
Appendix A1.3: Statement of Competency

- 1.1 This Appendix provides the statement of competency, as required by the Roads (Scotland) Act 1984, as amended by the Roads (Scotland) Act 1984 (Environmental Impact Assessment) Regulations 2017.
- 1.2 Jacobs as an organisation is able to demonstrate competence in Environmental Impact Assessment (EIA) as follows:
- Our Lead EIA coordinators are experienced EIA practitioners with depth of experience in EIA and hold Chartership status such as Chartered Environmentalist, Chartered Planner and/or Chartered Scientist. The Chartered status of our staff characterises them as knowledgeable, experienced, competent and committed environmental professionals. Table 1.1 of this appendix provides the qualifications and EIA experience of the project team that has authored this EIA Report.
 - Jacobs has been recognised by the Institute of Environmental Management and Assessment (IEMA) Quality Mark Scheme since its inception. The EIA Quality Mark is a voluntary scheme, operated by IEMA, through which EIA activity is independently reviewed on an annual basis. Our participation in this voluntary scheme highlights our commitment to delivering quality EIAs that are independently reviewed by an external professional body. Jacobs was one of the first organisations accredited with the IEMA EIA Quality Mark in 2011 when the Quality Mark was founded and has maintained this accreditation since then.

Table 1: Qualifications and Experience of Project Team

Name	Role	Qualifications	Experience in EIA
Iain Pattenden	EIA Coordinator	MSc Urban and Regional Planning, University of Strathclyde BSc (Hons) Estate Management, Heriot-Watt University Chartered Planner and Member of the Royal Town Planning Institute (MRTPI) Chartered Planning and Development Surveyor and Member of the Royal Institution of Chartered Surveyors (MRICS) Practitioner Member of the Institute of Environmental Management and Assessment (PIEMA)	<ul style="list-style-type: none"> Over 20 years of professional experience in town planning and environmental consultancy. Has significant experience providing consenting advice and coordinating and contributing to environmental assessments and EIAs for a range of development and infrastructure projects including transport infrastructure, renewable energy, industrial, and mixed-use development.
Vanina Saint-Martin	Geology and Soils Lead	MSc Hydrogeology University of Birmingham BSc (Hons) Applied Geology University of Bordeaux, France Member of International Association of Hydrogeologists Fellow of Geological Society	<ul style="list-style-type: none"> Over 14 years' technical expertise in geological and hydrogeological matters and working on national and international projects. Has worked on a large variety of projects including groundwater resources, hydrogeological-hydrological assessments, mining and quarrying issues, contaminated land and groundwater risk assessment, environmental impact assessments, landfills HRAs and peatland restoration. Undertook role of Team Lead for Stage 2 Geology and Soils EIA (including contaminated land and hydrogeology) for A9 Dualling Pass of Birnam to Glen Garry, and for the Aberdeen Western Peripheral Route for Phases 1, 2 and 3 of the Geology and Soils EIA.
Ian Griffin	Water Environment Lead	PhD Environmental Science, University of Stirling BSc (Hons) Botany, University of Glasgow Chartered Member of the Chartered Institute of Water and Environmental Managers Chartered Environmentalist (CEnv)	<ul style="list-style-type: none"> Over 17 years' academic, conservation and consultancy experience. Extensive experience in EIA and planning led consultancy across the UK, with expertise in hydrological estimation techniques and Flood Risk Assessments. Has overseen and undertaken hydraulic modelling, drainage design and the environmental aspects of Flood Alleviation Schemes (e.g. Water Framework Directive (WFD) assessment and Controlled Activities Regulations (CAR) compliance). Has been the Discipline Lead for the Water Environment as part of the environmental assessment for the A9 Dualling Perth to Inverness.
Matt Robson	Marine Ecology Lead	MSc Aquatic Resource Management, Kings College University of London. BSc (Hons) Marine and Environmental Biology, University of St Andrews. Chartered Member of the Chartered Institute of Water and Environmental Managers Chartered Environmentalist	<ul style="list-style-type: none"> Over 18 years' experience in the environment sector, both in public and private organisations. Considerable technical advisory experience gained in the UK, Europe, Middle East, and West Africa, where he has managed the marine ecology and water quality technical input on a range of large infrastructure projects.

Name	Role	Qualifications	Experience in EIA
			<ul style="list-style-type: none"> • Extensive experience of providing advice and guidance to design teams, including options appraisal, constraints/opportunities assessment, mitigation design and management plan development. • Well versed with coordinating, producing and reviewing environmental documents (e.g. EIAs) for major projects including power infrastructure, ports, utilities, wind farms and roads.
Evonne Maxwell	Marine Ecology Specialist	MSc Environmental Biology, Conservation and Resource Management, Swansea University BSc (Hons) Zoology, University of Edinburgh Chartered Biologist (CBiol) Member of the Royal Society of Biology Associate member of the Chartered Institute of Ecology and Environmental Management	<ul style="list-style-type: none"> • Over eight years' marine and freshwater experience in both the public and private sector. • Experienced in the survey of aquatic habitats and species and subsequent assessment of impacts upon these features. • Has been involved in the EIA and HRA for several infrastructure projects such as the A9 Dualling: Ballinluig to Glen Garry, Wylfa Newydd Power Station, A96 Inverness to Nairn. • Assisted in the acquisition of Marine Licences for several small-scale marine projects.
Peter Gilchrist	Terrestrial Ecology Lead	Post graduate Certificate in Research Supervision. Chartered Environmentalist. PhD Ecology. BSc (Hons) Environmental Science.	<ul style="list-style-type: none"> • Over 20 years of professional experience in both the public and private sector, delivering ecology services for a range of infrastructure projects. • Has helped develop the national guidance advice to planning authorities on HRA for plans and has represented Jacobs as the practitioner consultant for the Scottish Government and Scottish Natural Heritage (SNH). • Has extensive experience of large transport infrastructure projects including Aberdeen Western Peripheral Route (AWPR), A96 Dualling Inverness to Nairn (inc. Nairn Bypass), Forth Replacement Crossing and the M4.
Lorna McDonald	Ecology Specialist	MSc Wildlife Biology and Conservation. BSc (Hons) Zoology Chartered Environmentalist Member of the Chartered Institute of Ecology and Environmental Management	<ul style="list-style-type: none"> • Over eight years of ecological and conservation experience starting in both the volunteer and consultancy sectors. • Experienced in the assessment of ecological impacts of road and other infrastructure projects. • Technical lead for Ecology for the DMRB Stage 3 EIA for A9 Dualling: Killiecrankie to Glen Garry. • Involved in large transport infrastructure projects including A96 Inverness to Nairn (Inc. Nairn Bypass), Aberdeen Western Peripheral Route (AWPR) and the A9 Dualling.
Frances Tobin	Ecology Specialist	BSc (Hons) Zoology (with Industrial Placement), Durham University Member of the Chartered Institute of Ecology and	<ul style="list-style-type: none"> • Over seven years' experience in ecological consultancy. • Experienced in the assessment of ecological impacts of road and other infrastructure projects.

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		Environmental Management. Member of the Royal Society of Biology.	<ul style="list-style-type: none"> Ecology lead for the DMRB Stage 3 EIA for A9 Dualling: Tay Crossing to Ballinluig.
Jonathan Dempsey	Cultural Heritage Lead	PgC Archaeology of Standing Buildings PgD Field Archaeology MA (Hons) Archaeology Member of the Chartered Institute for Archaeologists	<ul style="list-style-type: none"> Over 18 years of professional experience providing cultural heritage input to all stages of EIA. Has an in-depth knowledge of DMRB process, particularly heritage legislation and best practice guidance, and has been responsible for designing, managing and procuring archaeological investigations on major infrastructure and construction projects. Led the team that undertook the cultural heritage inputs into the DMRB Stage 2 Assessment for the A96 Dualling Inverness to Nairn (including Nairn bypass) and is the technical lead for heritage for the five projects on the Pass of Birnam to Glen Garry scheme.
Elli Winterburn	Cultural Heritage Specialist	BSc (Hons) Conservation (LondonMet) MA in the Archaeology of Buildings (York) PhD Architecture, Planning and Landscape (Newcastle) Member of the Chartered Institute for Archaeologists Member of Institute of Historic Building Conservation	<ul style="list-style-type: none"> Over 15 years' professional experience developed as a building conservator and archaeologist and as a researcher specialising in the history and development of the built environment. Combining her understanding and experience of practical building conservation with archaeological recording skills and an aptitude for historical research and analysis Elli provides specialist cultural heritage input to all stages of EIA. Has experience of working on large transport infrastructure schemes such as HS2b and the A9 Dualling project.
Gary Wilson	Air Quality Lead	MSc, Environmental Technology, Imperial College, 2005 BSc, Meteorology, University of Reading, 2003 Member of the Institute of Environmental Sciences Member of the Institute of Air Quality Management Competence in Environmental Noise Monitoring, Institute of Acoustics 2006	<ul style="list-style-type: none"> Gary Wilson is an experienced member of the Jacobs air quality team with over 14 years' experience and has undertaken a considerable number of projects that have included air quality modelling aspects in order to assess the potential air quality impacts. Gary carries out air quality, dust and odour investigations and assessments for environmental impacts for the purposes of planning applications of new developments and environmental permits and approvals. Gary is an experienced user of air quality dispersion modelling software including ADMS 5, AERMOD and ADMS Roads. Modelling has been undertaken for various different sources and circumstances including: power, transport, industrial, waste, mining and construction. Gary has also planned and carried out baseline air quality, dust, odour and noise monitoring surveys for a variety of clients. Has experience of working on large transport infrastructure schemes such as HS2, Western Rail Link to Heathrow, Southampton to London Pipeline Project and the A1 in Northumberland.

Name	Role	Qualifications	Experience in EIA
Andrew Johnston	Noise Lead	Diploma in Acoustics and Noise Control Certificate of Competence in Environmental Noise Measurement Master of Engineering (Hons) Electrical Engineering with Electronics Corporate Member of the Institute of Acoustics	<ul style="list-style-type: none"> Over 10 years of experience within the field of noise and vibration consultancy, particularly in environmental noise. Has significant experience in producing and reviewing noise assessment reports, both as standalone documents and as part of larger environmental reports. Has undertaken noise assessments as part of EIA on large transport infrastructure schemes such as the A9 Dualling project.
Dan Lean	Materials and Waste Lead	BSc (Hons) Environmental Science, Plymouth University, UK, 2002 Full Member of the Institution of Environmental Sciences (IES), 2011	<ul style="list-style-type: none"> Over 17 years' technical expertise in providing sustainability, circularity, resource efficiency, waste management and land quality technical support to a diverse range of projects in the UK and overseas including transport (road, rail, airports and ports), utilities (energy, water and telecommunications), flood defence, land development (residential, commercial and industrial), mining, onshore oil, landfill remediation, habitat restoration / creation and dredging. Dan has provided Materials Assets and Waste inputs to several DMRB assessments, for which he has applied his understanding of the relevant legislative and policy framework for materials and waste, and produced quality deliverables to budget and programme that fully comply with both EIA Regulations and DMRB. Dan has also delivered Materials and Waste topic Environmental and Advisory & Auditing Services, for Transport Scotland, to ensure compliance of audited Environmental Statements or Environmental Assessment Reports with the EIA Regulations, DMRB Volume 11 and with any relevant guidance or best practice.
Emily King	Human Health Lead	MPhil Engineering & Design, Brunel University BEng (Hons) Environmental and Ecological Engineering, University of Newcastle-upon-Tyne, UK Chartered Water and Environmental Manager (CWEM) Chartered Environmentalist (CEnv)	<ul style="list-style-type: none"> Over 15 years' technical expertise in environmental and socio-economic consultancy. Has provided health and well-being assessments for various major infrastructure Environmental Statements, including Development Consent Order projects with National Grid and Network Rail. Has been responsible for providing Health Impact Assessment for clean air projects, including the Greater Manchester Clean Air Plan and the London Ultra Low Emission Zone
Sam Pollard	Climate Lead	MSc in Geographic Information Science, University of London BEng (Hons) in Environmental Engineering, University of Nottingham Chartered Environmentalist (CEnv) Member of the Institution of Environmental Sciences (MIEnvSci) Member of the Institute of Air Quality Management (MIAQM)	<ul style="list-style-type: none"> Over 17 years' experience in delivering air quality and carbon assessments in support of large-scale infrastructure projects, highways schemes, oil and gas production operations and industrial, residential and commercial developments. Is highly experienced in developing and assessing air quality and carbon mitigation measures, including Clean Air Zones, and has led numerous such studies on behalf of local authorities. Has also managed and contributed to a number of air quality research projects on behalf of Defra and Highways England.

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			<ul style="list-style-type: none"> Key roles include Air Quality and Operational Carbon Technical Lead on M621 Mortorway Junctions 1 to 7 Improvements Scheme and Air Quality and Operational Carbon Technical Lead on A5036 Port of Liverpool Access.
Campbell Purves	Town and Country Planning Lead	BA (Hons) Environmental Planning, Strathclyde University Chartered Planner and Member of the Royal Town Planning Institute (MRTPi)	<ul style="list-style-type: none"> Over 16 years of experience of town planning within both local authority and consultancy, managing a wide variety of developments through the planning application process both working for a reputable housebuilder and also as a senior manager and planning officer for a number of local planning authorities in Scotland. Campbell has successfully project managed developments from pre-planning through to delivering consents, successfully negotiating non-onerous planning permissions, listed building consents and s75 legal agreements. He has demonstrable experience of managing and coordinating multi-disciplinary teams and specialist consultants to support the planning process. In addition, he has led and coordinated the public consultation and engagement process both pre-application and during the planning process recognising the importance of early engagement in enabling successful deliverables. His published reports/works include Technical Consenting Report for PCF Stage 3, Highways England M27 Improvement Works, and Technical Planning Report – Aberdeen Western Peripheral Route Land Compensation Claim Craibstone.
Graham Kerr	Community and Private Assets Lead	BSc (Hons) Agriculture, University of Edinburgh Full Member Institution of Environmental Sciences (MIEnvSc) Chartered Environmentalist (CEnv)	<ul style="list-style-type: none"> Over 25 years of professional experience in agriculture and environmental consultancy. Has fulfilled the role of Land Use and Agriculture specialist on several highways projects at DMRB Stage 2 and Stage 3, as well as, other linear infrastructure projects such as electricity transmission lines and water pipelines. Has extensive experience on various major multi-disciplinary highway and infrastructure projects, including undertaking the role of EIA Coordinator for A9 Dualling: Tay Crossing to Ballinluig and land use and agriculture specialist on A96 Dualling Inverness to Nairn (including Nairn Bypass).
Douglas Dyche	All Travellers Lead	MSc Sustainability and Environmental Studies BSc (Hons) Zoology Full Member Institution of Environmental Sciences (MIEnvSc) Chartered Environmentalist (CEnv)	<ul style="list-style-type: none"> Over five years' experience in EIA coordination and environmental assessment. Technical lead for All Travellers for the DMRB Stage 3 EIA of the A9 Dualling Programme and A9/A96 Inshes to Smithton Scheme. Auditor for DMRB Stage 2 and DMRB Stage 3 environmental assessments for Community and Private Assets, and All Travellers environmental topics.
Kate Smith	Landscape and Visual Lead	MA (Hons) Landscape Architecture, Heriot-Watt University Chartered Member of the Landscape Institute	<ul style="list-style-type: none"> Over 20 years' experience in landscape and visual assessment (LVIA), landscape design and in the preparation and coordination of environment statements for major infrastructure projects.

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			<ul style="list-style-type: none">• Involvement in the assessment process has continued through to expert witness for Public Inquiry, project management, environmental co-ordination, production of tender/contract documentation and site supervision/monitoring.• Has extensive experience working on major infrastructure projects including the M80 Stepps to Higgs DMRB Stage 3 through to site supervision, the Aberdeen Western Peripheral Route DMRB Stage 2 & 3 and site supervision support, Forth Replacement Crossing DMRB Stage 3 and LVIA lead on A96 Dualling Inverness to Nairn (including Nairn bypass) DMRB Stage 2 & 3 and PLI expert witness.