

Transport Infrastructure Ireland

Air Quality – Standard Document and Overarching Technical Document



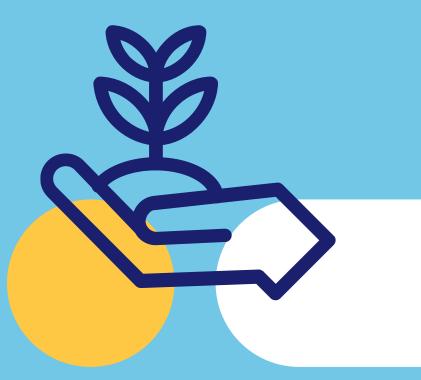




- 1. Overview of Air Quality Overarching Technical Document and Standard
- 2. Planned updates to Air Quality Publications











- > TII Project Manager: Vincent O'Malley
- Project Partner: AECOM
- Published: December 2022
- TII Publications: Planning and Evaluation (PE) Environment (ENV)
- Air Quality Assessment of Specified Infrastructure Projects
 Overarching Technical Document (PE-ENV-01106)
- Air Quality Assessment of Proposed National Roads Standard (PE-ENV-01107)
- Utilised on a range of projects since publication



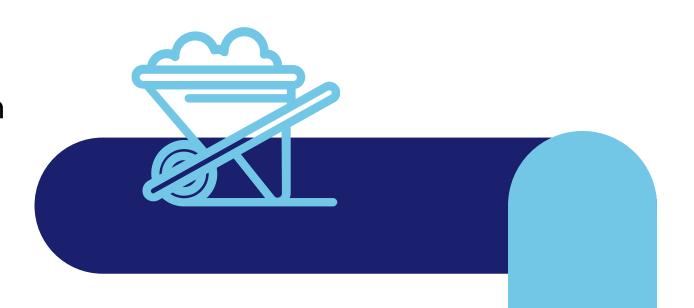




Air Quality Assessment of Specified Infrastructure Projects – Overarching Technical Document

- Provides guidance on the methodology, scope and processes underlying the air quality assessment (AQA) for Specified Infrastructure Projects.
- Specified Infrastructure Projects: National road schemes, Toll schemes, Motorway services, Light Rail and Metro schemes, Rural cycleways (offline & greenways)
- Ensure consistent and appropriate description, and evaluation of the baseline environment relevant to Specified Infrastructure Projects.
- Provide guidance on the methodology for AQA for the planning, design and assessment phases of delivering Specified Infrastructure Projects.
- Promote a context-sensitive approach to the design of appropriate mitigation measures for likely significant air quality effects of Specified Infrastructure Projects







Chapter

Introduction presents the context and purpose of the Guidelines.

Chapter 2 Air Quality Regulatory and Policy Framework presents an overview of European and national air quality policy and legislation, environmental impact assessment and how the Guidelines respond to this framework.

Chapter

 Application of the Guidelines to Specified Infrastructure Projects sets out how these Guidelines are integrated into the Thresholds and Phases of Project delivery for Specified Infrastructure Projects.

Chapter

 Air Quality Assessment Process describes the application and use of AQA in establishing, characterising, and describing the air quality baseline and the procedure to determine the potential air quality effects during the operational and construction phases.

Chapter 5 Air Quality Assessment through the project Phases & Stages describes the process of AQA through the different Project Phases of options selection, preferred option.





Air Quality Assessment of Proposed National Roads - Standard

- Air Quality Assessment (AQA) during the planning of proposed national road schemes, motorway service areas, toll schemes, and any associated infrastructure.
- Apply AQA in a manner that is proportionate to the complexity, scale, and likely significance of air quality effects of a national road scheme, motorway service areas, toll scheme, and any associated infrastructure.
- Provide consistency to the consideration of AQA during the planning of a national road projects as set out in TII's Project Management Guidelines (PMG), Project Manager's Manual for Major National Roads (PMM) and Project Appraisal Guidelines (PAG).
- Have an air quality professional with competence and relevant experience, as outlined in Section 1.8 of Standard Document to undertake the assessment





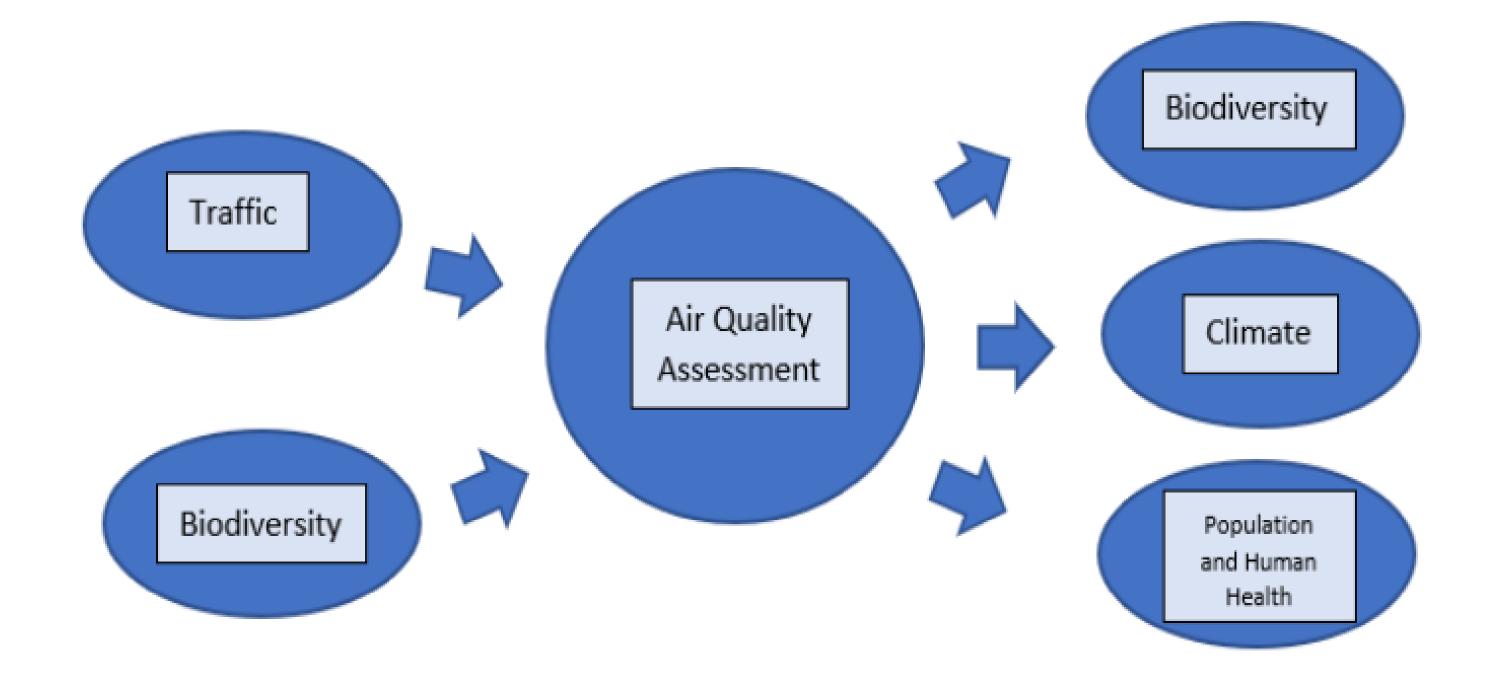


Figure 1.1 Interactions with other environmental factors



Related Documents and Tools

- Climate Guidance for National Roads, Light Rail, and Rural CYCLEWAYS
 (Offline & Greenways) Overarching Technical Document (PE-ENV-01104)
- Climate Assessment of Proposed National Roads Standard (PE-ENV-01105)
- TII have developed the TII Road Emissions Model (REM) and the TII Carbon Tool, for use in the assessment of air quality and climate effects for Specified Infrastructure Projects
- These are described in the Overarching Technical Document and Standard Document for air quality and climate
- TII should be contacted by the project team to request access to these tools.





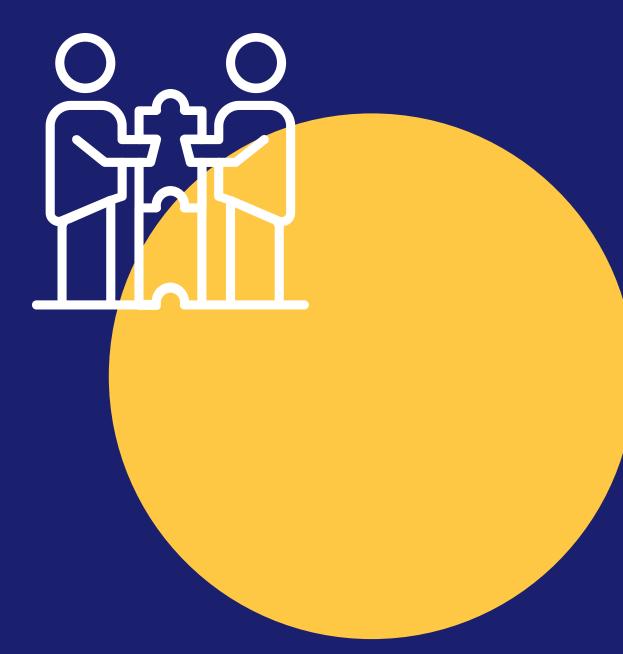






Planned Updates to Air Quality Publications





Planned Updates to Air Quality Publications

Revised Ambient Air Quality Directive

- A significant update to the EU's air quality framework, strengthening the previous Ambient Air Quality Directives
- Aligns EU air quality standards more closely with World Health Organisation (WHO) guidelines
- Introduces stricter limit values for particulate matter (PM) and nitrogen dioxide (NO₂)
- Annual NO₂ limit value reduced from 40 µg/m³ to 20 µg/m³ by 2030, with the daily limit value introduced at 50 µg/m³ (not to be exceeded more than 18 times per calendar year). Reduction in number of hourly exceedances (from 18 times to 3 times per calendar year)
- Access to justice and right to compensation
- **Implications**



2024/2881 DIRECTIVE (EU) 2024/2881 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 23 October 2024 on ambient air quality and cleaner air for Europe

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNIO

Having regard to the Treaty on the Functioning of the European Union, and in particular Article 192(1) thereo

Having regard to the proposal from the European Commission

After transmission of the draft legislative act to the national parliaments

- The Commission set out in its communication of 11 December 2019 entitled 'The European ambitious roadmap to transform the Union into a fair and prosperous society, with a modern, resor Commission committed itself to further improving air quality and to aligning Union air quality standards more e European Green Deal a strengthening of provisions on air quality monitoring, modelling and plan
- Pollution for Air. Water and Soil', the Commission established a 'Zero Pollution Action Plan' that, inter alia, addresses pollution aspects of the European Green Deal and further commits to reducing, by 2030, the health impact of air pollution by more than 55 % and the Union ecosystems where air pollution threatens biodiversity by 25 %.
- future Union air quality standards should be pursued, establishing air quality standards for 2030 and beyond, and developing a perspective for alignment with the most up-to-date WHO Air Quality Guidelines at the latest by 2050 based on a regular review mechanism to take into account the latest scientific evidence. Given the links between

Planned Updates to Air Quality Publications

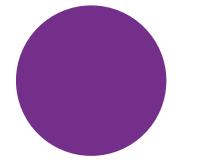


Additional planned updates

- > Alignment with Infrastructure Guidelines and Transport Appraisal Framework, as necessary
- Alignment with Population and Human Health Standard Document (PE-ENV-001108)
- Approach to monitoring on nationally significant schemes
- Updated referencing throughout (legislation, TII Publications, Best practice Guidance e.g. IAQM)
- Address minor issues identified
- > Updates to be published in late 2025.

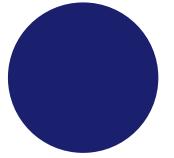


Thank you Questions?

















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