

Tritax Symmetry (Hinckley) Limited

HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

The Hinckley National Rail Freight Interchange Development Consent Order

Project reference TR050007

Environmental Statement Volume 1: Main Statement

Contents and glossary

Document reference: 6.1.0

Revision: 02

December 2022

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009
Regulation 5(2)(a)

The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017
Regulation 14

This document forms a part of the Environmental Statement for the Hinckley National Rail Freight Interchange project.

Tritax Symmetry (Hinckley) Limited (TSH) has applied to the Secretary of State for Transport for a Development Consent Order (DCO) for the Hinckley National Rail Freight Interchange (HNRFI).

To help inform the determination of the DCO application, TSH has undertaken an environmental impact assessment (EIA) of its proposals. EIA is a process that aims to improve the environmental design of a development proposal, and to provide the decision maker with sufficient information about the environmental effects of the project to make a decision.

The findings of an EIA are described in a written report known as an Environmental Statement (ES). An ES provides environmental information about the scheme, including a description of the development, its predicted environmental effects and the measures proposed to ameliorate any adverse effects.

Further details about the proposed Hinckley National Rail Freight Interchange are available on the project website:

<http://www.hinckleynrfi.co.uk/>

The DCO application and documents relating to the examination of the proposed development can be viewed on the Planning Inspectorate's National Infrastructure Planning website:

<https://infrastructure.planninginspectorate.gov.uk/projects/east-midlands/hinckley-national-rail-freight-interchange/>

Tritax Symmetry (Hinckley) Limited

**HINCKLEY NATIONAL
RAIL FREIGHT INTERCHANGE**

Environmental Statement:

Contents and glossary

CONTENTS

1. Introduction	1-1 to 1-14
➤ Overview	
➤ Project status	
➤ The Applicant	
➤ Environmental Impact Assessment and The ‘Rochdale Envelope’	
➤ The EIA	
➤ Consultation	
➤ The project team	
➤ Report structure	
2. Site description	2-1 to 2-12
➤ Introduction	
➤ Land inside the main order limits	
➤ The surrounding area	
➤ Environmental designations	
➤ Works to highways and railway level crossings	
3. Project description	3-1 to 3-39
➤ Introduction	
➤ Purpose of a strategic or national rail freight interchange	
➤ Overview of the Proposed Development	
➤ Development parameters	
➤ Elements of the Proposed Development	

- Construction and phasing
- The rail freight interchange in operation
- Decommissioning

4. Site selection and project evolution **4-1 to 4-57**

- Introduction
- Context
- Consultation
- Site options appraisal criteria
- Assessment of site options
- Assessment and the choice of site
- Master planning options for the main HNRFI site
- Link roads and off-site highways improvements
- Conclusion

5. Need and policy **5-1 to 5-14**

- Introduction
- Infrastructure planning
- Other relevant provisions
- National planning policy
- Local planning policy
- Non-statutory documents
- Summary

6. EIA scope and general methodology **6-1 to 6-13**

- Introduction
- The scope of the EIA
- Habitat regulations assessment screening
- Assessment methodology
- In-combination and cumulative effects
- Transboundary effects
- Assumptions and limitations

7. Land use and socio-economics **7-1 to 7-92**

- Introduction
- Methodology and data sources
- Legislation, policy and guidance
- Consultation
- Baseline assessment
- Potential socio-economic effects
- Proposed mitigation
- Residual environmental effects

- Climate Change
- Cumulative effects
- Conclusions

8. Transport and traffic **8-1 to 8-126**

- Introduction
- Methodology and data sources
- Relevant law, policy and guidance
- Baseline conditions
- Future baseline
- Assessment of likely significant effects
- Proposed mitigation
- Residual environmental effects
- Cumulative and in-combination effects
- Climate Change
- Summary and conclusions

9. Air quality **9-1 to 9-93**

- Introduction
- Methodology and data sources
- Relevant law, policy and guidance
- Baseline conditions
- Potential significant environmental effects of the proposals
- Proposed mitigation
- Residual environmental effects
- Cumulative and in-combination effects
- Climate Change
- Summary and Conclusions

10. Noise and vibration **10-1 to 10-131**

- Introduction
- Methodology and data sources
- Relevant law, policy and guidance
- Baseline conditions
- Potential significant environmental effects of the proposals
- Proposed mitigation
- Residual environment effects
- Cumulative and in-combination effects
- Climate Change
- Summary and conclusion

11. Landscape and visual effects **11 -1 to 11-94**

- Introduction
- Methodology and data sources
- Consultation
- Relevant law, policy and guidance
- Baseline conditions
- Potential significant environmental effects of the proposals
- Proposed mitigation
- Residual landscape and visual effects
- Consideration of night time effects
- Cumulative and in-combination effects
- Climate Change
- Summary and conclusion

12. Ecology and biodiversity **12-1 to 12-91**

- Introduction
- Methodology and data sources
- Relevant law, policy and guidance
- Baseline conditions
- Potential significant environmental effects of the proposals
- Proposed mitigation
- Residual environmental effects
- Cumulative and in-combination effects
- Climate Change
- Summary and conclusions

13. Cultural heritage **13-1 to 13-75**

- Introduction
- Methodology and data sources
- Relevant law, policy and guidance
- Consultations
- Baseline conditions
- Potential significant environmental effects of the proposals
- Proposed mitigation
- Residual environmental effects
- Cumulative and in combination effects
- Climate Changes
- Summary and conclusions

14. Surface water and flood risk **14-1 to 14-69**

- Introduction
- Methodology and data sources
- Relevant law, policy and guidance
- Baseline conditions

- Potential significant environmental effects of the proposals
- Proposed mitigation
- Likely residual environmental effects
- Cumulative and in-combination effects
- Climate Change
- Summary and conclusions

15. Hydrogeology **15-1 to 15-45**

- Introduction
- Methodology and data sources
- Relevant law, policy and guidance
- Baseline conditions
- Potential significant environmental effects of the proposals
- Proposed mitigation
- Residual environmental effects
- Cumulative and in-combination effects
- Climate Change
- Summary and conclusions

16. Geology, soils and contaminated land **16-1 to 16-88**

- Introduction
- Methodology and data sources
- Relevant law, policy and guidance
- Baseline conditions
- Potential significant environmental effects of the proposal
- Proposed mitigation
- Residual environmental effects
- Cumulative and in-combination effects
- Climate Change
- Summary and conclusions

17. Materials and waste **17-1 to 17-44**

- Introduction
- Methodology and data sources
- Relevant law, policy and guidance
- Baseline conditions
- Potential significant environmental effects of the proposals
- Proposed mitigation
- Residual environmental effects
- Cumulative and in-combination effects
- Summary and conclusions

18. Energy and climate change **18-1 to 18-93**

- Introduction
- Legislation, policy and guidance
- Approach and methodology
- Relevant baseline conditions
- Significance of effects
- Proposed mitigation
- Residual environmental effects
- Cumulative and in combination effects
- Summary and conclusions

19. Major accidents and disasters **19-1 to 19-24**

- Introduction
- EIA scoping opinion
- Consultation
- Approach and consideration of vulnerability
- Summary

20. Cumulative and in-combination effects **20-1 to 20-18**

- Introduction
- Methodology
- Cumulative impacts
- In-combination effects
- Transboundary effects

21. Conclusion **21-1 to 21-21**

- Conclusion
- Mitigation and commitments
- Consultation
- Environmental statement structure and contents

Non-Technical Summary

Maps

- Map 4.1: Growth areas identified in the Strategic Economic Plan 2014.
- Map 4.2: Location plan of the seven potential SRFI locations appraised by the Applicant
- Map 4.3: Option 1 – Brooksby
- Map 4.4: Option 2 - Syston Junction / Fosse Way
- Map 4.5: Option 3 – Barkby Lane
- Map 4.6: Option 4 – Whetstone
- Map 4.7: Option 5 – Littlethorpe

- Map 4.8: Option 6 – Croft
- Map 4.9: Option 7 – Hinckley / Burbage
- Map 4.10: Indicative location of the A47 and Eastern Villages link road options that were the subject of a public consultation in summer 2019.

Figures

- Figure 1.1: Order Limits for the DCO Application
- Figure 2.1: Descriptive terms for used for land inside the Main Order Limits
- Figure 3.1: Illustrative master plan
- Figure 3.2: Proposed development parameters plan
- Figure 3.3: Highways and junction improvement plans
- Figure 3.4: Examples of Tritax Symmetry developments
- Figure 4.1: Preliminary HNRFI master plan - May 2018
- Figure 4.2: Master plan for informal consultation late 2018
- Figure 4.3: Alternative master plan layout late 2018
- Figure 4.4: Alternative master plan layout May 2019
- Figure 4.5: The master plan as it had evolved by late 2020
- Figure 4.6: Master plan presented during statutory public consultation in January 2022
- Figure 7.1: Average distance travelled to work for those employed in the construction sector in Leicestershire, 2011 (in text)
- Figure 7.2: A 30km radius from the Main Order Limits in relation to local authority boundaries (in text)
- Figure 7.3: Modelled HNRFI employee trips to HNRFI in 2036 AM peak (in text)
- Figure 7.4: Main Order Limits and study area for land-use and accessibility impacts (in text)
- Figure 7.5: HNRFI location in relation to the Leicester and Leicestershire Strategic Plan (in text)
- Figure 7.6: Growth Areas in Leicester and Leicestershire LEP (in text)
- Figure 7.7: Employment by sector for residents of the Operational Employment Study Area and England, 2011 (%) (in text)
- Figure 7.8: Estimated number of residents and employees in the construction sector in the construction study area (in text)
- Figure 7.9: Occupational distribution in manufacturing and transport and storage
- Figure 7.10: Share of logistics jobs (2018) (in text)
- Figure 7.11: Location of the HNRFI in the Leicester and Leicestershire Housing Market Area and Functional Economic Market Area (in text)
- Figure 7.12: Indices of multiple deprivation in the Study Area (in text)
- Figure 7.13: Cumulative Business Rates Revenues discounted at 3.5% per annum (in text)
- Figure 8.1: Transport documents supporting the ES (in text)
- Figure 8.2: Defining the area of influence; level of change (in text)
- Figure 8.3: Significance of traffic effects (in text)
- Figure 8.4: Beneficial effects; Traffic reduction (in text)
- Figure 9.1: Construction Phase Dust Buffers
- Figure 9.2: Construction Phase Road Traffic Emissions Study Area

- Figure 9.3: Construction Phase Road Traffic Emissions Assessment - Human Receptors
- Figure 9.4: Construction Phase Road Traffic Emissions Assessment - Ecological Designations
- Figure 9.5: Operational Phase Road Traffic Emissions Study Area
- Figure 9.6: Operational Phase Road Traffic Emissions Human Receptors - Harborough, Daventry and Rugby Local Authority Areas
- Figure 9.7: Operational Phase Road Traffic Emissions Human Receptors - Nuneaton and Bedworth Coventry, North Warwickshire and Tamworth Local Authority Areas
- Figure 9.8: Operational Phase Road Traffic Emissions Human Receptors - Charnwood, Erewash and North West Leicestershire Local Authority Areas
- Figure 9.9: Operational Phase Road Traffic Emissions Human Receptors - Blaby Local Authority Area
- Figure 9.10: Operational Phase Road Traffic Emissions Human Receptors - Hinckley and Bosworth Local Authority Area
- Figure 9.11: Operational Phase Road Traffic Emissions Human Receptors - Hinckley Town Centre Close Up
- Figure 9.12: Operational Phase Road Traffic Emissions Ecological Transects - Northern Extent of Air Quality Study Area
- Figure 9.13: Operational Phase Road Traffic Emissions Ecological Transects - Middle Extent of Air Quality Study Area
- Figure 9.14: Operational Phase Road Traffic Emissions Ecological Transects - Southern Extent of Air Quality Study Area
- Figure 9.15: Operational Phase Back-up CHP Emissions - Flue Location and Receptors
- Figure 9.16: Operational Phase Road Traffic Emissions - Human Receptors Total NO₂ Concentration - 2026
- Figure 9.17: Operational Phase Road Traffic Emissions - Human Receptors Total PM₁₀ Concentration - 2026
- Figure 9.18: Operational Phase Road Traffic Emissions - Human Receptors Total PM_{2.5} Concentration - 2026
- Figure 9.19: Operational Phase Road Traffic Emissions - Human Receptors Total NO₂ Concentration - 2036
- Figure 9.20: Operational Phase Road Traffic Emissions - Human Receptors Total PM₁₀ Concentration - 2036
- Figure 9.21: Operational Phase Road Traffic Emissions - Human Receptors Total PM_{2.5} Concentration - 2036
- Figure 9.22: Operational Phase Road Traffic Emissions - Human Receptors - Improvement in Concentrations
- Figure 9.23: Operational Phase Road Traffic Emissions - Human Receptors - No Change in Concentrations
- Figure 9.24: Operational Phase Road Traffic Emissions - Human Receptors - Deterioration in Concentrations
- Figure 9.25: Operational Phase Road Traffic Emissions - Main HNRFI Site Annual Mean NO₂ Concentrations - Opening Year
- Figure 9.26: Operational Phase Road Traffic Emissions - Main HNRFI Site Annual Mean PM₁₀ Concentrations - Opening Year
- Figure 9.27: Operational Phase Road Traffic Emissions - Main HNRFI Site Annual Mean

PM2.5 Concentrations - Opening Year

- Figure 9.28: Operational Phase Road Traffic Emissions - Main HNRFI Site Annual Mean NO₂ Concentrations - Future Year
- Figure 9.29: Operational Phase Road Traffic Emissions - Main HNRFI Site Annual Mean PM₁₀ Concentrations - Future Year
- Figure 9.30: Operational Phase Road Traffic Emissions - Main HNRFI Site Annual Mean PM_{2.5} Concentrations - Future Year
- Figure 10.1: Noise Sensitive Receptor Locations
- Figure 10.2: Noise and Vibration Monitoring Locations
- Figure 10.3: Operational Noise Contours without Mitigation dB LAeq 16h at 1.5m
- Figure 10.4: Short-term Development Generated Road Traffic Assessment without Mitigation - Noise Contours without development dB LA₁₀, 18hr
- Figure 10.5: Short-term Development Generated Road Traffic Assessment without Mitigation - Noise Contours *with development* dB LA₁₀, 18hr
- Figure 10.6: Short-term Development Generated Road Traffic Assessment without Mitigation - Noise Contours difference between with and without development dB LA₁₀, 18hr
- Figure 10.7: Long-term Development Generated Road Traffic Assessment without Mitigation - Noise Contours without development dB LA₁₀, 18hr
- Figure 10.8: Long-term Development Generated Road Traffic Assessment without Mitigation - Noise Contours with development dB LA₁₀, 18hr
- Figure 10.9: Long-term Development Generated Road Traffic Assessment without Mitigation - Noise Contours difference between with and without development dB LA₁₀, 18hr
- Figure 10.10: Acoustic Barrier Locations
- Figure 10.11: Short-term Development Generated Road Traffic Assessment with Mitigation - Noise Contours with development dB LA₁₀, 18hr
- Figure 10.12: Short-term Development Generated Road Traffic Assessment with Mitigation - Noise Contours difference between with and without development dB LA₁₀, 18hr
- Figure 10.13: Long-term Development Generated Road Traffic Assessment with Mitigation - Noise Contours with development dB LA₁₀, 18hr
- Figure 10.14: Long-term Development Generated Road Traffic Assessment with Mitigation - Noise Contours difference between with and without development dB LA₁₀, 18hr
- Figure 10.15: Operational Noise Contours with A47 Link Road and Mitigation dB LAeq, 16h at 1.5m
- Figure 11.1: Site Location and Site Boundaries
- Figure 11.2: Environmental Planning Considerations
- Figure 11.3: Public Rights of Way and Informal Open Space
- Figure 11.4: Site Character and Context
- Figure 11.5: Published Landscape Character Areas
- Figure 11.6: Topography
- Figure 11.7: Zone of Theoretical Visibility of DCO Site in its Current Form
- Figure 11.8: Zone of Theoretical Visibility of Built Development Parameters within Main HNRFI Site

- Figure 11.9: Photoviewpoint Locations
- Figure 11.10: Photoviewpoints
- Figure 11.11: Potential Residential Receptors
- Figure 11.12: Night -Time View and Photomontages
- Figure 11.13: Public Rights of Way Assessment
- Figure 11.14: Public Rights of Way Strategy
- Figure 11.15: Public Rights of Way Strategy - Rail Crossings
- Figure 11.16: Proposed Photomontages
- Figure 11.17: Illustrative Landscape Sections AA to GG
- Figure 11.18: Illustrative Railport Sections HH and II
- Figure 11.19: Agricultural Land Classification
- Figure 11.20: Illustrative Landscape Strategy
- Figure 11.21: Significant Visual Effects
- Figure 12.1: Statutory Designated Sites
- Figure 12.2: Non-statutory Designated Sites
- Figure 12.2: Extended Phase 1 Survey
- Figure 12.4: Linear Habitats
- Figure 12.5: Winter Bird Survey - December 2020
- Figure 12.6: Winter Bird Survey - January 2021
- Figure 12.7: Winter Bird Survey - February 2021
- Figure 12.8: Breeding Bird Survey - April 2021
- Figure 12.9: Breeding Bird Survey - May 2021
- Figure 12.10: Breeding Bird Survey - June 2021
- Figure 12.11: Bat Transect Routes and Static Detector Locations 2021
- Figure 12.12: Bat Roost Assessment (Buildings)
- Figure 12.13: Bat Roost Assessment (Trees)
- Figure 12.14: Bat Transect Survey Results April 2021 (Dusk)
- Figure 12.15: Bat Transect Survey Results May 2021 (Dusk)
- Figure 12.16: Bat Transect Survey Results June 2021 (Dusk)
- Figure 12.17: Bat Transect Survey Results July 2021 (Dusk)
- Figure 12.18: Bat Transect Survey Results August 2021 (Dusk)
- Figure 12.19: Bat Transect Survey Results August 2021 (Dawn)
- Figure 12.20: Bat Transect Survey Results September 2021 (Dusk)
- Figure 12.21: Badger Survey
- Figure 12.22: Great Crested Newt Survey
- Figure 12.23: Reptile Survey
- Figure 12.24: Ecological Mitigation Proposals
- Figure 13.1: DCO Site Boundaries and Off-site Junction Locations
- Figure 13.2: Designated Heritage Assets and Zone of Theoretical Visibility
- Figure 13.3: Historic Built Form within the Main HNRFI Site
- Figure 13.4: Known Heritage Assets
- Figure 13.5: Historic Maps Extracts
- Figure 13.6: Cultural Heritage Images
- Figure 14.1: Study area
- Figure 14.2: Flood map for planning
- Figure 14.3: Risk from surface water map

- Figure 14.4: Main HNRFI Site Concept Surface Water Drainage Strategy
- Figure 14.5: Main HNRFI Site Concept Foul Water Drainage Strategy
- Figure 14.6: A47 Link Road Concept Drainage Strategy
- Figure 14.7: M69 Junction 2 Concept Drainage Strategy
- Figure 15.1: Potential sources of contamination
- Figure 16.1: Proposed Plateau Levels Isopachtyes
- Figure 17.1: Regional non-hazardous / inert landfill capacity and received waste (in text)
- Figure 17.2: Regional and National Hazardous Waste Landfill capacity and received waste (in text)
- Figure 17.3: Regional Landfill capacity of sites with SNRHW cells and received waste (in text)
- Figure 18.1: Study area (vulnerability to climate change) (in text)
- Figure 18.1: Average high and low monthly temperatures in Hinckley between 2009-2021 (in text)
- Figure 18.3: Average monthly precipitation and average number of rainy days in Hinckley between 2009-2021 (in text)
- Figure 18.4: Average wind direction at Hinckley (in text)
- Figure 18.5: Average monthly humidity comfort levels in Hinckley (in text)
- Figure 18.6: EIA Hierarchy for managing project related GHG emissions (in text)
- Figure 20.1: Long List Cumulative Map

Appendices

- Appendix 3.1: Rail Operations Report
- Appendix 3.2: Lighting Strategy
- Appendix 6.1: EIA Scoping Report - 2020
- Appendix 6.2: EIA Scoping Opinion - 2020
- Appendix 7.1: Health and Equality Briefing Note
- Appendix 8.1: Transport Assessment
- Appendix 8.2: Framework Site Wide Travel Plan
- Appendix 9.1: Air Quality Glossary of Terms
- Appendix 9.2: Air Quality National Legislation and Policy
- Appendix 9.3: Air Quality Construction Phase Dust Assessment
- Appendix 9.4: Air Quality Road Traffic Emissions Assessment - Existing Sensitive Human Receptor Locations - Construction Phase and Operational Phase
- Appendix 9.5: Air Quality Road Traffic Emissions Assessment - Ecological Transect Locations - Construction Phase and Operational Phase
- Appendix 9.6: Air Quality East Midlands Airport Meteorological Data Wind Rose
- Appendix 9.7: Defra background map concentrations used in the air quality assessment
- Appendix 9.8: Air Quality Air Dispersion Model Verification
- Appendix 9.9: Air Quality Back-Up CHP Assessment Building Parameters
- Appendix 9.10: Local Authority Air Quality Monitoring Data within the Study Area
- Appendix 9.11: Air Quality Operational Phase Road Traffic Emissions Assessment - Human Receptor Results
- Appendix 9.12: Air Quality Construction Phase Road Traffic Emissions - Ecological Results

- Appendix 9.13: Air Quality Operational Phase Road Traffic Emissions Assessment - DMRB Magnitudes Human Results
- Appendix 9.14: Air Quality Operational Phase Road Traffic Emissions Assessment - Ecological Assessment Results
- Appendix 9.15: Air Quality Operational Phase Back-Up CHP Emissions Assessment - Human Receptor Results
- Appendix 9.16: Air Quality Operational Phase Back-Up CHP Emissions Assessment - Ecological Receptor Results.pdf
- Appendix 9.17: Air Quality Operational Phase Cumulative Impacts - Human and Ecological Receptors
- Appendix 10.1: Noise and Vibration Glossary
- Appendix 10.2: Policy, Legislation and Guidance
- Appendix 10.3: Hinckley Consultation Response - BDC_P01
- Appendix 10.4: Hinckley Consultation Response - HBBC_P01
- Appendix 10.5: Hinckley Survey Method Statement_Issue_P02
- Appendix 10.6: Northampton ES Noise Vib App 8.5 - Sum Assumptions SRFI Operation
- Appendix 10.7: Proof of Evidence of Simon Stephenson on Noise
- Appendix 10.8: Noise Assessment
- Appendix 10.9: Container Refrigeration Unit Technical Specifications
- Appendix 10.10: Summary Results
- Appendix 10.11: Construction Traffic
- Appendix 11.1: Landscape and Visual Baseline Report
- Appendix 11.2: Public Rights of Way Appraisal and Strategy
- Appendix 11.3: Soils and Agricultural Land Quality Report
- Appendix 11.4: Arboricultural Impact Assessment
- Appendix 11.5: Schedule of Landscape and Visual Construction Effects
- Appendix 11.6: Schedule of Landscape and Visual Operational Effects
- Appendix 12.1: Ecology Baseline
- Appendix 12.2: Biodiversity Impact Assessment Calculations
- Appendix 12.3: Shadow Habitat Regulations Assessment
- Appendix 12.4: Access Management Plan
- Appendix 13.1: Archaeological Assessment
- Appendix 13.2: Heritage Assessment
- Appendix 13.3: Geophysical Survey Report (Phase 1)
- Appendix 13.4: Geophysical Survey Report (Phase 4)
- Appendix 13.5: Evaluation Report (Phase 1)
- Appendix 13.6: Evaluation Report (Phase 2)
- Appendix 13.7: Archaeological Mitigation Strategy
- Appendix 14.1: Flood Risk Assessment
- Appendix 14.2: Sustainable Drainage Statement
- Appendix 15.1: Phase 1 Geo-Environmental Assessment
- Appendix 15.2: Ground Investigation Report
- Appendix 18.1: Energy Strategy
- Appendix 18.2: RIBA Stage 1 Embodied Carbon Report
- Appendix 18.3: Assumptions for Emissions from Vehicles and Rail During Construction Stage and Operational Phase

- Appendix 18.4: IEMAs Steps Involved in Assessing Climate Change Resilience and Adaptation in EIA and Determining the Significance
- Appendix 18.5: Sensitive Receptors to Climatic Variables and Hazards
- Appendix 18.6: Potential Effects of Climate Change and Associated Hazards on HNRFI
- Appendix 18.7: District, Regional and National GHG Emissions (2021)
- Appendix 18.8: Embedded Mitigation Measures to Improve Resilience
- Appendix 18.9: Significance Assessment for the Resilience to Climate Change
- Appendix 20.1: Long List of Cumulative Sites
- Appendix 20.2: Stage 3 Cumulative Assessment

GLOSSARY AND ABBREVIATIONS

Full Text	Acronym/ Abbreviation	Notes
Tritax Symmetry (Hinckley) Limited	TSH	When referring to the 'applicant'.
Hinckley National Rail Freight Interchange	HNRFI	The Strategic Rail Freight Interchange proposed in the Application.
Strategic Rail Freight Interchange	SRFI	A large multi-purpose rail freight interchange and distribution centre linked into both the rail and trunk road system
The DCO Site		All of the land inside the Order Limits.
Main HNRFI Site		All of the land inside the Order Limits between the Leicester to Hinckley railway to the north-west and the M69 motorway to the south-east, in which the proposed SRFI would be located, as indicated on figure 2.1 (document reference 6.3.2.1)
Main Order Limits		The Order Limits that contain the Main HNRFI Site together with the corridor of a proposed link road to the B4668/A47 Leicester Road (the 'A47 Link Road'), proposed works to M69 Junction 2 and a section of the B4669 Hinckley Road towards the village of Sapcote.
Principal Development		<p>SRFI</p> <ul style="list-style-type: none"> - New rail infrastructure providing access to a series of parallel sidings - Intermodal freight terminal ('railport') capable of accommodating up to 16 trains of up to 775m in length - Hard surfaces areas for container storage - Up to 850,000m² GIA of warehousing and ancillary buildings with a total footprint of 650,000m² & up to 200,000m² of mezzanine floorspace, incorporating roof-mounted photovoltaic arrays with a generation capacity of up to 42.4 megawatts (MW), providing direct supply or exporting power to battery storage

Full Text	Acronym/ Abbreviation	Notes
		<ul style="list-style-type: none"> - Energy centre incorporating an electricity sub-station connected to the local distribution network, battery storage and a gas-fired heat and power plant (designed to be ready for 100% hydrogen in the grid gas supply) with an electrical generation capacity up to 5 MW - Lorry park with fuel filling station - Terrain remodelling, hard and soft landscape works, amenity water features and planting - Noise attenuation measures – acoustic barriers up to 6m in height - Pedestrian, equestrian and cycle access routes and infrastructure <p>Highway Works</p> <ul style="list-style-type: none"> - Works to M69 Junction 2 comprising reconfiguration of existing roundabout, addition of northbound and southbound slip roads - Link road ('the A47 Link Road') from the modified M69 Junction 2 to the B4668 / A47 Leicester Road, with new bridge over railway - Modifications to several junctions on the local road network
Associated Development	AD	<ul style="list-style-type: none"> - utility compounds, plant and service infrastructure; - drainage works including groundwater retention ponds, underground attenuation tanks and swales. A swale is a grassed depression in the ground that provides temporary storage for storm water and reduces peak flows; - habitat creation and enhancement and public access, including the provision of amenity open space at the south-western extremity of the SRFI near Burbage Wood and a new route for pedestrians, cyclists and horse riders from a point south of

Full Text	Acronym/ Abbreviation	Notes
		<p>Elmesthorpe to Burbage Common;</p> <ul style="list-style-type: none"> - works affecting existing pedestrian level crossings on the Leicester to Hinckley railway at Thorney Fields Farm north-west of Sapcote, Elmesthorpe, near Billington Rough to the south of Elmesthorpe and between Burbage and Hinckley; - security and safety provisions inside the SRFI including fencing and lighting
Proposed Development	-	The Principal Development and the Associated Development described in the DCO application (and more specifically in Schedule 1 of the draft Order)
Off-site highway works	-	Any Modification to junctions and highways outside of the Main Order Limits in response to the HNRFI development and M69 Junction 2 works.
Other works	-	Landscape and planting works, ecological mitigation, drainage balancing ponds, heavy goods vehicle parking area, energy centre and footpath, cycleway and bridleway routes and connections.
Above Ordnance Datum	AOD	Height of land surface above sea level.
Additionality	-	The extent to which something happens as a result of an intervention (in this case the proposed HNRFI) that would not have occurred in the absence of the intervention.
Agricultural Land Classification	ALC	A system used in England and Wales to grade the quality of land for agricultural use, according to the extent by which physical or chemical characteristics impose long-term limitations. It is used to enable informed choices to be made about its future use in the planning system

Full Text	Acronym/ Abbreviation	Notes
Air Quality Assessment	AQA	An assessment undertaken to establish the baseline air quality, undertaken ahead of a development that has the potential to impact the existing air quality.
Air Quality Limit Value Regulations 2010	-	UK regulations to limit the levels of air borne pollutants emitted from industries.
Air Quality Management Area	AQMA	An area designated as being at risk of not meeting air quality standards by a local authority.
Air Quality Management Plan	AQMP	A plan developed to improve the air quality in the air quality management area.
Air Quality Modelling and Assessment Unit	AQMAU	An Environment Agency team that targets air quality related issues.
Air Quality Strategy	AQS	The AQS for England, Scotland, Wales and Northern Ireland provides details of national air quality standards and objectives for a number of local air pollutants.
Ancient Woodland	-	A woodland that has existed continuously since 1600 or before.
Annual Average Daily Traffic	AADT	Measurement unit for the total volume of vehicle traffic to indicate how busy the road is.
Annual Average Flow Rate for surface water runoff	QBAR	-
Application	-	The application for the Proposed Development made to the Secretary of State under the Planning Act 2008.
Applications: Prescribed Forms and Procedure Regulations	APFP	The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009, as amended, which prescribe various matters in connection with the making of an application for development

Full Text	Acronym/ Abbreviation	Notes
		consent under the Planning Act 2008.
Asbestos Containing Material	ACM	Any material containing more than 1% asbestos.
Automatic Traffic Count	ATC	Means of determining traffic levels in the vicinity.
Automatic Urban and Rural Network	AURN	Air quality monitoring site.
B8	B8	Storage and distribution uses (a classification of uses under the Town and Country Planning Order 1987)
Best and Most Versatile Agricultural Land	BMV	Agricultural land within Grades 1, 2 and Subgrade 3a of the ALC
Best Available Technique	BAT	The most effective and advanced stage in the development of activities and their methods of operation.
Biodiversity Action Plan	BAP	Plan concerned with the protection of identified species and habitats.
Blaby District Council	BDC	Local Authority in whose administrative boundary most of the Proposed Development is situated.
British Geological Survey	BGS	The UK public body responsible for all aspects of geoscience.
BS 4142	-	Method for Rating Industrial Noise Affecting Mixed Residential and Industrial Areas (1997).

Full Text	Acronym/ Abbreviation	Notes
BS 8233	-	Guidance on sound insulation and noise reduction for buildings (2014).
BS5228	-	Code of Practice for Noise and Vibration Control on Construction and Open Sites 2009 (2009).
BS5873	-	Guidance in relation to trees and design, demolition and construction
CadnaA	-	Noise modelling software
Candidate Local Wildlife Sites	cLWS	Wildlife rich sites nominated for their local nature conservation value.
CAoL Guidance	-	Department of Communities and Local Government guidance 'Planning Act 2008: Guidance related to procedures for the compulsory acquisition of land' (September 2013).
Carbon Dioxide	CO ₂	A primary greenhouse gas emitted through human activities as well as natural sources.
Carbon Monoxide	CO	A colourless, highly poisonous, odourless, tasteless, flammable gas.
Civil Aviation Authority	CAA	A statutory corporation that oversees and regulates civil aviation in the UK.
Classified Turning Counts	CTC	Measurement of vehicle traffic in particular at junctions.
Coal Authority	-	A non-governmental body that manages coal mining operations and coal reserves throughout the UK.

Full Text	Acronym/ Abbreviation	Notes
Code of Construction Practices	CoCP	A guidance document that sets out standards and procedures for managing environmental impact of constructing major schemes.
Commercial and Industrial waste	C&I	A type of waste from businesses that does not include construction and demolition waste.
Committee on the Medical Effects of Air Pollutants	COMEAP	An advisory body that advises the UK government on all matters concerning the health effects of air pollutants.
Common Bird Census	CBC	A standardised methodology to map breeding bird territories.
Conceptual Site Model	CSM	A model that identifies the possible pathways by which a contaminant from a particular source can affect a particular receptor.
Conservation Areas	CA	An area of special architectural and historic interest designated by the local planning authority.
Conservation of Habitats and Species Regulations 2017	Habitats Regulations	UK legislation aimed at the conservation of habitats and species in order to protect biodiversity.
Construction and Demolition Waste	C&D	A type of construction waste as identified by the Environment Agency.
Construction Environmental Management Plan	CEMP	A plan by the contractor describing how the environmental impacts of construction activities of a project will be minimised and mitigated.
Construction Stage	-	The construction stage of the Proposed Development begins with enabling works, which will include site set-up and groundworks.
Construction Traffic Management Plan	CTMP	A plan by the construction contractor for managing construction traffic that is submitted to the relevant Highway Authority for approval.

Full Text	Acronym/ Abbreviation	Notes
Cumulative Effects Assessment	CEA	A sub-discipline of environmental impact assessment that is concerned with appraising the collective effects of human activities and natural processes on the environment.
Daventry International Rail Freight Terminal	DIRFT	A rail-road intermodal freight terminal with an associated warehousing estate in Northamptonshire, England
dB(A)	-	A-weighted decibel – a correction applied to each frequency between 20 Hz and 20 kHz that effectively represents the way the human ear works.
Deadweight	-	An estimate of what level of target outputs/outcomes would be produced if the intervention did not go ahead.
Decibel	dB	Logarithmic scale for measuring sound levels.
Department for Environment, Food and Rural Affairs	DEFRA	The UK Government department responsible for environmental protection, food production and standards, agriculture, fisheries and rural communities in the UK.
Department for Transport	DfT	Government department responsible for transport.
Deposition	-	The main pathway for removing pollutants from the atmosphere, by settling on land.
Design Manual for Roads and Bridges	DMRB	A suite of technical documents produced by the Highways Agency that include guidance for environmental appraisal that are also used for non- highways schemes and as such are commonly used in EIA.
Determinand	-	A substance or parameter that is determined analytically, e.g. arsenic concentration in soil, pH of water, concentration of a particular gas in air quality modelling.

Full Text	Acronym/ Abbreviation	Notes
Development Consent Order	DCO	An order made under the Planning Act 2008 granting development consent for a Nationally Significant Infrastructure Project
Development Plan Documents	DPD	Includes Blaby Development Plan (including the Core Strategy 2013 and saved policies from Blaby District Local Plan 1999) and Hinckley and Bosworth Local Development Framework Core Strategy 2009.
Displacement	-	The proportion of intervention outputs accounted for by reduced outputs elsewhere in the target area.
East Coast Mainline	ECML	A 393-mile long (632 km) electrified railway between London and Edinburgh via Peterborough, Doncaster, York, Darlington, Durham and Newcastle.
East Midlands Gateway Rail Freight Interchange	EMGRFI	A 700-acre (280 ha) rail freight terminal and intermodal freight centre situated between Derby, Nottingham and Leicester in the East Midlands.
Ecological Impact Assessment	EcIA	The process through which the potential impacts resulting from a project are identified, quantified, and assessed through appropriate ecology surveys.
Electric and Magnetic Fields	EMF	EMF's comprise electric and magnetic fields. Electric fields are the result of voltages applied to electrical conductors and equipment. Magnetic fields are produced by the flow of electric current.
Emission	-	The direct or indirect release of substances, vibrations, heat or noise from individual or diffuse sources into air, water or onto land, e.g. pollution may be discharged into the atmosphere from a stack or vent.
Emission Limit Value	ELV	Legal enforcement limit on the physical, chemical or biological characteristics of a point source of emission to water or air.

Full Text	Acronym/ Abbreviation	Notes
Energy Efficiency Directive 2012	-	The Directive establishes a framework of measures for the promotion of energy efficiency within the European Union.
Environment Agency	EA	The non-departmental government body responsible for protection and enhancement of the environment in England and Wales.
Environmental DNA testing	eDNA	Testing DNA that is collected from a variety of environmental samples such as soil, seawater, snow or air, rather than directly sampled from an individual organism, used as a tool to detect wildlife that were otherwise unseen.
Environmental Health Officer	EHO	A local authority health professional responsible for carrying out measures for protecting public health.
Environmental Impact Assessment	EIA	The process of evaluating the likely significant environmental impacts of a proposed project or development as part of the planning process.
Environmental Permit	EP	A permit required in accordance with the Environmental Permitting Regulations.
Environmental Permitting Regulations	EPR	The Environmental Permitting (England and Wales) Regulations 2016 (SI 2016/1154) as amended that regulates practices that have pollution potential through a permitting system.
Environmental Protection Act 1990	EPA	The Act that covers, amongst other things, the regulation of contaminated land in the UK.
Environmental Quality Standards	EQS	The concentration of a particular pollutant or group of pollutants in water, sediment or biota which should not be exceeded in order to protect human health and the environment.
Environmental Statement	ES	The document which reports the process, findings and recommendations of the EIA carried out to assess the environmental impacts of the Proposed Development

Full Text	Acronym/ Abbreviation	Notes
		informed by the Scoping Opinion.
Environmentally Sensitive Area	ESA	A designation for agricultural areas needing special protection by virtue of their landscape, wildlife or historical value.
Felixstowe to Nuneaton freight line	F2N	The mainline railway to which the project connects.
Flood Defence Consent	FDC	A consent required by the Environment Agency, for construction or maintenance work on over, under or near a main river (usually within 8-10 metres).
Flood Risk Assessment	FRA	An assessment that determines the risk of flooding to a proposed project.
Framework Site Wide Travel Plan	FSWTP	A plan by the construction contractor for managing staff travel during the construction stage of a project (e.g. car sharing, public transport) that is submitted to the relevant Highway Authority for approval.
Freight Market Study	FMS	Network Rail Study from October 2013 setting out annual average growth forecasts for the intermodal subsectors.
Full Time Equivalent	FTE	The equivalent number of full time jobs provided by a project - e.g. two half-time jobs equates to one FTE.
Functional Economic Market Area	FEMA	Area not constrained by administrative boundaries but reflecting the way the economy works - in this case, Leicester and Leicestershire.
Governance for Rail Investment Projects	GRIP	Network Rail's delivery mechanism for projects on operational railways.

Full Text	Acronym/ Abbreviation	Notes
Great Crested Newt	GCN	A species of newt protected by European Legislation.
Green Infrastructure	GI	A strategically planned network of natural and semi-natural areas with other environmental features designed and managed to deliver a wide range of ecosystem services
Gross External Area	GEA	Measure of floorspace
Gross Internal Area	GIA	The area of a building measured to the internal face of the perimeter walls at each floor level.
Gross Value Added	GVA	Gross value added is the measure of the value of goods and services produced in an area, industry or sector of an economy.
Groundwater Source Protection Zone	GSPZ	Areas around groundwater abstraction sources that are defined in order to help protect drinking water from contamination.
Guidance for the Environmental Assessment of Road Traffic	GEART	The IEMA guidance on the environmental assessment of road traffic.
Guidance on Transport Assessment	GTA	Department for Transport guidance dated March 2007 on the preparation of Transport Assessments as archived 22 October 2014 and replaced by NPPG "Transport evidence bases in plan making".
Guidelines for Landscape and Visual Impact Assessment, 3rd Edition	GLVIA	Guidance produced by the Landscape Institute and the Institute for Environmental Management and Assessment dated 17 April 2013.
Habitat Regulations Assessment	HRA	An assessment required under the European Directive 92/43/EEC.

Full Text	Acronym/ Abbreviation	Notes
Habitat Suitability Index	HSI	A method for assessing the suitability of ponds for their potential to support Great Crested Newts.
Harborough District Council	HDC	Local Authority covering Harborough to the east of the HNRFI, which includes some off-site highway works.
Health and Safety Executive	HSE	The non-departmental government body responsible for workplace safety in the UK.
Health Impact Assessment	HIA	A practical approach used to judge the potential health effects of project on a population, particularly on vulnerable or disadvantaged groups.
Heavy Goods Vehicle	HGV	A truck with a gross combination mass of more than 3500 kg.
Hectare	Ha	Unit of measurement equivalent to 100 acres.
Highway Authority	HA	The relevant body responsible for the non-core road network (i.e. roads other than trunk roads and motorways), usually the county council in two-tier authority areas.
Hinckley and Bosworth Borough Council	HBBC	Local Authority in whose administrative boundary some of the Proposed Development, including the A47 Link Road, is situated.
Historic England	EH	The executive non-departmental public body that advises the public and other bodies on the care of the historic environment in England.
Historic England Archives	HEA	A public archive of architectural and archaeological records.

Full Text	Acronym/ Abbreviation	Notes
Historic Environmental Record	HER	The record held by the local planning authority of known archaeological sites, buildings and landscapes of relevance to the historic environment.
Historic Landscape Characterisation	HLC	A method of identification and interpretation of the varying historic character within an area that looks beyond individual heritage assets as it brigades understanding of the whole landscape and townscape into repeating HLC Types.
Home and Communities Agency	HCA	The government’s housing, land and regeneration agency and the regulator of r social housing providers in England.
Housing and Economic Needs Assessment	HEDNA	Report evaluating the future housing needs, the scale of future economic growth and the quantity of land and floorspace required for economic development.
Housing Market Area	HMA	Geographical area beyond administrative boundaries defined by household demand and preferences for all types of housing.
Hover	-	An otter’s day nest or resting site.
Indices of Multiple Deprivation	IMD	An index to measure deprived areas in the wards of English local authorities.
Industrial Emissions Directive	IED	EU Directive on industrial emissions.
Institute of Acoustics	IOA	Professional body for Acoustics, Noise and Vibration professionals.
Institute of Air Quality Management	IAQM	IAQM is a professional body for air quality professionals.

Full Text	Acronym/ Abbreviation	Notes
Institute of Environmental Management and Assessment	IEMA	IEMA is a professional body for environmental professionals that provides industry guidance on many topics including EIA.
Integrated Pollution Prevention and Control Directive	IPPC	The EU Directive (2008/1/EC) incorporated into UK law by the Environmental Permitting Regulations on prevention and control of industrial emissions. The Directive aims to achieve a high level protection of the environment through measures to prevent or, where that is not practicable, to reduce emissions to air, water and land from activities listed in Annex I of the Directive.
ISO 9613-2	-	Acoustics- Attenuation of sound during propagation outdoors – Part 2: General method of calculation.
Job Seekers Allowance	JSA	Unemployment benefit claimed while looking for work.
Joint Nature Conservation Committee	JNCC	The public body that advises the UK government and devolved administrations on UK-wide and international nature conservation.
Kilovolt	kV	A measure of electrical potential.
LA10	-	A-weighted noise level exceeded for 10% of the measurement period.
LA90	-	A-weighted noise level exceeded for 90% of the measurement period.
LAeq	-	A-weighted equivalent continuous sound level.

Full Text	Acronym/ Abbreviation	Notes
LAmax	-	A-weighted maximum sound pressure level recorded over a given period.
Land Plan	-	The plans showing the land required for the Proposed Development which is to be the subject of the power to acquire land, rights, to extinguish, interfere with or suspend existing rights submitted with the Application (Document Reference 2.20).
Landscape Character Area	LCA	As defined in 'The Approach to Landscape Character Assessment, 2014, these are single unique areas which are the discrete geographical areas of a particular landscape type. Each will have its own individual character and identity, even though it shares the same generic characteristics with other areas of the same type.
Landscape Character Assessment	LCA	The process of identifying and describing variation in the character of the landscape. It seeks to identify and explain the unique combination of elements and features (characteristics) that make landscapes distinctive as set out by Natural England in 'The Approach to Landscape Character Assessment, 2014.
Landscape Character Types	LCT	As defined in 'The Approach to Landscape Character Assessment, 2014, these are distinct types of landscape that are relatively homogeneous in character. They are generic in nature in that they may occur in different areas in different parts of the country, but wherever they occur they share broadly similar combinations of geology, topography, drainage patterns, vegetation, historical land use, and settlement pattern.
Lead	Pb	A heavy metal; a neurotoxin that accumulates in soft tissues and bones; it damages the nervous system and interferes with the function of biological enzymes, causing neurological disorders ranging from

Full Text	Acronym/ Abbreviation	Notes
		behavioural problems to brain damage, and also affects general health, cardiovascular, and renal systems.
Lead Local Flood Authority	LLFA	The authority responsible for developing, maintaining and applying a strategy for local flood risk management in their areas and maintaining a register of flood risk assets.
Leakage	-	The proportion of outputs that benefit those outside of the intervention's target area.
Leicester and Leicestershire 2050: Our Vision for Growth	LL 2050	Leicester and Leicestershire's strategic growth plan published in December 2018.
Leicester and Leicestershire Enterprise Partnership	LLEP	Strategic body led by a Board of local government and business leaders as well as senior education and third party representatives formed in May 2011.
Leicester and Leicestershire Enterprise Partnership's Strategic Economic Plan	LLEP's SEP	Overarching growth strategy that sets out how we intend to bring together our European Structural and Investment Fund (ESIF) Strategy, City Deal and our Growth Deal to build on LLEP's competitive advantages and tackle the major risks to our economy.
Leicestershire and Rutland Environmental Records Centre	LRERC	An organisation that collects, collates and standardises information on habitats and species within Leicester, Leicestershire and Rutland into a digital database.
Leicestershire County Council	LCC	Council authority covering the county of Leicestershire, in which the HNRFI is located.
Leicestershire Local Transport Plan 3	LTP3	Strategic framework for transport planning and policy.

Full Text	Acronym/ Abbreviation	Notes
Light Goods Vehicle	LGV	Vehicles with a gross weight less than 3.5 tonnes.
Listed Building		A building that has been placed on the statutory list of buildings of Special Architectural or Historic Interest and protected by the Planning (Listed Building and Conservation Areas) Act 1990 (as amended).
Local Air Quality Management Technical Guidance	LAQM TG	UK applicable (exc. London) guidance that supports local authorities, transport, planning and policy officials in carrying out their duties under the Environment Act 1995 as amended by the Environment Act 2021.
Local Development Framework	LDF	A spatial planning strategy introduced by the Planning and Compulsory Purchase Act 2004.
Local Enterprise Partnership	LEP	A voluntary partnership between local authorities and businesses responsible for setting strategic direction and implementation of economic development.
Local Nature Reserve	LNR	Statutory designation for places with wildlife or geological features that are of special interest locally.
Local Transport Plan	LTP	A plan by a local Highway Authority that sets out a strategy for the future of transport in its area.
Local Wildlife Site	LWS	Wildlife rich sites selected for their local nature conservation value.
Lowest Observed Adverse Effect Level	LOAEL	Lowest concentration or amount of a substance, found by experiment or observation, which causes an adverse alteration of morphology, functional capacity, growth, development or life span.

Full Text	Acronym/ Abbreviation	Notes
Made Ground	-	Man-made deposits artificially placed comprising a wide variety of material e.g. concrete, brick etc - typical of previously developed sites.
Maintenance	-	Maintenance can comprise inspections, repair, adjustments or alterations, removal, refurbishments, reconstruction, replacements and improvements.
Manual for Streets	MfS	The guidance produced by the Department for Transport and Department for Communities and Local Government on road layout and balancing the needs of different road users, with a focus on residential roads.
Multi Agency Geographical Information for the Countryside	MAGIC	A web-based mapping browser showing various geographical designations e.g. nature conservation sites, heritage sites.
Multiplier effects	-	Further economic activity (jobs, expenditure or income) associated with additional expenditure and supplier purchases.
National Air Quality Objectives	NAQOs	Maximum limits in the concentration of different pollutants (such as particulate matter, nitrogen dioxide, ozone, etc.), measured over different averaging periods such as 1-hour mean, annual mean, 24-hour mean etc.
National Air Traffic Control Services	NATS	-
National Character Area	NCA	Distinct natural areas of England, defined by a unique combination of landscape, biodiversity, geodiversity and cultural and economic activity.

Full Text	Acronym/ Abbreviation	Notes
National Cycle Network	NCN	A network of signed and promoted cycle routes across the UK.
National Grid Company	NGC	National Grid's principal operations are the ownership and operation of regulated electricity and gas infrastructure networks.
National Highways	NH	The agency of the Department for Transport responsible for the core road network in England (formerly Highways England).
National Monuments Record	NMR	Currently known as Historic England Archive.
National Nature Reserve	NNR	Statutory designations, where places with wildlife or geological features that are significant at a national level.
National Planning Policy Framework	NPPF	The revised National Planning Policy Framework sets out government's planning policies for England and how these are expected to be applied.
National Planning Practice Guidance	NPPG	The Planning Practice Guidance web based resource for England first introduced in March 2014 (and which largely superseded planning policy statements (PPSs)) providing guidance on national planning policy and the operation of the planning system.
National Policy Statements	NPS	Overarching legislative policy concerning the planning and consenting of Nationally Significant Infrastructure Projects in the UK.
Nationally Significant Infrastructure Project	NSIP	As defined by the Planning Act 2008.
Natural England	NE	The non-departmental government body responsible for England's natural environment.
Nitrate Vulnerable Zone	NVZ	A designated area where land drains into and contributes to nitrate found in nitrate-polluted waters.

Full Text	Acronym/ Abbreviation	Notes
Nitrogen Dioxide	NO ₂	An air pollutant, formed by the oxidation of nitric oxide or by combustion in the presence of air.
Nitrogen oxides	NOx	Gases that contribute to the formation of smog and acid rain, as well as affecting tropospheric ozone.
Noise Policy Statement for England	NPSE	Policy that sets out the long term vision of government noise policy.
Noise Sensitive Receptor	NSR	Receptors principally residential dwellings (existing or for which planning consent is being sought/ has been given) and any building used for long term residential purposes (such as nursing home).
Non-Technical Summary	NTS	The non-technical summary of the Environmental Statement.
Northampton Gateway Rail Freight Interchange	NGRFI	A 35-acre Strategic rail freight terminal and intermodal freight centre located 5km south of Northampton at Junction 15 of the M1.
Okta	-	A unit used in expressing the extent of cloud cover, equal to one eighth of the sky.
Operation	-	The routine day to day functioning of the Proposed Development.
Order	-	The Development Consent Order (DCO) submitted with the Application.
Order Limits	-	The limits shown on the Works Plans within which the Proposed Development may be carried out.
Ordnance Survey	OS	National mapping agency for Great Britain

Full Text	Acronym/ Abbreviation	Notes
Otter Faeces	Spraint	Otter faeces – used in conservation to identify the presence of otters.
Overhead Line	OHL	Network of overhead electricity transmission lines
Ozone	O ₃	An air pollutant in which long-term exposure has been shown to increase risk of death from respiratory illness.
Part II A	-	The section of EPA 1990 that deals with contaminated land.
Particulate Matter	PM	Very small solid particles.
Pathway	-	The route by which contamination moves from a source to a given receptor.
Peak Particle Velocity	PPV	A term used to measure vibration through a solid surface. When a vibration is measured, the point at which the measurement takes place can be considered to have a particle velocity.
Percentage Heavy Goods Vehicles	%HGV	Percentage of traffic that is classified as Heavy Goods Vehicles in a 16hr period.
Permitted Development	-	Development that is deemed under legislation to have planning consent without the need to obtain planning permission.
Personal Protective Equipment	PPE	Equipment a person may wear to protect themselves from risks e.g. high-visibility jackets, gloves, steel toe capped boots.
Planning Act 2008	PA 2008	England and Wales legislation which established the legal framework to apply for, examine and determine applications for Nationally Significant Infrastructure Projects.

Full Text	Acronym/ Abbreviation	Notes
Planning Inspectorate	PINS	Executive agency supported by the Department for Levelling Up, Housing and Communities which deals with planning appeals, national infrastructure, planning applications, examinations of local plans and other planning related and specialist casework in England and Wales.
Pollution Prevention Guidance	PPG	Environment Agency published guidance on pollution prevention and best practice.
Potential Contaminant Linkages	PCL	The existence of a contamination source and a receptor where a pathway is also present linking the two.
Potential Local Wildlife Sites	pLWS	Wildlife rich sites with potential to be selected for their local nature conservation value.
Preliminary Environmental Information Report	PEIR	A report describing the preliminary environmental assessment that is consulted upon as part of the statutory consultation on the pre-application process of an NSIP.
Protection of Badgers Act 1992	-	A piece of UK legislation primarily aimed at protecting the welfare of wild badgers.
Public Right of Way	PRoW	Path on which the public have legally protected rights to pass.
Rail-accessible	-	A warehouse forming part of the Strategic Rail Freight Interchange development, but which would require containers to be moved from or to the rail terminal by means of an HGV or Tugmaster vehicle
Rail Bridge 104	-	The bridge known as Railway Bridge 104 crossing the West Coast Mainline Railway at Grid reference SJ 891 371.

Full Text	Acronym/ Abbreviation	Notes
Rail-connected	-	A warehouse or other building either with its own dedicated rail siding or which is sufficiently close to the rail terminal to allow containers to be moved from the rail wagons into the warehouse by overhead cranes or reach stackers without the need for them to be loaded onto a HGV or Tugmaster vehicle
Rail-served	-	A warehouse forming part of the Strategic Rail Freight Interchange development, but which would require containers to be moved from or to the rail terminal by means of an HGV or Tugmaster vehicle.
Rail Terminal	-	Location within the Main HNRFI Site where trains terminate
Receptor	-	An identified aspect of the environment - e.g. a resident, protected species, heritage asset, controlled water etc - that may be affected by the Proposed Development and, as such, has been assessed as part of the EIA undertaken.
Registered Parks and Gardens	-	Gardens and designed landscapes of special architectural and historic importance, placed on a national register by Historic England.
Remediation	-	The clean-up of contaminated soil to make it suitable and safe for future use.
River Basin Management Plan	RBMP	A management tool created by Environment Agency to use for integrated water resources management.
Rugby Borough Council	RBC	Local Authority covering the area of Rugby located to the south of Hinckley.
Scheduled Ancient Monument	SAM	A nationally important archaeological site or historic building, protected under the Ancient Monuments and Archaeological Areas Act 1979.

Full Text	Acronym/ Abbreviation	Notes
Scoping Opinion	-	The Scoping Opinion provided by the Secretary of State (document reference 6.2.6.2).
Secretary of State	SoS	The decision maker for a NSIP application and head of the relevant government department.
Significant Observed Adverse Effect Level	SOAEL	The level of noise exposure above which significant adverse effects on health and quality of life occur.
Simulation and Assignment of Traffic to Urban Road Network	SATURN	Traffic model incorporated in Leicester and Leicestershire Integrated Transport Model
Site of Nature Conservation Interest	SNCI	Non-statutory areas of local importance for nature conservation.
Site of Special Scientific Interest	SSSI	A geological or biological conservation designation denoting a protected area in the UK.
Site Waste Materials Management Plan (document reference 17.3)	SWMMP	The strategic document dealing with the effective management of materials used for the construction and the operation of the Proposed Development ensuring that waste is considered at all stages of the Scheme.
Soil Guideline Values	SGV	Scientifically based generic assessment criteria that can be used to simplify the assessment of human health risks arising from long-term and on-site exposure to chemical contamination in soil.
Sound Power Level	SWL	The Sound Energy flow per unit of time.
Sound Pressure Level	SPL	Logarithmic measure of the sound pressure of a sound relative to a reference value, the threshold of hearing.

Full Text	Acronym/ Abbreviation	Notes
Special Area of Conservation	SAC	Area of protected habitats and species as defined in the European Union's Habitat Directive (92/43/EEC).
Special Landscape Areas	SLA	Local designation to provide protection for locally significant and attractive landscapes.
Special Protection Area	SPA	A designated area for birds under the European Union Directive on the Conservation of Wild Birds (2009/147/EC)
Square feet	Sqft	Unit of area
Square metre	Sqm / m ²	Unit of area
Statement of Common Ground	SoCG	A written statement providing the commonly understood basis for the Applicant and local authority or other interested party.
Statement of Community Consultation	SoCC	A statement describing how an Applicant proposes to consult the local community about a project.
Sustainable Drainage Systems	SuDS	Drainage solutions that provide an alternative to the direct channelling of surface water through networks of pipes and sewers to nearby watercourses
Transport Analysis Guidance	TAG	Guidance from the Department for Transport on how to assess transportation schemes.
Transport Assessment	TA	A comprehensive and systematic process that sets out various transport issues relating to a proposed development
Tree Preservation Order	TPO	A written order made by the local authority which makes it an offence to intentionally damage or remove a tree protected by that order without the authority's permission.

Full Text	Acronym/ Abbreviation	Notes
UK Climate Projections	UKCP	A set of tools and data that shows you how the UK climate may change in the future, administered by the MetOffice.
Unacceptable Adverse Effect Level	UAEL	Extensive and regular changes in behaviour and/or an inability to mitigate effect of noise leading to psychological stress or physiological effects
Unemployment	-	All people aged 16+ without a job who were available to start work in the two weeks following their interview and who had either looked for work in the four weeks prior to interview or were waiting to start a job they had already obtained.
United Nations Economic Commission for Europe	UNECE	Organisation providing medical and scientific evidence of health risks to the general public and recommended concentration limits.
Valuation Office Agency	VOA	Executive agency of His Majesty's Revenue and Customs. The Agency values properties for the purpose of Council Tax and for non-domestic rates in England and Wales.
Warwickshire County Council	WCC	Council authority covering the county of Warwickshire, which is located to the south of Hinckley.
Waste (England & Wales) Regulations 2011	-	Legislation concerning waste prevention and the management and introduction of waste hierarchy. The regulations apply to England and Wales only.
Water Framework Directive	WFD	The Water Framework Directive is a European Union directive which commits EU member states to achieve good qualitative and quantitative status of all water bodies.
Water Resources Act 1991	WRA	Legislation to prevent and minimise pollution of water.

Full Text	Acronym/ Abbreviation	Notes
Weighted Sound Reduction Index	Rw	Single-number quantity which characterises the airborne sound insulation of a material or building element over a range of frequencies when tested in a laboratory.
West Coast Mainline	WCML	The busiest mixed-use railway in Europe: a railway corridor in the United Kingdom, connecting the major cities of London and Glasgow with branches to Birmingham, Liverpool, Manchester and Edinburgh.
Wild Mammals (Protection) Act 1996	-	An Act providing protection for wild mammals against certain acts of deliberate harm.
Wildlife and Countryside Act 1981	-	Legislation which protects animals, plants and certain habitats in the UK.
Works Plans	-	The plans showing the numbered Works referred to in the Order and submitted with the Application (document reference 2.2).
World Health Organisation	WHO	A United Nations agency concerned with public health.
Zone of Influence	ZOI	The primary impact area surrounding the development Site defined as the area within commuting distance of the proposed development.
Zone of Theoretical Visibility	ZTV	A computer generated plan showing a maximum area of the surroundings within which a project could theoretically be viewed.