A585 Windy Harbour to Skippool Improvement Scheme

TR010035

6.6.2 ES Appendix 6.2: Air Quality Model Parameters

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Infrastructure Planning

Planning Act 2008

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

A585 Windy Harbour to Skippool Improvement Scheme
Development Consent Order 201[ ]

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ES APPENDIX 6.2: AIR QUALITY MODEL INPUT PARAMETERS

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Regulation Number:	Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010035
Application Document Reference	TR010035/APP/6.6.2
Author:	A585 Windy Harbour to Skippool Improvement Scheme Project Team, Highways England

Version	Date	Status of Version
Rev 0	October 2018	DCO submission

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CONTENTS

LIST OF TABLES

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1   MODELLING PARAMETERS

Table 1: Modelling Parameters

Work Element	Setting or Process Used
Model Set Up	
Model Used	ADMS Roads 4.0.1
Pollutants Modelled	NO_X, PM_{10}
Baseline Year	2015
Opening Year	2022
Met Data	Blackpool Airport 2015
Surface Roughness	0.5 (parkland, open suburbia) for Dispersion site, 0.2 (agricultural areas min) for Met site.
Monin-Obukhov Length	10 (small towns <50,000) for Dispersion site, 30 (cities & large towns) for Met site.
Buildings Included	No
Receptors Modelled	A selection of 41 'worst-case' receptors
Receptor Height	1.5m
Traffic and Emissions	
Criteria to define ARN	DMRB 11.3.1
Extent of model	A585 Amounderness Way between Norcross Roundabout and Skippool Roundabout A585 Mains Lane A585 Garstang New Road A585 Fleetwood Road A586 Garstang Road A586 Garstang Road East A586 Garstang Road West A588 Breck Road A588 Station Road A588 Hardhorn Road, Higher Green and Lower Green A583 between M55 junction 4 and A587 M55 between junction 3 and 4 B5412 between Skippool Roundabout and Tarn Road B5260 between Garstang Road and B5266.
Method to estimate emissions	EFT v8 with Highways England IAN

Work Element	Setting or Process Used
	185/15 Speed Banding tool v3.0
Daily Average or Hourly Profile?	AADT
Speed adjustments applied	Speed banding according to guidance in Highways England IAN 185/15
Gradients considered	No
Processing Results	
Background Values	Defra maps. In grid motorway, trunk A and primary A road removed.
Post processing method and values	NOx to NO2 Calculator v6.1. Borough and traffic mix selected according to receptor.
Sensitivity tests included	IAN 170/12v3 to adjust modelled results using LTTE6
Significance determined with	IAN 174/13