6-C-H097	Thowler Lane, Moston	372073, 384293	11.1	8.6	10.1	6.4
6-C-H099	Birkinheath Lane, Ashley	375495, 384345	19.1	14.1	12.0	7.3
6-C-H100	Millington Lane, Millington	373373, 384363	13.5	10.3	10.9	6.8
6-C-H101	Sunbank Lane, Manchester (Compound)	379907, 384410	14.6	11.0	11.3	7.1
6-C-H102	Millington Lane, Rostherne	373306, 384424	13.5	10.3	10.9	6.8
6-C-H103	Thowler Lane, Millington	372008, 384525	11.1	8.6	10.1	6.4
6-C-H105	Tanyard Farm, Castle Mill Lane	378017, 384550	17.5	13.1	11.4	7.1
6-C-H106	Cherry Tree Lane, Rostherne	374649, 384608	12.8	9.8	9.8	6.4
6-C-H107	House near riding stables, Hale Barns	379319, 384657	14.6	11.0	11.3	7.1
6-C-H108	Wilmslow Road, Altrincham	380860, 384698	27.8	19.0	10.6	6.9
6-C-H111	Chester Road, Millington	373765, 384816	13.5	10.3	10.9	6.8
6-C-H112	Warburton Drive, Altrincham (Compound)	379816, 384834	14.6	11.0	11.3	7.1
6-C-H113	Ryecroft Farm, Altrincham	375498, 384864	19.1	14.1	12.0	7.3

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Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2026 ($\mu\text{g}/\text{m}^3$)			
			NOx	NO2	PM10	PM2.5
6-C-H114	Cherry Tree Lane, Rostherne	373885, 384894	13.5	10.3	10.9	6.8
6-C-H116	Cherry Tree Lane, Rostherne	374008, 384929	12.8	9.8	9.8	6.4
6-C-H117	Coe Lane, Rostherne	373440, 385104	15.5	11.7	11.4	7.1
6-C-H118	Hale Barns, Altrincham (Compound)	380095, 385223	29.2	19.8	11.9	7.6
6-C-H119	Hasty Lane, Hale Barns	380165, 385305	29.2	19.8	11.9	7.6
6-C-H120	Hasty Lane, Hale Barns	380118, 385406	29.2	19.8	11.9	7.6
6-C-H121	Reddy Lane, Millington	372565, 385463	14.4	10.9	11.2	7.0
6-C-H122	Hale Road, Hale Barns	379855, 385469	16.6	12.4	10.0	6.6
6-C-H123	Yarwoodheath Lane, Altrincham	374644, 385486	23.3	17.0	12.1	7.5
6-C-H124	Reddy Lane, Millington	372553, 385488	14.4	10.9	11.2	7.0
6-C-H125	Hasty Lane, Hale Barns	380579, 385500	29.2	19.8	11.9	7.6
6-C-H126	Elmridge Primary School, Wilton Drive, Hale Barns	379415, 385657	16.6	12.4	10.0	6.6
6-C-H127	Hale Road, Hale Barns, Altrincham	379537, 385663	16.6	12.4	10.0	6.6
6-C-H128	Reddy Lane, Millington	372628, 385698	14.4	10.9	11.2	7.0
6-C-H129	Hale Road, Hale Barns, Altrincham	379336, 385719	16.6	12.4	10.0	6.6
6-C-H130	Hale Road, Hale Barns, Altrincham	379299, 385773	16.6	12.4	10.0	6.6
6-C-H131	Abinger Road, Hale Barns	379130, 385913	16.6	12.4	10.0	6.6
6-C-H132	Abinger Road, Hale Barns	379146, 385925	16.6	12.4	10.0	6.6
6-C-H133	The Dell, Altrincham	377189, 385979	13.9	10.6	10.6	6.6
6-C-H134	Park Road, Altrincham	377541, 386032	14.7	11.1	10.1	6.6
6-C-H135	Hale, Altrincham	377574, 386034	14.7	11.1	10.1	6.6
6-C-H136	Shay Lane, Hale Barns	379076, 386057	15.2	11.4	9.7	6.4
6-C-H137	Thorley Lane, Manchester	381207, 386096	21.0	15.1	12.6	8.1
6-C-H138	Brooks Drive, Altrincham (Compound)	380248, 386104	17.3	12.8	11.9	7.6
6-C-H139	Ashley Road, Altrincham	377242, 386106	14.7	11.1	10.1	6.6
6-C-H140	Hale Road, Hale Barns, Altrincham	378981, 386133	14.1	10.7	9.9	6.6
6-C-H141	Wolf Grange, Altrincham	377237, 386134	14.7	11.1	10.1	6.6

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			NOx	NO2	PM10	PM2.5
6-C-H142	Park Road, Altrincham	377277, 386136	14.7	11.1	10.1	6.6
6-C-H143	Hale Road, Hale Barns, Altrincham	378793, 386150	14.1	10.7	9.9	6.6
6-C-H144	South Downs Road, Altrincham	377046, 386175	14.7	11.1	10.1	6.6
6-C-H145	Thorley Lane, Altrincham	380861, 386205	17.3	12.8	11.9	7.6
6-C-H146	Park Road, Altrincham	377791, 386211	14.7	11.1	10.1	6.6
6-C-H147	Broad Lane, Hale Barns	378728, 386247	14.1	10.7	9.9	6.6
6-C-H148	Broad Lane, Altrincham	378694, 386292	14.1	10.7	9.9	6.6
6-C-H149	Dunham Road, Bowdon, Altrincham	374735, 386414	12.4	9.5	10.5	6.6
6-C-H150	South Downs Road, Altrincham	376217, 386478	14.2	10.8	10.0	6.6
6-C-H151	Langham Road, Bowdon, Altrincham	376168, 386499	14.2	10.8	10.0	6.6
6-C-H152	Ashley Road, Altrincham	377359, 386501	14.7	11.1	10.1	6.6
6-C-H153	Bowdon, Altrincham	376491, 386502	14.2	10.8	10.0	6.6
6-C-H154	Hale, Altrincham	378570, 386505	14.1	10.7	9.9	6.6
6-C-H155	Hale Road, Hale Barns	378514, 386518	14.1	10.7	9.9	6.6
6-C-H156	Planetree Road, Altrincham	378315, 386574	14.1	10.7	9.9	6.6
6-C-H157	Bowdon, Altrincham	375997, 386590	13.5	10.3	9.9	6.5
6-C-H158	Hale Road, Altrincham	378396, 386640	14.1	10.7	9.9	6.6
6-C-H159	Langham Road, Bowdon, Altrincham	375827, 386676	13.5	10.3	9.9	6.5
6-C-H160	Ash Lane, Hale	379397, 387067	14.8	11.1	9.8	6.6
6-C-H161	Grove Lane, Timperley	379350, 387070	14.8	11.1	9.8	6.6
6-C-H162	Grove Lane, Hale	378567, 387071	14.7	11.1	10.1	6.7
6-C-H163	Bowdon, Altrincham	375162, 387072	13.2	10.1	9.9	6.5
6-C-H164	Delahays Road, Hale	378542, 387083	14.7	11.1	10.1	6.7
6-C-H165	Grove Lane, Timperley	378576, 387105	14.7	11.1	10.1	6.7
6-C-H166	Grove Lane, Timperley	378548, 387106	14.7	11.1	10.1	6.7
6-C-H167	Grove Lane, Hale, Altrincham	379182, 387167	14.8	11.1	9.8	6.6
6-C-H168	Grove Lane, Timperley	379215, 387195	14.8	11.1	9.8	6.6
6-C-H169	Grove Lane, Timperley	379166, 387196	14.8	11.1	9.8	6.6

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			NO _x	NO ₂	PM ₁₀	PM _{2.5}
6-C-H174	Thorley Lane, Altrincham	379003, 388496	15.6	11.7	10.9	7.4
6-C-H175	Shaftesbury Road, Altrincham	379277, 388759	15.6	11.7	10.9	7.4
6-C-H176	Sherway Drive, Timperley	379397, 388992	15.6	11.7	10.9	7.4
6-C-H177	Stockport Road, Altrincham	379490, 389256	15.6	11.7	10.9	7.4
6-C-H179	Manchester Road, Altrincham	376920, 389839	17.2	12.8	11.0	7.4
6-C-H187**	London Road, Alderley Edge	384349, 378493	11.6	8.9	8.9	5.9
6-C-H188**	The Meadows, Ryleys Lane, Alderley Edge	384180, 378527	11.6	8.9	8.9	5.9
6-C-H189**	Heyes Lane, Alderley Edge	384627, 378634	11.6	8.9	8.9	5.9
6-C-H191**	South Bank Close, Alderley Edge	384688, 378737	11.6	8.9	8.9	5.9
6-C-H193**	Heyes Lane, Alderley Edge	384857, 378774	11.6	8.9	8.9	5.9
6-C-H195**	Heyes Lane, Alderley Edge	385129, 379133	9.8	7.6	8.4	5.6
6-C-H197**	Brookside Terrace, Alderley Edge	383113, 379274	10.5	8.1	8.9	6.0
6-C-H199**	Knutsford Road, Alderley Edge	383102, 379300	10.5	8.1	8.9	6.0
6-C-H200**	Knutsford Road, Wilmslow	383292, 379646	10.5	8.1	8.9	6.0
6-C-H201**	Knutsford Road, Wilmslow	383833, 380052	10.9	8.4	9.1	6.2
6-C-H202**	Knutsford Road, Wilmslow	383962, 380170	10.9	8.4	9.1	6.2
6-C-H203**	Alderley Lodge, Wilmslow	384223, 380430	11.8	9.0	8.9	6.0
6-C-H204**	Curzon Mews, Wilmslow	384221, 380504	11.8	9.0	8.9	6.0
6-C-H205**	Burleyhurst Lane, Wilmslow	380479, 380618	9.6	7.5	8.7	5.7
6-C-H210**	Buckingham Road, Wilmslow	383787, 381125	11.6	8.9	9.0	6.1
6-C-H211**	Altrincham Road, Wilmslow	384088, 381136	12.5	9.5	9.2	6.2
6-C-H214**	Gorse Bank Primary School, Altrincham Road, Wilmslow	383562, 381311	11.6	8.9	9.0	6.1
6-C-H215**	Stamford Place, Wilmslow	384907, 381371	12.5	9.5	9.2	6.2

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Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2026 (µg/m ³)			
			NOx	NO2	PM10	PM2.5
6-C-H220**	Mobberley Road, Wilmslow	382298, 381981	10.3	8.0	8.6	5.7
6-C-H223**	Dean Row Road, Wilmslow	386673, 382026	12.8	9.7	9.3	6.2
6-C-H224**	Mobberley Road, Wilmslow	382448, 382050	12.4	9.4	9.4	6.0
6-C-H225**	Mobberley Road, Wilmslow	382431, 382052	12.4	9.4	9.4	6.0
6-C-H226**	Dean Road, Wilmslow	386675, 382115	12.8	9.7	9.3	6.2
6-C-H227**	Mobberley Green Road, Wilmslow	382256, 382138	12.4	9.4	9.4	6.0
6-C-H228**	Dean Road, Wilmslow	386576, 382279	12.8	9.7	9.3	6.2
6-C-H229**	Morley Green Road, Wilmslow	382285, 382611	12.4	9.4	9.4	6.0
6-C-H230**	Morley Green Road, Wilmslow	382306, 382679	12.4	9.4	9.4	6.0
6-C-H231**	Morley Green Road, Wilmsow	382362, 382841	12.4	9.4	9.4	6.0
6-C-H233**	Dean Road, Wilmslow	386048, 383212	13.8	10.4	9.4	6.3
6-C-H234**	Wilmslow Road, Handforth	385705, 383240	12.8	9.8	9.2	6.3
6-C-H235**	Wilmslow Road, Wilmslow	385743, 383283	12.8	9.8	9.2	6.3
6-C-H236**	The Whitehouse, Spath Lane, Wilmslow	385665, 384149	13.7	10.3	9.4	6.4
6-C-H237**	Wilmslow Road, Wilmslow	385578, 384342	13.7	10.3	9.4	6.4
6-C-H243**	Warburton Drive, Hale	379834, 384842	14.6	11.0	11.3	7.1
6-C-H244**	Chapel Lane, Hale Barns	379584, 384900	14.6	11.0	11.3	7.1
6-C-H245**	Greengate, Hale Barns	379608, 384910	14.6	11.0	11.3	7.1
6-C-H247**	High Elm Road, Hale Barns	379694, 385269	16.6	12.4	10.0	6.6
6-C-H252**	Chapel Lane, Hale Barns	379218, 385588	16.6	12.4	10.0	6.6
6-C-H253**	Tithebarn Road, Hale Barns	379222, 385625	16.6	12.4	10.0	6.6
6-C-H254**	Tithebarn Road, Hale Barns	379199, 385643	16.6	12.4	10.0	6.6

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			NO _x	NO ₂	PM ₁₀	PM _{2.5}
6-C-H256**	Tithebarn Road, Hale Barns	379214, 385666	16.6	12.4	10.0	6.6
6-C-H257**	Chapel Lane, Hale Barns	378931, 385718	13.7	10.4	9.6	6.3
6-C-H258**	Hawley Lane, Hale Barns	378914, 385721	13.7	10.4	9.6	6.3
6-C-H260**	Wicker Lane, Hale Barns, Altrincham	378966, 385731	13.7	10.4	9.6	6.3
6-C-H262**	Tithebarn Road, Hale Barns	379267, 385787	16.6	12.4	10.0	6.6
6-C-H263**	Bankhall Lane, Hale	378482, 385831	13.7	10.4	9.6	6.3
6-C-H264**	Bankhall Lane, Hale	378371, 385848	13.7	10.4	9.6	6.3
6-C-H265**	Bankhall Lane, Hale	378475, 385858	13.7	10.4	9.6	6.3
6-C-H266**	Bankhall Lane, Hale	378504, 385859	13.7	10.4	9.6	6.3
6-C-H267**	Bankhall Lane, Hale	378516, 385862	13.7	10.4	9.6	6.3
6-C-H268**	Ashley Road, Altrincham	377177, 385884	13.9	10.6	10.6	6.6
6-C-H270**	Bankhall Lane, Hale	378195, 385923	13.7	10.4	9.6	6.3
6-C-H272**	Arthog Road, Altrincham	377513, 386010	14.7	11.1	10.1	6.6
6-C-H274**	Arthog Road, Altrincham	377525, 386033	14.7	11.1	10.1	6.6
6-C-H277**	Thorley Lane, Manchester	381196, 386084	21.0	15.1	12.6	8.1
6-C-H279**	South Downs Road, Altrincham	377090, 386099	14.7	11.1	10.1	6.6
6-C-H287**	Ash Lane, Altrincham	379308, 386371	15.2	11.4	9.7	6.4
6-C-H290**	Shay Lane, Altrincham	380334, 386485	17.3	12.8	11.9	7.6
6-C-H296**	Davenport Green, Roaring Gate Lane, Altrincham	380415, 386595	17.3	12.8	11.9	7.6
6-C-H298**	Delahays Road, Hale	378468, 386708	14.1	10.7	9.9	6.6
6-C-H299**	Ashley Road, Hale	377026, 386829	14.7	11.1	10.1	6.6
6-C-H300**	Victoria Road, Hale	377013, 386889	14.7	11.1	10.1	6.6

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			NOx	NO2	PM10	PM2.5
6-C-H301**	Hale Road, Hale	378104, 386927	14.1	10.7	9.9	6.6
6-C-H302**	Egerton Road, Hale	378074, 386936	14.1	10.7	9.9	6.6
6-C-H303**	Roaring Gate Lane, Altrincham	380458, 386956	17.3	12.8	11.9	7.6
6-C-H304**	Hale, Altrincham	378631, 387062	14.7	11.1	10.1	6.7
6-C-H308**	Westminster Road, Altrincham	378047, 387076	14.7	11.1	10.1	6.7
6-C-H312**	Hale Road, Hale	377326, 387131	15.7	11.7	10.6	7.1
6-C-H313**	Dunham Road, Bowdon, Altrincham	375147, 387135	13.2	10.1	9.9	6.5
6-C-H314**	Westminster Road, Altrincham	378015, 387170	14.7	11.1	10.1	6.7
6-C-H317**	Hale Road, Hale	377037, 387232	15.7	11.7	10.6	7.1
6-C-H318**	Clay Lane, Hale, Altrincham	379736, 387299	14.8	11.1	9.8	6.6
6-C-H319**	Clay Lane, Hale, Altrincham	379748, 387331	14.8	11.1	9.8	6.6
6-C-H320**	Brooks Drive, Altrincham	379963, 387599	14.8	11.1	9.8	6.6
6-C-H321**	Clay Lane, Hale	379176, 387932	14.8	11.1	9.8	6.6
6-C-H322**	Clay Lane, Hale	379023, 388011	15.6	11.7	10.9	7.4
6-C-H323**	Clay Lane, Hale	379038, 388046	15.6	11.7	10.9	7.4
6-C-H326**	Stockport Road Altrincham	379095, 389088	15.6	11.7	10.9	7.4
6-C-H327**	New Park Medical Practice, Stockport Road	379059, 389091	15.6	11.7	10.9	7.4
6-C-H328**	Eskdale Drive, Altrincham	379308, 389209	15.6	11.7	10.9	7.4
6-C-H329**	Park Road, Altrincham	378056, 389536	15.7	11.7	11.0	7.5
6-C-H330**	Pepper Street, Mobberley	377777, 382116	10.7	8.3	9.0	5.9
6-C-H331**	Pepper Street, Mobberley	377612, 382383	10.7	8.3	9.0	5.9
6-C-H332**	Pepper Street, Mobberley	377647, 382560	10.7	8.3	9.0	5.9

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			NOx	NO2	PM10	PM2.5
6-C-H333**	Mobberley Road, Mobberley	377572, 382637	10.7	8.3	9.0	5.9
6-C-H334**	Bucklow Hill, Mere	373131, 383209	11.4	8.8	10.1	6.4
6-C-H335**	Chapel Lane, Bucklow Hill	372868, 383443	10.5	8.1	11.2	6.8
6-C-H336**	Castle Mill Lane, Thorns Green, Altrincham	379294, 383938	13.7	10.4	9.8	6.2
6-C-H337**	Ashley Road, Ashley	376793, 384094	16.6	12.5	12.1	7.3
6-C-H338**	Castle Mill Lane, Ashley	379120, 384122	18.9	13.9	11.3	7.1
6-C-H339**	Reddy Lane, Altrincham	372530, 385254	14.4	10.9	11.2	7.0

Note: ** indicates that receptor was added at SES2 and AP2 ES.

Table 24: Modelled ecological receptor backgrounds and critical loads (construction phase)

Receptor	Sensitive habitat	2026 NOx background concentration ($\mu\text{g}/\text{m}^3$)	APIS data of average total N deposition (kg N/ha/yr)	APIS Critical load (kg N/ha/yr)
Woolston Eyes SSSI Transect 1	Lowland fens	12.2	25.6	10
Woolston Eyes SSSI Transect 2	Deciduous woodland	12.2	43.4	10
Woolston Eyes SSSI Transect 3	Deciduous woodland	12.2	43.4	10
	Lowland fens	12.2	25.6	10
Woolston Eyes SSSI Transect 4	Lowland fens	12.2	25.6	10
	Deciduous woodland	12.2	43.4	10
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	13.2	39.6	10
	Degraded raised bog	13.2	23.6	5
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	13.2	39.6	10
	Degraded raised bog	13.2	23.6	5
Cotterill Clough Transect 1	Broadleaved deciduous woodland	15.5	43.3	15
Cotterill Clough Transect 2	Broadleaved deciduous woodland	15.5	43.3	15
Cotterill Clough Transect 3	Broadleaved deciduous woodland	15.5	43.3	15
Lindow Common SSSI Transect 1	Dwarf shrub heath (wet or dry heath)	11.6	25.9	10
Tatton Meres SSSI Transect 1	Poor fen	12.9	30.0	10
Rostherne Mere SSSI Transect 3	Broadleaved deciduous woodland	11.4	47.1	20
Rostherne Mere SSSI Transect 4	Neutral grassland	11.4	28.0	20

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Receptor	Sensitive habitat	2026 NOx background concentration (µg/m ³)	APIS data of average total N deposition (kg N/ha/yr)	APIS Critical load (kg N/ha/yr)
	Poor Fen	11.4	28.0	10
	Poor Fen	12.8	27.5	10
Rostherne Mere SSSI Transect 5	Neutral grassland	12.8	27.5	20
	Poor fen	12.8	27.5	10
Rostherne Mere SSSI Transect 6	Broadleaved deciduous woodland	12.8	46.3	20
	Neutral grassland	12.8	27.5	20
Rostherne Mere SSSI Transect 7	Broadleaved deciduous woodland	12.8	46.3	20
	Neutral grassland	12.8	27.5	20
Rostherne Mere SSSI Transect 8	Neutral grassland	19.1	27.1	20
Rostherne Mere SSSI Transect 9	Broadleaved deciduous woodland	19.1	45.6	20
	Broadleaved deciduous woodland	11.2	45.7	20

Table 25: Modelled ecological receptor acid deposition backgrounds, critical loads and ammonia background concentrations (construction phase)

Receptor	Sensitive habitat	APIS data of average total acid deposition (k eq/ha/yr)	APIS Critical load nitrogen (k eq/ha/yr) (min)	APIS Critical load nitrogen (k eq/ha/yr) (max)	APIS Critical load sulphur (k eq/ha/yr) (max)	APIS Ammonia background concentration (µg/m ³)
Woolston Eyes SSSI Transect 1	Lowland fens	2.0	Not applicable	Not applicable	Not applicable	3.1
Woolston Eyes SSSI Transect 2	Deciduous woodland	3.3	Not applicable	Not applicable	Not applicable	3.1
Woolston Eyes SSSI Transect 3	Deciduous woodland	3.3	Not applicable	Not applicable	Not applicable	3.1
	Lowland fens	2.0	Not applicable	Not applicable	Not applicable	3.1
Woolston Eyes SSSI Transect 4	Lowland fens	2.0	Not applicable	Not applicable	Not applicable	3.1
	Deciduous woodland	3.3	Not applicable	Not applicable	Not applicable	3.1
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	3.1	0.3	0.6	No information	2.7
	Degraded raised bog	1.9	0.3	0.6	No information	2.7
Holcroft Moss SSSI/Manchester	Deciduous Woodland	3.1	0.3	0.6	No information	2.7

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Receptor	Sensitive habitat	APIS data of average total acid deposition (k eq/ha/yr)	APIS Critical load nitrogen (k eq/ha/yr) (min)	APIS Critical load nitrogen (k eq/ha/yr) (max)	APIS Critical load sulphur (k eq/ha/yr) (max)	APIS Ammonia background concentration (µg/m3)
ter Mosses SAC Transect 2	Degraded raised bog	1.9	0.3	0.6	No information	2.7
Cotterill Clough SSSI Transect 1	Broadleaved deciduous woodland	3.3	0.4	2.0	No information	3.0
Cotterill Clough SSSI Transect 2	Broadleaved deciduous woodland	3.3	0.4	2.0	No information	3.0
Cotterill Clough SSSI Transect 3	Broadleaved deciduous woodland	3.3	0.4	2.0	No information	3.0
Lindow Common SSSI Transect 1	Dwarf shrub heath (wet or dry heath)	2.0	0.7	1.2	No information	3.0
Tatton Meres SSSI Transect 1	Poor fen	2.3	0.2	1.1	No information	3.8
Rostherne Mere SSSI Transect 3	Broadleaved deciduous woodland	3.5	0.3	0.6	No information	3.3
Rostherne Mere SSSI Transect 4	Neutral grassland	2.1	0.4	0.9	No information	3.3
	Poor Fen	2.1	0.2	0.6	No information	3.3
Rostherne Mere SSSI Transect 5	Neutral grassland	2.1	0.4	0.9	No information	3.3
	Poor fen	2.1	0.2	0.6	No information	3.3
Rostherne Mere SSSI Transect 6	Broadleaved deciduous woodland	3.5	0.3	0.6	No information	3.3
	Neutral grassland	2.1	0.4	0.9	No information	3.3
Rostherne Mere SSSI Transect 7	Broadleaved deciduous woodland	3.5	0.3	0.6	No information	3.3
	Neutral grassland	2.1	0.4	0.9	No information	3.3
Rostherne Mere SSSI Transect 8	Neutral grassland	2.1	0.4	0.9	No information	3.2

Receptor	Sensitive habitat	APIS data of average total acid deposition (k eq/ha/yr)	APIS Critical load nitrogen (k eq/ha/yr) (min)	APIS Critical load nitrogen (k eq/ha/yr) (max)	APIS Critical load sulphur (k eq/ha/yr) (max)	APIS Ammonia background concentration (µg/m3)
Rostherne Mere SSSI Transect 9	Broadleaved deciduous woodland	3.4	0.3	0.6	No information	3.2
	Broadleaved deciduous woodland	3.4	0.3	0.6	No information	3.3

Assessment results

- 4.3.7 Table 26 presents the predicted NO₂ impacts across all assessed scenarios for each assessed receptor. All impacts are predicted to be negligible for PM₁₀ and PM_{2.5} concentrations. Table 27 to Table 29 provide the summary of the worst-case modelled pollutant concentrations at each assessed receptor (i.e., the highest modelled concentration at a particular receptor given the different construction traffic scenarios). The magnitude of change and impact descriptor are also provided along with a comparison against the main ES, or alternatively the main ES as amended by SES1 and AP1 ES. These were derived for human receptors following the Institute of Air Quality Management (IAQM)/Environmental Protection UK (EPUK) methodology⁷.
- 4.3.8 Table 30 to Table 33 provide the summary of the worst-case modelled pollutant concentrations at each assessed ecological receptor (i.e., the highest modelled concentration at a particular receptor given the different construction traffic scenarios).
- 4.3.9 Table 31 provides a summary of the ammonia concentration results taken from the National Highways Ammonia N Deposition Tool⁸. Table 32 provides a summary of the nitrogen deposition receptor results with an additional ammonia component applied using the National Highways Ammonia N Deposition Tool. Table 33 provides a summary of the acid deposition receptor results with an additional ammonia component applied using the National Highways Ammonia N Deposition Tool.

Table 26: Comparison of impact descriptors for annual mean NO₂ concentrations across construction scenarios

Receptor	Impact descriptors for annual mean NO ₂ concentrations				
	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
04-C-H001	Negligible	Negligible	Negligible	Not applicable	Not applicable
04-C-H002	Negligible	Negligible	Negligible	Not applicable	Not applicable
04-C-H015**	Negligible	Negligible	Negligible	Negligible	Negligible

⁷ Institute of Air Quality Management (2017), *Land-Use planning & development control: Planning for air quality*, v1.2. Available online at: <https://iaqm.co.uk/guidance/>.

⁸ National Highways (2021), *Ammonia N Deposition Tool V2*.

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Receptor	Impact descriptors for annual mean NO ₂ concentrations				
	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
04-C-H016**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H017**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H018**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H019**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H020**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H021**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H022**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H023**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H024**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H025**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H026**	Negligible	Negligible	Negligible	Not applicable	Not applicable
04-C-H027**	Negligible	Negligible	Negligible	Not applicable	Not applicable
04-C-H028**	Negligible	Negligible	Negligible	Negligible	Negligible
04-C-H029**	Negligible	Negligible	Negligible	Not applicable	Not applicable
04-C-H030**	Negligible	Negligible	Negligible	Not applicable	Not applicable
04-C-H031**	Negligible	Negligible	Negligible	Not applicable	Not applicable
04-C-H032**	Negligible	Negligible	Negligible	Not applicable	Not applicable
04-C-H033**	Negligible	Negligible	Negligible	Not applicable	Not applicable
04-C-H034**	Negligible	Negligible	Negligible	Not applicable	Not applicable
04-C-H035**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H002	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H008	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H009	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H010	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H011	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H012	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H013	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H014	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H015	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H016	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H017	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H018	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H019	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H020	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H021	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H022	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H023	Moderate adverse	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H024	Negligible	Not applicable	Not applicable	Not applicable	Not applicable

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	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
05-C-H025	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H026	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H027	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H028	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H029	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H030	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H032	Negligible	Not applicable	Not applicable	Not applicable	Not applicable
05-C-H033**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H034**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H035**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H036**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H037**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H038**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H039**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H040**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H041**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H042**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H043**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H044**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H045**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H046**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H047**	Negligible	Negligible	Negligible	Not applicable	Not applicable
05-C-H048**	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H001	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H002	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H003	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H004	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H005	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H006	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H007	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H008	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H009	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H012	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H013	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H014	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H015	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H016	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H017	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H018	Negligible	Negligible	Negligible	Negligible	Negligible

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Receptor	Impact descriptors for annual mean NO ₂ concentrations				
	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
6-C-H019	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H020	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H021	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H023	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H024	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H025	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H026	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H027	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H028	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H029	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H030	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H031	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H032	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H033	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H034	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H035	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H036	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H037	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H038	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H043	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H044	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H046	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H047	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H048	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H049	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H050	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H052	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H056	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H057	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H058	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H059	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H060	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H061	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H062	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H063	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H064	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H067	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H069	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H071	Negligible	Negligible	Negligible	Negligible	Negligible

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Receptor	Impact descriptors for annual mean NO ₂ concentrations				
	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
6-C-H073	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H074	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H075	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H077	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H080	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H081	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H082	Slight adverse	Negligible	Negligible	Not applicable	Not applicable
6-C-H083	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H084	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H085	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H086	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H087	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H088	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H089	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H091	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H092	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H093	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H094	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H095	Negligible	Slight beneficial	Slight beneficial	Not applicable	Not applicable
6-C-H096	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H097	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H099	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H100	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H101	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H102	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H103	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H105	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H106	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H107	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H108	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H111	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H112	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H113	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H114	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H116	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H117	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H118	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H119	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H120	Negligible	Negligible	Negligible	Negligible	Negligible

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	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
6-C-H121	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H122	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H123	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H124	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H125	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H126	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H127	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H128	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H129	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H130	Negligible	Slight beneficial	Negligible	Negligible	Negligible
6-C-H131	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H132	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H133	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H134	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H135	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H136	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H137	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H138	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H139	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H140	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H141	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H142	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H143	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H144	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H145	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H146	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H147	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H148	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H149	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H150	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H151	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H152	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H153	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H154	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H155	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H156	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H157	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H158	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H159	Negligible	Negligible	Negligible	Negligible	Negligible

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	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
6-C-H160	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H161	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H162	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H163	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H164	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H165	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H166	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H167	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H168	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H169	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H174	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H175	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H176	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H177	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H179	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H187**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H188**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H189**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H191**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H193**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H195**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H197**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H199**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H200**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H201**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H202**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H203**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H204**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H205**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H210**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H211**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H214**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H215**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H220**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H223**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H224**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H225**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H226**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H227**	Negligible	Negligible	Negligible	Negligible	Negligible

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	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
6-C-H228**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H229**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H230**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H231**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H233**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H234**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H235**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H236**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H237**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H243**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H244**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H245**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H247**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H252**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H253**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H254**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H256**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H257**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H258**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H260**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H262**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H263**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H264**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H265**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H266**	Slight adverse	Negligible	Negligible	Negligible	Negligible
6-C-H267**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H268**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H270**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H272**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H274**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H277**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H279**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H287**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H290**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H296**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H298**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H299**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H300**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H301**	Negligible	Negligible	Negligible	Negligible	Negligible

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Receptor	Impact descriptors for annual mean NO ₂ concentrations				
	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
6-C-H302**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H303**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H304**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H308**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H312**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H313**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H314**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H317**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H318**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H319**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H320**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H321**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H322**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H323**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H326**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H327**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H328**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H329**	Negligible	Negligible	Negligible	Negligible	Negligible
6-C-H330**	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H331**	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H332**	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H333**	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H334**	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H335**	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H336**	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H337**	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H338**	Negligible	Negligible	Negligible	Not applicable	Not applicable
6-C-H339**	Negligible	Negligible	Negligible	Not applicable	Not applicable

Note: ** Indicates that receptor is new to the SES2 and AP2 ES.

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Table 27: Predicted annual mean NO₂ concentrations and impacts (construction phase)

Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentration s (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
04-C-H001	Burford Lane, Lymm	12.8	13.6	0.8	Negligible	Negligible	Not significant
04-C-H002	Weaste Lane, Warrington	25.7	25.7	< 0.1	Negligible	Negligible	Not significant
04-C-H015**	Nursery Farm, Barton Moss Road, Manchester	20.6	20.9	0.3	Negligible	Not applicable	Not significant
04-C-H016**	Cutnook Lane, Manchester	20.6	20.9	0.3	Negligible	Not applicable	Not significant
04-C-H017**	Crossfield Road, Manchester	17.5	17.5	< 0.1	Negligible	Not applicable	Not significant
04-C-H018**	Dove Drive, Irlam	14.4	14.5	0.1	Negligible	Not applicable	Not significant
04-C-H019**	Cutnook Lane, Irlam	14.2	14.4	0.2	Negligible	Not applicable	Not significant
04-C-H020**	Quay House, Bankquay Court, Manchester	16.8	17.0	0.2	Negligible	Not applicable	Not significant
04-C-H021**	The Locks, Forebay Drive, Manchester	14.5	14.6	0.1	Negligible	Not applicable	Not significant
04-C-H022**	Rixtonleys Drive, Manchester	15.3	15.4	0.1	Negligible	Not applicable	Not significant
04-C-H023**	Roseway Avenue, Manchester	14.1	14.3	0.2	Negligible	Not applicable	Not significant
04-C-H024**	Manchester Road, Warrington	12.0	12.2	0.2	Negligible	Not applicable	Not significant
04-C-H025**	Manchester Road, Warrington	11.3	11.5	0.2	Negligible	Not applicable	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentration s (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
04-C-H026**	M6 J21	25.0	25.1	0.1	Negligible	Not applicable	Not significant
04-C-H027**	M6, Warrington AT HEIGHT	26.6	26.6	< 0.1	Negligible	Not applicable	Not significant
04-C-H028**	Birch Brook Road, Lymm	9.2	9.3	0.1	Negligible	Not applicable	Not significant
04-C-H029**	Massey Avenue, Lymm	21.2	21.3	0.1	Negligible	Not applicable	Not significant
04-C-H030**	Burford Lane, Lymm	16.5	17.1	0.6	Negligible	Not applicable	Not significant
04-C-H031**	Higher Lane, Lymm	15.2	15.3	0.1	Negligible	Not applicable	Not significant
04-C-H032**	Higher Lane, Lymm	12.2	12.3	0.1	Negligible	Not applicable	Not significant
04-C-H033**	High Legh Road, Lymm	13.0	13.7	0.7	Negligible	Not applicable	Not significant
04-C-H034**	Higher Lane, Lymm	11.5	11.5	< 0.1	Negligible	Not applicable	Not significant
04-C-H035**	Agden Park Lane, Lymm	11.2	11.4	0.2	Negligible	Not applicable	Not significant
05-C-H002	Southworth Road, Newton-Le-Willows	22.5	22.7	0.2	Negligible	Negligible	Not significant
05-C-H008	Houghwood Grange, Ashton-in-Makerfield	38.8	38.9	0.1	Negligible	Moderate adverse	Removal of significant effect
05-C-H009	Houghwood Grange, Ashton-in-Makerfield	37.4	37.6	0.2	Negligible	Slight adverse	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentration s (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
05-C-H010	Houghwood Grange, Ashton-in-Makerfield	35.8	35.9	0.1	Negligible	Slight adverse	Not significant
05-C-H011	Houghwood Grange, Ashton-in-Makerfield	40.0	40.1	0.1	Negligible	Moderate adverse	Removal of significant effect
05-C-H012	Houghwood Grange, Ashton-in-Makerfield	35.6	35.7	0.1	Negligible	Slight adverse	Not significant
05-C-H013	Skitters Grove, Ashton-in-Makerfield	40.7	40.9	0.2	Negligible	Moderate adverse	Removal of significant effect
05-C-H014	M6, Ashton-in-Makerfield	34.6	34.7	0.1	Negligible	Slight adverse	Not significant
05-C-H015	M6, Ashton-in-Makerfield	36.1	36.3	0.2	Negligible	Slight adverse	Not significant
05-C-H016	M6, Ashton-in-Makerfield	38.9	39.1	0.2	Negligible	Moderate adverse	Removal of significant effect
05-C-H017	M6, Ashton-in-Makerfield	37.0	37.1	0.1	Negligible	Slight adverse	Not significant
05-C-H018	Downhall Green Road, Ashton-in-Makerfield	37.8	37.9	0.1	Negligible	Moderate adverse	Removal of significant effect
05-C-H019	Downhall Green Road, Ashton-in-Makerfield	37.3	37.4	0.1	Negligible	Slight adverse	Not significant
05-C-H020	Downhall Green Road, Ashton-in-Makerfield	40.9	41.0	0.1	Negligible	Moderate adverse	Removal of significant effect
05-C-H021	Downhall Green Road, Ashton-in-Makerfield	45.4	45.6	0.2	Negligible	Moderate adverse	Removal of significant effect
05-C-H022	Downhall Green Road, Ashton-in-Makerfield	35.8	35.9	0.1	Negligible	Slight adverse	Not significant
05-C-H023	Downhall Green Road, Ashton-in-Makerfield	48.7	48.9	0.2	Moderate adverse	Moderate adverse	Different significant effect

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentration s (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
05-C-H024	Downhall Green Road, Ashton-in-Makerfield	45.4	45.6	0.2	Negligible	Moderate adverse	Removal of significant effect
05-C-H025	Downhall Green Road, Ashton-in-Makerfield	42.8	43.0	0.2	Negligible	Moderate adverse	Removal of significant effect
05-C-H026	Downhall Green Road, Ashton-in-Makerfield	41.8	42.0	0.2	Negligible	Moderate adverse	Removal of significant effect
05-C-H027	Downhall Green Road, Ashton-in-Makerfield	40.7	40.8	0.1	Negligible	Moderate adverse	Removal of significant effect
05-C-H028	Downhall Green Road, Ashton-in-Makerfield	37.8	37.9	0.1	Negligible	Moderate adverse	Removal of significant effect
05-C-H029	Downhall Green Road, Ashton-in-Makerfield	36.2	36.4	0.2	Negligible	Slight adverse	Not significant
05-C-H030	Downhall Green Road, Ashton-in-Makerfield	34.9	35.0	0.1	Negligible	Slight adverse	Not significant
05-C-H032	Warrington Road, Wigan	35.0	35.4	0.4	Negligible	Slight adverse	Not significant
05-C-H033**	M6, Warrington	16.5	16.4	-0.1	Negligible	Not applicable	Not significant
05-C-H034**	Inglewood Close, Warrington	20.0	20.0	< 0.1	Negligible	Not applicable	Not significant
05-C-H035**	Inglewood Close, Birchwood, Warrington	20.1	20.1	< 0.1	Negligible	Not applicable	Not significant
05-C-H036**	Cross Lane, Warrington, AT HEIGHT	22.6	22.8	0.2	Negligible	Not applicable	Not significant
05-C-H037**	Cross Lane South, Warrington, AT HEIGHT	21.7	21.7	< 0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentration s (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
05-C-H038**	M6, Warrington	33.0	32.8	-0.2	Negligible	Not applicable	Not significant
05-C-H039**	Mill House Lane, Warrington	22.4	22.6	0.2	Negligible	Not applicable	Not significant
05-C-H040**	M62, Warrington	28.3	28.5	0.2	Negligible	Not applicable	Not significant
05-C-H041**	M62, Warrington	21.5	21.6	0.1	Negligible	Not applicable	Not significant
05-C-H042**	Delph Lane, Warrington	31.2	31.5	0.3	Negligible	Not applicable	Not significant
05-C-H043**	Mill Lane, Warrington	16.2	16.2	< 0.1	Negligible	Not applicable	Not significant
05-C-H044**	St Andrews Close, Warrington	13.1	13.1	< 0.1	Negligible	Not applicable	Not significant
05-C-H045**	Peel Cottage Lane, Warrington	19.5	19.5	< 0.1	Negligible	Not applicable	Not significant
05-C-H046**	Dig Lane, Warrington	20.9	21.0	0.1	Negligible	Not applicable	Not significant
05-C-H047**	Locking Stumps Lane, Warrington	18.8	18.9	0.1	Negligible	Not applicable	Not significant
05-C-H048**	University of Chester	16.1	16.2	0.1	Negligible	Not applicable	Not significant
6-C-H001	London Road, Alderley Edge	16.4	16.6	0.2	Negligible	Negligible	Not significant
6-C-H002	Alderley Edge School for Girls, Wilmslow Road, Alderley Edge	11.6	11.7	0.1	Negligible	Negligible	Not significant
6-C-H003	Hurst Lea Court, Alderley Edge	14.1	14.4	0.3	Negligible	Negligible	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentration s (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H004	Brook Lane, Alderley Edge	11.3	11.5	0.2	Negligible	Negligible	Not significant
6-C-H005	Brook Lane, Alderley Edge	10.1	10.4	0.3	Negligible	Negligible	Not significant
6-C-H006	Brook Lane, Alderley Edge	10.7	11.2	0.5	Negligible	Negligible	Not significant
6-C-H007	Mobberley Road, Knutsford	15.4	16.1	0.7	Negligible	Negligible	Not significant
6-C-H008	Hall Lane, Mobberley	13.4	14.0	0.6	Negligible	Negligible	Not significant
6-C-H009	Hall Lane, Knolls Green	10.9	11.4	0.5	Negligible	Negligible	Not significant
6-C-H012	Tipping Brow, Mobberley	10.3	10.6	0.3	Negligible	Negligible	Not significant
6-C-H013	Hough Lane, Wilmslow	8.0	8.1	0.1	Negligible	Negligible	Not significant
6-C-H014	Hough Lane, Wilmslow	8.7	8.9	0.2	Negligible	Negligible	Not significant
6-C-H015	Kingsley Lodge, Wilmslow	9.3	9.5	0.2	Negligible	Negligible	Not significant
6-C-H016	Burnside Close, Wilmslow	11.8	12.4	0.6	Negligible	Negligible	Not significant
6-C-H017	Prestbury Road, Wilmslow	9.4	9.6	0.2	Negligible	Negligible	Not significant
6-C-H018	Avondale Rise, Wilmslow	10.0	10.3	0.3	Negligible	Negligible	Not significant
6-C-H019	Burnside Close, Wilmslow	11.6	12.0	0.4	Negligible	Negligible	Not significant
6-C-H020	Alderley Road, Wilmslow	12.8	12.8	< 0.1	Negligible	Negligible	Not significant
6-C-H021	Alderley Road, Wilmslow	12.2	12.1	-0.1	Negligible	Negligible	Not significant
6-C-H023	Alderley Road, Wilmslow	12.0	11.9	-0.1	Negligible	Negligible	Not significant
6-C-H024	Alderley Road, Wilmslow	12.8	12.8	< 0.1	Negligible	Negligible	Not significant
6-C-H025	Albert Road, Wilmslow	13.2	13.1	-0.1	Negligible	Negligible	Not significant
6-C-H026	Cygnets Court (Nursery), Hawthorn Street, Wilmslow	10.4	10.4	< 0.1	Negligible	Negligible	Not significant
6-C-H027	Queen Anne Court, Macclesfield Road, Wilmslow	10.9	11.2	0.3	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H028	Alderley Road, Wilmslow	11.0	11.0	< 0.1	Negligible	Negligible	Not significant
6-C-H029	The Hawthorns (Nursery), Hawthorn Street, Wilmslow	11.8	11.8	< 0.1	Negligible	Negligible	Not significant
6-C-H030	Lawdon Court, Beech Lane	14.8	14.8	< 0.1	Negligible	Negligible	Not significant
6-C-H031	Beech Lane, Wilmslow	13.3	13.3	< 0.1	Negligible	Negligible	Not significant
6-C-H032	Alderley Road, Wilmslow	13.5	13.4	-0.1	Negligible	Negligible	Not significant
6-C-H033	Wilmslow Park Street, Wilmslow	12.5	12.9	0.4	Negligible	Negligible	Not significant
6-C-H034	Water Lane, Wilmslow	14.1	14.1	< 0.1	Negligible	Negligible	Not significant
6-C-H035	Macclesfield Road, Wilmslow	12.1	12.4	0.3	Negligible	Negligible	Not significant
6-C-H036	Water Lane Wilmslow	14.1	14.2	0.1	Negligible	Negligible	Not significant
6-C-H037	Station Road, Wilmslow	15.5	15.6	0.1	Negligible	Negligible	Not significant
6-C-H038	Swan Street, Wilmslow	16.7	16.8	0.1	Negligible	Negligible	Not significant
6-C-H043	Pownall Court, Wilmslow	11.4	11.4	< 0.1	Negligible	Negligible	Not significant
6-C-H044	Wallworth Terrace, Wilmslow	12.1	12.1	< 0.1	Negligible	Negligible	Not significant
6-C-H046	Connaught Close, Wilmslow	11.5	11.6	0.1	Negligible	Negligible	Not significant
6-C-H047	Styal Road, Wilmslow	13.2	13.3	0.1	Negligible	Negligible	Not significant
6-C-H048	Styal Road, Wilmslow	13.0	13.1	0.1	Negligible	Negligible	Not significant
6-C-H049	Altrincham Road, Wilmslow	15.5	14.9	-0.6	Negligible	Negligible	Not significant
6-C-H050	Kingsbury Drive, Wilmslow	13.8	14.0	0.2	Negligible	Negligible	Not significant
6-C-H052	Lancelyn Drive, Wilmslow	11.1	11.2	0.1	Negligible	Negligible	Not significant
6-C-H056	Altrincham Road, Wilmslow	13.5	13.7	0.2	Negligible	Negligible	Not significant
6-C-H057	Queensbury Close, Wilmslow	13.5	13.7	0.2	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H058	Heathfield Farm, Wilmslow	11.3	11.2	-0.1	Negligible	Negligible	Not significant
6-C-H059	Woodcote View, Wilmslow	12.3	12.3	< 0.1	Negligible	Negligible	Not significant
6-C-H060	Tudor Green, Wilmslow	12.1	12.0	-0.1	Negligible	Negligible	Not significant
6-C-H061	Hunters Close Path, Wilmslow	12.0	11.9	-0.1	Negligible	Negligible	Not significant
6-C-H062	Wilmslow Road, Stockport	8.9	9.1	0.2	Negligible	Negligible	Not significant
6-C-H063	Wilmslow Road, Stockport	9.9	10.2	0.3	Negligible	Negligible	Not significant
6-C-H064	Tatton Dale, Knutsford	8.9	9.6	0.7	Negligible	Negligible	Not significant
6-C-H067	Stanneylands Road, Wilmslow	12.3	12.6	0.3	Negligible	Negligible	Not significant
6-C-H069	Rostherne Drive, Rostherne	8.8	9.4	0.6	Negligible	Negligible	Not significant
6-C-H071	Altrincham Road, Wilmslow	14.5	14.6	0.1	Negligible	Negligible	Not significant
6-C-H073	Chester Road, Bucklow Hill	11.8	12.1	0.3	Negligible	Negligible	Not significant
6-C-H074	Mobberley Road, Ashley	13.4	13.7	0.3	Negligible	Negligible	Not significant
6-C-H075	Ashley Road, Ashley	9.8	10.8	1.0	Negligible	Negligible	Not significant
6-C-H077	Chapel Lane, Bucklow Hill	9.9	10.1	0.2	Negligible	Negligible	Not significant
6-C-H080	Mill Lane, Ashley	12.8	14.5	1.7	Negligible	Negligible	Not significant
6-C-H081	Chapel Lane, Bucklow Hill	9.9	10.4	0.5	Negligible	Negligible	Not significant
6-C-H082	Mill Lane, Ashley	13.9	16.2	2.3	Slight adverse	Negligible	Not significant
6-C-H083	Millington Hall Lane, Millington	14.9	14.8	-0.1	Negligible	Negligible	Not significant
6-C-H084	Back Lane, Ashley	9.6	9.7	0.1	Negligible	Negligible	Not significant
6-C-H085	Mobberley Road, Ashley	16.2	16.5	0.3	Negligible	Negligible	Not significant
6-C-H086	Back Lane, Ashley	14.1	14.2	0.1	Negligible	Negligible	Not significant
6-C-H087	Ashley Road, Ashley	13.6	14.2	0.6	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H088	Birkinheath Lane, Rostherne	14.4	14.5	0.1	Negligible	Negligible	Not significant
6-C-H089	Castle Mill Lane, Ashley	14.6	15.3	0.7	Negligible	Negligible	Not significant
6-C-H091	Cherry Tree Lane, Rostherne	14.6	15.0	0.4	Negligible	Negligible	Not significant
6-C-H092	Ashley Road, Ashley	15.6	16.4	0.8	Negligible	Negligible	Not significant
6-C-H093	Ashley Road, Ashley	14.9	15.7	0.8	Negligible	Negligible	Not significant
6-C-H094	Chester Road, Millington	15.4	15.1	-0.3	Negligible	Negligible	Not significant
6-C-H095	Ashley Road, Ashley	16.7	18.3	1.6	Negligible	Negligible	Not significant
6-C-H096	Cow Lane, Ashley	17.7	19.1	1.4	Negligible	Negligible	Not significant
6-C-H097	Thowler Lane, Moston	9.6	9.7	0.1	Negligible	Negligible	Not significant
6-C-H099	Birkinheath Lane, Ashley	14.5	14.7	0.2	Negligible	Negligible	Not significant
6-C-H100	Millington Lane, Millington	16.8	16.6	-0.2	Negligible	Negligible	Not significant
6-C-H101	Sunbank Lane, Manchester (Compound)	11.6	12.0	0.4	Negligible	Negligible	Not significant
6-C-H102	Millington Lane, Rostherne	13.5	13.2	-0.3	Negligible	Negligible	Not significant
6-C-H103	Thowler Lane, Millington	10.4	11.1	0.7	Negligible	Negligible	Not significant
6-C-H105	Tanyard Farm, Castle Mill Lane	16.6	16.6	< 0.1	Negligible	Negligible	Not significant
6-C-H106	Cherry Tree Lane, Rostherne	10.4	10.7	0.3	Negligible	Negligible	Not significant
6-C-H107	House near riding stables, Hale Barns	15.1	15.1	< 0.1	Negligible	Negligible	Not significant
6-C-H108	Wilmslow Road, Altrincham	20.2	20.2	< 0.1	Negligible	Negligible	Not significant
6-C-H111	Chester Road, Millington	26.3	25.9	-0.4	Negligible	Slight adverse	Not significant
6-C-H112	Warburton Drive, Altrincham (Compound)	13.6	13.8	0.2	Negligible	Negligible	Not significant
6-C-H113	Ryecroft Farm, Altrincham	16.7	16.8	0.1	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H114	Cherry Tree Lane, Rostherne	14.5	14.2	-0.3	Negligible	Negligible	Not significant
6-C-H116	Cherry Tree Lane, Rostherne	11.6	11.7	0.1	Negligible	Negligible	Not significant
6-C-H117	Coe Lane, Rostherne	13.3	13.3	< 0.1	Negligible	Negligible	Not significant
6-C-H118	Hale Barns, Altrincham (Compound)	21.4	21.8	0.4	Negligible	Negligible	Not significant
6-C-H119	Hasty Lane, Hale Barns	22.8	23.1	0.3	Negligible	Negligible	Not significant
6-C-H120	Hasty Lane, Hale Barns	23.1	23.5	0.4	Negligible	Negligible	Not significant
6-C-H121	Reddy Lane, Millington	15.0	15.0	< 0.1	Negligible	Negligible	Not significant
6-C-H122	Hale Road, Hale Barns	14.8	15.4	0.6	Negligible	Negligible	Not significant
6-C-H123	Yarwoodheath Lane, Altrincham	17.6	17.7	0.1	Negligible	Negligible	Not significant
6-C-H124	Reddy Lane, Millington	14.4	14.6	0.2	Negligible	Negligible	Not significant
6-C-H125	Hasty Lane, Hale Barns	24.2	24.3	0.1	Negligible	Negligible	Not significant
6-C-H126	Elmridge Primary School, Wilton Drive, Hale Barns	13.3	13.3	< 0.1	Negligible	Negligible	Not significant
6-C-H127	Hale Road, Hale Barns, Altrincham	16.8	16.7	-0.1	Negligible	Negligible	Not significant
6-C-H128	Reddy Lane, Millington	12.6	13.0	0.4	Negligible	Negligible	Not significant
6-C-H129	Hale Road, Hale Barns, Altrincham	14.5	14.5	< 0.1	Negligible	Negligible	Not significant
6-C-H130	Hale Road, Hale Barns, Altrincham	16.9	16.2	-0.7	Negligible	Negligible	Not significant
6-C-H131	Abinger Road, Hale Barns	16.0	15.8	-0.2	Negligible	Negligible	Not significant
6-C-H132	Abinger Road, Hale Barns	17.4	17.1	-0.3	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H133	The Dell, Altrincham	11.6	12.2	0.6	Negligible	Negligible	Not significant
6-C-H134	Park Road, Altrincham	13.2	13.9	0.7	Negligible	Negligible	Not significant
6-C-H135	Hale, Altrincham	12.7	13.2	0.5	Negligible	Negligible	Not significant
6-C-H136	Shay Lane, Hale Barns	15.6	15.9	0.3	Negligible	Negligible	Not significant
6-C-H137	Thorley Lane, Manchester	19.4	19.6	0.2	Negligible	Negligible	Not significant
6-C-H138	Brooks Drive, Altrincham (Compound)	13.6	13.7	0.1	Negligible	Negligible	Not significant
6-C-H139	Ashley Road, Altrincham	12.9	13.6	0.7	Negligible	Negligible	Not significant
6-C-H140	Hale Road, Hale Barns, Altrincham	12.9	12.9	< 0.1	Negligible	Negligible	Not significant
6-C-H141	Wolf Grange, Altrincham	14.4	15.1	0.7	Negligible	Negligible	Not significant
6-C-H142	Park Road, Altrincham	14.0	14.7	0.7	Negligible	Negligible	Not significant
6-C-H143	Hale Road, Hale Barns, Altrincham	11.7	11.6	-0.1	Negligible	Negligible	Not significant
6-C-H144	South Downs Road, Altrincham	12.8	13.4	0.6	Negligible	Negligible	Not significant
6-C-H145	Thorley Lane, Altrincham	18.9	19.1	0.2	Negligible	Negligible	Not significant
6-C-H146	Park Road, Altrincham	12.4	12.8	0.4	Negligible	Negligible	Not significant
6-C-H147	Broad Lane, Hale Barns	13.0	12.9	-0.1	Negligible	Negligible	Not significant
6-C-H148	Broad Lane, Altrincham	12.9	12.8	-0.1	Negligible	Negligible	Not significant
6-C-H149	Dunham Road, Bowdon, Altrincham	13.4	13.6	0.2	Negligible	Negligible	Not significant
6-C-H150	South Downs Road, Altrincham	11.7	11.9	0.2	Negligible	Negligible	Not significant
6-C-H151	Langham Road, Bowdon, Altrincham	12.0	12.4	0.4	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H152	Ashley Road, Altrincham	12.2	12.5	0.3	Negligible	Negligible	Not significant
6-C-H153	Bowdon, Altrincham	12.5	13.0	0.5	Negligible	Negligible	Not significant
6-C-H154	Hale, Altrincham	13.3	13.2	-0.1	Negligible	Negligible	Not significant
6-C-H155	Hale Road, Hale Barns	12.9	12.8	-0.1	Negligible	Negligible	Not significant
6-C-H156	Planetree Road, Altrincham	12.6	12.7	0.1	Negligible	Negligible	Not significant
6-C-H157	Bowdon, Altrincham	13.7	14.6	0.9	Negligible	Negligible	Not significant
6-C-H158	Hale Road, Altrincham	13.4	13.7	0.3	Negligible	Negligible	Not significant
6-C-H159	Langham Road, Bowdon, Altrincham	12.9	13.2	0.3	Negligible	Negligible	Not significant
6-C-H160	Ash Lane, Hale	12.9	13.2	0.3	Negligible	Negligible	Not significant
6-C-H161	Grove Lane, Timperley	12.7	12.9	0.2	Negligible	Negligible	Not significant
6-C-H162	Grove Lane, Hale	15.2	15.8	0.6	Negligible	Negligible	Not significant
6-C-H163	Bowdon, Altrincham	13.1	13.3	0.2	Negligible	Negligible	Not significant
6-C-H164	Delahays Road, Hale	15.3	15.7	0.4	Negligible	Negligible	Not significant
6-C-H165	Grove Lane, Timperley	15.3	16.0	0.7	Negligible	Negligible	Not significant
6-C-H166	Grove Lane, Timperley	17.5	17.8	0.3	Negligible	Negligible	Not significant
6-C-H167	Grove Lane, Hale, Altrincham	12.2	12.4	0.2	Negligible	Negligible	Not significant
6-C-H168	Grove Lane, Timperley	13.0	13.3	0.3	Negligible	Negligible	Not significant
6-C-H169	Grove Lane, Timperley	12.6	12.9	0.3	Negligible	Negligible	Not significant
6-C-H174	Thorley Lane, Altrincham	16.7	17.0	0.3	Negligible	Negligible	Not significant
6-C-H175	Shaftesbury Road, Altrincham	14.8	15.1	0.3	Negligible	Negligible	Not significant
6-C-H176	Sherway Drive, Timperley	14.5	14.7	0.2	Negligible	Negligible	Not significant
6-C-H177	Stockport Road, Altrincham	18.2	18.6	0.4	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H179	Manchester Road, Altrincham	16.3	16.5	0.2	Negligible	Negligible	Not significant
6-C-H187**	London Road, Alderley Edge	15.1	15.4	0.3	Negligible	Not applicable	Not significant
6-C-H188**	The Meadows, Ryleys Lane, Alderley Edge	11.0	11.2	0.2	Negligible	Not applicable	Not significant
6-C-H189**	Heyes Lane, Alderley Edge	9.2	9.4	0.2	Negligible	Not applicable	Not significant
6-C-H191**	South Bank Close, Alderley Edge	9.3	9.6	0.3	Negligible	Not applicable	Not significant
6-C-H193**	Heyes Lane, Alderley Edge	9.1	9.3	0.2	Negligible	Not applicable	Not significant
6-C-H195**	Heyes Lane, Alderley Edge	7.9	8.2	0.3	Negligible	Not applicable	Not significant
6-C-H197**	Brookside Terrace, Alderley Edge	9.4	9.7	0.3	Negligible	Not applicable	Not significant
6-C-H199**	Knutsford Road, Alderley Edge	10.2	10.5	0.3	Negligible	Not applicable	Not significant
6-C-H200**	Knutsford Road, Wilmslow	9.1	9.2	0.1	Negligible	Not applicable	Not significant
6-C-H201**	Knutsford Road, Wilmslow	9.7	9.9	0.2	Negligible	Not applicable	Not significant
6-C-H202**	Knutsford Road, Wilmslow	9.3	9.4	0.1	Negligible	Not applicable	Not significant
6-C-H203**	Alderley Lodge, Wilmslow	11.1	11.3	0.2	Negligible	Not applicable	Not significant
6-C-H204**	Curzon Mews, Wilmslow	11.6	11.6	< 0.1	Negligible	Not applicable	Not significant
6-C-H205**	Burleyhurst Lane, Wilmslow	11.7	12.1	0.4	Negligible	Not applicable	Not significant
6-C-H210**	Buckingham Road, Wilmslow	12.3	12.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H211**	Altrincham Road, Wilmslow	17.3	17.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H214**	Gorse Bank Primary School, Altrincham Road, Wilmslow	12.3	12.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H215**	Stamford Place, Wilmslow	15.8	15.9	0.1	Negligible	Not applicable	Not significant
6-C-H220**	Mobberley Road, Wilmslow	9.1	9.2	0.1	Negligible	Not applicable	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H223**	Dean Row Road, Wilmslow	11.4	11.4	< 0.1	Negligible	Not applicable	Not significant
6-C-H224**	Mobberley Road, Wilmslow	11.0	11.4	0.4	Negligible	Not applicable	Not significant
6-C-H225**	Mobberley Road, Wilmslow	11.3	11.8	0.5	Negligible	Not applicable	Not significant
6-C-H226**	Dean Road, Wilmslow	12.7	12.9	0.2	Negligible	Not applicable	Not significant
6-C-H227**	Mobberley Green Road, Wilmslow	10.7	11.3	0.6	Negligible	Not applicable	Not significant
6-C-H228**	Dean Road, Wilmslow	12.5	12.8	0.3	Negligible	Not applicable	Not significant
6-C-H229**	Morley Green Road, Wilmslow	10.4	10.9	0.5	Negligible	Not applicable	Not significant
6-C-H230**	Morley Green Road, Wilmslow	11.7	12.9	1.2	Negligible	Not applicable	Not significant
6-C-H231**	Morley Green Road, Wilmslow	13.7	14.2	0.5	Negligible	Not applicable	Not significant
6-C-H233**	Dean Road, Wilmslow	12.6	12.8	0.2	Negligible	Not applicable	Not significant
6-C-H234**	Wilmslow Road, Handforth	11.4	11.8	0.4	Negligible	Not applicable	Not significant
6-C-H235**	Wilmslow Road, Wilmslow	10.9	11.1	0.2	Negligible	Not applicable	Not significant
6-C-H236**	The Whitehouse, Spath Lane, Wilmslow	14.6	15.2	0.6	Negligible	Not applicable	Not significant
6-C-H237**	Wilmslow Road, Wilmslow	14.3	14.7	0.4	Negligible	Not applicable	Not significant
6-C-H243**	Warburton Drive, Hale	13.6	13.9	0.3	Negligible	Not applicable	Not significant
6-C-H244**	Chapel Lane, Hale Barns	12.1	12.3	0.2	Negligible	Not applicable	Not significant
6-C-H245**	Greengate, Hale Barns	12.1	12.7	0.6	Negligible	Not applicable	Not significant
6-C-H247**	High Elm Road, Hale Barns	13.5	14.2	0.7	Negligible	Not applicable	Not significant
6-C-H252**	Chapel Lane, Hale Barns	14.1	14.4	0.3	Negligible	Not applicable	Not significant
6-C-H253**	Tithebarn Road, Hale Barns	14.3	14.7	0.4	Negligible	Not applicable	Not significant
6-C-H254**	Tithebarn Road, Hale Barns	14.3	15.0	0.7	Negligible	Not applicable	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H256**	Tithebarn Road, Hale Barns	14.5	15.2	0.7	Negligible	Not applicable	Not significant
6-C-H257**	Chapel Lane, Hale Barns	11.4	13.0	1.6	Negligible	Not applicable	Not significant
6-C-H258**	Hawley Lane, Hale Barns	11.3	12.8	1.5	Negligible	Not applicable	Not significant
6-C-H260**	Wicker Lane, Hale Barns, Altrincham	11.2	12.3	1.1	Negligible	Not applicable	Not significant
6-C-H262**	Tithebarn Road, Hale Barns	15.1	15.0	-0.1	Negligible	Not applicable	Not significant
6-C-H263**	Bankhall Lane, Hale	11.1	12.0	0.9	Negligible	Not applicable	Not significant
6-C-H264**	Bankhall Lane, Hale	11.3	12.3	1.0	Negligible	Not applicable	Not significant
6-C-H265**	Bankhall Lane, Hale	12.0	14.1	2.1	Negligible	Not applicable	Not significant
6-C-H266**	Bankhall Lane, Hale	11.9	14.2	2.3	Slight adverse	Not applicable	Not significant
6-C-H267**	Bankhall Lane, Hale	11.4	13.3	1.9	Negligible	Not applicable	Not significant
6-C-H268**	Ashley Road, Altrincham	11.3	11.8	0.5	Negligible	Not applicable	Not significant
6-C-H270**	Bankhall Lane, Hale	11.4	12.2	0.8	Negligible	Not applicable	Not significant
6-C-H272**	Arthog Road, Altrincham	12.2	12.5	0.3	Negligible	Not applicable	Not significant
6-C-H274**	Arthog Road, Altrincham	13.2	13.8	0.6	Negligible	Not applicable	Not significant
6-C-H277**	Thorley Lane, Manchester	20.3	20.7	0.4	Negligible	Not applicable	Not significant
6-C-H279**	South Downs Road, Altrincham	11.5	11.8	0.3	Negligible	Not applicable	Not significant
6-C-H287**	Ash Lane, Altrincham	12.9	13.2	0.3	Negligible	Not applicable	Not significant
6-C-H290**	Shay Lane, Altrincham	14.2	15.0	0.8	Negligible	Not applicable	Not significant
6-C-H296**	Davenport Green, Roaring Gate Lane, Altrincham	15.5	16.1	0.6	Negligible	Not applicable	Not significant
6-C-H298**	Delahays Road, Hale	14.1	14.7	0.6	Negligible	Not applicable	Not significant
6-C-H299**	Ashley Road, Hale	14.2	14.6	0.4	Negligible	Not applicable	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H300**	Victoria Road, Hale	13.3	13.8	0.5	Negligible	Not applicable	Not significant
6-C-H301**	Hale Road, Hale	14.2	14.4	0.2	Negligible	Not applicable	Not significant
6-C-H302**	Egerton Road, Hale	14.3	14.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H303**	Roaring Gate Lane, Altrincham	15.3	15.9	0.6	Negligible	Not applicable	Not significant
6-C-H304**	Hale, Altrincham	12.8	13.2	0.4	Negligible	Not applicable	Not significant
6-C-H308**	Westminster Road, Altrincham	14.3	14.0	-0.3	Negligible	Not applicable	Not significant
6-C-H312**	Hale Road, Hale	15.6	15.7	0.1	Negligible	Not applicable	Not significant
6-C-H313**	Dunham Road, Bowdon, Altrincham	19.2	19.6	0.4	Negligible	Not applicable	Not significant
6-C-H314**	Westminster Road, Altrincham	13.8	13.6	-0.2	Negligible	Not applicable	Not significant
6-C-H317**	Hale Road, Hale	13.9	14.0	0.1	Negligible	Not applicable	Not significant
6-C-H318**	Clay Lane, Hale, Altrincham	12.6	12.9	0.3	Negligible	Not applicable	Not significant
6-C-H319**	Clay Lane, Hale, Altrincham	14.9	15.7	0.8	Negligible	Not applicable	Not significant
6-C-H320**	Brooks Drive, Altrincham	13.6	13.9	0.3	Negligible	Not applicable	Not significant
6-C-H321**	Clay Lane, Hale	14.4	14.3	-0.1	Negligible	Not applicable	Not significant
6-C-H322**	Clay Lane, Hale	14.6	14.6	< 0.1	Negligible	Not applicable	Not significant
6-C-H323**	Clay Lane, Hale	16.4	16.4	< 0.1	Negligible	Not applicable	Not significant
6-C-H326**	Stockport Road Altrincham	14.7	14.9	0.2	Negligible	Not applicable	Not significant
6-C-H327**	New Park Medical Practice, Stockport Road	14.9	15.1	0.2	Negligible	Not applicable	Not significant
6-C-H328**	Eskdale Drive, Altrincham	14.7	14.9	0.2	Negligible	Not applicable	Not significant
6-C-H329**	Park Road, Altrincham	14.2	14.4	0.2	Negligible	Not applicable	Not significant
6-C-H330**	Pepper Street, Mobberley	12.4	12.8	0.4	Negligible	Not applicable	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H331**	Pepper Street, Mobberley	11.4	11.7	0.3	Negligible	Not applicable	Not significant
6-C-H332**	Pepper Street, Mobberley	14.1	14.6	0.5	Negligible	Not applicable	Not significant
6-C-H333**	Mobberley Road, Mobberley	12.7	13.6	0.9	Negligible	Not applicable	Not significant
6-C-H334**	Bucklow Hill, Mere	12.8	12.9	0.1	Negligible	Not applicable	Not significant
6-C-H335**	Chapel Lane, Bucklow Hill	9.9	10.2	0.3	Negligible	Not applicable	Not significant
6-C-H336**	Castle Mill Lane, Thorns Green, Altrincham	11.1	11.7	0.6	Negligible	Not applicable	Not significant
6-C-H337**	Ashley Road, Ashley	13.1	13.2	0.1	Negligible	Not applicable	Not significant
6-C-H338**	Castle Mill Lane, Ashley	14.7	15.4	0.7	Negligible	Not applicable	Not significant
6-C-H339**	Reddy Lane, Altrincham	14.2	14.2	< 0.1	Negligible	Not applicable	Not significant

Note: ** Indicates that receptor is new to the SES2 and AP2 ES.

Table 28: Predicted annual mean PM₁₀ concentrations and impacts (construction phase)

Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
04-C-H001	Burford Lane, Lymm	10.4	10.6	0.2	Negligible	Negligible	Not significant
04-C-H002	Weaste Lane, Warrington	17.0	17.0	< 0.1	Negligible	Negligible	Not significant
04-C-H015**	Nursery Farm, Barton Moss Road, Manchester	13.5	13.6	0.1	Negligible	Not applicable	Not significant
04-C-H016**	Cutnook Lane, Manchester	14.3	14.3	< 0.1	Negligible	Not applicable	Not significant
04-C-H017**	Crossfield Road, Manchester	13.1	13.1	< 0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
04-C-H018**	Dove Drive, Irlam	13.0	13.0	< 0.1	Negligible	Not applicable	Not significant
04-C-H019**	Cutnook Lane, Irlam	12.9	13.0	0.1	Negligible	Not applicable	Not significant
04-C-H020**	Quay House, Bankquay Court, Manchester	12.7	12.8	0.1	Negligible	Not applicable	Not significant
04-C-H021**	The Locks, Forebay Drive, Manchester	12.0	12.1	0.1	Negligible	Not applicable	Not significant
04-C-H022**	Rixtonleys Drive, Manchester	12.3	12.3	< 0.1	Negligible	Not applicable	Not significant
04-C-H023**	Roseway Avenue, Manchester	12.3	12.4	0.1	Negligible	Not applicable	Not significant
04-C-H024**	Manchester Road, Warrington	11.8	11.8	< 0.1	Negligible	Not applicable	Not significant
04-C-H025**	Manchester Road, Warrington	11.6	11.7	0.1	Negligible	Not applicable	Not significant
04-C-H026**	M6 J21	16.1	16.1	< 0.1	Negligible	Not applicable	Not significant
04-C-H027**	M6, Warrington AT HEIGHT	17.8	17.8	< 0.1	Negligible	Not applicable	Not significant
04-C-H028**	Birch Brook Road, Lymm	10.4	10.4	< 0.1	Negligible	Not applicable	Not significant
04-C-H029**	Massey Avenue, Lymm	15.7	15.7	< 0.1	Negligible	Not applicable	Not significant
04-C-H030**	Burford Lane, Lymm	12.3	12.5	0.2	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
04-C-H031**	Higher Lane, Lymm	12.2	12.4	0.2	Negligible	Not applicable	Not significant
04-C-H032**	Higher Lane, Lymm	11.6	11.7	0.1	Negligible	Not applicable	Not significant
04-C-H033**	High Legh Road, Lymm	11.7	11.8	0.1	Negligible	Not applicable	Not significant
04-C-H034**	Higher Lane, Lymm	11.5	11.6	0.1	Negligible	Not applicable	Not significant
04-C-H035**	Agden Park Lane, Lymm	11.4	11.6	0.2	Negligible	Not applicable	Not significant
05-C-H002	Southworth Road, Newton-Le-Willows	18.2	18.3	0.1	Negligible	Negligible	Not significant
05-C-H008	Houghwood Grange, Ashton-in-Makerfield	18.4	18.4	< 0.1	Negligible	Negligible	Not significant
05-C-H009	Houghwood Grange, Ashton-in-Makerfield	18.1	18.2	0.1	Negligible	Negligible	Not significant
05-C-H010	Houghwood Grange, Ashton-in-Makerfield	17.7	17.8	0.1	Negligible	Negligible	Not significant
05-C-H011	Houghwood Grange, Ashton-in-Makerfield	18.7	18.8	0.1	Negligible	Negligible	Not significant
05-C-H012	Houghwood Grange, Ashton-in-Makerfield	17.7	17.8	0.1	Negligible	Negligible	Not significant
05-C-H013	Skitters Grove, Ashton-in-Makerfield	17.8	17.9	0.1	Negligible	Negligible	Not significant
05-C-H014	M6, Ashton-in-Makerfield	16.6	16.6	< 0.1	Negligible	Negligible	Not significant
05-C-H015	M6, Ashton-in-Makerfield	16.8	16.9	0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
05-C-H016	M6, Ashton-in-Makerfield	17.2	17.3	0.1	Negligible	Negligible	Not significant
05-C-H017	M6, Ashton-in-Makerfield	16.9	17.0	0.1	Negligible	Negligible	Not significant
05-C-H018	Downhall Green Road, Ashton-in-Makerfield	17.0	17.0	< 0.1	Negligible	Negligible	Not significant
05-C-H019	Downhall Green Road, Ashton-in-Makerfield	17.0	17.0	< 0.1	Negligible	Negligible	Not significant
05-C-H020	Downhall Green Road, Ashton-in-Makerfield	17.6	17.6	< 0.1	Negligible	Negligible	Not significant
05-C-H021	Downhall Green Road, Ashton-in-Makerfield	18.3	18.4	0.1	Negligible	Negligible	Not significant
05-C-H022	Downhall Green Road, Ashton-in-Makerfield	16.7	16.8	0.1	Negligible	Negligible	Not significant
05-C-H023	Downhall Green Road, Ashton-in-Makerfield	18.9	19.1	0.2	Negligible	Negligible	Not significant
05-C-H024	Downhall Green Road, Ashton-in-Makerfield	18.4	18.5	0.1	Negligible	Negligible	Not significant
05-C-H025	Downhall Green Road, Ashton-in-Makerfield	17.9	18.0	0.1	Negligible	Negligible	Not significant
05-C-H026	Downhall Green Road, Ashton-in-Makerfield	17.6	17.7	0.1	Negligible	Negligible	Not significant
05-C-H027	Downhall Green Road, Ashton-in-Makerfield	17.5	17.6	0.1	Negligible	Negligible	Not significant
05-C-H028	Downhall Green Road, Ashton-in-Makerfield	17.1	17.1	< 0.1	Negligible	Negligible	Not significant
05-C-H029	Downhall Green Road, Ashton-in-Makerfield	16.8	16.9	0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
05-C-H030	Downhall Green Road, Ashton-in-Makerfield	16.6	16.7	0.1	Negligible	Negligible	Not significant
05-C-H032	Warrington Road, Wigan	16.7	17.0	0.3	Negligible	Negligible	Not significant
05-C-H033**	M6, Warrington	14.8	14.8	< 0.1	Negligible	Not applicable	Not significant
05-C-H034**	Inglewood Close, Warrington	12.7	12.7	< 0.1	Negligible	Not applicable	Not significant
05-C-H035**	Inglewood Close, Birchwood, Warrington	12.8	12.8	< 0.1	Negligible	Not applicable	Not significant
05-C-H036**	Cross Lane, Warrington, AT HEIGHT	15.4	15.5	0.1	Negligible	Not applicable	Not significant
05-C-H037**	Cross Lane South, Warrington, AT HEIGHT	13.8	13.9	0.1	Negligible	Not applicable	Not significant
05-C-H038**	M6, Warrington	17.9	17.9	< 0.1	Negligible	Not applicable	Not significant
05-C-H039**	Mill House Lane, Warrington	14.2	14.2	< 0.1	Negligible	Not applicable	Not significant
05-C-H040**	M62, Warrington	16.0	16.1	0.1	Negligible	Not applicable	Not significant
05-C-H041**	M62, Warrington	14.0	14.0	< 0.1	Negligible	Not applicable	Not significant
05-C-H042**	Delph Lane, Warrington	16.8	16.9	0.1	Negligible	Not applicable	Not significant
05-C-H043**	Mill Lane, Warrington	12.7	12.7	< 0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
05-C-H044**	St Andrews Close, Warrington	13.1	13.1	< 0.1	Negligible	Not applicable	Not significant
05-C-H045**	Peel Cottage Lane, Warrington	14.3	14.3	< 0.1	Negligible	Not applicable	Not significant
05-C-H046**	Dig Lane, Warrington	15.4	15.4	< 0.1	Negligible	Not applicable	Not significant
05-C-H047**	Locking Stumps Lane, Warrington	14.4	14.4	< 0.1	Negligible	Not applicable	Not significant
05-C-H048**	University of Chester	14.1	14.1	< 0.1	Negligible	Not applicable	Not significant
6-C-H001	London Road, Alderley Edge	10.7	10.8	0.1	Negligible	Negligible	Not significant
6-C-H002	Alderley Edge School for Girls, Wilmslow Road, Alderley Edge	9.6	9.6	< 0.1	Negligible	Negligible	Not significant
6-C-H003	Hurst Lea Court, Alderley Edge	10.4	10.5	0.1	Negligible	Negligible	Not significant
6-C-H004	Brook Lane, Alderley Edge	9.6	9.7	0.1	Negligible	Negligible	Not significant
6-C-H005	Brook Lane, Alderley Edge	9.5	9.6	0.1	Negligible	Negligible	Not significant
6-C-H006	Brook Lane, Alderley Edge	9.7	9.9	0.2	Negligible	Negligible	Not significant
6-C-H007	Mobberley Road, Knutsford	11.4	11.5	0.1	Negligible	Negligible	Not significant
6-C-H008	Hall Lane, Mobberley	9.9	10.0	0.1	Negligible	Negligible	Not significant
6-C-H009	Hall Lane, Knolls Green	9.5	9.5	< 0.1	Negligible	Negligible	Not significant
6-C-H012	Tipping Brow, Mobberley	9.3	9.4	0.1	Negligible	Negligible	Not significant
6-C-H013	Hough Lane, Wilmslow	8.6	8.6	< 0.1	Negligible	Negligible	Not significant
6-C-H014	Hough Lane, Wilmslow	9.1	9.1	< 0.1	Negligible	Negligible	Not significant
6-C-H015	Kingsley Lodge, Wilmslow	9.3	9.3	< 0.1	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H016	Burnside Close, Wilmslow	10.0	10.1	0.1	Negligible	Negligible	Not significant
6-C-H017	Prestbury Road, Wilmslow	9.3	9.3	< 0.1	Negligible	Negligible	Not significant
6-C-H018	Avondale Rise, Wilmslow	9.4	9.5	0.1	Negligible	Negligible	Not significant
6-C-H019	Burnside Close, Wilmslow	9.9	10.1	0.2	Negligible	Negligible	Not significant
6-C-H020	Alderley Road, Wilmslow	10.0	10.0	< 0.1	Negligible	Negligible	Not significant
6-C-H021	Alderley Road, Wilmslow	9.9	9.8	-0.1	Negligible	Negligible	Not significant
6-C-H023	Alderley Road, Wilmslow	9.8	9.8	< 0.1	Negligible	Negligible	Not significant
6-C-H024	Alderley Road, Wilmslow	10.1	10.1	< 0.1	Negligible	Negligible	Not significant
6-C-H025	Albert Road, Wilmslow	10.2	10.2	< 0.1	Negligible	Negligible	Not significant
6-C-H026	Cygnets Court (Nursery), Hawthorn Street, Wilmslow	9.4	9.4	< 0.1	Negligible	Negligible	Not significant
6-C-H027	Queen Anne Court, Macclesfield Road, Wilmslow	9.9	10.0	0.1	Negligible	Negligible	Not significant
6-C-H028	Alderley Road, Wilmslow	9.6	9.5	-0.1	Negligible	Negligible	Not significant
6-C-H029	The Hawthorns (Nursery), Hawthorn Street, Wilmslow	9.8	9.8	< 0.1	Negligible	Negligible	Not significant
6-C-H030	Lawdon Court, Beech Lane	10.8	10.8	< 0.1	Negligible	Negligible	Not significant
6-C-H031	Beech Lane, Wilmslow	10.3	10.3	< 0.1	Negligible	Negligible	Not significant
6-C-H032	Alderley Road, Wilmslow	10.3	10.3	< 0.1	Negligible	Negligible	Not significant
6-C-H033	Wilmslow Park Street, Wilmslow	10.6	10.7	0.1	Negligible	Negligible	Not significant
6-C-H034	Water Lane, Wilmslow	10.6	10.6	< 0.1	Negligible	Negligible	Not significant
6-C-H035	Macclesfield Road, Wilmslow	10.4	10.5	0.1	Negligible	Negligible	Not significant
6-C-H036	Water Lane Wilmslow	10.6	10.6	< 0.1	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H037	Station Road, Wilmslow	10.9	11.0	0.1	Negligible	Negligible	Not significant
6-C-H038	Swan Street, Wilmslow	11.3	11.3	< 0.1	Negligible	Negligible	Not significant
6-C-H043	Pownall Court, Wilmslow	9.9	9.9	< 0.1	Negligible	Negligible	Not significant
6-C-H044	Wallworth Terrace, Willmslow	10.2	10.1	-0.1	Negligible	Negligible	Not significant
6-C-H046	Connaught Close, Willmslow	10.1	10.2	0.1	Negligible	Negligible	Not significant
6-C-H047	Styal Road, Wilmslow	10.4	10.5	0.1	Negligible	Negligible	Not significant
6-C-H048	Styal Road, Wilmslow	10.3	10.4	0.1	Negligible	Negligible	Not significant
6-C-H049	Altrincham Road, Wilmslow	11.2	11.1	-0.1	Negligible	Negligible	Not significant
6-C-H050	Kingsbury Drive, Wilmslow	10.9	11.0	0.1	Negligible	Negligible	Not significant
6-C-H052	Lancelyn Drive, Wilmslow	10.0	10.0	< 0.1	Negligible	Negligible	Not significant
6-C-H056	Altrincham Road, Willmslow	10.2	10.3	0.1	Negligible	Negligible	Not significant
6-C-H057	Queensbury Close, Wilmslow	10.7	10.8	0.1	Negligible	Negligible	Not significant
6-C-H058	Heathfield Farm, Wilmslow	9.8	9.8	< 0.1	Negligible	Negligible	Not significant
6-C-H059	Woodcote View, Wilmslow	9.9	10.0	0.1	Negligible	Negligible	Not significant
6-C-H060	Tudor Green, Willmslow	10.0	10.0	< 0.1	Negligible	Negligible	Not significant
6-C-H061	Hunters Close Path, Willmslow	10.0	10.0	< 0.1	Negligible	Negligible	Not significant
6-C-H062	Wilmslow Road, Stockport	8.7	8.7	< 0.1	Negligible	Negligible	Not significant
6-C-H063	Wilmslow Road, Stockport	9.0	9.0	< 0.1	Negligible	Negligible	Not significant
6-C-H064	Tatton Dale, Knutsford	10.0	10.2	0.2	Negligible	Negligible	Not significant
6-C-H067	Stanneylands Road, Wilmslow	10.1	10.2	0.1	Negligible	Negligible	Not significant
6-C-H069	Rostherne Drive, Rostherne	10.0	10.1	0.1	Negligible	Negligible	Not significant
6-C-H071	Altrincham Road, Wilmslow	10.7	10.7	< 0.1	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H073	Chester Road, Bucklow Hill	10.6	10.7	0.1	Negligible	Negligible	Not significant
6-C-H074	Mobberley Road, Ashley	10.1	10.2	0.1	Negligible	Negligible	Not significant
6-C-H075	Ashley Road, Ashley	9.7	10.0	0.3	Negligible	Negligible	Not significant
6-C-H077	Chapel Lane, Bucklow Hill	11.5	11.7	0.2	Negligible	Negligible	Not significant
6-C-H080	Mill Lane, Ashley	9.7	9.9	0.2	Negligible	Negligible	Not significant
6-C-H081	Chapel Lane, Bucklow Hill	11.5	11.6	0.1	Negligible	Negligible	Not significant
6-C-H082	Mill Lane, Ashley	9.9	10.3	0.4	Negligible	Negligible	Not significant
6-C-H083	Millington Hall Lane, Millington	12.6	12.7	0.1	Negligible	Negligible	Not significant
6-C-H084	Back Lane, Ashley	9.2	9.2	< 0.1	Negligible	Negligible	Not significant
6-C-H085	Mobberley Road, Ashley	12.3	12.7	0.4	Negligible	Negligible	Not significant
6-C-H086	Back Lane, Ashley	11.3	11.3	< 0.1	Negligible	Negligible	Not significant
6-C-H087	Ashley Road, Ashley	12.3	12.4	0.1	Negligible	Negligible	Not significant
6-C-H088	Birkinheath Lane, Rostherne	12.0	12.0	< 0.1	Negligible	Negligible	Not significant
6-C-H089	Castle Mill Lane, Ashley	11.4	11.5	0.1	Negligible	Negligible	Not significant
6-C-H091	Cherry Tree Lane, Rostherne	12.0	12.1	0.1	Negligible	Negligible	Not significant
6-C-H092	Ashley Road, Ashley	12.1	12.3	0.2	Negligible	Negligible	Not significant
6-C-H093	Ashley Road, Ashley	12.1	12.2	0.1	Negligible	Negligible	Not significant
6-C-H094	Chester Road, Millington	12.0	12.1	0.1	Negligible	Negligible	Not significant
6-C-H095	Ashley Road, Ashley	12.4	12.7	0.3	Negligible	Negligible	Not significant
6-C-H096	Cow Lane, Ashley	12.6	12.8	0.2	Negligible	Negligible	Not significant
6-C-H097	Thowler Lane, Moston	10.3	10.3	< 0.1	Negligible	Negligible	Not significant
6-C-H099	Birkinheath Lane, Ashley	12.0	12.0	< 0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H100	Millington Lane, Millington	12.3	12.5	0.2	Negligible	Negligible	Not significant
6-C-H101	Sunbank Lane, Manchester (Compound)	11.4	11.4	< 0.1	Negligible	Negligible	Not significant
6-C-H102	Millington Lane, Rostherne	11.6	11.7	0.1	Negligible	Negligible	Not significant
6-C-H103	Thowler Lane, Millington	10.4	10.6	0.2	Negligible	Negligible	Not significant
6-C-H105	Tanyard Farm, Castle Mill Lane	12.0	12.0	< 0.1	Negligible	Negligible	Not significant
6-C-H106	Cherry Tree Lane, Rostherne	9.9	10.0	0.1	Negligible	Negligible	Not significant
6-C-H107	House near riding stables, Hale Barns	11.9	11.9	< 0.1	Negligible	Negligible	Not significant
6-C-H108	Wilmslow Road, Altrincham	10.9	10.9	< 0.1	Negligible	Negligible	Not significant
6-C-H111	Chester Road, Millington	14.6	14.9	0.3	Negligible	Negligible	Not significant
6-C-H112	Warburton Drive, Altrincham (Compound)	11.7	11.7	< 0.1	Negligible	Negligible	Not significant
6-C-H113	Ryecroft Farm, Altrincham	12.4	12.4	< 0.1	Negligible	Negligible	Not significant
6-C-H114	Cherry Tree Lane, Rostherne	11.9	12.0	0.1	Negligible	Negligible	Not significant
6-C-H116	Cherry Tree Lane, Rostherne	10.2	10.3	0.1	Negligible	Negligible	Not significant
6-C-H117	Coe Lane, Rostherne	11.6	11.6	< 0.1	Negligible	Negligible	Not significant
6-C-H118	Hale Barns, Altrincham (Compound)	12.3	12.3	< 0.1	Negligible	Negligible	Not significant
6-C-H119	Hasty Lane, Hale Barns	12.7	12.7	< 0.1	Negligible	Negligible	Not significant
6-C-H120	Hasty Lane, Hale Barns	12.8	13.0	0.2	Negligible	Negligible	Not significant
6-C-H121	Reddy Lane, Millington	12.2	12.2	< 0.1	Negligible	Negligible	Not significant
6-C-H122	Hale Road, Hale Barns	10.7	10.9	0.2	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H123	Yarwoodheath Lane, Altrincham	12.2	12.2	< 0.1	Negligible	Negligible	Not significant
6-C-H124	Reddy Lane, Millington	12.1	12.1	< 0.1	Negligible	Negligible	Not significant
6-C-H125	Hasty Lane, Hale Barns	12.8	12.8	< 0.1	Negligible	Negligible	Not significant
6-C-H126	Elmridge Primary School, Wilton Drive, Hale Barns	10.2	10.2	< 0.1	Negligible	Negligible	Not significant
6-C-H127	Hale Road, Hale Barns, Altrincham	11.3	11.3	< 0.1	Negligible	Negligible	Not significant
6-C-H128	Reddy Lane, Millington	11.5	11.6	0.1	Negligible	Negligible	Not significant
6-C-H129	Hale Road, Hale Barns, Altrincham	10.6	10.6	< 0.1	Negligible	Negligible	Not significant
6-C-H130	Hale Road, Hale Barns, Altrincham	11.4	11.1	-0.3	Negligible	Negligible	Not significant
6-C-H131	Abinger Road, Hale Barns	11.0	11.0	< 0.1	Negligible	Negligible	Not significant
6-C-H132	Abinger Road, Hale Barns	11.4	11.3	-0.1	Negligible	Negligible	Not significant
6-C-H133	The Dell, Altrincham	10.9	11.1	0.2	Negligible	Negligible	Not significant
6-C-H134	Park Road, Altrincham	10.7	10.9	0.2	Negligible	Negligible	Not significant
6-C-H135	Hale, Altrincham	10.6	10.7	0.1	Negligible	Negligible	Not significant
6-C-H136	Shay Lane, Hale Barns	10.9	11.0	0.1	Negligible	Negligible	Not significant
6-C-H137	Thorley Lane, Manchester	13.8	13.9	0.1	Negligible	Negligible	Not significant
6-C-H138	Brooks Drive, Altrincham (Compound)	12.0	12.0	< 0.1	Negligible	Negligible	Not significant
6-C-H139	Ashley Road, Altrincham	10.6	10.8	0.2	Negligible	Negligible	Not significant
6-C-H140	Hale Road, Hale Barns, Altrincham	10.6	10.5	-0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H141	Wolf Grange, Altrincham	11.0	11.3	0.3	Negligible	Negligible	Not significant
6-C-H142	Park Road, Altrincham	10.9	11.1	0.2	Negligible	Negligible	Not significant
6-C-H143	Hale Road, Hale Barns, Altrincham	10.2	10.2	< 0.1	Negligible	Negligible	Not significant
6-C-H144	South Downs Road, Altrincham	10.6	10.8	0.2	Negligible	Negligible	Not significant
6-C-H145	Thorley Lane, Altrincham	13.3	13.4	0.1	Negligible	Negligible	Not significant
6-C-H146	Park Road, Altrincham	10.5	10.6	0.1	Negligible	Negligible	Not significant
6-C-H147	Broad Lane, Hale Barns	10.6	10.6	< 0.1	Negligible	Negligible	Not significant
6-C-H148	Broad Lane, Altrincham	10.6	10.5	-0.1	Negligible	Negligible	Not significant
6-C-H149	Dunham Road, Bowdon, Altrincham	11.4	11.5	0.1	Negligible	Negligible	Not significant
6-C-H150	South Downs Road, Altrincham	10.3	10.4	0.1	Negligible	Negligible	Not significant
6-C-H151	Langham Road, Bowdon, Altrincham	10.4	10.5	0.1	Negligible	Negligible	Not significant
6-C-H152	Ashley Road, Altrincham	10.4	10.5	0.1	Negligible	Negligible	Not significant
6-C-H153	Bowdon, Altrincham	10.6	10.7	0.1	Negligible	Negligible	Not significant
6-C-H154	Hale, Altrincham	10.7	10.7	< 0.1	Negligible	Negligible	Not significant
6-C-H155	Hale Road, Hale Barns	10.6	10.5	-0.1	Negligible	Negligible	Not significant
6-C-H156	Planetree Road, Altrincham	10.4	10.5	0.1	Negligible	Negligible	Not significant
6-C-H157	Bowdon, Altrincham	11.0	11.2	0.2	Negligible	Negligible	Not significant
6-C-H158	Hale Road, Altrincham	10.7	10.8	0.1	Negligible	Negligible	Not significant
6-C-H159	Langham Road, Bowdon, Altrincham	10.7	10.8	0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H160	Ash Lane, Hale	10.4	10.5	0.1	Negligible	Negligible	Not significant
6-C-H161	Grove Lane, Timperley	10.3	10.3	< 0.1	Negligible	Negligible	Not significant
6-C-H162	Grove Lane, Hale	11.3	11.4	0.1	Negligible	Negligible	Not significant
6-C-H163	Bowdon, Altrincham	10.7	10.7	< 0.1	Negligible	Negligible	Not significant
6-C-H164	Delahays Road, Hale	11.3	11.4	0.1	Negligible	Negligible	Not significant
6-C-H165	Grove Lane, Timperley	11.3	11.5	0.2	Negligible	Negligible	Not significant
6-C-H166	Grove Lane, Timperley	11.9	12.0	0.1	Negligible	Negligible	Not significant
6-C-H167	Grove Lane, Hale, Altrincham	10.1	10.2	0.1	Negligible	Negligible	Not significant
6-C-H168	Grove Lane, Timperley	10.4	10.5	0.1	Negligible	Negligible	Not significant
6-C-H169	Grove Lane, Timperley	10.3	10.4	0.1	Negligible	Negligible	Not significant
6-C-H174	Thorley Lane, Altrincham	12.5	12.6	0.1	Negligible	Negligible	Not significant
6-C-H175	Shaftesbury Road, Altrincham	12.0	12.1	0.1	Negligible	Negligible	Not significant
6-C-H176	Sherway Drive, Timperley	11.9	11.9	< 0.1	Negligible	Negligible	Not significant
6-C-H177	Stockport Road, Altrincham	12.9	13.1	0.2	Negligible	Negligible	Not significant
6-C-H179	Manchester Road, Altrincham	12.1	12.1	< 0.1	Negligible	Negligible	Not significant
6-C-H187**	London Road, Alderley Edge	10.4	10.5	0.1	Negligible	Not applicable	Not significant
6-C-H188**	The Meadows, Ryleys Lane, Alderley Edge	9.5	9.5	< 0.1	Negligible	Not applicable	Not significant
6-C-H189**	Heyes Lane, Alderley Edge	9.0	9.0	< 0.1	Negligible	Not applicable	Not significant
6-C-H191**	South Bank Close, Alderley Edge	9.0	9.1	0.1	Negligible	Not applicable	Not significant
6-C-H193**	Heyes Lane, Alderley Edge	8.9	9.0	0.1	Negligible	Not applicable	Not significant
6-C-H195**	Heyes Lane, Alderley Edge	8.5	8.6	0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H197**	Brookside Terrace, Alderley Edge	9.3	9.4	0.1	Negligible	Not applicable	Not significant
6-C-H199**	Knutsford Road, Alderley Edge	9.5	9.6	0.1	Negligible	Not applicable	Not significant
6-C-H200**	Knutsford Road, Wilmslow	9.2	9.3	0.1	Negligible	Not applicable	Not significant
6-C-H201**	Knutsford Road, Wilmslow	9.5	9.6	0.1	Negligible	Not applicable	Not significant
6-C-H202**	Knutsford Road, Wilmslow	9.4	9.4	< 0.1	Negligible	Not applicable	Not significant
6-C-H203**	Alderley Lodge, Wilmslow	9.5	9.6	0.1	Negligible	Not applicable	Not significant
6-C-H204**	Curzon Mews, Wilmslow	9.7	9.7	< 0.1	Negligible	Not applicable	Not significant
6-C-H205**	Burleyhurst Lane, Wilmslow	9.7	9.8	0.1	Negligible	Not applicable	Not significant
6-C-H210**	Buckingham Road, Wilmslow	10.1	10.1	< 0.1	Negligible	Not applicable	Not significant
6-C-H211**	Altrincham Road, Wilmslow	11.7	11.7	< 0.1	Negligible	Not applicable	Not significant
6-C-H214**	Gorseley Bank Primary School, Altrincham Road, Wilmslow	10.1	10.1	< 0.1	Negligible	Not applicable	Not significant
6-C-H215**	Stamford Place, Wilmslow	11.1	11.1	< 0.1	Negligible	Not applicable	Not significant
6-C-H220**	Mobberley Road, Wilmslow	8.8	8.9	0.1	Negligible	Not applicable	Not significant
6-C-H223**	Dean Row Road, Wilmslow	9.8	9.8	< 0.1	Negligible	Not applicable	Not significant
6-C-H224**	Mobberley Road, Wilmslow	9.7	9.8	0.1	Negligible	Not applicable	Not significant
6-C-H225**	Mobberley Road, Wilmslow	9.8	9.9	0.1	Negligible	Not applicable	Not significant
6-C-H226**	Dean Road, Wilmslow	10.2	10.3	0.1	Negligible	Not applicable	Not significant
6-C-H227**	Mobberley Green Road, Wilmslow	9.6	9.8	0.2	Negligible	Not applicable	Not significant
6-C-H228**	Dean Road, Wilmslow	10.2	10.3	0.1	Negligible	Not applicable	Not significant
6-C-H229**	Morley Green Road, Wilmslow	9.6	9.7	0.1	Negligible	Not applicable	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H230**	Morley Green Road, Wilmslow	9.9	10.2	0.3	Negligible	Not applicable	Not significant
6-C-H231**	Morley Green Road, Wilmsow	10.4	10.4	< 0.1	Negligible	Not applicable	Not significant
6-C-H233**	Dean Road, Wilmslow	10.1	10.2	0.1	Negligible	Not applicable	Not significant
6-C-H234**	Wilmslow Road, Handforth	9.8	9.9	0.1	Negligible	Not applicable	Not significant
6-C-H235**	Wilmslow Road, Wilmslow	9.6	9.7	0.1	Negligible	Not applicable	Not significant
6-C-H236**	The Whitehouse, Spath Lane, Wilmslow	10.8	10.9	0.1	Negligible	Not applicable	Not significant
6-C-H237**	Wilmslow Road, Wilmslow	10.6	10.7	0.1	Negligible	Not applicable	Not significant
6-C-H243**	Warburton Drive, Hale	11.7	11.7	< 0.1	Negligible	Not applicable	Not significant
6-C-H244**	Chapel Lane, Hale Barns	11.5	11.6	0.1	Negligible	Not applicable	Not significant
6-C-H245**	Greengate, Hale Barns	11.5	11.7	0.2	Negligible	Not applicable	Not significant
6-C-H247**	High Elm Road, Hale Barns	10.2	10.5	0.3	Negligible	Not applicable	Not significant
6-C-H252**	Chapel Lane, Hale Barns	10.5	10.6	0.1	Negligible	Not applicable	Not significant
6-C-H253**	Tithebarn Road, Hale Barns	10.5	10.7	0.2	Negligible	Not applicable	Not significant
6-C-H254**	Tithebarn Road, Hale Barns	10.5	10.7	0.2	Negligible	Not applicable	Not significant
6-C-H256**	Tithebarn Road, Hale Barns	10.6	10.8	0.2	Negligible	Not applicable	Not significant
6-C-H257**	Chapel Lane, Hale Barns	9.8	10.2	0.4	Negligible	Not applicable	Not significant
6-C-H258**	Hawley Lane, Hale Barns	9.8	10.2	0.4	Negligible	Not applicable	Not significant
6-C-H260**	Wicker Lane, Hale Barns, Altrincham	9.8	10.1	0.3	Negligible	Not applicable	Not significant
6-C-H262**	Tithebarn Road, Hale Barns	10.8	10.8	< 0.1	Negligible	Not applicable	Not significant
6-C-H263**	Bankhall Lane, Hale	9.7	10.0	0.3	Negligible	Not applicable	Not significant
6-C-H264**	Bankhall Lane, Hale	9.8	10.1	0.3	Negligible	Not applicable	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H265**	Bankhall Lane, Hale	10.0	10.7	0.7	Negligible	Not applicable	Not significant
6-C-H266**	Bankhall Lane, Hale	10.0	10.7	0.7	Negligible	Not applicable	Not significant
6-C-H267**	Bankhall Lane, Hale	9.8	10.4	0.6	Negligible	Not applicable	Not significant
6-C-H268**	Ashley Road, Altrincham	10.8	10.9	0.1	Negligible	Not applicable	Not significant
6-C-H270**	Bankhall Lane, Hale	9.8	10.1	0.3	Negligible	Not applicable	Not significant
6-C-H272**	Arthog Road, Altrincham	10.4	10.5	0.1	Negligible	Not applicable	Not significant
6-C-H274**	Arthog Road, Altrincham	10.7	10.9	0.2	Negligible	Not applicable	Not significant
6-C-H277**	Thorley Lane, Manchester	14.2	14.3	0.1	Negligible	Not applicable	Not significant
6-C-H279**	South Downs Road, Altrincham	10.2	10.3	0.1	Negligible	Not applicable	Not significant
6-C-H287**	Ash Lane, Altrincham	10.1	10.2	0.1	Negligible	Not applicable	Not significant
6-C-H290**	Shay Lane, Altrincham	12.4	12.6	0.2	Negligible	Not applicable	Not significant
6-C-H296**	Davenport Green, Roaring Gate Lane, Altrincham	12.8	13.0	0.2	Negligible	Not applicable	Not significant
6-C-H298**	Delahays Road, Hale	10.9	11.1	0.2	Negligible	Not applicable	Not significant
6-C-H299**	Ashley Road, Hale	11.0	11.2	0.2	Negligible	Not applicable	Not significant
6-C-H300**	Victoria Road, Hale	10.7	10.8	0.1	Negligible	Not applicable	Not significant
6-C-H301**	Hale Road, Hale	11.0	11.0	< 0.1	Negligible	Not applicable	Not significant
6-C-H302**	Egerton Road, Hale	11.0	11.0	< 0.1	Negligible	Not applicable	Not significant
6-C-H303**	Roaring Gate Lane, Altrincham	12.7	12.9	0.2	Negligible	Not applicable	Not significant
6-C-H304**	Hale, Altrincham	10.6	10.7	0.1	Negligible	Not applicable	Not significant
6-C-H308**	Westminster Road, Altrincham	11.0	10.9	-0.1	Negligible	Not applicable	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H312**	Hale Road, Hale	11.8	11.9	0.1	Negligible	Not applicable	Not significant
6-C-H313**	Dunham Road, Bowdon, Altrincham	12.2	12.3	0.1	Negligible	Not applicable	Not significant
6-C-H314**	Westminster Road, Altrincham	10.9	10.8	-0.1	Negligible	Not applicable	Not significant
6-C-H317**	Hale Road, Hale	11.3	11.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H318**	Clay Lane, Hale, Altrincham	10.3	10.4	0.1	Negligible	Not applicable	Not significant
6-C-H319**	Clay Lane, Hale, Altrincham	11.0	11.3	0.3	Negligible	Not applicable	Not significant
6-C-H320**	Brooks Drive, Altrincham	10.6	10.7	0.1	Negligible	Not applicable	Not significant
6-C-H321**	Clay Lane, Hale	10.8	10.8	< 0.1	Negligible	Not applicable	Not significant
6-C-H322**	Clay Lane, Hale	11.8	11.8	< 0.1	Negligible	Not applicable	Not significant
6-C-H323**	Clay Lane, Hale	12.3	12.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H326**	Stockport Road Altrincham	11.9	11.9	< 0.1	Negligible	Not applicable	Not significant
6-C-H327**	New Park Medical Practice, Stockport Road	11.9	12.0	0.1	Negligible	Not applicable	Not significant
6-C-H328**	Eskdale Drive, Altrincham	11.9	11.9	< 0.1	Negligible	Not applicable	Not significant
6-C-H329**	Park Road, Altrincham	11.7	11.8	0.1	Negligible	Not applicable	Not significant
6-C-H330**	Pepper Street, Mobberley	9.8	9.9	0.1	Negligible	Not applicable	Not significant
6-C-H331**	Pepper Street, Mobberley	9.6	9.7	0.1	Negligible	Not applicable	Not significant
6-C-H332**	Pepper Street, Mobberley	10.1	10.3	0.2	Negligible	Not applicable	Not significant
6-C-H333**	Mobberley Road, Mobberley	9.9	10.0	0.1	Negligible	Not applicable	Not significant
6-C-H334**	Bucklow Hill, Mere	10.7	10.8	0.1	Negligible	Not applicable	Not significant
6-C-H335**	Chapel Lane, Bucklow Hill	11.5	11.7	0.2	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H336**	Castle Mill Lane, Thorns Green, Altrincham	9.9	10.0	0.1	Negligible	Not applicable	Not significant
6-C-H337**	Ashley Road, Ashley	12.2	12.3	0.1	Negligible	Not applicable	Not significant
6-C-H338**	Castle Mill Lane, Ashley	11.4	11.5	0.1	Negligible	Not applicable	Not significant
6-C-H339**	Reddy Lane, Altrincham	12.0	12.0	< 0.1	Negligible	Not applicable	Not significant

Note: ** Indicates that receptor is new to the SES2 and A2P ES.

Table 29: Predicted annual mean PM_{2.5} concentrations and impacts (construction phase)

Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
04-C-H001	Burford Lane, Lymm	6.7	6.8	0.1	Negligible	Negligible	Not significant
04-C-H002	Weaste Lane, Warrington	10.4	10.3	-0.1	Negligible	Negligible	Not significant
04-C-H015**	Nursery Farm, Barton Moss Road, Manchester	8.5	8.5	< 0.1	Negligible	Not applicable	Not significant
04-C-H016**	Cutnook Lane, Manchester	9.1	9.1	< 0.1	Negligible	Not applicable	Not significant
04-C-H017**	Crossfield Road, Manchester	8.4	8.4	< 0.1	Negligible	Not applicable	Not significant
04-C-H018**	Dove Drive, Irlam	8.3	8.3	< 0.1	Negligible	Not applicable	Not significant
04-C-H019**	Cutnook Lane, Irlam	8.3	8.3	< 0.1	Negligible	Not applicable	Not significant
04-C-H020**	Quay House, Bankquay Court, Manchester	8.2	8.3	0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
04-C-H021**	The Locks, Forebay Drive, Manchester	7.9	7.9	< 0.1	Negligible	Not applicable	Not significant
04-C-H022**	Rixtonleys Drive, Manchester	8.0	8.0	< 0.1	Negligible	Not applicable	Not significant
04-C-H023**	Roseway Avenue, Manchester	7.8	7.8	< 0.1	Negligible	Not applicable	Not significant
04-C-H024**	Manchester Road, Warrington	7.3	7.3	< 0.1	Negligible	Not applicable	Not significant
04-C-H025**	Manchester Road, Warrington	7.2	7.2	< 0.1	Negligible	Not applicable	Not significant
04-C-H026**	M6 J21	10.2	10.2	< 0.1	Negligible	Not applicable	Not significant
04-C-H027**	M6, Warrington AT HEIGHT	10.8	10.8	< 0.1	Negligible	Not applicable	Not significant
04-C-H028**	Birch Brook Road, Lymm	6.5	6.5	< 0.1	Negligible	Not applicable	Not significant
04-C-H029**	Massey Avenue, Lymm	9.6	9.6	< 0.1	Negligible	Not applicable	Not significant
04-C-H030**	Burford Lane, Lymm	7.7	7.8	0.1	Negligible	Not applicable	Not significant
04-C-H031**	Higher Lane, Lymm	7.6	7.7	0.1	Negligible	Not applicable	Not significant
04-C-H032**	Higher Lane, Lymm	7.3	7.3	< 0.1	Negligible	Not applicable	Not significant
04-C-H033**	High Legh Road, Lymm	7.3	7.4	0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
04-C-H034**	Higher Lane, Lymm	7.2	7.3	0.1	Negligible	Not applicable	Not significant
04-C-H035**	Agden Park Lane, Lymm	7.2	7.3	0.1	Negligible	Not applicable	Not significant
05-C-H002	Southworth Road, Newton-Le-Willows	10.9	11.0	0.1	Negligible	Negligible	Not significant
05-C-H008	Houghwood Grange, Ashton-in-Makerfield	11.3	11.4	0.1	Negligible	Negligible	Not significant
05-C-H009	Houghwood Grange, Ashton-in-Makerfield	11.2	11.2	< 0.1	Negligible	Negligible	Not significant
05-C-H010	Houghwood Grange, Ashton-in-Makerfield	11.0	11.0	< 0.1	Negligible	Negligible	Not significant
05-C-H011	Houghwood Grange, Ashton-in-Makerfield	11.5	11.6	0.1	Negligible	Negligible	Not significant
05-C-H012	Houghwood Grange, Ashton-in-Makerfield	10.9	11.0	0.1	Negligible	Negligible	Not significant
05-C-H013	Skitters Grove, Ashton-in-Makerfield	11.1	11.2	0.1	Negligible	Negligible	Not significant
05-C-H014	M6, Ashton-in-Makerfield	10.4	10.4	< 0.1	Negligible	Negligible	Not significant
05-C-H015	M6, Ashton-in-Makerfield	10.5	10.6	0.1	Negligible	Negligible	Not significant
05-C-H016	M6, Ashton-in-Makerfield	10.8	10.9	0.1	Negligible	Negligible	Not significant
05-C-H017	M6, Ashton-in-Makerfield	10.6	10.7	0.1	Negligible	Negligible	Not significant
05-C-H018	Downhall Green Road, Ashton-in-Makerfield	10.6	10.7	0.1	Negligible	Negligible	Not significant
05-C-H019	Downhall Green Road, Ashton-in-Makerfield	10.6	10.7	0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
05-C-H020	Downhall Green Road, Ashton-in-Makerfield	11.0	11.1	0.1	Negligible	Negligible	Not significant
05-C-H021	Downhall Green Road, Ashton-in-Makerfield	11.5	11.6	0.1	Negligible	Negligible	Not significant
05-C-H022	Downhall Green Road, Ashton-in-Makerfield	10.5	10.5	< 0.1	Negligible	Negligible	Not significant
05-C-H023	Downhall Green Road, Ashton-in-Makerfield	11.9	12.0	0.1	Negligible	Negligible	Not significant
05-C-H024	Downhall Green Road, Ashton-in-Makerfield	11.5	11.6	0.1	Negligible	Negligible	Not significant
05-C-H025	Downhall Green Road, Ashton-in-Makerfield	11.2	11.3	0.1	Negligible	Negligible	Not significant
05-C-H026	Downhall Green Road, Ashton-in-Makerfield	11.1	11.1	< 0.1	Negligible	Negligible	Not significant
05-C-H027	Downhall Green Road, Ashton-in-Makerfield	11.0	11.1	0.1	Negligible	Negligible	Not significant
05-C-H028	Downhall Green Road, Ashton-in-Makerfield	10.7	10.8	0.1	Negligible	Negligible	Not significant
05-C-H029	Downhall Green Road, Ashton-in-Makerfield	10.5	10.6	0.1	Negligible	Negligible	Not significant
05-C-H030	Downhall Green Road, Ashton-in-Makerfield	10.4	10.5	0.1	Negligible	Negligible	Not significant
05-C-H032	Warrington Road, Wigan	10.4	10.5	0.1	Negligible	Negligible	Not significant
05-C-H033**	M6, Warrington	8.9	8.9	< 0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
05-C-H034**	Inglewood Close, Warrington	8.0	8.0	< 0.1	Negligible	Not applicable	Not significant
05-C-H035**	Inglewood Close, Birchwood, Warrington	8.0	8.0	< 0.1	Negligible	Not applicable	Not significant
05-C-H036**	Cross Lane, Warrington, AT HEIGHT	9.8	9.8	< 0.1	Negligible	Not applicable	Not significant
05-C-H037**	Cross Lane South, Warrington, AT HEIGHT	8.8	8.9	0.1	Negligible	Not applicable	Not significant
05-C-H038**	M6, Warrington	11.2	11.2	< 0.1	Negligible	Not applicable	Not significant
05-C-H039**	Mill House Lane, Warrington	8.9	8.9	< 0.1	Negligible	Not applicable	Not significant
05-C-H040**	M62, Warrington	10.0	10.0	< 0.1	Negligible	Not applicable	Not significant
05-C-H041**	M62, Warrington	8.7	8.7	< 0.1	Negligible	Not applicable	Not significant
05-C-H042**	Delph Lane, Warrington	10.5	10.5	< 0.1	Negligible	Not applicable	Not significant
05-C-H043**	Mill Lane, Warrington	8.4	8.4	< 0.1	Negligible	Not applicable	Not significant
05-C-H044**	St Andrews Close, Warrington	8.4	8.4	< 0.1	Negligible	Not applicable	Not significant
05-C-H045**	Peel Cottage Lane, Warrington	9.3	9.3	< 0.1	Negligible	Not applicable	Not significant
05-C-H046**	Dig Lane, Warrington	9.9	9.9	< 0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
05-C-H047**	Locking Stumps Lane, Warrington	9.2	9.2	< 0.1	Negligible	Not applicable	Not significant
05-C-H048**	University of Chester	9.0	9.0	< 0.1	Negligible	Not applicable	Not significant
6-C-H001	London Road, Alderley Edge	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-C-H002	Alderley Edge School for Girls, Wilmslow Road, Alderley Edge	6.4	6.4	< 0.1	Negligible	Negligible	Not significant
6-C-H003	Hurst Lea Court, Alderley Edge	6.8	6.9	0.1	Negligible	Negligible	Not significant
6-C-H004	Brook Lane, Alderley Edge	6.4	6.4	< 0.1	Negligible	Negligible	Not significant
6-C-H005	Brook Lane, Alderley Edge	6.3	6.4	0.1	Negligible	Negligible	Not significant
6-C-H006	Brook Lane, Alderley Edge	6.4	6.5	0.1	Negligible	Negligible	Not significant
6-C-H007	Mobberley Road, Knutsford	7.3	7.4	0.1	Negligible	Negligible	Not significant
6-C-H008	Hall Lane, Mobberley	6.4	6.5	0.1	Negligible	Negligible	Not significant
6-C-H009	Hall Lane, Knolls Green	6.2	6.2	< 0.1	Negligible	Negligible	Not significant
6-C-H012	Tipping Brow, Mobberley	6.1	6.1	< 0.1	Negligible	Negligible	Not significant
6-C-H013	Hough Lane, Wilmslow	5.7	5.7	< 0.1	Negligible	Negligible	Not significant
6-C-H014	Hough Lane, Wilmslow	6.0	6.1	0.1	Negligible	Negligible	Not significant
6-C-H015	Kingsley Lodge, Wilmslow	6.1	6.2	0.1	Negligible	Negligible	Not significant
6-C-H016	Burnside Close, Wilmslow	6.5	6.6	0.1	Negligible	Negligible	Not significant
6-C-H017	Prestbury Road, Wilmslow	6.1	6.2	0.1	Negligible	Negligible	Not significant
6-C-H018	Avondale Rise, Wilmslow	6.2	6.3	0.1	Negligible	Negligible	Not significant
6-C-H019	Burnside Close, Wilmslow	6.5	6.6	0.1	Negligible	Negligible	Not significant
6-C-H020	Alderley Road, Wilmslow	6.6	6.6	< 0.1	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H021	Alderley Road, Wilmslow	6.5	6.5	< 0.1	Negligible	Negligible	Not significant
6-C-H023	Alderley Road, Wilmslow	6.5	6.5	< 0.1	Negligible	Negligible	Not significant
6-C-H024	Alderley Road, Wilmslow	6.7	6.7	< 0.1	Negligible	Negligible	Not significant
6-C-H025	Albert Road, Wilmslow	6.7	6.7	< 0.1	Negligible	Negligible	Not significant
6-C-H026	Cygnets Court (Nursery), Hawthorn Street, Wilmslow	6.2	6.3	0.1	Negligible	Negligible	Not significant
6-C-H027	Queen Anne Court, Macclesfield Road, Wilmslow	6.5	6.5	< 0.1	Negligible	Negligible	Not significant
6-C-H028	Alderley Road, Wilmslow	6.4	6.3	-0.1	Negligible	Negligible	Not significant
6-C-H029	The Hawthorns (Nursery), Hawthorn Street, Wilmslow	6.5	6.5	< 0.1	Negligible	Negligible	Not significant
6-C-H030	Lawdon Court, Beech Lane	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-C-H031	Beech Lane, Wilmslow	6.8	6.8	< 0.1	Negligible	Negligible	Not significant
6-C-H032	Alderley Road, Wilmslow	6.8	6.8	< 0.1	Negligible	Negligible	Not significant
6-C-H033	Wilmslow Park Street, Wilmslow	6.9	7.0	0.1	Negligible	Negligible	Not significant
6-C-H034	Water Lane, Wilmslow	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-C-H035	Macclesfield Road, Wilmslow	6.8	6.9	0.1	Negligible	Negligible	Not significant
6-C-H036	Water Lane Wilmslow	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-C-H037	Station Road, Wilmslow	7.2	7.2	< 0.1	Negligible	Negligible	Not significant
6-C-H038	Swan Street, Wilmslow	7.4	7.4	< 0.1	Negligible	Negligible	Not significant
6-C-H043	Pownall Court, Wilmslow	6.5	6.5	< 0.1	Negligible	Negligible	Not significant
6-C-H044	Wallworth Terrace, Wilmslow	6.7	6.7	< 0.1	Negligible	Negligible	Not significant
6-C-H046	Connaught Close, Wilmslow	6.7	6.7	< 0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H047	Styal Road, Wilmslow	6.9	6.9	< 0.1	Negligible	Negligible	Not significant
6-C-H048	Styal Road, Wilmslow	6.8	6.8	< 0.1	Negligible	Negligible	Not significant
6-C-H049	Altrincham Road, Wilmslow	7.3	7.2	-0.1	Negligible	Negligible	Not significant
6-C-H050	Kingsbury Drive, Wilmslow	7.1	7.1	< 0.1	Negligible	Negligible	Not significant
6-C-H052	Lancelyn Drive, Wilmslow	6.6	6.6	< 0.1	Negligible	Negligible	Not significant
6-C-H056	Altrincham Road, Wilmslow	6.7	6.8	0.1	Negligible	Negligible	Not significant
6-C-H057	Queensbury Close, Wilmslow	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-C-H058	Heathfield Farm, Wilmslow	6.5	6.5	< 0.1	Negligible	Negligible	Not significant
6-C-H059	Woodcote View, Wilmslow	6.6	6.6	< 0.1	Negligible	Negligible	Not significant
6-C-H060	Tudor Green, Wilmslow	6.6	6.6	< 0.1	Negligible	Negligible	Not significant
6-C-H061	Hunters Close Path, Wilmslow	6.6	6.6	< 0.1	Negligible	Negligible	Not significant
6-C-H062	Wilmslow Road, Stockport	5.9	5.9	< 0.1	Negligible	Negligible	Not significant
6-C-H063	Wilmslow Road, Stockport	6.0	6.0	< 0.1	Negligible	Negligible	Not significant
6-C-H064	Tatton Dale, Knutsford	6.3	6.4	0.1	Negligible	Negligible	Not significant
6-C-H067	Stanneylands Road, Wilmslow	6.7	6.7	< 0.1	Negligible	Negligible	Not significant
6-C-H069	Rostherne Drive, Rostherne	6.3	6.3	< 0.1	Negligible	Negligible	Not significant
6-C-H071	Altrincham Road, Wilmslow	6.8	6.8	< 0.1	Negligible	Negligible	Not significant
6-C-H073	Chester Road, Bucklow Hill	6.7	6.7	< 0.1	Negligible	Negligible	Not significant
6-C-H074	Mobberley Road, Ashley	6.5	6.6	0.1	Negligible	Negligible	Not significant
6-C-H075	Ashley Road, Ashley	6.2	6.4	0.2	Negligible	Negligible	Not significant
6-C-H077	Chapel Lane, Bucklow Hill	7.1	7.1	< 0.1	Negligible	Negligible	Not significant
6-C-H080	Mill Lane, Ashley	6.2	6.4	0.2	Negligible	Negligible	Not significant
6-C-H081	Chapel Lane, Bucklow Hill	7.0	7.1	0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H082	Mill Lane, Ashley	6.4	6.6	0.2	Negligible	Negligible	Not significant
6-C-H083	Millington Hall Lane, Millington	7.7	7.8	0.1	Negligible	Negligible	Not significant
6-C-H084	Back Lane, Ashley	6.0	6.0	< 0.1	Negligible	Negligible	Not significant
6-C-H085	Mobberley Road, Ashley	7.6	7.8	0.2	Negligible	Negligible	Not significant
6-C-H086	Back Lane, Ashley	7.1	7.1	< 0.1	Negligible	Negligible	Not significant
6-C-H087	Ashley Road, Ashley	7.4	7.5	0.1	Negligible	Negligible	Not significant
6-C-H088	Birkinheath Lane, Rostherne	7.4	7.4	< 0.1	Negligible	Negligible	Not significant
6-C-H089	Castle Mill Lane, Ashley	7.2	7.3	0.1	Negligible	Negligible	Not significant
6-C-H091	Cherry Tree Lane, Rostherne	7.4	7.4	< 0.1	Negligible	Negligible	Not significant
6-C-H092	Ashley Road, Ashley	7.5	7.6	0.1	Negligible	Negligible	Not significant
6-C-H093	Ashley Road, Ashley	7.4	7.5	0.1	Negligible	Negligible	Not significant
6-C-H094	Chester Road, Millington	7.5	7.6	0.1	Negligible	Negligible	Not significant
6-C-H095	Ashley Road, Ashley	7.6	7.8	0.2	Negligible	Negligible	Not significant
6-C-H096	Cow Lane, Ashley	7.7	7.9	0.2	Negligible	Negligible	Not significant
6-C-H097	Thowler Lane, Moston	6.5	6.5	< 0.1	Negligible	Negligible	Not significant
6-C-H099	Birkinheath Lane, Ashley	7.4	7.4	< 0.1	Negligible	Negligible	Not significant
6-C-H100	Millington Lane, Millington	7.7	7.8	0.1	Negligible	Negligible	Not significant
6-C-H101	Sunbank Lane, Manchester (Compound)	7.2	7.2	< 0.1	Negligible	Negligible	Not significant
6-C-H102	Millington Lane, Rostherne	7.3	7.3	< 0.1	Negligible	Negligible	Not significant
6-C-H103	Thowler Lane, Millington	6.6	6.6	< 0.1	Negligible	Negligible	Not significant
6-C-H105	Tanyard Farm, Castle Mill Lane	7.5	7.5	< 0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H106	Cherry Tree Lane, Rostherne	6.4	6.5	0.1	Negligible	Negligible	Not significant
6-C-H107	House near riding stables, Hale Barns	7.5	7.5	< 0.1	Negligible	Negligible	Not significant
6-C-H108	Wilmslow Road, Altrincham	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-C-H111	Chester Road, Millington	9.1	9.3	0.2	Negligible	Negligible	Not significant
6-C-H112	Warburton Drive, Altrincham (Compound)	7.4	7.4	< 0.1	Negligible	Negligible	Not significant
6-C-H113	Ryecroft Farm, Altrincham	7.6	7.6	< 0.1	Negligible	Negligible	Not significant
6-C-H114	Cherry Tree Lane, Rostherne	7.4	7.5	0.1	Negligible	Negligible	Not significant
6-C-H116	Cherry Tree Lane, Rostherne	6.6	6.7	0.1	Negligible	Negligible	Not significant
6-C-H117	Coe Lane, Rostherne	7.2	7.3	0.1	Negligible	Negligible	Not significant
6-C-H118	Hale Barns, Altrincham (Compound)	7.8	7.8	< 0.1	Negligible	Negligible	Not significant
6-C-H119	Hasty Lane, Hale Barns	8.0	8.1	0.1	Negligible	Negligible	Not significant
6-C-H120	Hasty Lane, Hale Barns	8.1	8.2	0.1	Negligible	Negligible	Not significant
6-C-H121	Reddy Lane, Millington	7.6	7.6	< 0.1	Negligible	Negligible	Not significant
6-C-H122	Hale Road, Hale Barns	7.0	7.1	0.1	Negligible	Negligible	Not significant
6-C-H123	Yarwoodheath Lane, Altrincham	7.6	7.6	< 0.1	Negligible	Negligible	Not significant
6-C-H124	Reddy Lane, Millington	7.5	7.5	< 0.1	Negligible	Negligible	Not significant
6-C-H125	Hasty Lane, Hale Barns	8.1	8.1	< 0.1	Negligible	Negligible	Not significant
6-C-H126	Elmridge Primary School, Wilton Drive, Hale Barns	6.7	6.7	< 0.1	Negligible	Negligible	Not significant
6-C-H127	Hale Road, Hale Barns, Altrincham	7.3	7.3	< 0.1	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H128	Reddy Lane, Millington	7.1	7.2	0.1	Negligible	Negligible	Not significant
6-C-H129	Hale Road, Hale Barns, Altrincham	6.9	6.9	< 0.1	Negligible	Negligible	Not significant
6-C-H130	Hale Road, Hale Barns, Altrincham	7.3	7.2	-0.1	Negligible	Negligible	Not significant
6-C-H131	Abinger Road, Hale Barns	7.2	7.1	-0.1	Negligible	Negligible	Not significant
6-C-H132	Abinger Road, Hale Barns	7.4	7.3	-0.1	Negligible	Negligible	Not significant
6-C-H133	The Dell, Altrincham	6.8	6.9	0.1	Negligible	Negligible	Not significant
6-C-H134	Park Road, Altrincham	7.0	7.1	0.1	Negligible	Negligible	Not significant
6-C-H135	Hale, Altrincham	6.9	7.0	0.1	Negligible	Negligible	Not significant
6-C-H136	Shay Lane, Hale Barns	7.1	7.2	0.1	Negligible	Negligible	Not significant
6-C-H137	Thorley Lane, Manchester	8.8	8.8	< 0.1	Negligible	Negligible	Not significant
6-C-H138	Brooks Drive, Altrincham (Compound)	7.7	7.7	< 0.1	Negligible	Negligible	Not significant
6-C-H139	Ashley Road, Altrincham	6.9	7.1	0.2	Negligible	Negligible	Not significant
6-C-H140	Hale Road, Hale Barns, Altrincham	6.9	6.9	< 0.1	Negligible	Negligible	Not significant
6-C-H141	Wolf Grange, Altrincham	7.2	7.3	0.1	Negligible	Negligible	Not significant
6-C-H142	Park Road, Altrincham	7.1	7.2	0.1	Negligible	Negligible	Not significant
6-C-H143	Hale Road, Hale Barns, Altrincham	6.7	6.7	< 0.1	Negligible	Negligible	Not significant
6-C-H144	South Downs Road, Altrincham	6.9	7.0	0.1	Negligible	Negligible	Not significant
6-C-H145	Thorley Lane, Altrincham	8.4	8.5	0.1	Negligible	Negligible	Not significant
6-C-H146	Park Road, Altrincham	6.9	6.9	< 0.1	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H147	Broad Lane, Hale Barns	6.9	6.9	< 0.1	Negligible	Negligible	Not significant
6-C-H148	Broad Lane, Altrincham	6.9	6.9	< 0.1	Negligible	Negligible	Not significant
6-C-H149	Dunham Road, Bowdon, Altrincham	7.2	7.2	< 0.1	Negligible	Negligible	Not significant
6-C-H150	South Downs Road, Altrincham	6.8	6.8	< 0.1	Negligible	Negligible	Not significant
6-C-H151	Langham Road, Bowdon, Altrincham	6.8	6.9	0.1	Negligible	Negligible	Not significant
6-C-H152	Ashley Road, Altrincham	6.8	6.9	0.1	Negligible	Negligible	Not significant
6-C-H153	Bowdon, Altrincham	6.9	7.0	0.1	Negligible	Negligible	Not significant
6-C-H154	Hale, Altrincham	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-C-H155	Hale Road, Hale Barns	6.9	6.9	< 0.1	Negligible	Negligible	Not significant
6-C-H156	Planetree Road, Altrincham	6.9	6.9	< 0.1	Negligible	Negligible	Not significant
6-C-H157	Bowdon, Altrincham	7.1	7.3	0.2	Negligible	Negligible	Not significant
6-C-H158	Hale Road, Altrincham	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-C-H159	Langham Road, Bowdon, Altrincham	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-C-H160	Ash Lane, Hale	6.9	6.9	< 0.1	Negligible	Negligible	Not significant
6-C-H161	Grove Lane, Timperley	6.8	6.9	0.1	Negligible	Negligible	Not significant
6-C-H162	Grove Lane, Hale	7.4	7.5	0.1	Negligible	Negligible	Not significant
6-C-H163	Bowdon, Altrincham	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-C-H164	Delahays Road, Hale	7.4	7.5	0.1	Negligible	Negligible	Not significant
6-C-H165	Grove Lane, Timperley	7.4	7.5	0.1	Negligible	Negligible	Not significant
6-C-H166	Grove Lane, Timperley	7.8	7.8	< 0.1	Negligible	Negligible	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H167	Grove Lane, Hale, Altrincham	6.8	6.8	< 0.1	Negligible	Negligible	Not significant
6-C-H168	Grove Lane, Timperley	6.9	7.0	0.1	Negligible	Negligible	Not significant
6-C-H169	Grove Lane, Timperley	6.8	6.9	0.1	Negligible	Negligible	Not significant
6-C-H174	Thorley Lane, Altrincham	8.3	8.3	< 0.1	Negligible	Negligible	Not significant
6-C-H175	Shaftesbury Road, Altrincham	8.0	8.0	< 0.1	Negligible	Negligible	Not significant
6-C-H176	Sherway Drive, Timperley	7.9	7.9	< 0.1	Negligible	Negligible	Not significant
6-C-H177	Stockport Road, Altrincham	8.5	8.6	0.1	Negligible	Negligible	Not significant
6-C-H179	Manchester Road, Altrincham	7.9	8.0	0.1	Negligible	Negligible	Not significant
6-C-H187**	London Road, Alderley Edge	6.8	6.9	0.1	Negligible	Not applicable	Not significant
6-C-H188**	The Meadows, Ryleys Lane, Alderley Edge	6.3	6.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H189**	Heyes Lane, Alderley Edge	6.0	6.0	< 0.1	Negligible	Not applicable	Not significant
6-C-H191**	South Bank Close, Alderley Edge	6.0	6.1	0.1	Negligible	Not applicable	Not significant
6-C-H193**	Heyes Lane, Alderley Edge	6.0	6.0	< 0.1	Negligible	Not applicable	Not significant
6-C-H195**	Heyes Lane, Alderley Edge	5.7	5.7	< 0.1	Negligible	Not applicable	Not significant
6-C-H197**	Brookside Terrace, Alderley Edge	6.2	6.2	< 0.1	Negligible	Not applicable	Not significant
6-C-H199**	Knutsford Road, Alderley Edge	6.3	6.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H200**	Knutsford Road, Wilmslow	6.1	6.1	< 0.1	Negligible	Not applicable	Not significant
6-C-H201**	Knutsford Road, Wilmslow	6.4	6.4	< 0.1	Negligible	Not applicable	Not significant
6-C-H202**	Knutsford Road, Wilmslow	6.3	6.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H203**	Alderley Lodge, Wilmslow	6.3	6.4	0.1	Negligible	Not applicable	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H204**	Curzon Mews, Wilmslow	6.4	6.4	< 0.1	Negligible	Not applicable	Not significant
6-C-H205**	Burleyhurst Lane, Wilmslow	6.3	6.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H210**	Buckingham Road, Wilmslow	6.7	6.7	< 0.1	Negligible	Not applicable	Not significant
6-C-H211**	Altrincham Road, Wilmslow	7.6	7.6	< 0.1	Negligible	Not applicable	Not significant
6-C-H214**	Gorsey Bank Primary School, Altrincham Road, Wilmslow	6.7	6.7	< 0.1	Negligible	Not applicable	Not significant
6-C-H215**	Stamford Place, Wilmslow	7.2	7.3	0.1	Negligible	Not applicable	Not significant
6-C-H220**	Mobberley Road, Wilmslow	5.9	5.9	< 0.1	Negligible	Not applicable	Not significant
6-C-H223**	Dean Row Road, Wilmslow	6.5	6.5	< 0.1	Negligible	Not applicable	Not significant
6-C-H224**	Mobberley Road, Wilmslow	6.2	6.3	0.1	Negligible	Not applicable	Not significant
6-C-H225**	Mobberley Road, Wilmslow	6.3	6.4	0.1	Negligible	Not applicable	Not significant
6-C-H226**	Dean Road, Wilmslow	6.7	6.7	< 0.1	Negligible	Not applicable	Not significant
6-C-H227**	Mobberley Green Road, Wilmslow	6.2	6.3	0.1	Negligible	Not applicable	Not significant
6-C-H228**	Dean Road, Wilmslow	6.7	6.7	< 0.1	Negligible	Not applicable	Not significant
6-C-H229**	Morley Green Road, Wilmslow	6.2	6.2	< 0.1	Negligible	Not applicable	Not significant
6-C-H230**	Morley Green Road, Wilmslow	6.3	6.5	0.2	Negligible	Not applicable	Not significant
6-C-H231**	Morley Green Road, Wilmslow	6.6	6.7	0.1	Negligible	Not applicable	Not significant
6-C-H233**	Dean Road, Wilmslow	6.7	6.7	< 0.1	Negligible	Not applicable	Not significant
6-C-H234**	Wilmslow Road, Handforth	6.6	6.6	< 0.1	Negligible	Not applicable	Not significant
6-C-H235**	Wilmslow Road, Wilmslow	6.5	6.5	< 0.1	Negligible	Not applicable	Not significant
6-C-H236**	The Whitehouse, Spath Lane, Wilmslow	7.1	7.2	0.1	Negligible	Not applicable	Not significant
6-C-H237**	Wilmslow Road, Wilmslow	7.0	7.1	0.1	Negligible	Not applicable	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H243**	Warburton Drive, Hale	7.4	7.4	< 0.1	Negligible	Not applicable	Not significant
6-C-H244**	Chapel Lane, Hale Barns	7.2	7.3	0.1	Negligible	Not applicable	Not significant
6-C-H245**	Greengate, Hale Barns	7.2	7.3	0.1	Negligible	Not applicable	Not significant
6-C-H247**	High Elm Road, Hale Barns	6.7	6.9	0.2	Negligible	Not applicable	Not significant
6-C-H252**	Chapel Lane, Hale Barns	6.8	6.9	0.1	Negligible	Not applicable	Not significant
6-C-H253**	Tithebarn Road, Hale Barns	6.9	7.0	0.1	Negligible	Not applicable	Not significant
6-C-H254**	Tithebarn Road, Hale Barns	6.9	7.0	0.1	Negligible	Not applicable	Not significant
6-C-H256**	Tithebarn Road, Hale Barns	6.9	7.0	0.1	Negligible	Not applicable	Not significant
6-C-H257**	Chapel Lane, Hale Barns	6.4	6.7	0.3	Negligible	Not applicable	Not significant
6-C-H258**	Hawley Lane, Hale Barns	6.4	6.7	0.3	Negligible	Not applicable	Not significant
6-C-H260**	Wicker Lane, Hale Barns, Altrincham	6.4	6.6	0.2	Negligible	Not applicable	Not significant
6-C-H262**	Tithebarn Road, Hale Barns	7.0	7.0	< 0.1	Negligible	Not applicable	Not significant
6-C-H263**	Bankhall Lane, Hale	6.4	6.5	0.1	Negligible	Not applicable	Not significant
6-C-H264**	Bankhall Lane, Hale	6.4	6.6	0.2	Negligible	Not applicable	Not significant
6-C-H265**	Bankhall Lane, Hale	6.5	6.9	0.4	Negligible	Not applicable	Not significant
6-C-H266**	Bankhall Lane, Hale	6.5	6.9	0.4	Negligible	Not applicable	Not significant
6-C-H267**	Bankhall Lane, Hale	6.4	6.8	0.4	Negligible	Not applicable	Not significant
6-C-H268**	Ashley Road, Altrincham	6.8	6.8	< 0.1	Negligible	Not applicable	Not significant
6-C-H270**	Bankhall Lane, Hale	6.5	6.6	0.1	Negligible	Not applicable	Not significant
6-C-H272**	Arthog Road, Altrincham	6.8	6.9	0.1	Negligible	Not applicable	Not significant
6-C-H274**	Arthog Road, Altrincham	7.0	7.1	0.1	Negligible	Not applicable	Not significant
6-C-H277**	Thorley Lane, Manchester	9.0	9.0	< 0.1	Negligible	Not applicable	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H279**	South Downs Road, Altrincham	6.7	6.8	0.1	Negligible	Not applicable	Not significant
6-C-H287**	Ash Lane, Altrincham	6.6	6.7	0.1	Negligible	Not applicable	Not significant
6-C-H290**	Shay Lane, Altrincham	7.9	8.0	0.1	Negligible	Not applicable	Not significant
6-C-H296**	Davenport Green, Roaring Gate Lane, Altrincham	8.1	8.2	0.1	Negligible	Not applicable	Not significant
6-C-H298**	Delahays Road, Hale	7.1	7.2	0.1	Negligible	Not applicable	Not significant
6-C-H299**	Ashley Road, Hale	7.2	7.2	< 0.1	Negligible	Not applicable	Not significant
6-C-H300**	Victoria Road, Hale	7.0	7.1	0.1	Negligible	Not applicable	Not significant
6-C-H301**	Hale Road, Hale	7.2	7.2	< 0.1	Negligible	Not applicable	Not significant
6-C-H302**	Egerton Road, Hale	7.2	7.2	< 0.1	Negligible	Not applicable	Not significant
6-C-H303**	Roaring Gate Lane, Altrincham	8.0	8.2	0.2	Negligible	Not applicable	Not significant
6-C-H304**	Hale, Altrincham	7.0	7.1	0.1	Negligible	Not applicable	Not significant
6-C-H308**	Westminster Road, Altrincham	7.3	7.2	-0.1	Negligible	Not applicable	Not significant
6-C-H312**	Hale Road, Hale	7.8	7.8	< 0.1	Negligible	Not applicable	Not significant
6-C-H313**	Dunham Road, Bowdon, Altrincham	7.8	7.9	0.1	Negligible	Not applicable	Not significant
6-C-H314**	Westminster Road, Altrincham	7.2	7.2	< 0.1	Negligible	Not applicable	Not significant
6-C-H317**	Hale Road, Hale	7.5	7.5	< 0.1	Negligible	Not applicable	Not significant
6-C-H318**	Clay Lane, Hale, Altrincham	6.8	6.9	0.1	Negligible	Not applicable	Not significant
6-C-H319**	Clay Lane, Hale, Altrincham	7.2	7.4	0.2	Negligible	Not applicable	Not significant
6-C-H320**	Brooks Drive, Altrincham	7.0	7.1	0.1	Negligible	Not applicable	Not significant

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		2026 without the AP2 revised scheme	2026 with the AP2 revised scheme				
6-C-H321**	Clay Lane, Hale	7.1	7.1	< 0.1	Negligible	Not applicable	Not significant
6-C-H322**	Clay Lane, Hale	7.9	7.9	< 0.1	Negligible	Not applicable	Not significant
6-C-H323**	Clay Lane, Hale	8.2	8.2	< 0.1	Negligible	Not applicable	Not significant
6-C-H326**	Stockport Road Altrincham	7.9	7.9	< 0.1	Negligible	Not applicable	Not significant
6-C-H327**	New Park Medical Practice, Stockport Road	7.9	8.0	0.1	Negligible	Not applicable	Not significant
6-C-H328**	Eskdale Drive, Altrincham	7.9	7.9	< 0.1	Negligible	Not applicable	Not significant
6-C-H329**	Park Road, Altrincham	7.9	8.0	0.1	Negligible	Not applicable	Not significant
6-C-H330**	Pepper Street, Mobberley	6.4	6.4	< 0.1	Negligible	Not applicable	Not significant
6-C-H331**	Pepper Street, Mobberley	6.3	6.3	< 0.1	Negligible	Not applicable	Not significant
6-C-H332**	Pepper Street, Mobberley	6.6	6.6	< 0.1	Negligible	Not applicable	Not significant
6-C-H333**	Mobberley Road, Mobberley	6.4	6.5	0.1	Negligible	Not applicable	Not significant
6-C-H334**	Bucklow Hill, Mere	6.7	6.8	0.1	Negligible	Not applicable	Not significant
6-C-H335**	Chapel Lane, Bucklow Hill	7.1	7.1	< 0.1	Negligible	Not applicable	Not significant
6-C-H336**	Castle Mill Lane, Thorns Green, Altrincham	6.2	6.3	0.1	Negligible	Not applicable	Not significant
6-C-H337**	Ashley Road, Ashley	7.4	7.4	< 0.1	Negligible	Not applicable	Not significant
6-C-H338**	Castle Mill Lane, Ashley	7.2	7.3	0.1	Negligible	Not applicable	Not significant
6-C-H339**	Reddy Lane, Altrincham	7.5	7.5	< 0.1	Negligible	Not applicable	Not significant

Note: ** Indicates that receptor is new to the SES2 and AP2 ES.

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Table 30: Predicted annual mean of NOx concentrations at ecological sites (construction phase)

Ecological site	Sensitive habitat	Distance to road (m)	NOx concentrations ($\mu\text{g}/\text{m}^3$)		Change in NOx concentrations ($\mu\text{g}/\text{m}^3$)	Comparison against air quality standard ($30\mu\text{g}/\text{m}^3$)	Percent change in relation to air quality standard
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Woolston Eyes SSSI Transect 1	Lowland fens	10	24.5	24.5	< 0.1	Within standard	< 0.1%
	Lowland fens	20	23.7	23.7	< 0.1	Within standard	< 0.1%
	Lowland fens	30	22.8	22.8	< 0.1	Within standard	< 0.1%
	Lowland fens	40	21.9	22.0	0.1	Within standard	0.3%
	Lowland fens	50	21.1	21.1	< 0.1	Within standard	< 0.1%
	Lowland fens	75	19.4	19.4	< 0.1	Within standard	< 0.1%
	Lowland fens	100	18.1	18.1	< 0.1	Within standard	< 0.1%
	Lowland fens	150	16.5	16.5	< 0.1	Within standard	< 0.1%
	Lowland fens	200	15.5	15.5	< 0.1	Within standard	< 0.1%
Woolston Eyes SSSI Transect 2	Deciduous woodland	10	28.3	28.4	0.1	Within standard	0.3%
	Deciduous woodland	20	27.4	27.5	0.1	Within standard	0.3%
	Deciduous woodland	30	26.1	26.2	0.1	Within standard	0.3%
	Deciduous woodland	40	24.8	24.9	0.1	Within standard	0.3%
	Deciduous woodland	50	23.7	23.7	< 0.1	Within standard	< 0.1%
	Deciduous woodland	75	21.3	21.4	0.1	Within standard	0.3%
	Deciduous woodland	100	19.7	19.7	< 0.1	Within standard	< 0.1%
	Deciduous woodland	150	17.6	17.6	< 0.1	Within standard	< 0.1%
	Deciduous woodland	200	16.4	16.4	< 0.1	Within standard	< 0.1%
Woolston Eyes SSSI Transect 3	Deciduous woodland	10	27.4	27.4	< 0.1	Within standard	< 0.1%
	Deciduous woodland	20	26.5	26.5	< 0.1	Within standard	< 0.1%
	Deciduous woodland	30	25.5	25.5	< 0.1	Within standard	< 0.1%
	Deciduous woodland	40	24.5	24.5	< 0.1	Within standard	< 0.1%
	Deciduous woodland	50	23.6	23.6	< 0.1	Within standard	< 0.1%
	Deciduous woodland	75	21.6	21.6	< 0.1	Within standard	< 0.1%
	Lowland fens	100	20.1	20.1	< 0.1	Within standard	< 0.1%
	Deciduous woodland	150	18.1	18.1	< 0.1	Within standard	< 0.1%
Woolston Eyes SSSI Transect 4	Lowland fens	10	33.5	33.5	< 0.1	Above standard	< 0.1%
	Lowland fens	20	32.4	32.5	0.1	Above standard	0.3%

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Ecological site	Sensitive habitat	Distance to road (m)	NOx concentrations ($\mu\text{g}/\text{m}^3$)		Change in NOx concentrations ($\mu\text{g}/\text{m}^3$)	Comparison against air quality standard ($30\mu\text{g}/\text{m}^3$)	Percent change in relation to air quality standard
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Lowland fens	30	30.9	31.0	0.1	Above standard	0.3%
	Deciduous woodland	40	29.3	29.4	0.1	Within standard	0.3%
	Deciduous woodland	50	27.9	27.9	< 0.1	Within standard	< 0.1%
	Deciduous woodland	75	24.8	24.9	0.1	Within standard	0.3%
	Deciduous woodland	100	22.5	22.6	0.1	Within standard	0.3%
	Deciduous woodland	150	19.5	19.5	< 0.1	Within standard	< 0.1%
	Lowland fens	200	17.6	17.6	< 0.1	Within standard	< 0.1%
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	25	25.1	25.5	0.4	Within standard	1.3%
	Deciduous Woodland	30	23.7	24.0	0.3	Within standard	1.0%
	Deciduous Woodland	40	21.6	22.0	0.4	Within standard	1.3%
	Deciduous Woodland	50	20.3	20.5	0.2	Within standard	0.7%
	Degraded raised bog	75	18.1	18.3	0.2	Within standard	0.7%
	Degraded raised bog	100	16.9	17.0	0.1	Within standard	0.3%
	Degraded raised bog	150	15.6	15.7	0.1	Within standard	0.3%
Degraded raised bog	200	14.9	14.9	< 0.1	Within standard	< 0.1%	
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	20	26.5	27.0	0.5	Within standard	1.7%
	Deciduous Woodland	30	23.5	23.9	0.4	Within standard	1.3%
	Deciduous Woodland	40	21.5	21.8	0.3	Within standard	1.0%
	Deciduous Woodland	50	20.2	20.4	0.2	Within standard	0.7%
	Degraded raised bog	75	18.1	18.2	0.1	Within standard	0.3%
	Degraded raised bog	100	16.8	17.0	0.2	Within standard	0.7%
	Degraded raised bog	150	15.5	15.6	0.1	Within standard	0.3%
Degraded raised bog	200	14.8	14.9	0.1	Within standard	0.3%	
Cotterill Clough SSSI Transect 1	Deciduous woodland	1	20.9	26.0	5.1	Within standard	17.0%
	Deciduous woodland	10	18.4	21.2	2.8	Within standard	9.3%
	Deciduous woodland	20	17.4	19.3	1.9	Within standard	6.3%
	Deciduous woodland	30	16.9	18.3	1.4	Within standard	4.7%
	Deciduous woodland	40	16.7	17.7	1.0	Within standard	3.3%
	Deciduous woodland	50	16.5	17.4	0.9	Within standard	3.0%
Deciduous woodland	75	16.2	16.8	0.6	Within standard	2.0%	

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Ecological site	Sensitive habitat	Distance to road (m)	NOx concentrations ($\mu\text{g}/\text{m}^3$)		Change in NOx concentrations ($\mu\text{g}/\text{m}^3$)	Comparison against air quality standard ($30\mu\text{g}/\text{m}^3$)	Percent change in relation to air quality standard
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Deciduous woodland	100	16.0	16.5	0.5	Within standard	1.7%
	Deciduous woodland	150	15.9	16.2	0.3	Within standard	1.0%
Cotterill Clough SSSI Transect 2	Deciduous woodland	15	21.5	21.1	-0.4	Within standard	-1.3%
	Deciduous woodland	20	20.3	20.0	-0.3	Within standard	-1.0%
	Deciduous woodland	30	18.9	18.7	-0.2	Within standard	-0.7%
	Deciduous woodland	40	18.1	17.9	-0.2	Within standard	-0.7%
	Deciduous woodland	50	17.6	17.4	-0.2	Within standard	-0.7%
	Deciduous woodland	75	16.8	16.8	< 0.1	Within standard	< 0.1%
	Deciduous woodland	100	16.5	16.4	-0.1	Within standard	-0.3%
	Deciduous woodland	150	16.1	16.1	< 0.1	Within standard	< 0.1%
	Deciduous woodland	200	15.9	15.9	< 0.1	Within standard	< 0.1%
	Cotterill Clough SSSI Transect 3	Deciduous woodland	3	30.0	29.0	-1.0	Within standard
Deciduous woodland		10	23.8	23.2	-0.6	Within standard	-2.0%
Deciduous woodland		20	20.4	20.1	-0.3	Within standard	-1.0%
Deciduous woodland		30	18.9	18.7	-0.2	Within standard	-0.7%
Deciduous woodland		40	18.1	17.9	-0.2	Within standard	-0.7%
Deciduous woodland		50	17.5	17.4	-0.1	Within standard	-0.3%
Deciduous woodland		75	16.8	16.7	-0.1	Within standard	-0.3%
Deciduous woodland		100	16.4	16.3	-0.1	Within standard	-0.3%
Deciduous woodland		102	16.0	16.0	< 0.1	Within standard	< 0.1%
Deciduous woodland		200	15.9	15.8	-0.1	Within standard	-0.3%
Lindow Common SSSI Transect 1	Dwarf shrub heath (wet or dry heath)	10	17.0	17.0	< 0.1	Within standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	20	14.8	14.8	< 0.1	Within standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	30	13.8	13.8	< 0.1	Within standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	40	13.3	13.3	< 0.1	Within standard	< 0.1%

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Ecological site	Sensitive habitat	Distance to road (m)	NOx concentrations (µg/m³)		Change in NOx concentrations (µg/m³)	Comparison against air quality standard (30µg/m³)	Percent change in relation to air quality standard
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Dwarf shrub heath (wet or dry heath)	50	12.9	12.9	< 0.1	Within standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	75	12.4	12.4	< 0.1	Within standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	100	12.2	12.2	< 0.1	Within standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	150	12.0	12.0	< 0.1	Within standard	< 0.1%
Tatton Meres SSSI Transect 1	Poor fen	163	13.5	13.6	0.1	Within standard	0.3%
	Poor fen	200	13.4	13.4	< 0.1	Within standard	< 0.1%
Rostherne Mere SSSI Transect 3	Deciduous woodland	200	13.1	13.2	0.1	Within standard	0.3%
Rostherne Mere SSSI Transect 4	Neutral grassland	3	30.4	31.9	1.5	Above standard	5.0%
	Neutral grassland	10	26.1	27.2	1.1	Within standard	3.7%
	Neutral grassland	20	22.4	23.3	0.9	Within standard	3.0%
	Neutral grassland	30	20.2	21.0	0.8	Within standard	2.7%
	Neutral grassland	40	18.8	19.4	0.6	Within standard	2.0%
	Neutral grassland	50	17.8	18.3	0.5	Within standard	1.7%
	Neutral grassland	75	16.1	16.5	0.4	Within standard	1.3%
	Neutral grassland	100	15.1	15.5	0.4	Within standard	1.3%
	Neutral grassland	150	14.0	14.3	0.3	Within standard	1.0%
	Poor Fen	184	13.6	13.8	0.2	Within standard	0.7%
	Poor Fen	200	14.8	15.1	0.3	Within standard	1.0%
Rostherne Mere SSSI Transect 5	Neutral grassland	0	15.4	16.5	1.1	Within standard	3.7%
	Neutral grassland	10	15.2	15.7	0.5	Within standard	1.7%
	Neutral grassland	20	15.1	15.5	0.4	Within standard	1.3%
	Neutral grassland	30	15.0	15.4	0.4	Within standard	1.3%
	Neutral grassland	40	14.9	15.3	0.4	Within standard	1.3%
	Neutral grassland	50	14.9	15.2	0.3	Within standard	1.0%
	Poor fen	53	14.8	15.1	0.3	Within standard	1.0%

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Ecological site	Sensitive habitat	Distance to road (m)	NOx concentrations ($\mu\text{g}/\text{m}^3$)		Change in NOx concentrations ($\mu\text{g}/\text{m}^3$)	Comparison against air quality standard ($30\mu\text{g}/\text{m}^3$)	Percent change in relation to air quality standard
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Poor fen	75	14.7	15.0	0.3	Within standard	1.0%
	Poor fen	100	14.6	14.8	0.2	Within standard	0.7%
	Poor fen	150	14.4	14.6	0.2	Within standard	0.7%
	Poor fen	200	14.2	14.4	0.2	Within standard	0.7%
Rostherne Mere SSSI Transect 6	Deciduous woodland	0	14.1	16.4	2.3	Within standard	7.7%
	Neutral grassland	10	13.8	14.9	1.1	Within standard	3.7%
	Neutral grassland	20	13.8	14.6	0.8	Within standard	2.7%
	Neutral grassland	30	13.8	14.4	0.6	Within standard	2.0%
	Neutral grassland	40	13.8	14.3	0.5	Within standard	1.7%
	Neutral grassland	50	13.8	14.2	0.4	Within standard	1.3%
	Deciduous woodland	75	13.8	14.1	0.3	Within standard	1.0%
	Deciduous woodland	86	13.8	14.1	0.3	Within standard	1.0%
	Deciduous woodland	100	13.8	14.1	0.3	Within standard	1.0%
	Deciduous woodland	150	13.8	14.0	0.2	Within standard	0.7%
	Deciduous woodland	200	13.8	14.0	0.2	Within standard	0.7%
	Rostherne Mere SSSI Transect 7	Deciduous woodland	0	13.7	15.6	1.9	Within standard
Neutral grassland		10	13.4	14.2	0.8	Within standard	2.7%
Neutral grassland		20	13.3	13.9	0.6	Within standard	2.0%
Neutral grassland		30	13.3	13.8	0.5	Within standard	1.7%
Neutral grassland		40	13.3	13.7	0.4	Within standard	1.3%
Neutral grassland		50	13.3	13.6	0.3	Within standard	1.0%
Deciduous woodland		72	13.3	13.5	0.2	Within standard	0.7%
Deciduous woodland		75	13.3	13.5	0.2	Within standard	0.7%
Deciduous woodland		100	13.3	13.5	0.2	Within standard	0.7%
Deciduous woodland		150	13.3	13.4	0.1	Within standard	0.3%
Deciduous woodland		200	13.3	13.4	0.1	Within standard	0.3%
Rostherne Mere SSSI Transect 8	Neutral grassland	0	19.8	21.8	2.0	Within standard	6.7%
	Neutral grassland	10	19.5	20.3	0.8	Within standard	2.7%
	Neutral grassland	20	19.5	20.0	0.5	Within standard	1.7%
	Neutral grassland	30	19.4	19.9	0.5	Within standard	1.7%

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Ecological site	Sensitive habitat	Distance to road (m)	NOx concentrations ($\mu\text{g}/\text{m}^3$)		Change in NOx concentrations ($\mu\text{g}/\text{m}^3$)	Comparison against air quality standard ($30\mu\text{g}/\text{m}^3$)	Percent change in relation to air quality standard
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Neutral grassland	40	19.4	19.8	0.4	Within standard	1.3%
	Neutral grassland	50	19.4	19.8	0.4	Within standard	1.3%
	Neutral grassland	75	19.4	19.7	0.3	Within standard	1.0%
	Neutral grassland	100	19.4	19.6	0.2	Within standard	0.7%
	Neutral grassland	150	19.4	19.6	0.2	Within standard	0.7%
	Neutral grassland	200	19.4	19.5	0.1	Within standard	0.3%
Rostherne Mere SSSI Transect 9	Deciduous woodland	0	19.7	21.5	1.8	Within standard	6.0%
	Deciduous woodland	10	19.5	20.2	0.7	Within standard	2.3%
	Deciduous woodland	20	19.4	19.9	0.5	Within standard	1.7%
	Deciduous woodland	30	19.4	19.7	0.3	Within standard	1.0%
	Deciduous woodland	40	19.4	19.7	0.3	Within standard	1.0%
	Deciduous woodland	50	19.4	19.6	0.2	Within standard	0.7%
	Deciduous woodland	75	11.5	11.7	0.2	Within standard	0.7%
	Deciduous woodland	100	11.5	11.7	0.2	Within standard	0.7%
	Deciduous woodland	150	11.5	11.6	0.1	Within standard	0.3%
	Deciduous woodland	200	11.5	11.6	0.1	Within standard	0.3%

Table 31: Predicted annual mean of ammonia (NH_3) concentrations at ecological sites (construction phase)

Ecological site	Sensitive habitat	Distance to road (m)	NH_3 concentrations ($\mu\text{g}/\text{m}^3$)		Change in NH_3 concentration s ($\mu\text{g}/\text{m}^3$)	Comparison against critical level ($1\mu\text{g}/\text{m}^3$ for low and $3\mu\text{g}/\text{m}^3$ high vegetation)	Percent change in relation to critical level
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Woolston Eyes SSSI Transect 1	Lowland fens	10	4.1	4.1	< 0.1	Above standard	< 0.1%
	Lowland fens	20	4.0	4.0	< 0.1	Above standard	< 0.1%
	Lowland fens	30	3.9	3.9	< 0.1	Above standard	< 0.1%
	Lowland fens	40	3.9	3.9	< 0.1	Above standard	< 0.1%
	Lowland fens	50	3.8	3.8	< 0.1	Above standard	< 0.1%
	Lowland fens	75	3.7	3.7	< 0.1	Above standard	< 0.1%
	Lowland fens	100	3.6	3.6	< 0.1	Above standard	< 0.1%
	Lowland fens	150	3.4	3.4	< 0.1	Above standard	< 0.1%

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Ecological site	Sensitive habitat	Distance to road (m)	NH ₃ concentrations (µg/m ³)		Change in NH ₃ concentration s (µg/m ³)	Comparison against critical level (1µg/m ³ for low and 3µg/m ³ high vegetation)	Percent change in relation to critical level
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Woolston Eyes SSSI Transect 2	Lowland fens	200	3.3	3.3	< 0.1	Above standard	< 0.1%
	Deciduous woodland	10	4.4	4.4	< 0.1	Above standard	0.4%
	Deciduous woodland	20	4.3	4.3	< 0.1	Above standard	0.4%
	Deciduous woodland	30	4.2	4.2	< 0.1	Above standard	0.4%
	Deciduous woodland	40	4.1	4.1	< 0.1	Above standard	0.4%
	Deciduous woodland	50	4.0	4.0	< 0.1	Above standard	0.4%
	Deciduous woodland	75	3.8	3.8	< 0.1	Above standard	0.3%
	Deciduous woodland	100	3.7	3.7	< 0.1	Above standard	0.2%
	Deciduous woodland	150	3.5	3.5	< 0.1	Above standard	0.2%
Woolston Eyes SSSI Transect 3	Deciduous woodland	200	3.4	3.4	< 0.1	Above standard	0.1%
	Deciduous woodland	10	4.3	4.3	< 0.1	Above standard	< 0.1%
	Deciduous woodland	20	4.2	4.2	< 0.1	Above standard	< 0.1%
	Deciduous woodland	30	4.1	4.1	< 0.1	Above standard	< 0.1%
	Deciduous woodland	40	4.1	4.1	< 0.1	Above standard	< 0.1%
	Deciduous woodland	50	4.0	4.0	< 0.1	Above standard	< 0.1%
	Deciduous woodland	75	3.8	3.8	< 0.1	Above standard	< 0.1%
	Lowland fens	100	3.7	3.7	< 0.1	Above standard	< 0.1%
	Deciduous woodland	150	3.5	3.5	< 0.1	Above standard	< 0.1%
Woolston Eyes SSSI Transect 4	Deciduous woodland	200	3.4	3.4	< 0.1	Above standard	< 0.1%
	Lowland fens	10	4.8	4.8	< 0.1	Above standard	< 0.1%
	Lowland fens	20	4.7	4.7	< 0.1	Above standard	0.1%
	Lowland fens	30	4.6	4.6	< 0.1	Above standard	0.1%
	Deciduous woodland	40	4.4	4.4	< 0.1	Above standard	0.3%
	Deciduous woodland	50	4.3	4.3	< 0.1	Above standard	0.3%
	Deciduous woodland	75	4.1	4.1	< 0.1	Above standard	0.3%
	Deciduous woodland	100	3.9	3.9	< 0.1	Above standard	0.2%
	Deciduous woodland	150	3.7	3.7	< 0.1	Above standard	0.2%
Holcroft Moss SSSI/Manchester	Lowland fens	200	3.5	3.5	< 0.1	Above standard	< 0.1%
	Deciduous Woodland	25	3.6	3.7	0.1	Above standard	3.2%
	Deciduous Woodland	30	3.5	3.6	0.1	Above standard	2.9%

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Ecological site	Sensitive habitat	Distance to road (m)	NH ₃ concentrations (µg/m ³)		Change in NH ₃ concentrations (µg/m ³)	Comparison against critical level (1µg/m ³ for low and 3µg/m ³ high vegetation)	Percent change in relation to critical level
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Mosses SAC Transect 1	Deciduous Woodland	40	3.4	3.4	< 0.1	Above standard	2.4%
	Deciduous Woodland	50	3.3	3.3	< 0.1	Above standard	2.0%
	Degraded raised bog	75	3.1	3.1	< 0.1	Above standard	1.4%
	Degraded raised bog	100	3.0	3.0	< 0.1	Above standard	1.1%
	Degraded raised bog	150	2.9	2.9	< 0.1	Above standard	0.7%
	Degraded raised bog	200	2.8	2.9	0.1	Above standard	0.5%
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	20	3.7	3.8	0.1	Above standard	3.6%
	Deciduous Woodland	30	3.5	3.5	< 0.1	Above standard	2.9%
	Deciduous Woodland	40	3.4	3.4	< 0.1	Above standard	2.4%
	Deciduous Woodland	50	3.3	3.3	< 0.1	Above standard	2.0%
	Degraded raised bog	75	3.1	3.1	< 0.1	Above standard	1.4%
	Degraded raised bog	100	3.0	3.0	< 0.1	Above standard	1.1%
	Degraded raised bog	150	2.9	2.9	< 0.1	Above standard	0.7%
	Degraded raised bog	200	2.8	2.8	< 0.1	Above standard	0.5%
Cotterill Clough SSSI Transect 1	Deciduous woodland	1	3.5	3.9	0.4	Above standard	44.8%
	Deciduous woodland	10	3.3	3.5	0.2	Above standard	24.3%
	Deciduous woodland	20	3.2	3.3	0.1	Above standard	16.0%
	Deciduous woodland	30	3.1	3.3	0.2	Above standard	12.0%
	Deciduous woodland	40	3.1	3.2	0.1	Above standard	9.5%
	Deciduous woodland	50	3.1	3.2	0.1	Above standard	7.9%
	Deciduous woodland	75	3.1	3.1	< 0.1	Above standard	5.6%
	Deciduous woodland	100	3.1	3.1	< 0.1	Above standard	4.4%
	Deciduous woodland	150	3.1	3.1	< 0.1	Above standard	3.1%
Cotterill Clough SSSI Transect 2	Deciduous woodland	15	3.5429	3.5081	<0.1	Above standard	< 0.1%
	Deciduous woodland	20	3.4	3.4	<0.1	Above standard	< 0.1%
	Deciduous woodland	30	3.3	3.3	<0.1	Above standard	< 0.1%
	Deciduous woodland	40	3.2	3.2	<0.1	Above standard	< 0.1%
	Deciduous woodland	50	3.2	3.2	<0.1	Above standard	< 0.1%
	Deciduous woodland	75	3.1	3.1	<0.1	Above standard	< 0.1%
	Deciduous woodland	100	3.1	3.1	<0.1	Above standard	< 0.1%

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Ecological site	Sensitive habitat	Distance to road (m)	NH ₃ concentrations (µg/m ³)		Change in NH ₃ concentration s (µg/m ³)	Comparison against critical level (1µg/m ³ for low and 3µg/m ³ high vegetation)	Percent change in relation to critical level
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Deciduous woodland	150	3.1	3.1	<0.1	Above standard	< 0.1%
	Deciduous woodland	200	3.1	3.1	<0.1	Above standard	< 0.1%
Cotterill Clough SSSI Transect 3	Deciduous woodland	3	4.3	4.2	-0.1	Above standard	< 0.1%
	Deciduous woodland	10	3.7	3.7	<0.1	Above standard	< 0.1%
	Deciduous woodland	20	3.4	3.4	<0.1	Above standard	< 0.1%
	Deciduous woodland	30	3.3	3.3	<0.1	Above standard	< 0.1%
	Deciduous woodland	40	3.2	3.2	<0.1	Above standard	< 0.1%
	Deciduous woodland	50	3.2	3.2	<0.1	Above standard	< 0.1%
	Deciduous woodland	75	3.1	3.1	<0.1	Above standard	< 0.1%
	Deciduous woodland	100	3.1	3.1	<0.1	Above standard	< 0.1%
	Deciduous woodland	102	3.1	3.1	<0.1	Above standard	< 0.1%
	Deciduous woodland	200	3.0	3.0	<0.1	Above standard	< 0.1%
Lindow Common SSSI Transect 1	Dwarf shrub heath (wet or dry heath)	10	3.5	3.5	< 0.1	Above standard	0.2%
	Dwarf shrub heath (wet or dry heath)	20	3.3	3.3	< 0.1	Above standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	30	3.2	3.2	< 0.1	Above standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	40	3.2	3.2	< 0.1	Above standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	50	3.1	3.1	< 0.1	Above standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	75	3.1	3.1	< 0.1	Above standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	100	3.1	3.1	< 0.1	Above standard	< 0.1%
	Dwarf shrub heath (wet or dry heath)	150	3.1	3.1	< 0.1	Above standard	< 0.1%
Tatton Meres SSSI Transect 1	Poor fen	163	3.9	3.9	< 0.1	Above standard	0.5%
	Poor fen	200	3.9	3.9	< 0.1	Above standard	0.4%

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Ecological site	Sensitive habitat	Distance to road (m)	NH ₃ concentrations (µg/m ³)		Change in NH ₃ concentrations (µg/m ³)	Comparison against critical level (1µg/m ³ for low and 3µg/m ³ high vegetation)	Percent change in relation to critical level
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Rosterne Mere SSSI Transect 3	Deciduous woodland	200	3.5	3.5	< 0.1	Above standard	1.2%
Rosterne Mere SSSI Transect 4	Neutral grassland	3	4.8	4.9	0.1	Above standard	4.1%
	Neutral grassland	10	4.5	4.5	< 0.1	Above standard	3.1%
	Neutral grassland	20	4.2	4.2	< 0.1	Above standard	2.4%
	Neutral grassland	30	4.0	4.1	0.1	Above standard	2.0%
	Neutral grassland	40	3.9	3.9	< 0.1	Above standard	1.7%
	Neutral grassland	50	3.8	3.9	0.1	Above standard	1.5%
	Neutral grassland	75	3.7	3.7	< 0.1	Above standard	1.2%
	Neutral grassland	100	3.6	3.6	< 0.1	Above standard	1.0%
	Neutral grassland	150	3.5	3.5	< 0.1	Above standard	0.8%
	Poor Fen	184	3.5	3.5	< 0.1	Above standard	2.1%
	Poor Fen	200	3.4	3.4	< 0.1	Above standard	2.0%
Rosterne Mere SSSI Transect 5	Neutral grassland	0	3.5	3.6	0.1	Above standard	2.8%
	Neutral grassland	10	3.5	3.5	< 0.1	Above standard	1.4%
	Neutral grassland	20	3.4	3.5	0.1	Above standard	1.1%
	Neutral grassland	30	3.4	3.5	0.1	Above standard	1.0%
	Neutral grassland	40	3.4	3.5	0.1	Above standard	0.9%
	Neutral grassland	50	3.4	3.5	0.1	Above standard	0.9%
	Poor fen	53	3.4	3.5	0.1	Above standard	2.5%
	Poor fen	75	3.4	3.4	< 0.1	Above standard	2.3%
	Poor fen	100	3.4	3.4	< 0.1	Above standard	2.0%
	Poor fen	150	3.4	3.4	< 0.1	Above standard	1.7%
	Poor fen	200	3.4	3.4	< 0.1	Above standard	1.5%
Rosterne Mere SSSI Transect 6	Deciduous woodland	0	3.4	3.6	0.2	Above standard	20.5%
	Neutral grassland	10	3.4	3.5	0.1	Above standard	3.2%
	Neutral grassland	20	3.4	3.4	< 0.1	Above standard	2.3%
	Neutral grassland	30	3.4	3.4	< 0.1	Above standard	1.9%
	Neutral grassland	40	3.4	3.4	< 0.1	Above standard	1.6%
	Neutral grassland	50	3.4	3.4	< 0.1	Above standard	1.4%

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Ecological site	Sensitive habitat	Distance to road (m)	NH ₃ concentrations (µg/m ³)		Change in NH ₃ concentration s (µg/m ³)	Comparison against critical level (1µg/m ³ for low and 3µg/m ³ high vegetation)	Percent change in relation to critical level
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Deciduous woodland	75	3.4	3.4	< 0.1	Above standard	3.4%
	Deciduous woodland	86	3.4	3.4	< 0.1	Above standard	3.1%
	Deciduous woodland	100	3.4	3.4	< 0.1	Above standard	2.8%
	Deciduous woodland	150	3.4	3.4	< 0.1	Above standard	2.2%
	Deciduous woodland	200	3.4	3.4	< 0.1	Above standard	1.8%
Rostherne Mere SSSI Transect 7	Deciduous woodland	0	3.3	3.5	0.2	Above standard	17.4%
	Neutral grassland	10	3.3	3.4	0.1	Above standard	2.4%
	Neutral grassland	20	3.3	3.4	0.1	Above standard	1.7%
	Neutral grassland	30	3.3	3.4	0.1	Above standard	1.3%
	Neutral grassland	40	3.3	3.3	< 0.1	Above standard	1.1%
	Neutral grassland	50	3.3	3.3	< 0.1	Above standard	1.0%
	Deciduous woodland	72	3.3	3.3	< 0.1	Above standard	2.4%
	Deciduous woodland	75	3.3	3.3	< 0.1	Above standard	2.3%
	Deciduous woodland	100	3.3	3.3	< 0.1	Above standard	2.0%
	Deciduous woodland	150	3.3	3.3	< 0.1	Above standard	1.6%
Deciduous woodland	200	3.3	3.3	< 0.1	Above standard	1.3%	
Rostherne Mere SSSI Transect 8	Neutral grassland	0	3.3	3.5	0.2	Above standard	5.9%
	Neutral grassland	10	3.3	3.3	< 0.1	Above standard	2.4%
	Neutral grassland	20	3.3	3.3	< 0.1	Above standard	1.7%
	Neutral grassland	30	3.3	3.3	< 0.1	Above standard	1.4%
	Neutral grassland	40	3.3	3.3	< 0.1	Above standard	1.2%
	Neutral grassland	50	3.3	3.3	< 0.1	Above standard	1.0%
	Neutral grassland	75	3.2	3.3	0.1	Above standard	0.8%
	Neutral grassland	100	3.2	3.3	0.1	Above standard	0.7%
	Neutral grassland	150	3.2	3.3	0.1	Above standard	0.6%
Neutral grassland	200	3.2	3.3	0.1	Above standard	0.5%	
Rostherne Mere SSSI Transect 9	Deciduous woodland	0	3.3	3.4	0.1	Above standard	15.7%
	Deciduous woodland	10	3.3	3.3	< 0.1	Above standard	6.4%
	Deciduous woodland	20	3.2	3.3	0.1	Above standard	4.2%
	Deciduous woodland	30	3.2	3.3	0.1	Above standard	3.3%

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Ecological site	Sensitive habitat	Distance to road (m)	NH ₃ concentrations (µg/m ³)		Change in NH ₃ concentration s (µg/m ³)	Comparison against critical level (1µg/m ³ for low and 3µg/m ³ high vegetation)	Percent change in relation to critical level
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Deciduous woodland	40	3.2	3.3	0.1	Above standard	2.7%
	Deciduous woodland	50	3.2	3.3	0.1	Above standard	2.4%
	Deciduous woodland	75	3.3	3.3	< 0.1	Above standard	1.8%
	Deciduous woodland	100	3.3	3.3	< 0.1	Above standard	1.6%
	Deciduous woodland	150	3.3	3.3	< 0.1	Above standard	1.3%
	Deciduous woodland	200	3.3	3.3	< 0.1	Above standard	1.1%

Table 32: Assessment of N deposition with ammonia at ecological sites (construction phase)

Ecological Site	Sensitive habitat	Distance to road (m)	Dry deposition (kg N/ha/yr)		Change in N deposition (kg N/ha/yr)	Lower Critical Load (kg N/ha/yr)	Percent change in relation to lower critical load
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Woolston Eyes SSSI Transect 1	Lowland fens	10	35.0	35.0	< 0.1	10	< 0.1%
	Lowland fens	20	34.4	34.4	< 0.1	10	< 0.1%
	Lowland fens	30	33.8	33.8	< 0.1	10	< 0.1%
	Lowland fens	40	33.1	33.1	< 0.1	10	< 0.1%
	Lowland fens	50	32.4	32.4	< 0.1	10	0.1%
	Lowland fens	75	31.1	31.1	< 0.1	10	< 0.1%
	Lowland fens	100	30.2	30.2	< 0.1	10	< 0.1%
	Lowland fens	150	28.9	28.9	< 0.1	10	0.1%
	Lowland fens	200	28.1	28.1	< 0.1	10	0.1%
Woolston Eyes SSSI Transect 2	Deciduous woodland	10	55.7	55.8	0.1	10	0.4%
	Deciduous woodland	20	55.0	55.1	0.1	10	0.5%
	Deciduous woodland	30	54.1	54.1	< 0.1	10	0.4%
	Deciduous woodland	40	53.1	53.1	< 0.1	10	0.4%
	Deciduous woodland	50	52.2	52.2	< 0.1	10	0.4%
	Deciduous woodland	75	50.4	50.4	< 0.1	10	0.3%
	Deciduous woodland	100	49.1	49.2	0.1	10	0.2%
	Deciduous woodland	150	47.5	47.5	< 0.1	10	0.2%
	Deciduous woodland	200	46.6	46.6	< 0.1	10	0.2%
	Deciduous woodland	10	55.0	55.0	< 0.1	10	0.1%

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Ecological Site	Sensitive habitat	Distance to road (m)	Dry deposition (kg N/ha/yr)		Change in N deposition (kg N/ha/yr)	Lower Critical Load (kg N/ha/yr)	Percent change in relation to lower critical load
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Woolston Eyes SSSI Transect 3	Deciduous woodland	20	54.3	54.4	0.1	10	0.1%
	Deciduous woodland	30	53.6	53.6	< 0.1	10	0.1%
	Deciduous woodland	40	52.8	52.8	< 0.1	10	0.1%
	Deciduous woodland	50	52.1	52.1	< 0.1	10	0.1%
	Deciduous woodland	75	50.6	50.6	< 0.1	10	< 0.1%
	Lowland fens	100	29.5	29.5	< 0.1	10	< 0.1%
	Deciduous woodland	150	47.9	47.9	< 0.1	10	0.1%
	Deciduous woodland	200	46.9	46.9	< 0.1	10	0.1%
Woolston Eyes SSSI Transect 4	Lowland fens	10	35.9	35.9	< 0.1	10	0.2%
	Lowland fens	20	35.4	35.4	< 0.1	10	0.2%
	Lowland fens	30	34.7	34.7	< 0.1	10	0.2%
	Deciduous woodland	40	56.5	56.5	< 0.1	10	0.3%
	Deciduous woodland	50	55.4	55.4	< 0.1	10	0.3%
	Deciduous woodland	75	53.1	53.1	< 0.1	10	0.3%
	Deciduous woodland	100	51.3	51.4	0.1	10	0.2%
	Deciduous woodland	150	49.0	49.0	< 0.1	10	0.2%
	Lowland fens	200	28.2	28.2	< 0.1	10	0.1%
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	25	48.6	49.0	0.4	10	3.2%
	Deciduous Woodland	30	47.6	47.8	0.2	10	2.8%
	Deciduous Woodland	40	46.0	46.3	0.3	10	2.3%
	Deciduous Woodland	50	45.0	45.2	0.2	10	2.0%
	Degraded raised bog	75	26.0	26.0	< 0.1	5	1.8%
	Degraded raised bog	100	25.4	25.4	< 0.1	5	1.4%
	Degraded raised bog	150	24.7	24.8	0.1	5	0.9%
	Degraded raised bog	200	24.4	24.4	< 0.1	5	0.6%
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	20	49.7	50.1	0.4	10	3.5%
	Deciduous Woodland	30	47.4	47.7	0.3	10	2.8%
	Deciduous Woodland	40	45.9	46.2	0.3	10	2.3%
	Deciduous Woodland	50	44.9	45.1	0.2	10	2.0%
	Degraded raised bog	75	25.9	26.0	0.1	5	1.8%
	Degraded raised bog	100	25.3	25.4	0.1	5	1.3%

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Ecological Site	Sensitive habitat	Distance to road (m)	Dry deposition (kg N/ha/yr)		Change in N deposition (kg N/ha/yr)	Lower Critical Load (kg N/ha/yr)	Percent change in relation to lower critical load
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Degraded raised bog	150	24.7	24.7	< 0.1	5	0.9%
	Degraded raised bog	200	24.4	24.4	< 0.1	5	0.6%
Cotterill Clough SSSI Transect 1	Deciduous woodland	1	47.7	52.0	4.3	15	28.5%
	Deciduous woodland	10	45.7	48.0	2.3	15	15.5%
	Deciduous woodland	20	44.9	46.4	1.5	15	10.2%
	Deciduous woodland	30	44.5	45.6	1.1	15	7.6%
	Deciduous woodland	40	44.2	45.1	0.9	15	6.1%
	Deciduous woodland	50	44.0	44.8	0.8	15	5.1%
	Deciduous woodland	75	43.8	44.4	0.6	15	3.6%
	Deciduous woodland	100	43.7	44.1	0.4	15	2.8%
	Deciduous woodland	150	43.6	43.9	0.3	15	2.0%
	Cotterill Clough SSSI Transect 2	Deciduous woodland	15	48.3	47.9	-0.4	15
Deciduous woodland		20	47.3	47.0	-0.3	15	< 0.1%
Deciduous woodland		30	46.1	45.9	-0.2	15	< 0.1%
Deciduous woodland		40	45.4	45.3	-0.1	15	< 0.1%
Deciduous woodland		50	45.0	44.9	-0.1	15	< 0.1%
Deciduous woodland		75	44.4	44.3	-0.1	15	< 0.1%
Deciduous woodland		100	44.1	44.0	-0.1	15	< 0.1%
Deciduous woodland		150	43.7	43.7	<0.1	15	< 0.1%
Deciduous woodland		200	43.6	43.6	<0.1	15	< 0.1%
Cotterill Clough SSSI Transect 3	Deciduous woodland	3	55.3	54.5	-0.8	15	< 0.1%
	Deciduous woodland	10	50.1	49.7	-0.4	15	< 0.1%
	Deciduous woodland	20	47.4	47.1	-0.3	15	< 0.1%
	Deciduous woodland	30	46.1	45.9	-0.2	15	< 0.1%
	Deciduous woodland	40	45.4	45.3	-0.1	15	< 0.1%
	Deciduous woodland	50	44.9	44.8	-0.1	15	< 0.1%
	Deciduous woodland	75	44.3	44.2	-0.1	15	< 0.1%
	Deciduous woodland	100	44.0	43.9	-0.1	15	< 0.1%
	Deciduous woodland	102	43.7	43.7	<0.1	15	< 0.1%
Deciduous woodland	200	43.5	43.5	<0.1	15	< 0.1%	

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Ecological Site	Sensitive habitat	Distance to road (m)	Dry deposition (kg N/ha/yr)		Change in N deposition (kg N/ha/yr)	Lower Critical Load (kg N/ha/yr)	Percent change in relation to lower critical load
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Lindow Common SSSI Transect 1	Dwarf shrub heath (wet or dry heath)	10	29.0	29.0	< 0.1	10	0.1%
	Dwarf shrub heath (wet or dry heath)	20	27.7	27.7	< 0.1	10	< 0.1%
	Dwarf shrub heath (wet or dry heath)	30	27.2	27.2	< 0.1	10	< 0.1%
	Dwarf shrub heath (wet or dry heath)	40	26.9	26.9	< 0.1	10	< 0.1%
	Dwarf shrub heath (wet or dry heath)	50	26.7	26.7	< 0.1	10	< 0.1%
	Dwarf shrub heath (wet or dry heath)	75	26.4	26.4	< 0.1	10	< 0.1%
	Dwarf shrub heath (wet or dry heath)	100	26.2	26.3	0.1	10	< 0.1%
	Dwarf shrub heath (wet or dry heath)	150	26.1	26.1	< 0.1	10	< 0.1%
Tatton Meres SSSI Transect 1	Poor fen	163	30.4	30.4	< 0.1	10	0.3%
	Poor fen	200	30.3	30.3	< 0.1	10	0.3%
Rostherne Mere SSSI Transect 3	Deciduous woodland	200	48.4	48.5	0.1	20	0.6%
Rostherne Mere SSSI Transect 4	Neutral grassland	3	37.1	37.8	0.7	20	3.7%
	Neutral grassland	10	35.0	35.6	0.6	20	2.8%
	Neutral grassland	20	33.3	33.7	0.4	20	2.2%
	Neutral grassland	30	32.2	32.6	0.4	20	1.8%
	Neutral grassland	40	31.5	31.9	0.4	20	1.6%
	Neutral grassland	50	31.0	31.3	0.3	20	1.4%
	Neutral grassland	75	30.3	30.5	0.2	20	1.1%
	Neutral grassland	100	29.8	30.0	0.2	20	0.9%
	Neutral grassland	150	29.2	29.4	0.2	20	0.7%
	Poor Fen	184	29.0	29.2	0.2	10	1.3%
Poor Fen	200	28.5	28.6	0.1	10	1.2%	

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Ecological Site	Sensitive habitat	Distance to road (m)	Dry deposition (kg N/ha/yr)		Change in N deposition (kg N/ha/yr)	Lower Critical Load (kg N/ha/yr)	Percent change in relation to lower critical load
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Rostherne Mere SSSI Transect 5	Neutral grassland	0	28.8	29.3	0.5	20	2.6%
	Neutral grassland	10	28.7	29.0	0.3	20	1.3%
	Neutral grassland	20	28.6	28.9	0.3	20	1.0%
	Neutral grassland	30	28.6	28.8	0.2	20	0.9%
	Neutral grassland	40	28.6	28.7	0.1	20	0.8%
	Neutral grassland	50	28.5	28.7	0.2	20	0.8%
	Poor fen	53	28.5	28.7	0.2	10	1.5%
	Poor fen	75	28.5	28.6	0.1	10	1.4%
	Poor fen	100	28.4	28.5	0.1	10	1.2%
	Poor fen	150	28.3	28.4	0.1	10	1.1%
	Poor fen	200	28.2	28.3	0.1	10	0.9%
Rostherne Mere SSSI Transect 6	Deciduous woodland	0	47.4	49.4	2.0	20	9.8%
	Neutral grassland	10	28.1	28.7	0.6	20	2.9%
	Neutral grassland	20	28.1	28.5	0.4	20	2.1%
	Neutral grassland	30	28.1	28.4	0.3	20	1.7%
	Neutral grassland	40	28.0	28.3	0.3	20	1.5%
	Neutral grassland	50	28.0	28.3	0.3	20	1.3%
	Deciduous woodland	75	47.2	47.5	0.3	20	1.6%
	Deciduous woodland	86	47.2	47.5	0.3	20	1.5%
	Deciduous woodland	100	47.2	47.4	0.2	20	1.3%
	Deciduous woodland	150	47.2	47.4	0.2	20	1.0%
	Deciduous woodland	200	47.2	47.4	0.2	20	0.9%
Rostherne Mere SSSI Transect 7	Deciduous woodland	0	47.1	48.7	1.6	20	8.3%
	Neutral grassland	10	27.9	28.3	0.4	20	2.2%
	Neutral grassland	20	27.8	28.1	0.3	20	1.5%
	Neutral grassland	30	27.8	28.1	0.3	20	1.2%
	Neutral grassland	40	27.8	28.0	0.2	20	1.0%
	Neutral grassland	50	27.8	28.0	0.2	20	0.9%
	Deciduous woodland	72	46.8	47.0	0.2	20	1.1%
	Deciduous woodland	75	46.8	47.0	0.2	20	1.1%
	Deciduous woodland	100	46.8	46.9	0.1	20	0.9%

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Ecological Site	Sensitive habitat	Distance to road (m)	Dry deposition (kg N/ha/yr)		Change in N deposition (kg N/ha/yr)	Lower Critical Load (kg N/ha/yr)	Percent change in relation to lower critical load
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Deciduous woodland	150	46.7	46.9	0.2	20	0.7%
	Deciduous woodland	200	46.7	46.9	0.2	20	0.6%
Rostherne Mere SSSI Transect 8	Neutral grassland	0	27.5	28.5	1.0	20	5.3%
	Neutral grassland	10	27.3	27.8	0.5	20	2.2%
	Neutral grassland	20	27.3	27.6	0.3	20	1.5%
	Neutral grassland	30	27.3	27.5	0.2	20	1.2%
	Neutral grassland	40	27.3	27.5	0.2	20	1.1%
	Neutral grassland	50	27.3	27.5	0.2	20	0.9%
	Neutral grassland	75	27.3	27.4	0.1	20	0.8%
	Neutral grassland	100	27.3	27.4	0.1	20	0.7%
	Neutral grassland	150	27.3	27.4	0.1	20	0.5%
	Neutral grassland	200	27.3	27.3	< 0.1	20	0.4%
Rostherne Mere SSSI Transect 9	Deciduous woodland	0	46.1	47.7	1.6	20	7.5%
	Deciduous woodland	10	45.9	46.6	0.7	20	3.1%
	Deciduous woodland	20	45.9	46.3	0.4	20	2.0%
	Deciduous woodland	30	45.9	46.2	0.3	20	1.6%
	Deciduous woodland	40	45.9	46.1	0.2	20	1.3%
	Deciduous woodland	50	45.9	46.1	0.2	20	1.1%
	Deciduous woodland	75	45.9	46.1	0.2	20	0.9%
	Deciduous woodland	100	45.9	46.0	0.1	20	0.8%
	Deciduous woodland	150	45.9	46.0	0.1	20	0.6%
	Deciduous woodland	200	45.9	46.0	0.1	20	0.5%

Table 33: Assessment of acid deposition with ammonia at ecological sites (construction phase)

Ecological Site	Sensitive habitat	Distance to road (m)	Total acid deposition (k eq/ha/yr)		Change in acid deposition (k eq/ha/yr)	Change in acid deposition as percent of CLNmax	With AP2 revised scheme acid deposition as percent of CLNmax
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	25	3.7	3.7	< 0.1	3.8%	625.8%
	Deciduous Woodland	30	3.6	3.6	< 0.1	3.3%	612.3%
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	40	3.5	3.5	< 0.1	2.8%	593.5%
	Deciduous Woodland	50	3.4	3.5	0.1	2.4%	580.5%

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Ecological Site	Sensitive habitat	Distance to road (m)	Total acid deposition (k eq/ha/yr)		Change in acid deposition (k eq/ha/yr)	Change in acid deposition as percent of CLNmax	With AP2 revised scheme acid deposition as percent of CLNmax
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Degraded raised bog	75	2.0	2.1	0.1	1.1%	359.3%
	Degraded raised bog	100	2.0	2.0	< 0.1	0.9%	351.7%
	Degraded raised bog	150	2.0	2.0	< 0.1	0.5%	343.5%
	Degraded raised bog	200	1.9	1.9	< 0.1	0.4%	339.1%
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	20	3.8	3.8	< 0.1	4.2%	638.9%
	Deciduous Woodland	30	3.6	3.6	< 0.1	3.3%	610.9%
	Deciduous Woodland	40	3.5	3.5	< 0.1	2.7%	592.6%
	Deciduous Woodland	50	3.4	3.5	0.1	2.3%	579.8%
	Degraded raised bog	75	2.0	2.0	< 0.1	1.1%	358.9%
	Degraded raised bog	100	2.0	2.0	< 0.1	0.8%	351.4%
	Degraded raised bog	150	2.0	2.0	< 0.1	0.5%	343.1%
	Degraded raised bog	200	1.9	1.9	< 0.1	0.4%	338.7%
Cotterill Clough SSSI Transect 1	Deciduous woodland	1	3.6	3.9	0.3	15.4%	197.8%
	Deciduous woodland	10	3.4	3.6	0.2	8.4%	183.3%
	Deciduous woodland	20	3.4	3.5	0.1	5.5%	177.4%
	Deciduous woodland	30	3.4	3.4	< 0.1	4.1%	174.6%
	Deciduous woodland	40	3.3	3.4	0.1	3.3%	172.9%
	Deciduous woodland	50	3.3	3.4	0.1	2.7%	171.7%
	Deciduous woodland	75	3.3	3.3	< 0.1	2.0%	170.1%
	Deciduous woodland	100	3.3	3.3	< 0.1	1.5%	169.2%
	Deciduous woodland	150	3.3	3.3	< 0.1	1.1%	168.3%
Cotterill Clough SSSI Transect 2	Deciduous woodland	15	3.6	3.6	<0.1	< 0.1%	183.1%
	Deciduous woodland	20	3.6	3.5	-0.1	< 0.1%	179.7%
	Deciduous woodland	30	3.5	3.5	<0.1	< 0.1%	175.7%
	Deciduous woodland	40	3.4	3.4	<0.1	< 0.1%	173.4%
	Deciduous woodland	50	3.4	3.4	<0.1	< 0.1%	171.9%
	Deciduous woodland	75	3.3	3.3	<0.1	< 0.1%	169.9%
	Deciduous woodland	100	3.3	3.3	<0.1	< 0.1%	168.8%
	Deciduous woodland	150	3.3	3.3	<0.1	< 0.1%	167.7%
	Deciduous woodland	200	3.3	3.3	<0.1	< 0.1%	167.2%
	Deciduous woodland	3	4.1	4.1	<0.1	< 0.1%	206.9%

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Ecological Site	Sensitive habitat	Distance to road (m)	Total acid deposition (k eq/ha/yr)		Change in acid deposition (k eq/ha/yr)	Change in acid deposition as percent of CLNmax	With AP2 revised scheme acid deposition as percent of CLNmax
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Cotterill Clough SSSI Transect 3	Deciduous woodland	10	3.8	3.7	-0.1	< 0.1%	189.4%
	Deciduous woodland	20	3.6	3.5	-0.1	< 0.1%	179.9%
	Deciduous woodland	30	3.5	3.5	<0.1	< 0.1%	175.7%
	Deciduous woodland	40	3.4	3.4	<0.1	< 0.1%	173.3%
	Deciduous woodland	50	3.4	3.4	<0.1	< 0.1%	171.8%
	Deciduous woodland	75	3.3	3.3	<0.1	< 0.1%	169.7%
	Deciduous woodland	100	3.3	3.3	<0.1	< 0.1%	168.6%
	Deciduous woodland	102	3.3	3.3	<0.1	< 0.1%	167.6%
	Deciduous woodland	200	3.3	3.3	<0.1	< 0.1%	167.1%
Lindow Common SSSI Transect 1	Dwarf shrub heath (wet or dry heath)	10	2.2	2.2	< 0.1	0.1%	181.6%
	Dwarf shrub heath (wet or dry heath)	20	2.1	2.1	< 0.1	< 0.1%	174.0%
	Dwarf shrub heath (wet or dry heath)	30	2.1	2.1	< 0.1	< 0.1%	170.7%
	Dwarf shrub heath (wet or dry heath)	40	2.0	2.0	< 0.1	< 0.1%	168.8%
	Dwarf shrub heath (wet or dry heath)	50	2.0	2.0	< 0.1	< 0.1%	167.7%
	Dwarf shrub heath (wet or dry heath)	75	2.0	2.0	< 0.1	< 0.1%	166.1%
	Dwarf shrub heath (wet or dry heath)	100	2.0	2.0	< 0.1	< 0.1%	165.2%
	Dwarf shrub heath (wet or dry heath)	150	2.0	2.0	< 0.1	< 0.1%	164.5%
	Tatton Meres SSSI Transect 1	Poor fen	163	2.3	2.3	< 0.1	0.2%
Poor fen		200	2.3	2.3	< 0.1	0.2%	205.7%
Rostherne Mere SSSI Transect 3	Deciduous woodland	200	3.6	3.6	< 0.1	1.4%	610.5%
Rostherne Mere SSSI Transect 4	Neutral grassland	3	2.8	2.8	< 0.1	5.9%	312.9%
	Neutral grassland	10	2.6	2.7	0.1	4.4%	295.2%

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			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
	Neutral grassland	20	2.5	2.5	< 0.1	3.4%	280.6%
	Neutral grassland	30	2.4	2.5	0.1	2.9%	271.9%
	Neutral grassland	40	2.4	2.4	< 0.1	2.5%	266.1%
	Neutral grassland	50	2.4	2.4	< 0.1	2.2%	261.9%
	Neutral grassland	75	2.3	2.3	< 0.1	1.7%	255.1%
	Neutral grassland	100	2.3	2.3	< 0.1	1.4%	251.2%
	Neutral grassland	150	2.2	2.2	< 0.1	1.1%	246.7%
	Poor Fen	184	2.2	2.2	< 0.1	1.6%	386.0%
	Poor Fen	200	2.2	2.2	< 0.1	1.5%	379.9%
Rostherne Mere SSSI Transect 5	Neutral grassland	0	2.2	2.2	< 0.1	4.0%	246.3%
	Neutral grassland	10	2.2	2.2	< 0.1	2.0%	243.5%
	Neutral grassland	20	2.2	2.2	< 0.1	1.6%	242.7%
	Neutral grassland	30	2.2	2.2	< 0.1	1.4%	242.2%
	Neutral grassland	40	2.2	2.2	< 0.1	1.3%	241.8%
	Neutral grassland	50	2.2	2.2	< 0.1	1.2%	241.4%
	Poor fen	53	2.2	2.2	< 0.1	1.9%	380.4%
	Poor fen	75	2.2	2.2	< 0.1	1.7%	379.5%
	Poor fen	100	2.2	2.2	< 0.1	1.5%	378.6%
	Poor fen	150	2.2	2.2	< 0.1	1.3%	377.1%
	Poor fen	200	2.2	2.2	< 0.1	1.1%	376.0%
Rostherne Mere SSSI Transect 6	Deciduous woodland	0	3.6	3.7	0.1	23.4%	621.7%
	Neutral grassland	10	2.1	2.2	0.1	4.6%	241.3%
	Neutral grassland	20	2.1	2.2	0.1	3.4%	239.9%
	Neutral grassland	30	2.1	2.2	0.1	2.7%	239.2%
	Neutral grassland	40	2.1	2.2	0.1	2.3%	238.7%
	Neutral grassland	50	2.1	2.2	0.1	2.0%	238.4%
	Deciduous woodland	75	3.5	3.6	0.1	3.8%	598.8%
	Deciduous woodland	86	3.5	3.6	0.1	3.5%	598.5%
	Deciduous woodland	100	3.5	3.6	0.1	3.2%	598.2%
	Deciduous woodland	150	3.5	3.6	0.1	2.4%	597.7%
	Deciduous woodland	200	3.5	3.6	0.1	2.1%	597.5%

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Ecological Site	Sensitive habitat	Distance to road (m)	Total acid deposition (k eq/ha/yr)		Change in acid deposition (k eq/ha/yr)	Change in acid deposition as percent of CLNmax	With AP2 revised scheme acid deposition as percent of CLNmax
			2026 without the AP2 revised scheme	2026 with the AP2 revised scheme			
Rostherne Mere SSSI Transect 7	Deciduous woodland	0	3.5	3.7	0.2	19.9%	613.9%
	Neutral grassland	10	2.1	2.2	0.1	3.4%	238.3%
	Neutral grassland	20	2.1	2.2	0.1	2.4%	237.1%
	Neutral grassland	30	2.1	2.1	< 0.1	1.9%	236.5%
	Neutral grassland	40	2.1	2.1	< 0.1	1.6%	236.1%
	Neutral grassland	50	2.1	2.1	< 0.1	1.4%	235.9%
	Deciduous woodland	72	3.5	3.5	< 0.1	2.7%	592.9%
	Deciduous woodland	75	3.5	3.5	< 0.1	2.7%	592.8%
	Deciduous woodland	100	3.5	3.5	< 0.1	2.2%	592.4%
	Deciduous woodland	150	3.5	3.5	< 0.1	1.8%	591.9%
	Deciduous woodland	200	3.5	3.5	< 0.1	1.5%	591.6%
Rostherne Mere SSSI Transect 8	Neutral grassland	0	2.1	2.2	0.1	8.4%	240.5%
	Neutral grassland	10	2.1	2.1	< 0.1	3.5%	234.4%
	Neutral grassland	20	2.1	2.1	< 0.1	2.4%	233.1%
	Neutral grassland	30	2.1	2.1	< 0.1	1.9%	232.6%
	Neutral grassland	40	2.1	2.1	< 0.1	1.7%	232.2%
	Neutral grassland	50	2.1	2.1	< 0.1	1.5%	232.0%
	Neutral grassland	75	2.1	2.1	< 0.1	1.2%	231.6%
	Neutral grassland	100	2.1	2.1	< 0.1	1.0%	231.4%
	Neutral grassland	150	2.1	2.1	< 0.1	0.8%	231.2%
	Neutral grassland	200	2.1	2.1	< 0.1	0.7%	231.0%
Rostherne Mere SSSI Transect 9	Deciduous woodland	0	3.5	3.6	0.1	18.0%	601.3%
	Deciduous woodland	10	3.5	3.5	< 0.1	7.3%	588.2%
	Deciduous woodland	20	3.5	3.5	< 0.1	4.8%	585.1%
	Deciduous woodland	30	3.5	3.5	< 0.1	3.7%	583.7%
	Deciduous woodland	40	3.5	3.5	< 0.1	3.1%	583.0%
	Deciduous woodland	50	3.5	3.5	< 0.1	2.7%	582.5%
	Deciduous woodland	75	3.5	3.5	< 0.1	2.1%	581.1%
	Deciduous woodland	100	3.5	3.5	< 0.1	1.8%	580.7%
	Deciduous woodland	150	3.5	3.5	< 0.1	1.5%	580.3%
	Deciduous woodland	200	3.5	3.5	< 0.1	1.2%	580.1%

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- 4.3.10 NO₂ annual mean concentrations are predicted to be above the air quality standard at nine modelled human receptors (05-C-H011, 05-C-H013, 05-C-H020, 05-C-H021, 05-C-H023, 05-C-H024, 05-C-H025, 05-C-H026, 05-C-H027). The annual mean NO₂ concentrations are predicted to be within the air quality standards during construction of the AP2 revised scheme at all other modelled human receptors. Annual mean PM₁₀ and PM_{2.5} concentrations are predicted to be within the air quality standards.
- 4.3.11 Since the annual mean NO₂ concentrations are predicted to be well below 60µg/m³, the hourly mean standard is expected to be met. Similarly, since the annual mean PM₁₀ concentrations are predicted to be below 35µg/m³, the daily mean standard is also expected to be met.
- 4.3.12 Moderate adverse impacts for annual mean NO₂ are predicted at one modelled human receptor location (05-C-H023). Negligible or slight impacts are predicted at all other human receptors for annual mean NO₂. Negligible impacts are predicted at all human receptors in the area for annual mean PM₁₀ and PM_{2.5} concentrations.
- 4.3.13 NO_x concentrations at Holcroft Moss SSSI and Manchester Mosses SAC, Cotterill Clough SSSI, Lindow Common SSSI and Tatton Meres SSSI are predicted to be within the air quality standard, both without and with the AP2 revised scheme. NO_x concentrations at Woolston Eyes SSSI and Rostherne Mere SSSI are predicted to be over the air quality standard both without and with the AP2 revised scheme. The changes in NO_x concentrations at Woolston Eyes SSSI, Lindow Common SSSI and Tatton Meres SSSI are less than 1% of the air quality standard. The changes in NO_x concentrations at Holcroft Moss SSSI and Manchester Mosses SAC transects are predicted to be greater than 1% of the air quality standard between 25m and 40m from the road at transect 1, and between 20m and 30m from the road at transect 2. At Cotterill Clough SSSI the changes in NO_x concentrations are predicted to be greater than 1% of the air quality standard between 1m and 100m from the road at transect 1, and the changes in NO_x concentrations are less than 1% of the air quality standard at transects 2 and 3. At Rostherne Mere SSSI and Ramsar the changes in NO_x concentrations are greater than 1% of the air quality standard at transect 4 between 3m and 100m from the road, at transects 5, 6 and 7 between 0m and 40m from the road, at transect 8 between 0m and 75m from the road, and at transect 9 between 0m and 20m from the road.
- 4.3.14 NH₃ concentrations at Woolston Eyes SSSI, Holcroft Moss SSSI and Manchester Mosses SAC, Cotterill Clough SSSI, Lindow Common SSSI, Tatton Meres SSSI and Rostherne Mere SSSI are above the relevant critical level, both without and without the AP2 revised scheme. The changes in NH₃ concentrations at Woolston Eyes SSSI, Lindow Common SSSI and Tatton Meres SSSI are less than 1% of the air quality critical level. The changes in NH₃ concentrations at Holcroft Moss SSSI and Manchester Mosses SAC transects are predicted to be greater than 1% of the air quality critical level between 25m and 100m from the road at transect 1, and between 20m and 100m from the road at transect 2. At Cotterill Clough SSSI the changes in NH₃ concentrations are predicted to be greater than 1% of the air quality critical level between 1m and 150m from the road at transect 1, and the changes in NH₃ concentrations are less than 1% of the air quality critical level at transects 2 and 3. At

Rostherne Mere SSSI and Ramsar the changes in NH₃ concentrations are greater than 1% of the air quality critical level at transect 3 at a distance of 200m from the road, at transect 4 between 3m and 200m from the road, at transects 5, 6 and 7 between 0m and 200m from the road, at transect 8 between 0m and 40m from the road, and at transect 9 between 0m and 200m from the road.

- 4.3.15 The change in nitrogen deposition due to the AP2 revised scheme is predicted to be less than 1% of the lower critical load at Woolston Eyes SSSI, Lindow Common SSSI and Tatton Meres SSSI. The changes in nitrogen deposition at Woolston Eyes SSSI, Lindow Common SSSI and Tatton Meres SSSI are less than 1% of the lower critical load. The changes in nitrogen deposition at Holcroft Moss SSSI and Manchester Mosses SAC transects are predicted to be greater than 1% of the lower critical load between 25m and 100m from the road at transect 1, and between 20m and 100m from the road at transect 2. At Cotterill Clough SSSI the changes in nitrogen deposition are predicted to be greater than 1% of the lower critical load between 1m and 150m from the road at transect 1, and the changes in nitrogen deposition are less than 1% of the lower critical load at transects 2 and 3. At Rostherne Mere SSSI and Ramsar the changes in nitrogen deposition are greater than 1% of the lower critical load at transect 4 between 3m and 75m from the road, at transect 5 between 0m and 150m from the road, at transect 6 between 0m and 100m from the road, at transect 7 between 0m and 75m from the road, at transect 8 between 0m and 40m from the road, and at transect 9 between 0m and 50m from the road.
- 4.3.16 The change in acid deposition due to the AP2 revised scheme is predicted to be less than 1% of the maximum critical load at Tatton Meres SSSI and Lindow Common SSSI. The changes in acid deposition at Woolston Eyes SSSI, Lindow Common SSSI and Tatton Meres SSSI are less than 1% of the maximum critical load. The changes in acid deposition at Holcroft Moss SSSI and Manchester Mosses SAC transects are predicted to be greater than 1% of the maximum critical load between 25m and 75m from the road at transect 1, and between 20m and 75m from the road at transect 2. At Cotterill Clough SSSI the changes in acid deposition are predicted to be greater than 1% of the maximum critical load between 1m and 150m from the road at transect 1, and the changes in acid deposition are less than 1% of the maximum critical load at transects 2 and 3. At Rostherne Mere SSSI and Ramsar the changes in acid deposition are greater than 1% of the maximum critical load at transect 3 at a distance of 200m from the road, at transect 4 between 3m and 200m from the road, at transects 5, 6, 7 and 9 between 0m and 200m from the road, and at transect 8 between 0m and 75m from the road.

Assessment of significance

- 4.3.17 No significant effects are anticipated at any receptors in relation to annual mean PM₁₀ or PM_{2.5} concentrations. Significant effects are anticipated at one receptor (05-C-H023) in relation to annual mean NO₂ concentrations. No significant effects are anticipated at any other modelled human receptors in relation to annual mean NO₂ concentrations.

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- 4.3.18 A different significant effect is anticipated at one modelled human receptor (05-C-H023, Downhall Green Road, Ashton-in-Makerfield) in relation to annual mean NO₂ concentrations. Twelve significant adverse effects for annual mean NO₂ concentrations as reported in the main ES, as amended by SES1 and AP1 ES, have now been removed due to the AP2 revised scheme. These are receptors 05-C-H008, 05-C-H011 (all at Houghwood Grange, Ashton-in-Makerfield), 05-C-H013 (Skitters Grove, Ashton-in-Makerfield), 05-C-H016 (M6, Ashton-in-Makerfield), 05-C-H018, 05-C-H020, 05-C-H021, and 05-C-H024 to 05-C-H028 (all at Downhall Green Road, Ashton-in-Makerfield). No new or different significant effects are anticipated at other human receptors in the area.
- 4.3.19 Since the change in NO_x concentrations are predicted to be equal to 1% or less of the air quality standard, no significant effects are predicted at Woolston Eyes SSSI, Lindow Common SSSI, and Tatton Meres SSSI due to NO_x concentrations. Since the change in NO_x concentrations are predicted to be greater than 1% of the air quality standard, there is the potential for significant effects to occur at Cotterill Clough SSSI between distances of 1m and 100m from the road at transect 1, at Holcroft Moss SSSI and Manchester Mosses SAC between distances of 20m and 40m from the road, and at Rostherne Mere SSSI between distances of 0m and 100m from the road.
- 4.3.20 Since the changes in NH₃ concentrations are predicted to be equal to 1% or less of the air quality critical level, no significant effects are predicted at Woolston Eyes SSSI, Lindow Common SSSI, and Tatton Meres SSSI due to NH₃ concentrations. Since the changes in NH₃ concentrations are predicted to be greater than 1% of the air quality critical level, there is the potential for significant effects to occur at except at Cotterill Clough SSSI between distances of 1m and 150m from the road at transect 1, at Holcroft Moss SSSI and Manchester Mosses SAC between distances of 20m and 100m from the road, and at Rostherne Mere SSSI between distances of 0m and 200m from the road.
- 4.3.21 Since the changes in nitrogen deposition are predicted to be equal to 1% or less of the air quality critical load, no significant effects are predicted at Woolston Eyes SSSI, Lindow Common SSSI, and Tatton Meres SSSI due to nitrogen deposition. Since the changes in nitrogen deposition are predicted to be greater than 1% of the air quality critical load, there is the potential for significant effects to occur at except at Cotterill Clough SSSI between distances of 1m and 150m from the road at transect 1, at Holcroft Moss SSSI and Manchester Mosses SAC between distances of 20m and 100m from the road, and at Rostherne Mere SSSI between distances of 0m and 200m from the road.
- 4.3.22 Since the changes in acid deposition are predicted to be equal to 1% or less of the air quality critical load, no significant effects are predicted, Lindow Common SSSI, and Tatton Meres SSSI due to acid deposition. Since the changes in nitrogen deposition are predicted to be greater than 1% of the air quality critical load, there is the potential for significant effects to occur at except at Cotterill Clough SSSI between distances of 1m and 150m from the road at transect 1, at Holcroft Moss SSSI and Manchester Mosses SAC between distances of 20m and 75m from the road, and at Rostherne Mere SSSI between distances of 0m and 200m from the road. The habitat at Woolston Eyes SSSI is not sensitive to acid deposition.

- 4.3.23 There is the potential for new significant effects for NO_x concentrations, NH₃ concentrations, nitrogen deposition and acid deposition from the construction of the AP2 revised scheme compared to the main ES as amended by SES1 and AP1 ES at Rostherne Mere SSSI and Ramsar.
- 4.3.24 There is the potential for new significant effects for NO_x concentrations, NH₃ concentrations, and acid deposition from the construction of the AP2 revised scheme compared to the main ES as amended by SES1 and AP1 ES at Cotterill Clough SSSI and Holcroft Moss SSSI and Manchester Mosses SAC.
- 4.3.25 Potentially significant effects for NO_x concentrations and nitrogen deposition at Woolston Eyes SSSI, reported in main ES as amended by SES1 and AP1 ES, are removed due to the AP2 revised scheme.

4.4 Assessment of operational traffic emissions

Operational traffic model

- 4.4.1 For the assessment of traffic on the highway network, data for the year 2039 were used as the operational year of the AP2 revised scheme.

Screening of traffic data

- 4.4.2 The screening process identified 163 roads exceeding the thresholds for changes in Annual Average Daily Traffic (AADT) or daily Heavy Duty Vehicle (HDV) flows and/or changes in road alignment by 5m or more. These roads include:
- the M6 J20 to the M6 J21;
 - the M56 J5 to M56 J7;
 - the M56 J8 to M56 J9;
 - the M62 Holcroft Lane B5212 to the M62 J12;
 - the A56 Higher Lane;
 - the A538 Altrincham Road/Hale Road/Wilmslow Road;
 - the A555 Ringway Road West;
 - the A556 Chester Road; and
 - the A5144 Thorley Lane.
- 4.4.3 Further roads have been included in the assessment to account for their emissions at nearby receptors.

Receptors assessed and background concentrations

- 4.4.4 Details of the assessed receptors used in the assessment remain as reported within the main ES, Volume 5, Appendix: AQ-001-0MA06, or the main ES as amended by SES1 and AP1 ES Appendix: AQ-001-0MA04. There were 75 human receptors modelled in the main ES, or the main ES as amended by SES1 and AP1 ES, that have not been modelled as part of the AP2 revised scheme and 55 receptors have been added, due to changes in the study area. Details of the assessed human receptors and the background concentrations used in the assessment are shown in Table 34. The location of all receptors is shown in the accompanying SES2 and AP2 ES, Volume 5, Air quality Map Book: Map Series AQ-01.
- 4.4.5 Three designated ecological sites have been identified within 200m of the screened in roads, Holcroft Moss SSSI (which forms part of the Manchester Mosses SAC), located north-west of the AP2 revised scheme in Glazebrook, the Rostherne Mere SSSI/Ramsar located south of the AP2 revised scheme near Rostherne, and the Cotterill Clough SSSI, located south-east of the AP2 scheme near Manchester Airport.
- 4.4.6 Table 36 shows the background concentrations for NO_x, background nitrogen deposition and critical loads. Table 36 shows the background acid deposition, critical loads and background ammonia concentrations. Acid deposition and ammonia were not previously assessed in the main ES.

Table 34: Modelled human receptors and background concentrations (operational phase)

Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2039 (µg/m ³)			
			NO _x	NO ₂	PM ₁₀	PM _{2.5}
4-O-H015**	Higher Lane, Lymm	370794, 385883	10.5	8.1	11.0	6.9
4-O-H016**	High Legh Road, Lymm	370547, 385945	10.5	8.1	11.0	6.9
4-O-H017**	Higher Lane, Lymm	370582, 385946	10.5	8.1	11.0	6.9
4-O-H018**	Higher Lane, Lymm	370694, 385951	10.5	8.1	11.0	6.9
4-O-H019**	Burford Lane, Lymm	370550, 385987	10.5	8.1	11.0	6.9
4-O-H020**	Agden Park Lane, Lymm	370824, 385659	10.5	8.1	11.0	6.9
4-O-H021**	Cutnook Lane, Irlam	372080, 395436	13.6	10.3	12.3	7.9
4-O-H022**	Cutnook Lane, Manchester	372209, 395774	13.6	10.3	12.3	7.9
4-O-H023**	Nursery Farm, Barton Moss Road, Manchester	373452, 397513	15.5	11.6	12.0	7.5
6-O-H036	Mobberley Road, Ashley	377168, 383287	10.6	8.2	9.2	6.0
6-O-H040	Millington Hall Lane, Millington	372941, 383835	9.4	7.4	11.1	6.8
6-O-H041	Mobberley Road, Ashley	377600, 384015	14.3	10.8	11.6	7.1
6-O-H042	Ashley Road, Ashley	376538, 384036	14.1	10.7	12.1	7.3
6-O-H043	Castle Mill Lane, Ashley	379120, 384122	16.4	12.2	11.2	7.1
6-O-H045	Ashley Road, Ashley	377498, 384220	14.3	10.8	11.6	7.1
6-O-H046	Ashley Road, Ashley	377450, 384231	14.3	10.8	11.6	7.1

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Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2039 (µg/m ³)			
			NOx	NO ₂	PM ₁₀	PM _{2.5}
6-O-H047	Chester Road, Millington	373407, 384236	10.1	7.9	10.9	6.8
6-O-H048	Ashley Road, Ashley	377478, 384239	14.3	10.8	11.6	7.1
6-O-H049	Cow Lane, Ashley	377538, 384250	14.3	10.8	11.6	7.1
6-O-H051	Millington Lane, Millington	373373, 384363	10.1	7.9	10.9	6.8
6-O-H052	Thowler Lane, Millington	372008, 384525	10.0	7.7	10.0	6.3
6-O-H054	Castle Mill Lane	378017, 384550	15.1	11.3	11.3	7.1
6-O-H055	Hale Barns	379319, 384657	16.4	12.2	11.2	7.1
6-O-H056	Wilmslow Road, Altrincham	380860, 384698	27.6	18.9	10.6	6.8
6-O-H059	Chester Road, Millington	373765, 384816	10.1	7.9	10.9	6.8
6-O-H060	Altrincham	375498, 384864	15.8	11.9	11.9	7.3
6-O-H061	Cherry Tree Lane, Rostherne	373885, 384894	10.1	7.9	10.9	6.8
6-O-H062	Hasty Lane, Hale Barns	380165, 385305	27.3	18.7	11.9	7.6
6-O-H063	Hasty Lane, Hale Barns	380118, 385406	27.3	18.7	11.9	7.6
6-O-H065	Hale Road, Hale Barns	379855, 385469	15.1	11.3	9.9	6.5
6-O-H068	Hasty Lane, Hale Barns	380579, 385500	27.3	18.7	11.9	7.6
6-O-H069	Elmridge Primary School, Hale Barns	379415, 385657	15.1	11.3	9.9	6.5
6-O-H070	Hale Road, Hale Barns	379537, 385663	15.1	11.3	9.9	6.5
6-O-H072	Hale Road, Hale Barns, Altrincham	379336, 385719	15.1	11.3	9.9	6.5
6-O-H073	Hale Road, Hale Barns, Altrincham	379299, 385773	15.1	11.3	9.9	6.5
6-O-H074	Abinger Road, Hale Barns	379130, 385913	15.1	11.3	9.9	6.5
6-O-H075	Abinger Road, Hale Barns	379146, 385925	15.1	11.3	9.9	6.5
6-O-H076	Shay Lane, Hale Barns	379076, 386057	13.8	10.4	9.6	6.4
6-O-H077	Haletop Farm, Thorley Lane, Manchester	381207, 386096	23.3	16.6	12.6	8.1
6-O-H080	Thorley Lane, Altrincham	380861, 386204	15.8	11.8	11.9	7.6
6-O-H086	Ash Farm, Ash Lane, Hale	379397, 387067	13.4	10.2	9.8	6.6
6-O-H087	Grove Lane, Timperley	379350, 387070	13.4	10.2	9.8	6.6
6-O-H088	Grove Lane, Hale	378567, 387071	13.4	10.1	10.0	6.7
6-O-H090	Delahays Road, Hale	378542, 387083	13.4	10.1	10.0	6.7
6-O-H091	Grove Lane, Timperley	378576, 387105	13.4	10.1	10.0	6.7
6-O-H092	Grove Lane, Timperley	378548, 387106	13.4	10.1	10.0	6.7
6-O-H099**	Chester Road, Bucklow Hill	373133, 383244	9.8	7.7	10.0	6.3
6-O-H100**	Chapel Lane, Bucklow Hill	372868, 383443	9.4	7.4	11.1	6.8
6-O-H101**	Castle Mill Lane, Thorns Green, Altrincham	379294, 383938	12.6	9.6	9.7	6.1
6-O-H102**	Reddy Lane, Altrincham	372530, 385254	12.3	9.5	11.2	6.9

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Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2039 (µg/m ³)			
			NOx	NO ₂	PM ₁₀	PM _{2.5}
6-O-H103**	Altrincham Road, Wilmslow	383166, 381862	10.7	8.2	9.0	6.0
6-O-H104**	Altrincham Road, Wilmslow	383103, 381987	10.7	8.2	9.0	6.0
6-O-H105**	Mobberley Road, Wilmslow	382448, 382050	11.4	8.7	9.3	6.0
6-O-H106**	Mobberley Road, Wilmslow	382431, 382052	11.4	8.7	9.3	6.0
6-O-H107**	Morley Green Road, Wilmslow	382285, 382611	11.4	8.7	9.3	6.0
6-O-H108**	Morley Green Road, Wilmslow	382306, 382679	11.4	8.7	9.3	6.0
6-O-H109**	Morley Green Road, Wilmslow	382362, 382841	11.4	8.7	9.3	6.0
6-O-H110**	Altrincham Road, Wilmslow	382012, 382901	11.4	8.7	9.3	6.0
6-O-H111**	Sunbank Lane, Manchester	379907, 384410	16.4	12.2	11.2	7.1
6-O-H112**	Warburton Drive, Altrincham	379816, 384834	16.4	12.2	11.2	7.1
6-O-H113**	Warburton Drive, Hale	379834, 384842	16.4	12.2	11.2	7.1
6-O-H114**	Burnside, Hale Barns, Altrincham	380095, 385223	27.3	18.7	11.9	7.6
6-O-H115**	Park Road, Altrincham	377541, 386032	13.2	10.1	10.0	6.6
6-O-H116**	Park Road, Hale, Altrincham	377574, 386034	13.2	10.1	10.0	6.6
6-O-H117**	Ashley Road, Altrincham	377242, 386106	13.2	10.1	10.0	6.6
6-O-H118**	Wolf Grange, Altrincham	377237, 386134	13.2	10.1	10.0	6.6
6-O-H119**	Park Road, Altrincham	377277, 386136	13.2	10.1	10.0	6.6
6-O-H120**	Southdowns Road, Altrincham	377046, 386175	13.2	10.1	10.0	6.6
6-O-H121**	Park Road, Altrincham	377791, 386211	13.2	10.1	10.0	6.6
6-O-H122**	Ash Lane, Altrincham	379308, 386371	13.8	10.4	9.6	6.4
6-O-H123**	Ash Lane, Altrincham	379213, 386455	13.8	10.4	9.6	6.4
6-O-H124**	Southdowns Road, Altrincham	376217, 386478	12.8	9.8	10.0	6.6
6-O-H125**	Shay Lane, Altrincham	380334, 386485	15.8	11.8	11.9	7.6
6-O-H126**	Langham Road, Bowdon, Altrincham	376168, 386499	12.8	9.8	10.0	6.6
6-O-H127**	South Downes Road, Bowdon, Altrincham	376491, 386502	12.8	9.8	10.0	6.6
6-O-H128**	Planetree Road, Altrincham	378315, 386574	12.8	9.8	9.8	6.5
6-O-H129**	Langham Road, Bowdon, Altrincham	375997, 386590	12.1	9.3	9.9	6.5
6-O-H130**	Davenport Green, Roaring Gate Lane, Altrincham	380415, 386595	15.8	11.8	11.9	7.6
6-O-H131**	Hale Road, Altrincham	378396, 386640	12.8	9.8	9.8	6.5
6-O-H132**	Langham Road, Bowdon, Altrincham	375827, 386676	12.1	9.3	9.9	6.5
6-O-H133**	Delahays Road, Hale	378468, 386708	12.8	9.8	9.8	6.5
6-O-H134**	Roaring Gate Lane, Altrincham	380458, 386956	15.8	11.8	11.9	7.6
6-O-H135**	Westminster Road, Altrincham	378047, 387076	13.4	10.1	10.0	6.7
6-O-H136**	Westminster Road, Altrincham	378015, 387170	13.4	10.1	10.0	6.7

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Receptor	Description/Location	Ordnance Survey coordinates	Background concentrations in 2039 ($\mu\text{g}/\text{m}^3$)			
			NOx	NO ₂	PM ₁₀	PM _{2.5}
6-O-H137**	Brooks Drive, Altrincham	379963, 387599	13.4	10.2	9.8	6.6
6-O-H138**	Thorley Lane, Altrincham	379003, 388496	14.2	10.7	10.9	7.4
6-O-H139**	Shaftesbury Road, Altrincham	379277, 388759	14.2	10.7	10.9	7.4
6-O-H140**	Sherway Drive, Timperley	379397, 388992	14.2	10.7	10.9	7.4
6-O-H141**	Stockport Road Altrincham	379095, 389088	14.2	10.7	10.9	7.4
6-O-H142**	New Park Medical Practice, Stockport Road	379059, 389091	14.2	10.7	10.9	7.4
6-O-H143**	Eskdale Drive, Altrincham	379308, 389209	14.2	10.7	10.9	7.4
6-O-H144**	Stockport Road, Altrincham	379490, 389256	14.2	10.7	10.9	7.4

Note: ** Indicates that receptor is new to the SES2 and AP2 ES.

Table 35: Modelled ecological receptor backgrounds and critical loads (operational phase)

Receptor	Sensitive habitat	2039 NOx background concentration ($\mu\text{g}/\text{m}^3$)	APIS data ⁵ of average total N deposition (kg N/ha/yr)	APIS Critical load (kg N/ha/yr)
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	19.9	39.6	10.0
	Degraded raised bog	19.9	23.6	5.0
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	19.9	39.6	10.0
	Degraded raised bog	19.9	23.6	5.0
Rostherne Mere Transect 3	Broadleaved deciduous woodland	10.1	47.1	20.0
Rostherne Mere Transect 4	Neutral grassland	10.1	28.0	20.0
	Poor fen	10.1	28.0	10.0
Cotterill Clough Transect 2	Broadleaved deciduous woodland	14.3	43.3	15.0
Cotterill Clough Transect 3	Broadleaved deciduous woodland	14.3	43.3	15.0

Table 36: Modelled ecological receptor acid deposition backgrounds, critical loads and ammonia background concentrations (operational phase)

Receptor	Sensitive habitat	APIS data of average total acid deposition nitrogen (k eq/ha/yr)	APIS Critical load nitrogen (k eq/ha/yr) (min)	APIS Critical load nitrogen (k eq/ha/yr) (max)	APIS Ammonia background concentration ($\mu\text{g}/\text{m}^3$)
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	3.1	0.3	0.6	2.7
	Degraded raised bog	1.9	0.3	0.6	2.7

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Receptor	Sensitive habitat	APIS data of average total acid deposition nitrogen (k eq/ha/yr)	APIS Critical load nitrogen (k eq/ha/yr) (min)	APIS Critical load nitrogen (k eq/ha/yr) (max)	APIS Ammonia background concentration ($\mu\text{g}/\text{m}^3$)
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	3.1	0.3	0.6	2.7
	Degraded raised bog	1.9	0.3	0.6	2.7
Rostherne Mere Transect 3	Broadleaved deciduous woodland	3.5	0.3	0.6	3.3
Rostherne Mere Transect 4	Neutral grassland	2.1	0.4	0.9	3.3
	Poor Fen	2.1	0.2	0.6	3.3
Cotterill Clough Transect 2	Broadleaved deciduous woodland	3.3	0.4	2.0	3.0
Cotterill Clough Transect 3	Broadleaved deciduous woodland	3.3	0.4	2.0	3.0

Assessment results

- 4.4.7 Table 37 to Table 39 provide the summary of the modelled pollutant concentrations for the assessed human receptors. The magnitude of change and impact descriptor are provided along with a comparison against the main ES. These were derived following the IAQM/EPUK methodology⁷. Table 40 to Table 43 provide the summary of the assessment for ecological receptors.
- 4.4.8 Table 41 provides a summary of the ammonia concentration results. Table 42 provides a summary of the nitrogen deposition receptor results with an additional ammonia component applied using the National Highways Ammonia N Deposition Tool. Table 43 provides a summary of the acid deposition receptor results with an additional ammonia component applied using the National Highways Ammonia N Deposition Tool.

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Table 37: Predicted annual mean NO₂ concentrations and impacts (operation phase)

Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
4-O-H015**	Higher Lane, Lymm	9.6	9.8	0.2	Negligible	Not applicable	Not significant
4-O-H016**	High Legh Road, Lymm	10.5	10.6	0.1	Negligible	Not applicable	Not significant
4-O-H017**	Higher Lane, Lymm	10.1	10.2	0.1	Negligible	Not applicable	Not significant
4-O-H018**	Higher Lane, Lymm	11.6	11.9	0.3	Negligible	Not applicable	Not significant
4-O-H019**	Burford Lane, Lymm	12.5	12.7	0.2	Negligible	Not applicable	Not significant
4-O-H020**	Agden Park Lane, Lymm	9.6	9.9	0.3	Negligible	Not applicable	Not significant
4-O-H021**	Cutnook Lane, Irlam	11.8	11.8	< 0.1	Negligible	Not applicable	Not significant
4-O-H022**	Cutnook Lane, Manchester	15.4	15.4	< 0.1	Negligible	Not applicable	Not significant
4-O-H023**	Nursery Farm, Barton Moss Road, Manchester	15.6	15.6	< 0.1	Negligible	Not applicable	Not significant
6-O-H036	Mobberley Road, Ashley	10.7	10.9	0.2	Negligible	Negligible	Not significant
6-O-H040	Millington Hall Lane, Millington	11.2	11.3	0.1	Negligible	Negligible	Not significant
6-O-H041	Mobberley Road, Ashley	12.9	13.7	0.8	Negligible	Negligible	Not significant
6-O-H042	Ashley Road, Ashley	11.4	11.3	-0.1	Negligible	Negligible	Not significant
6-O-H043	Castle Mill Lane, Ashley	12.7	12.5	-0.2	Negligible	Negligible	Not significant
6-O-H045	Ashley Road, Ashley	12.6	11.9	-0.7	Negligible	Negligible	Not significant
6-O-H046	Ashley Road, Ashley	12.2	11.4	-0.8	Negligible	Negligible	Not significant
6-O-H047	Chester Road, Millington	10.7	10.8	0.1	Negligible	Negligible	Not significant
6-O-H048	Ashley Road, Ashley	13.3	11.6	-1.7	Negligible	Negligible	Not significant
6-O-H049	Cow Lane, Ashley	13.8	13.5	-0.3	Negligible	Negligible	Not significant
6-O-H051	Millington Lane, Millington	11.6	11.7	0.1	Negligible	Negligible	Not significant
6-O-H052	Thowler Lane, Millington	8.7	9.0	0.3	Negligible	Negligible	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H054	Castle Mill Lane	13.1	13.1	< 0.1	Negligible	Negligible	Not significant
6-O-H055	Hale Barns	14.4	14.2	-0.2	Negligible	Negligible	Not significant
6-O-H056	Wilmslow Road, Altrincham	19.5	19.5	< 0.1	Negligible	Negligible	Not significant
6-O-H059	Chester Road, Millington	17.4	17.7	0.3	Negligible	Negligible	Not significant
6-O-H060	Altrincham	13.2	13.2	< 0.1	Negligible	Negligible	Not significant
6-O-H061	Cherry Tree Lane, Rostherne	10.3	10.4	0.1	Negligible	Negligible	Not significant
6-O-H062	Hasty Lane, Hale Barns	20.6	20.1	-0.5	Negligible	Negligible	Not significant
6-O-H063	Hasty Lane, Hale Barns	20.8	20.4	-0.4	Negligible	Negligible	Not significant
6-O-H065	Hale Road, Hale Barns	12.8	12.6	-0.2	Negligible	Negligible	Not significant
6-O-H068	Hasty Lane, Hale Barns	21.9	21.8	-0.1	Negligible	Negligible	Not significant
6-O-H069	Elmridge Primary School, Hale Barns	11.9	11.8	-0.1	Negligible	Negligible	Not significant
6-O-H070	Hale Road, Hale Barns	14.3	14.0	-0.3	Negligible	Negligible	Not significant
6-O-H072	Hale Road, Hale Barns, Altrincham	13.0	12.7	-0.3	Negligible	Negligible	Not significant
6-O-H073	Hale Road, Hale Barns, Altrincham	14.4	14.0	-0.4	Negligible	Negligible	Not significant
6-O-H074	Abinger Road, Hale Barns	13.5	13.3	-0.2	Negligible	Negligible	Not significant
6-O-H075	Abinger Road, Hale Barns	14.4	14.1	-0.3	Negligible	Negligible	Not significant
6-O-H076	Shay Lane, Hale Barns	12.6	12.7	0.1	Negligible	Negligible	Not significant
6-O-H077	Haletop Farm, Thorley Lane, Manchester	18.8	18.8	< 0.1	Negligible	Negligible	Not significant
6-O-H080	Thorley Lane, Altrincham	14.9	15.4	0.5	Negligible	Negligible	Not significant
6-O-H086	Ash Farm, Ash Lane, Hale	11.3	11.3	< 0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H087	Grove Lane, Timperley	11.1	11.2	0.1	Negligible	Negligible	Not significant
6-O-H088	Grove Lane, Hale	12.5	12.6	0.1	Negligible	Negligible	Not significant
6-O-H090	Delahays Road, Hale	12.5	12.6	0.1	Negligible	Negligible	Not significant
6-O-H091	Grove Lane, Timperley	12.6	12.7	0.1	Negligible	Negligible	Not significant
6-O-H092	Grove Lane, Timperley	13.7	13.7	< 0.1	Negligible	Negligible	Not significant
6-O-H099**	Chester Road, Bucklow Hill	9.2	9.4	0.2	Negligible	Not applicable	Not significant
6-O-H100**	Chapel Lane, Bucklow Hill	8.7	8.9	0.2	Negligible	Not applicable	Not significant
6-O-H101**	Castle Mill Lane, Thorns Green, Altrincham	10.0	9.9	-0.1	Negligible	Not applicable	Not significant
6-O-H102**	Reddy Lane, Altrincham	11.6	11.6	< 0.1	Negligible	Not applicable	Not significant
6-O-H103**	Altrincham Road, Wilmslow	11.7	12.0	0.3	Negligible	Not applicable	Not significant
6-O-H104**	Altrincham Road, Willmslow	10.7	11.0	0.3	Negligible	Not applicable	Not significant
6-O-H105**	Mobberley Road, Wilmslow	9.6	9.8	0.2	Negligible	Not applicable	Not significant
6-O-H106**	Mobberley Road, Wilmslow	9.8	10.1	0.3	Negligible	Not applicable	Not significant
6-O-H107**	Morley Green Road, Wilmslow	9.3	9.2	-0.1	Negligible	Not applicable	Not significant
6-O-H108**	Morley Green Road, Wilmslow	10.0	9.9	-0.1	Negligible	Not applicable	Not significant
6-O-H109**	Morley Green Road, Wilmsow	11.1	11.0	-0.1	Negligible	Not applicable	Not significant
6-O-H110**	Altrincham Road, Wilmslow	11.4	11.5	0.1	Negligible	Not applicable	Not significant
6-O-H111**	Sunbank Lane, Manchester	12.6	12.7	0.1	Negligible	Not applicable	Not significant
6-O-H112**	Warburton Drive, Altrincham	13.8	13.3	-0.5	Negligible	Not applicable	Not significant
6-O-H113**	Warburton Drive, Hale	13.8	13.4	-0.4	Negligible	Not applicable	Not significant
6-O-H114**	Burnside, Hale Barns, Altrincham	19.9	19.5	-0.4	Negligible	Not applicable	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H115**	Park Road, Altrincham	11.2	11.5	0.3	Negligible	Not applicable	Not significant
6-O-H116**	Park Road, Hale, Altrincham	10.9	11.1	0.2	Negligible	Not applicable	Not significant
6-O-H117**	Ashley Road, Altrincham	11.2	11.2	< 0.1	Negligible	Not applicable	Not significant
6-O-H118**	Wolf Grange, Altrincham	11.9	12.2	0.3	Negligible	Not applicable	Not significant
6-O-H119**	Park Road, Altrincham	11.7	12.0	0.3	Negligible	Not applicable	Not significant
6-O-H120**	Southdowns Road, Altrincham	11.0	11.2	0.2	Negligible	Not applicable	Not significant
6-O-H121**	Park Road, Altrincham	10.8	10.9	0.1	Negligible	Not applicable	Not significant
6-O-H122**	Ash Lane, Altrincham	11.2	11.3	0.1	Negligible	Not applicable	Not significant
6-O-H123**	Ash Lane, Altrincham	11.0	11.1	0.1	Negligible	Not applicable	Not significant
6-O-H124**	Southdowns Road, Altrincham	10.2	10.3	0.1	Negligible	Not applicable	Not significant
6-O-H125**	Shay Lane, Altrincham	12.5	13.0	0.5	Negligible	Not applicable	Not significant
6-O-H126**	Langham Road, Bowdon, Altrincham	10.4	10.6	0.2	Negligible	Not applicable	Not significant
6-O-H127**	South Downes Road, Bowdon, Altrincham	10.7	10.9	0.2	Negligible	Not applicable	Not significant
6-O-H128**	Planetree Road, Altrincham	10.7	10.9	0.2	Negligible	Not applicable	Not significant
6-O-H129**	Langham Road, Bowdon, Altrincham	11.1	11.4	0.3	Negligible	Not applicable	Not significant
6-O-H130**	Davenport Green, Roaring Gate Lane, Altrincham	13.0	13.8	0.8	Negligible	Not applicable	Not significant
6-O-H131**	Hale Road, Altrincham	11.2	11.4	0.2	Negligible	Not applicable	Not significant
6-O-H132**	Langham Road, Bowdon, Altrincham	10.7	10.7	< 0.1	Negligible	Not applicable	Not significant
6-O-H133**	Delahays Road, Hale	11.8	12.0	0.2	Negligible	Not applicable	Not significant

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Receptor	Description/Location	NO ₂ concentrations (µg/m ³)		Change in NO ₂ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H134**	Roaring Gate Lane, Altrincham	12.9	13.6	0.7	Negligible	Not applicable	Not significant
6-O-H135**	Westminster Road, Altrincham	11.9	11.7	-0.2	Negligible	Not applicable	Not significant
6-O-H136**	Westminster Road, Altrincham	11.7	11.5	-0.2	Negligible	Not applicable	Not significant
6-O-H137**	Brooks Drive, Altrincham	11.6	11.7	0.1	Negligible	Not applicable	Not significant
6-O-H138**	Thorley Lane, Altrincham	13.5	13.6	0.1	Negligible	Not applicable	Not significant
6-O-H139**	Shaftesbury Road, Altrincham	12.5	12.5	< 0.1	Negligible	Not applicable	Not significant
6-O-H140**	Sherway Drive, Timperley	12.3	12.3	< 0.1	Negligible	Not applicable	Not significant
6-O-H141**	Stockport Road Altrincham	12.4	12.5	0.1	Negligible	Not applicable	Not significant
6-O-H142**	New Park Medical Practice, Stockport Road	12.5	12.6	0.1	Negligible	Not applicable	Not significant
6-O-H143**	Eskdale Drive, Altrincham	12.4	12.5	0.1	Negligible	Not applicable	Not significant
6-O-H144**	Stockport Road, Altrincham	14.4	14.5	0.1	Negligible	Not applicable	Not significant

Note: ** Indicates that receptor is new to the SES2 and AP2 ES.

Table 38: Predicted annual mean PM₁₀ concentrations and impacts (operation phase)

Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
4-O-H015**	Higher Lane, Lymm	11.5	11.5	0.0	Negligible	Not applicable	Not significant
4-O-H016**	High Legh Road, Lymm	11.8	11.8	0.0	Negligible	Not applicable	Not significant
4-O-H017**	Higher Lane, Lymm	11.6	11.7	0.1	Negligible	Not applicable	Not significant
4-O-H018**	Higher Lane, Lymm	12.2	12.3	0.1	Negligible	Not applicable	Not significant
4-O-H019**	Burford Lane, Lymm	12.3	12.4	0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
4-O-H020**	Agden Park Lane, Lymm	11.5	11.6	0.1	Negligible	Not applicable	Not significant
4-O-H021**	Cutnook Lane, Irlam	12.9	12.9	< 0.1	Negligible	Not applicable	Not significant
4-O-H022**	Cutnook Lane, Manchester	14.2	14.3	0.1	Negligible	Not applicable	Not significant
4-O-H023**	Nursery Farm, Barton Moss Road, Manchester	13.5	13.5	< 0.1	Negligible	Not applicable	Not significant
6-O-H036	Mobberley Road, Ashley	10.1	10.2	0.1	Negligible	Negligible	Not significant
6-O-H040	Millington Hall Lane, Millington	12.6	12.6	< 0.1	Negligible	Negligible	Not significant
6-O-H041	Mobberley Road, Ashley	12.3	12.6	0.3	Negligible	Negligible	Not significant
6-O-H042	Ashley Road, Ashley	12.3	12.3	< 0.1	Negligible	Negligible	Not significant
6-O-H043	Castle Mill Lane, Ashley	11.4	11.3	-0.1	Negligible	Negligible	Not significant
6-O-H045	Ashley Road, Ashley	12.1	11.9	-0.2	Negligible	Negligible	Not significant
6-O-H046	Ashley Road, Ashley	12.0	11.7	-0.3	Negligible	Negligible	Not significant
6-O-H047	Chester Road, Millington	12.0	12.0	< 0.1	Negligible	Negligible	Not significant
6-O-H048	Ashley Road, Ashley	12.4	11.8	-0.6	Negligible	Negligible	Not significant
6-O-H049	Cow Lane, Ashley	12.6	12.5	-0.1	Negligible	Negligible	Not significant
6-O-H051	Millington Lane, Millington	12.3	12.3	< 0.1	Negligible	Negligible	Not significant
6-O-H052	Thowler Lane, Millington	10.4	10.5	0.1	Negligible	Negligible	Not significant
6-O-H054	Castle Mill Lane	11.9	11.9	< 0.1	Negligible	Negligible	Not significant
6-O-H055	Hale Barns	11.9	11.9	< 0.1	Negligible	Negligible	Not significant
6-O-H056	Wilmslow Road, Altrincham	10.8	10.8	< 0.1	Negligible	Negligible	Not significant
6-O-H059	Chester Road, Millington	14.7	14.8	0.1	Negligible	Negligible	Not significant
6-O-H060	Altrincham	12.3	12.3	< 0.1	Negligible	Negligible	Not significant
6-O-H061	Cherry Tree Lane, Rostherne	11.8	11.9	0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H062	Hasty Lane, Hale Barns	12.7	12.6	-0.1	Negligible	Negligible	Not significant
6-O-H063	Hasty Lane, Hale Barns	12.9	12.8	-0.1	Negligible	Negligible	Not significant
6-O-H065	Hale Road, Hale Barns	10.7	10.6	-0.1	Negligible	Negligible	Not significant
6-O-H068	Hasty Lane, Hale Barns	13.3	13.2	-0.1	Negligible	Negligible	Not significant
6-O-H069	Elmridge Primary School, Hale Barns	10.2	10.2	< 0.1	Negligible	Negligible	Not significant
6-O-H070	Hale Road, Hale Barns	11.7	11.4	-0.3	Negligible	Negligible	Not significant
6-O-H072	Hale Road, Hale Barns, Altrincham	10.8	10.7	-0.1	Negligible	Negligible	Not significant
6-O-H073	Hale Road, Hale Barns, Altrincham	11.7	11.5	-0.2	Negligible	Negligible	Not significant
6-O-H074	Abinger Road, Hale Barns	11.0	10.9	-0.1	Negligible	Negligible	Not significant
6-O-H075	Abinger Road, Hale Barns	11.5	11.4	-0.1	Negligible	Negligible	Not significant
6-O-H076	Shay Lane, Hale Barns	10.8	10.8	< 0.1	Negligible	Negligible	Not significant
6-O-H077	Haletop Farm, Thorley Lane, Manchester	13.7	13.8	0.1	Negligible	Negligible	Not significant
6-O-H080	Thorley Lane, Altrincham	13.2	13.5	0.3	Negligible	Negligible	Not significant
6-O-H086	Ash Farm, Ash Lane, Hale	10.4	10.4	< 0.1	Negligible	Negligible	Not significant
6-O-H087	Grove Lane, Timperley	10.3	10.3	< 0.1	Negligible	Negligible	Not significant
6-O-H088	Grove Lane, Hale	11.3	11.4	0.1	Negligible	Negligible	Not significant
6-O-H090	Delahays Road, Hale	11.3	11.3	< 0.1	Negligible	Negligible	Not significant
6-O-H091	Grove Lane, Timperley	11.3	11.4	0.1	Negligible	Negligible	Not significant
6-O-H092	Grove Lane, Timperley	11.9	11.9	< 0.1	Negligible	Negligible	Not significant
6-O-H099**	Chester Road, Bucklow Hill	10.5	10.6	0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H100**	Chapel Lane, Bucklow Hill	11.5	11.6	0.1	Negligible	Not applicable	Not significant
6-O-H101**	Castle Mill Lane, Thorns Green, Altrincham	9.8	9.8	< 0.1	Negligible	Not applicable	Not significant
6-O-H102**	Reddy Lane, Altrincham	12.0	12.1	0.1	Negligible	Not applicable	Not significant
6-O-H103**	Altrincham Road, Wilmslow	11.1	11.1	< 0.1	Negligible	Not applicable	Not significant
6-O-H104**	Altrincham Road, Wilmslow	10.1	10.2	0.1	Negligible	Not applicable	Not significant
6-O-H105**	Mobberley Road, Wilmslow	9.7	9.8	0.1	Negligible	Not applicable	Not significant
6-O-H106**	Mobberley Road, Wilmslow	9.8	9.9	0.1	Negligible	Not applicable	Not significant
6-O-H107**	Morley Green Road, Wilmslow	9.5	9.5	< 0.1	Negligible	Not applicable	Not significant
6-O-H108**	Morley Green Road, Wilmslow	9.9	9.8	-0.1	Negligible	Not applicable	Not significant
6-O-H109**	Morley Green Road, Wilmslow	10.3	10.3	< 0.1	Negligible	Not applicable	Not significant
6-O-H110**	Altrincham Road, Wilmslow	10.6	10.7	0.1	Negligible	Not applicable	Not significant
6-O-H111**	Sunbank Lane, Manchester	11.3	11.4	0.1	Negligible	Not applicable	Not significant
6-O-H112**	Warburton Drive, Altrincham	11.7	11.7	< 0.1	Negligible	Not applicable	Not significant
6-O-H113**	Warburton Drive, Hale	11.7	11.7	< 0.1	Negligible	Not applicable	Not significant
6-O-H114**	Burnside, Hale Barns, Altrincham	12.3	12.2	-0.1	Negligible	Not applicable	Not significant
6-O-H115**	Park Road, Altrincham	10.6	10.8	0.2	Negligible	Not applicable	Not significant
6-O-H116**	Park Road, Hale, Altrincham	10.5	10.6	0.1	Negligible	Not applicable	Not significant
6-O-H117**	Ashley Road, Altrincham	10.7	10.7	< 0.1	Negligible	Not applicable	Not significant
6-O-H118**	Wolf Grange, Altrincham	11.0	11.2	0.2	Negligible	Not applicable	Not significant
6-O-H119**	Park Road, Altrincham	10.9	11.1	0.2	Negligible	Not applicable	Not significant
6-O-H120**	Southdowns Road, Altrincham	10.6	10.7	0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H121**	Park Road, Altrincham	10.4	10.5	0.1	Negligible	Not applicable	Not significant
6-O-H122**	Ash Lane, Altrincham	10.0	10.1	0.1	Negligible	Not applicable	Not significant
6-O-H123**	Ash Lane, Altrincham	9.9	10.0	0.1	Negligible	Not applicable	Not significant
6-O-H124**	Southdowns Road, Altrincham	10.3	10.3	< 0.1	Negligible	Not applicable	Not significant
6-O-H125**	Shay Lane, Altrincham	12.2	12.5	0.3	Negligible	Not applicable	Not significant
6-O-H126**	Langham Road, Bowdon, Altrincham	10.4	10.4	< 0.1	Negligible	Not applicable	Not significant
6-O-H127**	South Downes Road, Bowdon, Altrincham	10.5	10.6	0.1	Negligible	Not applicable	Not significant
6-O-H128**	Planetree Road, Altrincham	10.4	10.5	0.1	Negligible	Not applicable	Not significant
6-O-H129**	Langham Road, Bowdon, Altrincham	10.9	11.1	0.2	Negligible	Not applicable	Not significant
6-O-H130**	Davenport Green, Roaring Gate Lane, Altrincham	12.5	13	0.5	Negligible	Not applicable	Not significant
6-O-H131**	Hale Road, Altrincham	10.6	10.7	0.1	Negligible	Not applicable	Not significant
6-O-H132**	Langham Road, Bowdon, Altrincham	10.7	10.7	< 0.1	Negligible	Not applicable	Not significant
6-O-H133**	Delahays Road, Hale	10.9	11.0	0.1	Negligible	Not applicable	Not significant
6-O-H134**	Roaring Gate Lane, Altrincham	12.5	12.9	0.4	Negligible	Not applicable	Not significant
6-O-H135**	Westminster Road, Altrincham	11.0	10.9	-0.1	Negligible	Not applicable	Not significant
6-O-H136**	Westminster Road, Altrincham	10.9	10.8	-0.1	Negligible	Not applicable	Not significant
6-O-H137**	Brooks Drive, Altrincham	10.6	10.7	0.1	Negligible	Not applicable	Not significant
6-O-H138**	Thorley Lane, Altrincham	12.4	12.5	0.1	Negligible	Not applicable	Not significant
6-O-H139**	Shaftesbury Road, Altrincham	12.0	12.0	< 0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM ₁₀ concentrations (µg/m ³)		Change in PM ₁₀ concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H140**	Sherway Drive, Timperley	11.8	11.9	0.1	Negligible	Not applicable	Not significant
6-O-H141**	Stockport Road Altrincham	11.8	11.9	0.1	Negligible	Not applicable	Not significant
6-O-H142**	New Park Medical Practice, Stockport Road	11.9	12.0	0.1	Negligible	Not applicable	Not significant
6-O-H143**	Eskdale Drive, Altrincham	11.8	11.9	0.1	Negligible	Not applicable	Not significant
6-O-H144**	Stockport Road, Altrincham	12.9	13.0	0.1	Negligible	Not applicable	Not significant

Note: ** Indicates that receptor is new to the SES2 and AP2 ES.

Table 39: Predicted annual mean PM_{2.5} concentrations and impacts (operation phase)

Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
4-O-H015**	Higher Lane, Lymm	7.2	7.2	0.0	Negligible	Not applicable	Not significant
4-O-H016**	High Legh Road, Lymm	7.3	7.4	0.0	Negligible	Not applicable	Not significant
4-O-H017**	Higher Lane, Lymm	7.3	7.3	0.0	Negligible	Not applicable	Not significant
4-O-H018**	Higher Lane, Lymm	7.6	7.7	0.0	Negligible	Not applicable	Not significant
4-O-H019**	Burford Lane, Lymm	7.7	7.7	0.0	Negligible	Not applicable	Not significant
4-O-H020**	Agden Park Lane, Lymm	7.2	7.3	0.1	Negligible	Not applicable	Not significant
4-O-H021**	Cutnook Lane, Irlam	8.2	8.2	< 0.1	Negligible	Not applicable	Not significant
4-O-H022**	Cutnook Lane, Manchester	9.0	9.0	< 0.1	Negligible	Not applicable	Not significant
4-O-H023**	Nursery Farm, Barton Moss Road, Manchester	8.4	8.4	< 0.1	Negligible	Not applicable	Not significant
6-O-H036	Mobberley Road, Ashley	6.5	6.5	< 0.1	Negligible	Negligible	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H040	Millington Hall Lane, Millington	7.7	7.7	< 0.1	Negligible	Negligible	Not significant
6-O-H041	Mobberley Road, Ashley	7.5	7.7	0.2	Negligible	Negligible	Not significant
6-O-H042	Ashley Road, Ashley	7.4	7.4	< 0.1	Negligible	Negligible	Not significant
6-O-H043	Castle Mill Lane, Ashley	7.2	7.1	-0.1	Negligible	Negligible	Not significant
6-O-H045	Ashley Road, Ashley	7.5	7.3	-0.2	Negligible	Negligible	Not significant
6-O-H046	Ashley Road, Ashley	7.4	7.2	-0.2	Negligible	Negligible	Not significant
6-O-H047	Chester Road, Millington	7.5	7.5	< 0.1	Negligible	Negligible	Not significant
6-O-H048	Ashley Road, Ashley	7.6	7.3	-0.3	Negligible	Negligible	Not significant
6-O-H049	Cow Lane, Ashley	7.7	7.7	< 0.1	Negligible	Negligible	Not significant
6-O-H051	Millington Lane, Millington	7.7	7.7	< 0.1	Negligible	Negligible	Not significant
6-O-H052	Thowler Lane, Millington	6.5	6.6	0.1	Negligible	Negligible	Not significant
6-O-H054	Castle Mill Lane	7.4	7.4	< 0.1	Negligible	Negligible	Not significant
6-O-H055	Hale Barns	7.5	7.4	-0.1	Negligible	Negligible	Not significant
6-O-H056	Wilmslow Road, Altrincham	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-O-H059	Chester Road, Millington	9.2	9.2	< 0.1	Negligible	Negligible	Not significant
6-O-H060	Altrincham	7.6	7.6	< 0.1	Negligible	Negligible	Not significant
6-O-H061	Cherry Tree Lane, Rostherne	7.4	7.4	< 0.1	Negligible	Negligible	Not significant
6-O-H062	Hasty Lane, Hale Barns	8.1	8.0	-0.1	Negligible	Negligible	Not significant
6-O-H063	Hasty Lane, Hale Barns	8.2	8.1	-0.1	Negligible	Negligible	Not significant
6-O-H065	Hale Road, Hale Barns	7.0	6.9	-0.1	Negligible	Negligible	Not significant
6-O-H068	Hasty Lane, Hale Barns	8.4	8.3	-0.1	Negligible	Negligible	Not significant

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		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H069	Elmridge Primary School, Hale Barns	6.7	6.7	< 0.1	Negligible	Negligible	Not significant
6-O-H070	Hale Road, Hale Barns	7.5	7.4	-0.1	Negligible	Negligible	Not significant
6-O-H072	Hale Road, Hale Barns, Altrincham	7.0	7.0	< 0.1	Negligible	Negligible	Not significant
6-O-H073	Hale Road, Hale Barns, Altrincham	7.5	7.4	-0.1	Negligible	Negligible	Not significant
6-O-H074	Abinger Road, Hale Barns	7.2	7.1	-0.1	Negligible	Negligible	Not significant
6-O-H075	Abinger Road, Hale Barns	7.4	7.4	< 0.1	Negligible	Negligible	Not significant
6-O-H076	Shay Lane, Hale Barns	7.0	7.1	0.1	Negligible	Negligible	Not significant
6-O-H077	Haletop Farm, Thorley Lane, Manchester	8.7	8.8	0.1	Negligible	Negligible	Not significant
6-O-H080	Thorley Lane, Altrincham	8.4	8.5	0.1	Negligible	Negligible	Not significant
6-O-H086	Ash Farm, Ash Lane, Hale	6.9	6.9	< 0.1	Negligible	Negligible	Not significant
6-O-H087	Grove Lane, Timperley	6.8	6.9	0.1	Negligible	Negligible	Not significant
6-O-H088	Grove Lane, Hale	7.4	7.5	0.1	Negligible	Negligible	Not significant
6-O-H090	Delahays Road, Hale	7.4	7.4	< 0.1	Negligible	Negligible	Not significant
6-O-H091	Grove Lane, Timperley	7.4	7.5	0.1	Negligible	Negligible	Not significant
6-O-H092	Grove Lane, Timperley	7.7	7.8	0.1	Negligible	Negligible	Not significant
6-O-H099**	Chester Road, Bucklow Hill	6.6	6.6	< 0.1	Negligible	Not applicable	Not significant
6-O-H100**	Chapel Lane, Bucklow Hill	7.0	7.0	< 0.1	Negligible	Not applicable	Not significant
6-O-H101**	Castle Mill Lane, Thorns Green, Altrincham	6.2	6.2	< 0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H102**	Reddy Lane, Altrincham	7.5	7.5	< 0.1	Negligible	Not applicable	Not significant
6-O-H103**	Altrincham Road, Wilmslow	7.2	7.2	< 0.1	Negligible	Not applicable	Not significant
6-O-H104**	Altrincham Road, Wilmslow	6.7	6.7	< 0.1	Negligible	Not applicable	Not significant
6-O-H105**	Mobberley Road, Wilmslow	6.2	6.3	0.1	Negligible	Not applicable	Not significant
6-O-H106**	Mobberley Road, Wilmslow	6.3	6.3	< 0.1	Negligible	Not applicable	Not significant
6-O-H107**	Morley Green Road, Wilmslow	6.1	6.1	< 0.1	Negligible	Not applicable	Not significant
6-O-H108**	Morley Green Road, Wilmslow	6.3	6.3	< 0.1	Negligible	Not applicable	Not significant
6-O-H109**	Morley Green Road, Wilmslow	6.6	6.6	< 0.1	Negligible	Not applicable	Not significant
6-O-H110**	Altrincham Road, Wilmslow	6.7	6.8	0.1	Negligible	Not applicable	Not significant
6-O-H111**	Sunbank Lane, Manchester	7.1	7.2	0.1	Negligible	Not applicable	Not significant
6-O-H112**	Warburton Drive, Altrincham	7.4	7.3	-0.1	Negligible	Not applicable	Not significant
6-O-H113**	Warburton Drive, Hale	7.4	7.4	< 0.1	Negligible	Not applicable	Not significant
6-O-H114**	Burnside, Hale Barns, Altrincham	7.8	7.8	< 0.1	Negligible	Not applicable	Not significant
6-O-H115**	Park Road, Altrincham	6.9	7.0	0.1	Negligible	Not applicable	Not significant
6-O-H116**	Park Road, Hale, Altrincham	6.9	6.9	< 0.1	Negligible	Not applicable	Not significant
6-O-H117**	Ashley Road, Altrincham	7.0	7.0	< 0.1	Negligible	Not applicable	Not significant
6-O-H118**	Wolf Grange, Altrincham	7.2	7.3	0.1	Negligible	Not applicable	Not significant
6-O-H119**	Park Road, Altrincham	7.1	7.2	0.1	Negligible	Not applicable	Not significant
6-O-H120**	Southdowns Road, Altrincham	6.9	7.0	0.1	Negligible	Not applicable	Not significant
6-O-H121**	Park Road, Altrincham	6.8	6.9	0.1	Negligible	Not applicable	Not significant
6-O-H122**	Ash Lane, Altrincham	6.6	6.6	< 0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H123**	Ash Lane, Altrincham	6.5	6.6	0.1	Negligible	Not applicable	Not significant
6-O-H124**	Southdowns Road, Altrincham	6.7	6.7	< 0.1	Negligible	Not applicable	Not significant
6-O-H125**	Shay Lane, Altrincham	7.8	7.9	0.1	Negligible	Not applicable	Not significant
6-O-H126**	Langham Road, Bowdon, Altrincham	6.8	6.8	< 0.1	Negligible	Not applicable	Not significant
6-O-H127**	South Downes Road, Bowdon, Altrincham	6.9	6.9	< 0.1	Negligible	Not applicable	Not significant
6-O-H128**	Planetree Road, Altrincham	6.8	6.9	0.1	Negligible	Not applicable	Not significant
6-O-H129**	Langham Road, Bowdon, Altrincham	7.1	7.2	0.1	Negligible	Not applicable	Not significant
6-O-H130**	Davenport Green, Roaring Gate Lane, Altrincham	8.0	8.2	0.2	Negligible	Not applicable	Not significant
6-O-H131**	Hale Road, Altrincham	7.0	7.0	< 0.1	Negligible	Not applicable	Not significant
6-O-H132**	Langham Road, Bowdon, Altrincham	6.9	6.9	< 0.1	Negligible	Not applicable	Not significant
6-O-H133**	Delahays Road, Hale	7.1	7.2	0.1	Negligible	Not applicable	Not significant
6-O-H134**	Roaring Gate Lane, Altrincham	7.9	8.2	0.3	Negligible	Not applicable	Not significant
6-O-H135**	Westminster Road, Altrincham	7.3	7.2	-0.1	Negligible	Not applicable	Not significant
6-O-H136**	Westminster Road, Altrincham	7.2	7.1	-0.1	Negligible	Not applicable	Not significant
6-O-H137**	Brooks Drive, Altrincham	7.0	7.0	< 0.1	Negligible	Not applicable	Not significant
6-O-H138**	Thorley Lane, Altrincham	8.2	8.3	0.1	Negligible	Not applicable	Not significant
6-O-H139**	Shaftesbury Road, Altrincham	8.0	8.0	< 0.1	Negligible	Not applicable	Not significant
6-O-H140**	Sherway Drive, Timperley	7.9	7.9	< 0.1	Negligible	Not applicable	Not significant

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Receptor	Description/Location	PM _{2.5} concentrations (µg/m ³)		Change in PM _{2.5} concentrations (µg/m ³)	Impact descriptor	Impact descriptor in the main ES, or the main ES as amended by SES1 and AP1 ES	Significance
		2039 without the AP2 revised scheme	2039 with the AP2 revised scheme				
6-O-H141**	Stockport Road Altrincham	7.9	7.9	< 0.1	Negligible	Not applicable	Not significant
6-O-H142**	New Park Medical Practice, Stockport Road	7.9	8.0	0.1	Negligible	Not applicable	Not significant
6-O-H143**	Eskdale Drive, Altrincham	7.9	7.9	< 0.1	Negligible	Not applicable	Not significant
6-O-H144**	Stockport Road, Altrincham	8.5	8.5	< 0.1	Negligible	Not applicable	Not significant

Note: ** Indicates that receptor is new to the SES2 and AP2 ES.

Table 40: Predicted annual mean of NOx concentrations at ecological sites (operational phase)

Ecological site	Sensitive habitat	Distance to road (m)	NOx concentrations (µg/m ³)		Change in NOx concentrations (µg/m ³)	Comparison against air quality standard (30µg/m ³)	Percent change in relation to air quality standard
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	25	18.3	18.3	< 0.1	Within standard	< 0.1%
	Deciduous Woodland	30	17.5	17.5	< 0.1	Within standard	< 0.1%
	Deciduous Woodland	40	16.4	16.4	< 0.1	Within standard	< 0.1%
	Deciduous Woodland	50	15.6	15.7	0.1	Within standard	0.3%
	Degraded raised bog	75	14.5	14.5	< 0.1	Within standard	< 0.1%
	Degraded raised bog	100	13.8	13.8	< 0.1	Within standard	< 0.1%
	Degraded raised bog	150	13.1	13.1	< 0.1	Within standard	< 0.1%
	Degraded raised bog	200	12.7	12.7	< 0.1	Within standard	< 0.1%
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	20	19.0	19.1	0.1	Within standard	0.3%
	Deciduous Woodland	30	17.4	17.5	0.1	Within standard	0.3%
	Deciduous Woodland	40	16.3	16.4	0.1	Within standard	0.3%
	Deciduous Woodland	50	15.6	15.6	< 0.1	Within standard	< 0.1%

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Ecological site	Sensitive habitat	Distance to road (m)	NOx concentrations (µg/m ³)		Change in NOx concentrations (µg/m ³)	Comparison against air quality standard (30µg/m ³)	Percent change in relation to air quality standard
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
	Degraded raised bog	75	14.4	14.5	0.1	Within standard	0.3%
	Degraded raised bog	100	13.8	13.8	< 0.1	Within standard	< 0.1%
	Degraded raised bog	150	13.0	13.0	< 0.1	Within standard	< 0.1%
	Degraded raised bog	200	12.7	12.7	< 0.1	Within standard	< 0.1%
Rosterne Mere SSSI and Ramsar Transect 3	Broadleaved deciduous woodland	194	10.9	10.9	< 0.1	Within standard	< 0.1%
		200	10.8	10.8	< 0.1	Within standard	< 0.1%
Rosterne Mere SSSI Transect 4	Neutral grassland	3	20.8	21.1	0.3	Within standard	1.0%
		10	18.3	18.5	0.2	Within standard	0.7%
		20	16.2	16.4	0.2	Within standard	0.7%
		30	15.0	15.2	0.2	Within standard	0.7%
		40	14.2	14.3	0.1	Within standard	0.3%
		50	13.6	13.7	0.1	Within standard	0.3%
		75	12.7	12.8	0.1	Within standard	0.3%
		100	12.1	12.2	0.1	Within standard	0.3%
Rosterne Mere SSSI and Ramsar Transect 4	Poor fen	184	11.3	11.3	< 0.1	Within standard	< 0.1%
		200	12.2	12.3	0.1	Within standard	0.3%
Cotterill Clough SSSI Transect 2	Broadleaved deciduous woodland	15	17.0	17.3	0.3	Within standard	1.0%
		20	16.5	16.7	0.2	Within standard	0.7%
		30	15.8	16.0	0.2	Within standard	0.7%
		40	15.5	15.6	0.1	Within standard	0.3%
		50	15.2	15.3	0.1	Within standard	0.3%

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Ecological site	Sensitive habitat	Distance to road (m)	NOx concentrations ($\mu\text{g}/\text{m}^3$)		Change in NOx concentrations ($\mu\text{g}/\text{m}^3$)	Comparison against air quality standard ($30\mu\text{g}/\text{m}^3$)	Percent change in relation to air quality standard
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
		75	14.9	15.0	0.1	Within standard	0.3%
		100	14.7	14.8	0.1	Within standard	0.3%
		150	14.5	14.6	0.1	Within standard	0.3%
		200	14.5	14.5	< 0.1	Within standard	< 0.1%
Cotterill Clough SSSI Transect 3	Broadleaved deciduous woodland	3	20.9	21.7	0.8	Within standard	2.7%
		10	18.0	18.5	0.5	Within standard	1.7%
		20	16.5	16.8	0.3	Within standard	1.0%
		30	15.8	16.0	0.2	Within standard	0.7%
		40	15.4	15.6	0.2	Within standard	0.7%
		50	15.2	15.3	0.1	Within standard	0.3%
		75	14.9	14.9	< 0.1	Within standard	< 0.1%
		100	14.7	14.7	< 0.1	Within standard	< 0.1%
		150	14.5	14.6	0.1	Within standard	0.3%
		200	14.4	14.5	0.1	Within standard	0.3%

Table 41: Predicted annual mean of ammonia (NH_3) concentrations at ecological sites (operational phase)

Ecological site	Sensitive habitat	Distance to road (m)	NH_3 concentrations ($\mu\text{g}/\text{m}^3$)		Change in NH_3 concentrations ($\mu\text{g}/\text{m}^3$)	Comparison against critical level ($3\mu\text{g}/\text{m}^3$ for low and $1\mu\text{g}/\text{m}^3$ high vegetation)	Percent change in relation to critical level
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	25	3.6	3.6	< 0.1	Above standard	0.7%
	Deciduous Woodland	30	3.5	3.5	< 0.1	Above standard	0.6%
	Deciduous Woodland	40	3.3	3.3	< 0.1	Above standard	0.5%
	Deciduous Woodland	50	3.2	3.2	< 0.1	Above standard	0.4%
	Degraded raised bog	75	3.1	3.1	< 0.1	Above standard	0.3%

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Ecological site	Sensitive habitat	Distance to road (m)	NH ₃ concentrations (µg/m ³)		Change in NH ₃ concentrations (µg/m ³)	Comparison against critical level (3µg/m ³ for low and 1µg/m ³ high vegetation)	Percent change in relation to critical level
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
	Degraded raised bog	100	3.0	3.0	< 0.1	Above standard	0.2%
	Degraded raised bog	150	2.9	2.9	< 0.1	Above standard	0.1%
	Degraded raised bog	200	2.8	2.8	< 0.1	Above standard	< 0.1%
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	20	3.7	3.7	< 0.1	Above standard	0.8%
	Deciduous Woodland	30	3.5	3.5	< 0.1	Above standard	0.6%
	Deciduous Woodland	40	3.3	3.3	< 0.1	Above standard	0.5%
	Deciduous Woodland	50	3.2	3.2	< 0.1	Above standard	0.4%
	Degraded raised bog	75	3.1	3.1	< 0.1	Above standard	0.3%
	Degraded raised bog	100	3.0	3.0	< 0.1	Above standard	0.2%
	Degraded raised bog	150	2.9	2.9	< 0.1	Above standard	0.1%
	Degraded raised bog	200	2.8	2.8	< 0.1	Above standard	< 0.1%
Rostherne Mere SSSI and Ramsar Transect 3	Broadleaved deciduous woodland	194	3.4	3.4	< 0.1	Above standard	0.3%
		200	3.4	3.4	< 0.1	Above standard	0.3%
Rostherne Mere SSSI and Ramsar Transect 4	Neutral grassland	3	4.8	4.8	< 0.1	Above standard	1.4%
		10	4.4	4.5	0.1	Above standard	1.1%
		20	4.2	4.2	< 0.1	Above standard	0.8%
		30	4.0	4.0	< 0.1	Above standard	0.7%
		40	3.9	3.9	< 0.1	Above standard	0.6%
		50	3.8	3.8	< 0.1	Above standard	0.5%
		75	3.7	3.7	< 0.1	Above standard	0.4%
		100	3.6	3.6	< 0.1	Above standard	0.3%
		150	3.5	3.5	< 0.1	Above standard	0.2%

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Ecological site	Sensitive habitat	Distance to road (m)	NH ₃ concentrations (µg/m ³)		Change in NH ₃ concentrations (µg/m ³)	Comparison against critical level (3µg/m ³ for low and 1µg/m ³ high vegetation)	Percent change in relation to critical level
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
	Poor fen	184	3.5	3.5	< 0.1	Above standard	0.5%
		200	3.4	3.4	< 0.1	Above standard	0.4%
Cotterill Clough SSSI Transect 2	Broadleaved deciduous woodland	15	3.4	3.5	0.1	Above standard	5.2%
		20	3.3	3.4	0.1	Above standard	4.2%
		30	3.2	3.3	0.1	Above standard	2.9%
		40	3.2	3.2	< 0.1	Above standard	2.2%
		50	3.2	3.2	< 0.1	Above standard	1.8%
		75	3.1	3.1	< 0.1	Above standard	1.1%
		100	3.1	3.1	< 0.1	Above standard	0.8%
		150	3.1	3.1	< 0.1	Above standard	0.5%
		200	3.0	3.0	< 0.1	Above standard	0.3%
Cotterill Clough SSSI Transect 3	Broadleaved deciduous woodland	3	4.0	4.1	0.1	Above standard	12.6%
		10	3.6	3.6	< 0.1	Above standard	7.2%
		20	3.3	3.4	0.1	Above standard	4.3%
		30	3.2	3.3	0.1	Above standard	2.9%
		40	3.2	3.2	< 0.1	Above standard	2.2%
		50	3.2	3.2	< 0.1	Above standard	1.7%
		75	3.1	3.1	< 0.1	Above standard	1.1%
		100	3.1	3.1	< 0.1	Above standard	0.7%
		150	3.1	3.1	< 0.1	Above standard	0.4%
		200	3.0	3.0	< 0.1	Above standard	0.3%

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Table 42: Assessment of N deposition with ammonia at ecological sites (operational phase)

Ecological site	Sensitive habitat	Distance to road (m)	Dry deposition (kg N/ha/yr)		Change in N deposition (kg N/ha/yr)	Critical Load (kg N/ha/yr)	Percent change in relation to lower critical load
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	25	47.5	47.5	< 0.1	10	0.6%
	Deciduous Woodland	30	46.5	46.6	0.1	10	0.5%
	Deciduous Woodland	40	45.2	45.2	< 0.1	10	0.4%
	Deciduous Woodland	50	44.3	44.3	< 0.1	10	0.3%
	Degraded raised bog	75	25.7	25.7	< 0.1	5	0.3%
	Degraded raised bog	100	25.2	25.2	< 0.1	5	0.2%
	Degraded raised bog	150	24.6	24.6	< 0.1	5	0.2%
	Degraded raised bog	200	24.7	24.7	< 0.1	5	0.1%
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	20	48.4	48.5	0.1	10	0.7%
	Deciduous Woodland	30	46.4	46.5	0.1	10	0.6%
	Deciduous Woodland	40	45.1	45.2	0.1	10	0.4%
	Deciduous Woodland	50	44.2	44.3	0.1	10	0.3%
	Degraded raised bog	75	25.7	25.7	< 0.1	5	0.3%
	Degraded raised bog	100	25.1	25.2	0.1	5	0.2%
	Degraded raised bog	150	24.6	24.6	< 0.1	5	0.2%
	Degraded raised bog	200	24.3	24.3	< 0.1	5	0.1%
Rostherne Mere SSSI and Ramsar Transect 3	Broadleaved deciduous woodland	194	48.0	48.0	< 0.1	20	0.1%
		200	47.9	48.0	0.1	20	0.1%
Rostherne Mere SSSI Transect 4	Neutral grassland	3	36.3	36.6	0.3	20	1.2%
		10	34.4	34.6	0.2	20	0.9%
		20	32.8	32.9	0.1	20	0.7%
		30	31.8	31.9	0.1	20	0.6%

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Ecological site	Sensitive habitat	Distance to road (m)	Dry deposition (kg N/ha/yr)		Change in N deposition (kg N/ha/yr)	Critical Load (kg N/ha/yr)	Percent change in relation to lower critical load
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
		40	31.2	31.3	0.1	20	0.5%
		50	30.7	30.8	0.1	20	0.4%
		75	30.0	30.0	< 0.1	20	0.3%
		100	29.6	29.6	< 0.1	20	0.2%
		150	29.1	29.1	< 0.1	20	0.2%
Rostherne Mere SSSI and Ramsar Transect 4	Poor fen	184	28.9	28.9	< 0.1	10	0.3%
		200	28.4	28.4	< 0.1	10	0.2%
Cotterill Clough SSSI Transect 2	Broadleaved deciduous woodland	15	46.8	47.2	0.4	15	3.1%
		20	46.1	46.4	0.3	15	2.5%
		30	45.2	45.5	0.3	15	1.7%
		40	44.8	45.0	0.2	15	1.3%
		50	44.5	44.6	0.1	15	1.1%
		75	44.0	44.1	0.1	15	0.7%
		100	43.8	43.9	0.1	15	0.5%
		150	43.6	43.6	< 0.1	15	0.3%
		200	43.5	43.5	< 0.1	15	0.2%
Cotterill Clough SSSI Transect 3	Broadleaved deciduous woodland	3	51.7	52.9	1.2	15	7.4%
		10	48.1	48.7	0.6	15	4.2%
		20	46.1	46.5	0.4	15	2.5%
		30	45.2	45.5	0.3	15	1.7%
		40	44.7	44.9	0.2	15	1.3%
		50	44.4	44.6	0.2	15	1.0%
		75	44.0	44.1	0.1	15	0.6%

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Ecological site	Sensitive habitat	Distance to road (m)	Dry deposition (kg N/ha/yr)		Change in N deposition (kg N/ha/yr)	Critical Load (kg N/ha/yr)	Percent change in relation to lower critical load
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
		100	43.8	43.8	< 0.1	15	0.4%
		150	43.6	43.6	< 0.1	15	0.2%
		200	43.5	43.5	< 0.1	15	0.2%

Table 43: Assessment of acid deposition at ecological sites (operational phase)

Ecological site	Sensitive habitat	Distance to road (m)	Acid deposition (k eq/ha/yr)		Change in acid deposition (k eq/ha/yr)	Change in acid deposition as percent of CLmax	With AP2 revised scheme acid deposition as percent of CLmax
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
Holcroft Moss SSSI/Manchester Mosses SAC Transect 1	Deciduous Woodland	25	3.6	3.6	< 0.1	0.7%	608.7%
	Deciduous Woodland	30	3.6	3.6	< 0.1	0.6%	597.2%
	Deciduous Woodland	40	3.5	3.5	< 0.1	0.5%	581.2%
	Deciduous Woodland	50	3.4	3.4	< 0.1	0.4%	570.2%
	Degraded raised bog	75	2.0	2.0	< 0.1	0.2%	355.0%
	Degraded raised bog	100	2.0	2.0	< 0.1	0.1%	348.5%
	Degraded raised bog	150	1.9	1.9	< 0.1	0.1%	341.4%
	Degraded raised bog	200	2.0	2.0	< 0.1	0.1%	342.5%
Holcroft Moss SSSI/Manchester Mosses SAC Transect 2	Deciduous Woodland	20	3.7	3.7	< 0.1	0.8%	619.9%
	Deciduous Woodland	30	3.5	3.6	0.10	0.7%	596.0%
	Deciduous Woodland	40	3.5	3.5	< 0.1	0.5%	580.4%
	Deciduous Woodland	50	3.4	3.4	< 0.1	0.4%	569.6%
	Degraded raised bog	75	2.0	2.0	< 0.1	0.2%	354.7%
	Degraded raised bog	100	2.0	2.0	< 0.1	0.1%	348.2%
	Degraded raised bog	150	1.9	1.9	< 0.1	0.1%	341.0%

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Ecological site	Sensitive habitat	Distance to road (m)	Acid deposition (k eq/ha/yr)		Change in acid deposition (k eq/ha/yr)	Change in acid deposition as percent of CLmax	With AP2 revised scheme acid deposition as percent of CLmax
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
	Degraded raised bog	200	1.9	1.9	< 0.1	0.1%	337.3%
Rostherne Mere SSSI and Ramsar Transect 3	Broadleaved deciduous woodland	194	3.6	3.6	< 0.1	0.3%	604.6%
		200	3.6	3.6	< 0.1	0.3%	604.3%
Rostherne Mere SSSI and Ramsar Transect 4	Neutral grassland	3	2.7	2.8	0.10	2.0%	303.1%
		10	2.6	2.6	< 0.1	1.5%	287.4%
		20	2.5	2.5	< 0.1	1.1%	274.4%
		30	2.4	2.4	< 0.1	0.9%	266.6%
		40	2.4	2.4	< 0.1	0.8%	261.5%
		50	2.3	2.3	< 0.1	0.7%	257.8%
		75	2.3	2.3	< 0.1	0.5%	251.8%
		100	2.3	2.3	< 0.1	0.4%	248.4%
		150	2.2	2.2	< 0.1	0.3%	244.5%
Rostherne Mere SSSI and Ramsar Transect 4	Poor fen	184	2.2	2.2	< 0.1	0.3%	382.9%
		200	2.2	2.2	< 0.1	0.3%	376.9%
Cotterill Clough SSSI Transect 2	Broadleaved deciduous woodland	15	3.5	3.6	0.10	1.7%	180.4%
		20	3.5	3.5	< 0.1	1.3%	177.6%
		30	3.4	3.4	< 0.1	0.9%	174.2%
		40	3.4	3.4	< 0.1	0.7%	172.2%
		50	3.4	3.4	< 0.1	0.6%	171.0%
		75	3.3	3.3	< 0.1	0.4%	169.3%
		100	3.3	3.3	< 0.1	0.3%	168.4%

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Ecological site	Sensitive habitat	Distance to road (m)	Acid deposition (k eq/ha/yr)		Change in acid deposition (k eq/ha/yr)	Change in acid deposition as percent of CLmax	With AP2 revised scheme acid deposition as percent of CLmax
			2039 without the AP2 revised scheme	2039 with the AP2 revised scheme			
		150	3.3	3.3	< 0.1	0.2%	167.5%
		200	3.3	3.3	< 0.1	0.1%	167.0%
Cotterill Clough SSSI Transect 3	Broadleaved deciduous woodland	3	3.9	4.0	0.10	4.0%	200.8%
		10	3.6	3.7	0.10	2.3%	185.8%
		20	3.5	3.5	< 0.1	1.4%	177.8%
		30	3.4	3.4	< 0.1	0.9%	174.2%
		40	3.4	3.4	< 0.1	0.7%	172.2%
		50	3.4	3.4	< 0.1	0.6%	170.9%
		75	3.3	3.3	< 0.1	0.3%	169.1%
		100	3.3	3.3	< 0.1	0.2%	168.2%
		150	3.3	3.3	< 0.1	0.1%	167.3%
		200	3.3	3.3	< 0.1	0.1%	166.9%

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- 4.4.9 The annual mean NO₂, PM₁₀ and PM_{2.5} concentrations are predicted to be within the air quality standards during operation of the AP2 revised scheme. Since the annual mean NO₂ concentrations are predicted to be well below 60µg/m³, the hourly mean standard is also expected to be met. Similarly, since the annual mean PM₁₀ concentrations are predicted to be below 35µg/m³, the daily mean standard is also expected to be met.
- 4.4.10 Negligible impacts are predicted at all human receptors in the area for annual mean NO₂, PM₁₀ and PM_{2.5} concentrations.
- 4.4.11 NO_x concentrations at Holcroft Moss SSSI and Manchester Mosses SAC, Rostherne Mere SSSI and Ramsar and Cotterill Clough SSSI are predicted to be within the air quality standard, both without and with the AP2 revised scheme. All changes at Holcroft Moss SSSI, Manchester Mosses SAC and Rostherne Mere SSSI and Ramsar are equal to 1% of the air quality standard or less. At Cotterill Clough SSSI the changes in NO_x concentrations are equal to 1% of the air quality standard or less, except at a distance of between 3m and 10m from the road at transect 3.
- 4.4.12 NH₃ concentrations at Holcroft Moss SSSI and Manchester Mosses SAC, Rostherne Mere, SSSI and Ramsar and Cotterill Clough SSSI are predicted to be above the relevant critical level, both without and with the AP2 revised scheme. All changes in NH₃ concentrations are above 1% of the air quality critical level at Holcroft Moss SSSI and Manchester Mosses SAC. At Rostherne Mere SSSI and Ramsar, the changes in NH₃ concentrations are equal to 1% of the air quality critical level or less except at a distance of between 3m and 10m from the road at transect 4 (which is not part of the Ramsar site). At Cotterill Clough SSSI the changes in NH₃ concentrations are greater than 1% of the air quality critical level at a distance of 15m to 75m from the road at transect 2 and 3m to 75m from the road at transect 3.
- 4.4.13 The change in nitrogen deposition due to the AP2 revised scheme is predicted to be greater than 1% of the lower critical load for Cotterill Clough SSSI at a distance of 15m to 50m from the road at transect 2 and 3m to 40m to the road at transect 3. The change in nitrogen deposition at Rostherne Mere SSSI and Ramsar are equal to or below 1% of the lower critical load except at a distance of 3m from the road at transect 4 (which is not part of the Ramsar site). The change in nitrogen deposition is predicted to be less than 1% of the lower critical load at Holcroft Moss SSSI and Manchester Mosses SAC.
- 4.4.14 The change in acid deposition due to the AP2 revised scheme is predicted to be greater than 1% of the maximum critical load for Cotterill Clough SSSI at a distance of 15m to 20m from the road at transect 2 and 3m to 20m to the road at transect 3. The change in nitrogen deposition at Rostherne Mere SSSI and Ramsar are equal to or below 1% of the maximum critical load except at a distance of 3m to 20m from the road at transect 4 (which is not part of the Ramsar site). The change in nitrogen deposition is predicted to be less than 1% of the maximum critical load at Holcroft Moss SSSI and Manchester Mosses SAC.

Assessment of significance

- 4.4.15 No significant effects are anticipated at any receptors in relation to annual mean NO₂, PM₁₀ and PM_{2.5} concentrations.
- 4.4.16 Since the changes in NO_x concentrations are predicted to be greater than 1% of the air quality standard, there is the potential for significant effects to occur at Cotterill Clough SSSI up to between 3m and 10m from the road due to NO_x concentrations. Since the changes in NO_x concentrations are predicted to be equal to or less than 1% of the air quality standard, no significant effects are predicted at Rostherne Mere SSSI and Ramsar and Holcroft Moss SSSI and Manchester Mosses SAC due to NO_x concentrations.
- 4.4.17 Since the changes in NH₃ concentrations are predicted to be above 1% of the air quality critical level, there is the potential for significant effects to occur at Rostherne Mere SSSI between 3m and 10m from the road, and Cotterill Clough SSSI between 3m and 75m from the road. Since the changes in NH₃ concentrations are predicted to be less than 1% of the air quality critical level, no significant effects are predicted at Holcroft Moss SSSI, Manchester Mosses SAC and Rostherne Mere Ramsar site due to NH₃ concentrations.
- 4.4.18 Since the changes in nitrogen deposition are predicted to be above 1% of the lower critical load, there is the potential for significant effects to occur at Rostherne Mere SSSI at a distance of 3m from the road, and Cotterill Clough SSSI between 3m and 50m from the road. Since the changes in nitrogen deposition are predicted to be less than 1% of the lower critical load, no significant effects are predicted at Holcroft Moss SSSI and Manchester Mosses SAC and Rostherne Mere Ramsar site due to nitrogen deposition.
- 4.4.19 Since the changes in acid deposition are predicted to be above 1% of the maximum critical load, there is the potential for significant effects to occur at Rostherne Mere SSSI between 3m and 20m from the road, and Cotterill Clough SSSI between 3m and 20m from the road. Since the changes in acid deposition are predicted to be less than 1% of the maximum critical load, no significant effects are predicted at Holcroft Moss SSSI and Manchester Mosses SAC and Rostherne Mere Ramsar site due to acid deposition.
- 4.4.20 There is the potential for new significant effects for NO_x concentrations, nitrogen deposition, NH₃ concentrations and acid deposition from the operation of the AP2 revised scheme compared to the main ES as amended by SES1 and AP1 ES at Cotterill Clough SSSI.
- 4.4.21 There is the potential for new significant effects for nitrogen deposition, NH₃ concentrations and acid deposition from the operation of the AP2 revised scheme compared to the main ES as amended by SES1 and AP1 ES at Rostherne Mere SSSI.

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