

High Speed Rail (West Midlands - Crewe) Supplementary Environmental Statement 2 and Additional Provision 2 Environmental Statement Competency Statement

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Competency statement:

HS2 Phase 2a (West Midlands to Crewe)

Supplementary Environmental Statement 2 (SES2) and Additional Provision 2 Environmental Statement (AP2 ES)

This document is the Competency Statement for the HS2 Phase 2a Supplementary Environmental Statement 2 (SES2) and Additional Provision 2 Environmental Statement (AP2 ES) submitted in February 2019.

The team that prepared the SES₂ and AP₂ ES comprises HS₂ Ltd technical specialists together with experts drawn from leading consultancies who have extensive experience in the production of Environmental Impact Assessments (EIAs) for a range of major infrastructure developments including high speed railways. The individual experts can demonstrate their competence through degree level qualifications, membership of relevant professional institutions and practical experience in undertaking EIAs.

The consultant team that prepared the SES₂ and AP₂ ES was led by:

- Nick Mitchard, Associate Director, Arup;
- Paul Johnson, Environmental Fellow, Arup; and
- Ian Gilder, Technical Director and Head of Planning, ERM.

Table 1 lists the qualifications and memberships of professional institutions of the technical discipline lead authors, the lead authors for each volume and the lead reviewers of the SES2 and AP2 ES.

The information in Table 1 is provided in support of the statement of competency set out in Volume 1 of the SES2 and AP2 ES.

Table 1: Qualifications and professional memberships of the experts responsible for the production of the HS2 Phase 2a SES2 and AP2 ES	

Discipline	Qualifications and Membership of Professional Institutions
Agriculture, forestry and soils	BA (Hons) Geography, University of Durham.
Technical lead author	MSc Agricultural Economics, University of Reading.
	Practitioner Member of the Institute of Environmental Management and Assessment (PIEMA).
	Member of the British Institute of Agricultural Consultants (MBIAC).
	Member of the British Society of Soil Science (M I Soil Sci).
Air quality	BSc (Hons) Chemical Engineering, University of Exeter.
Technical lead author	DIC Public Health Engineering, Imperial College, London.
	PhD Public Health Engineering, Imperial College, London.
	Fellow of the Institute of Air Quality Management (FIAQM).
	Member of the Institution of Chemical Engineers.

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Discipline	Qualifications and Membership of Professional Institutions
	Member of the Institution of Environmental Science (MIEnvSc).
	Chartered Engineer (CEng).
	Chartered Scientist (CSci).
	Chartered Environmentalist (CEnv).
Climate Change (adaptation and resilience) Technical lead author	BEng (Hons) Building Services Engineering, Northumbria University
	MSc Water Resources Systems Engineering, Newcastle University
	Chartered Engineer (CEng)
	Member Chartered Institution of Building Service Engineers (MCIBSE).
Climate Change (carbon emissions)	BSc (Hons) Environmental Science, University of Stirling.
Technical lead author	MSc Environmental Management and Technology, Oxford Brookes University.
	Member of the Institute of Environmental Management and Assessment (MIEMA).
	Member of the Institution of Environmental Sciences (MIEnvSc).
	Chartered Environmentalist (CEnv).
Community	BA (Hons) Town and Country Planning, Manchester University.
Technical lead author	BPI Town and Country Planning, Manchester University.
	Member of the Royal Town Planning Institute (MRTPI).
Cultural heritage	MA (Hons) Archaeology, University of Edinburgh.
Technical lead author	Member of the Chartered Institute for Archaeologists (MCIfA).
Ecology and biodiversity	BA (Hons) Geography, University of Nottingham.
Technical lead author	MSc Environmental Management, University of Nottingham.
	Member of the Chartered Institute of Ecology and Environmental Management (MCIEEM).
	Chartered Environmentalist (CEnv).
Electromagnetic interference	Electrical Engineering Apprenticeship, Royal Navy.
Technical lead author	BTEC Marine Engineering, Electrical, The Royal Navy School of Engineering, HMS Caledonia, Rosyth, Fife.
	Safety Critical System, Institution of Electrical Engineers.
	Railway Signalling and Control Systems, Institution of Electrical Engineers.
	Health and Safety at Work Management, Birmingham University.
	Electromagnetic Compatibility in Railways, York EMC Services.
	Fast Track Systems Engineering, University of Oxford.
Health	BSc (Hons) Environmental Conservation and Management with Chemistry, Nottingham Trent University.
Technical lead author	Dip Environmental Monitoring and Assessment, London South Bank University.
	Chartered Environmentalist (CEnv).
Land quality	
Land quality	BEng Civil and Structural Engineering, University of Sheffield.
Technical lead author	MSc Geotechnical Engineering, University of Surrey.
	Member of the Institution of Civil Engineers (MICE). Chartered Engineer (CEng).

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Discipline	Qualifications and Membership of Professional Institutions
Landscape and visual	BSc (Hons) Landscape Design and Plant Science, University of Sheffield.
Technical lead author	Dip Landscape Architecture, University of Sheffield.
	Chartered Member of the Landscape Institute (CMLI).
Major accidents and natural	MEng (Hons) Civil Engineering, Imperial College, London.
disasters Technical lead author	PhD Earthquake Loss Estimations: Modelling Losses due to Ground Failure, Imperial College London.
	Member of the Institution of Civil Engineers (MICE).
	Chartered Engineer (CEng).
Planning	BA (Hons) Geography, University of Cambridge.
Technical lead author	MA University of Cambridge.
	PGDip Town and Country Planning, Anglia Polytechnic University (Dip TP).
	Member of the Royal Town Planning Institute (MRTPI).
	Fellow of Royal Society of Arts (FRSA).
Socio-economics	BSc (Hons) Town Planning Studies, University of Wales.
Technical lead author	Dip Town Planning, University of Wales.
	MBA, University of Aston.
	MSc Advanced Energy and Environmental Studies, University of East London.
	Member of the Royal Town Planning Institute (MRTPI).
Sound noise and vibration	BEng (Hons) Engineering Acoustic and Vibration, University of Southampton.
Technical lead author	Member of the Institute of Acoustics (IOA).
	Chartered Engineer (CEng).
Traffic and transport	BSc (Hons) Mathematics and Economics, University of Salford.
Technical lead author	MSc (Hons) Transport Engineering and Planning, University of Salford.
	Member of the Chartered Institution of Highways and Transportation (MCIHT).
Waste and material resources	Dipl.Ing. (FH) Environmental Technology (Waste Management and Recycling Technology), Hochschule Bremen.
Technical lead author	Member of Constructing Excellence, Building and Environment Working Group.
	Member of the British Standards Institution Steering Group PAS908 Automated Waste Collection Systems.
	, Member of the Institution of Civil Engineers (MICE) London Waste Panel.
	Chartered Engineer (CEng).
	Chartered Waste Manager.
	Chartered Water and Environmental Manager (CWEM).
Water resources and flood risk	MA (Hons) Geography, Edinburgh University.
Technical lead author	PGDip Engineering Hydrology, Newcastle University.
	Fellow of the Royal Geographical Society (FRGS).
	Fellow of the Royal Society of Arts (FRSA).
	Member of the Institution of Environmental Science (MIEnvSc).
	Member of the British Hydrological Society (BHS).
	Chartered Scientist (CSci).
	Chartered Water and Environmental Manager (CWEM).

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Discipline	Qualifications and Membership of Professional Institutions
Non-technical Summary and	BA (Hons) Planning Studies, Oxford Brookes University.
Volume 1	PGDip Town and Country Planning (EIA), Oxford Brookes University.
Lead author	Member of the Royal Town Planning Institute (MRTPI).
Volume 2	BSc (Hons) Environmental Pollution Science, University of Glamorgan.
Lead author	National Diploma in Pollution Assessment and Control, Sligo Institute of Technology.
	National Certificate in Food Science, Sligo Institute of Technology.
	Member of the Institution of Environmental Sciences (MIEnvSc).
	Chartered Environmentalist (CEnv).
Volume 3	BSc (Hons) Environmental Geography, University of York.
Lead author	MSc Sustainability (Environmental Consultancy and Project Management), University of Leeds.
	Member of the Institute of Environmental Management and Assessment (MIEMA).
Volume 5	MA (Hons) Town Planning, Heriot Watt University.
Lead Co-ordinator	MSc Environmental Assessment and Management, Oxford Brookes University.
	Chartered Member of the Royal Town Planning Institute (MRTPI).
	Practitioner Member of the Institute of Environmental Management and Assessment (PIEMA).
Lead reviewer: Ian Gilder	BA (Hons) Geography, University of Cambridge.
	MA University of Cambridge.
	PGDip Town and Country Planning, Anglia Polytechnic University (Dip TP).
	Member of the Royal Town Planning Institute (MRTPI).
	Fellow of Royal Society of Arts (FRSA).
Lead reviewer: Paul Johnson	BSc (Hons) Botany, University of Hull.
	PhD Applied Ecology, University of Liverpool.
	Fellow of the Institution of Environmental Sciences (FIEnvSc).
	Fellow of the Royal Society of Biology (FSB).
	Member of the Royal Town Planning Institute (MRTPI).
	Chartered Scientist (CSci).
	Chartered Environmentalist (CEnv).
	Chartered Biologist (CBiol).
Lead reviewer: Nick Mitchard	BA (Hons) Business Studies, De Montfort University.
	MSc Environmental Management, University of Nottingham.
	Member of the Institution of Environmental Sciences (MIEnvSc).
	Associate Member of the Institute of Environmental Management and Assessment (AIEMA).
	Chartered Environmentalist (CEnv).