



Gatwick Airport Northern Runway Project

Environmental Statement
Appendix 1.8.1: Statement of Expertise

Book 5

VERSION: 1.0

DATE: JULY 2023

Application Document Ref: 5.3

PINS Reference Number: TR020005

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1 Introduction

1.1 General

1.1.1 This document forms Appendix 1.8.1 of the Environmental Statement (ES) prepared on behalf of Gatwick Airport Limited (GAL) for the proposal to make best use of Gatwick Airport's existing runways and infrastructure (referred to within this report as 'the Project').

1.1.2 This document provides the statement of expertise for the ES for the Project.

2 Statement of Expertise

2.1 EIA Management

RPS

2.1.1 RPS is a member of the Institute of Environmental Management and Assessment (IEMA) Environmental Impact Assessment (EIA) Quality Mark. This means that RPS adheres to the following quality mark commitments.

- EIA Management – We commit to using effective project control and management processes to deliver quality in the EIA we co-ordinate and the Environmental Statements we produce.
- EIA Team Capabilities – We commit to ensuring that all our EIA staff have the opportunity to undertake regular and relevant continuing professional development.
- EIA Regulatory Compliance – We commit to delivering Environmental Statements that meet the requirements established within the appropriate UK EIA Regulations.
- EIA Context & Influence – We commit to ensuring that all EIAs we co-ordinate are effectively scoped and that we will transparently indicate how the EIA process, and any consultation undertaken, influenced the development proposed and any alternatives considered.
- EIA Content – We commit to undertaking assessments that include: a robust analysis of the relevant baseline; assessment and transparent evaluation of impact significance; and an effective description of measures designed to monitor and manage significant effects.

- EIA Presentation – We commit to deliver Environmental Statements that set out environmental information in a transparent and understandable manner.
- Improving EIA Practice – We commit to enhance the profile of good quality EIA by working with IEMA to deliver a mutually agreed set of activities, on an annual basis, and by making appropriate examples of our work available to the wider EIA community.

2.1.2 The EIA project management consultants have over 20 years' experience in coordinating the EIA process for various types of development, including extensive experience in large industrial and highways development.

2.2 Topic Authors

Historic Environment

2.2.1 Mick Rawlings is a Director at RPS with more than 35 years of professional experience within the historic environment sector, with projects in the UK and overseas. This time has provided Mick with an excellent and wide-ranging understanding of the policy and guidance regarding historic environment across all parts of the UK. He has been employed by contracting and consulting organisations that provide archaeological and historic environment services to a wide range of clients. These include transport and infrastructure providers as well as public agencies and private sector developers. His experience includes recreational, road, rail and aviation projects, renewable energy schemes (including onshore and offshore wind farms) and a considerable number of large-scale residential schemes. Mick is a Member of the Chartered Institute for Archaeologists' Working Party and a Fellow of the Society of Antiquaries and has prepared and presented evidence on behalf of clients at public and local plan inquiries and at Development Consent Order (DCO) hearings.

Landscape, Townscape and Visual Resources

2.2.2 Paul Ellis is a Technical Director at RPS who has worked in the landscape sector for over 32 years. Paul is an Associate Member of the Landscape Institute. He has been involved in a diverse range of projects which have required landscape planning, assessment, design and implementation inputs. He has extensive experience in the preparation of Landscape and Visual Impact Assessment for ESs and townscape and seascape characterisations and assessments for developments in urban and rural locations throughout the UK. These projects include

Nationally Significant Infrastructure Projects (NSIPs) and other large scale commercial developments. Paul is familiar with the consultation process with both statutory consultees and non-statutory consultees, providing support at public exhibitions. He has appeared as an expert witness at public inquiries, hearings and DCO hearings.

Ecology and Nature Conservation

2.2.3 Nick Betson is a Director at RPS and is a highly experienced ecologist and project manager with over 20 years of experience in ecology, having worked in consultancy since 2007. During this time, Nick has managed the ecology component of over 400 projects, including large-scale infrastructure. Combining a strategic appreciation of ecology with a thorough understanding of the EIA process, Nick has built up substantial experience of overall project management in relation to ecology. As lead ecologist on large-scale EIA projects, this has often included liaison and discussions with key consultees such as Natural England and the Environment Agency, as well as wider stakeholder engagement. He has undertaken ecological appraisals for a broad range of brownfield and greenfield sites to support planning applications and the development of long-term site management plans as the ecology lead for EIA and Habitats Regulations Assessment.

Geology and Ground Conditions

2.2.4 Jim Lightbown (BSc, MSc, CEnv (Chartered Environmentalist), CSci (Chartered Scientist), MCIWEM (Member of the Chartered Institute of Water and Environmental Management)) is a chartered professional with over 20 years' experience in the assessment of potential impacts from soil and groundwater contaminations and the mitigation of these impacts through remediation and/or mitigation measures. He is an experienced EIA practitioner providing ground conditions chapters for Preliminary Environmental Information Reports (PEIRs) and ESs in relation to large scale DCO, commercial/logistics and residential schemes.

2.2.5 Liz Williams is a Principal Geo-Environmental Consultant at RPS with over 20 years' experience working in environmental consultancy. During this time Liz has developed significant expertise in the characterisation and assessment of ground conditions and contaminated land as well as air quality assessments and waste classification. Liz has delivered these in support of a variety of projects including development for commercial, residential, primary infrastructure, renewable energy

and waste purposes. She has also prepared numerous risk assessments and remediation strategies for contaminated land projects for both planning and permitting purposes. Liz also has experience of being a key support role at Public Inquiry.

Water Environment

- 2.2.6 Michael Symons is a Senior Director and Head of Discipline for Flood Risk Management at Jacobs with over 20 years' experience of all aspects of the water industry and specialises in Flood Risk Assessment (FRA). Michael has delivered flood risk mitigation projects through the project life cycle from strategic planning, scheme identification, appraisal, design and construction. Michael is highly experienced in the planning process and has developed, reviewed and led the drainage and water elements of EIA and FRA across a number of sectors including aviation, highways, rail, water and energy. He has performed the lead and reviewer role on a number of NSIPs, representing them at Public Inquiry. Michael has acted as a flood risk Expert Witness for the Broughton Bypass for Lancashire County Council and he was the water environment lead through preliminary design and examination for the Cambridge to Huntingdon Improvement Scheme DCO for Highways England, A12 Chelmsford to Marks Tey DCO for National Highways and the Southampton to London Pipeline project DCO for Esso. Michael is a member of the Chartered Institution of Water and Environment Managers.

Traffic and Transport

- 2.2.7 David Ellis is a Director at Arup with over 20 years' experience. He currently leads Arup's transport consulting business in London. David has considerable UK and international experience in transport planning for large and complex development sites, including regeneration and opportunity areas, town centre redevelopments, transport infrastructure, airports and sports facilities. David is leading the transport assessment advice for the Gatwick Northern Runway Project. He has represented clients in negotiations with authorities and stakeholders about planning applications and agreements, and as a witness at several public inquiries.
- 2.2.8 Stuart Jenkins is an Associate Director at Arup with over 30 years' experience, most of which has been focussed on transport design, planning and assessment advice for major development masterplans and infrastructure projects. Stuart has extensive experience of working with multi-disciplinary teams to develop proposals and assess their expected transport and environmental

effects. He led transport assessment work for the Tideway project and was the transport assessment leader for Heathrow's third runway project. He has also worked on major commercial development masterplans at Stratford City, Canada Water, Brent Cross and Barking Riverside, as well as elsewhere in the UK and overseas. Stuart has presented expert witness evidence at Planning Inquiries and at DCO Examination.

Air Quality

- 2.2.9 James Bellinger is an air quality and carbon specialist at Arup with 15 years of experience. James is a Chartered Scientist and Chartered Environmentalist who leads air quality assessments for a wide variety of projects across a number of markets for both private and public-sector clients. He has significant experience leading air quality assessments for major infrastructure projects including DCO assessment for aviation (Luton airport expansion), major road schemes (A14, A417, A30, A40, M1, M25) rail (HS2) and industrial projects (energy from waste). He has acted as expert witness for air quality at planning inquiries. He is experienced project manager and provides solutions to air quality problems by working collaboratively with transport and design teams as well as stakeholders to identify appropriate mitigation.
- 2.2.10 Charles Walker is an air quality specialist at Ricardo with over 30 years' experience of atmospheric dispersion modelling and emission inventory compilation. Charles is skilled in mathematical modelling, software development and computer programming. He has undertaken numerous air quality and greenhouse gas assessments of UK airports including environmental impacts assessments for the Heathrow Terminal 5, Stansted G1 Public Inquiries and The Airports Commission. Charles has also undertaken a number of local authority review and assessments and air quality assessments of urban transport schemes. Over the past ten years, Charles has developed inventories of emissions and fuel use for civil aircraft in the UK for inclusion in the 'National Greenhouse Gas Emissions Inventory'.

Noise and Vibration

- 2.2.11 Steve Mitchell is a Director at Mitchell Environmental Limited with 30 years of experience in environmental noise impact assessment for a wide range of noise sources in over 50 countries, specialising in the transport and infrastructure sectors. He is a fellow of the Institute of Acoustics and is currently the Chairman of UK Institute of Acoustics Environmental Noise Group. Steve has lectured on the effects of aircraft noise at South Bank University and has given expert witness evidence at

14 transport infrastructure Public Inquiries since 1999. Steve has carried out detailed studies of noise around 40 airports and undertaken three major airport noise research projects for the European Commission. Steve has been retained as Gatwick Airport's air noise advisor since 2014, contributing to or managing numerous noise impact and mitigation studies for the Noise Management Board. Steve undertook a review of 13 UK airport draft noise Action Plans prepared under the requirements of EC Directive 2002/49, the Environmental Noise Directive. The review was presented to a workshop from which Steve compiled the Institute's formal response to the airports and the Department for Transport. Steve has also been involved in the assessment of health impacts, applying the methods and compiling the ground and air noise chapters for the ES for the proposed second runway at Stansted Airport.

- 2.2.12 Seth Roberts is a Principal Consultant at Hayes McKenzie with 12 years of experience in environmental noise impact assessment in the UK and Ireland. He is a corporate member of the UK Institute of Acoustics and has served on their publications committee since 2009. Hayes McKenzie has been involved in airport ground noise assessment since the early 1990s, working in combination with Ian Flindell Associates on the Heathrow Airport Terminal 5 Inquiry, the evolving Gatwick Airport Master Plan and the Stansted Airport Phase 2 Development. Seth took over the Gatwick ground noise work in 2013 initially doing modelling work for the second runway proposal then providing an assessment for the Boeing Hangar planning application and continuing to work with Gatwick Airport Limited (GAL) on assessments for master planning.

Climate Change

- 2.2.13 Nikki Kent is a Senior Climate Consultant at Arup with 18 years of experience in climate resilience and adaptation with proven experience in supporting infrastructure owners, cities, countries and organisations on their analysis and understanding of climate risks, identification of prioritised adaptation actions and planning to adapt to climate change. As a technical specialist and project manager Nikki is involved in engaging with, reviewing and undertaking climate resilience technical work, climate change risk assessments and the development of tools and guidelines for infrastructure and development projects. She has a focus on infrastructure, cities and climate data tool development including climate data extraction, interpretation and use, including the UK climate projections (UKCP18).

Greenhouse Gases

- 2.2.14 George Vergoulas is an Associate Director at Arup with over 20 years as a professional environmental scientist, having held consulting / research positions at three different organisations. He has carried out numerous carbon assessments for major infrastructure projects including rail and road schemes, airports and energy projects. George has also advised clients on carbon management and developed low carbon route-maps for organisations such as Highways England, the Scottish Government, and the Strategic Forum for Construction. In addition, he has led the latest drafting and update of IEMA's guidance document on "Assessing Greenhouse Gas Emissions and Evaluating their Significance" used by EIA practitioners across the UK and beyond. His experience of airports includes leading the carbon assessment for Stansted Airport (including standing in as the Greenhouse Gas (GHG) Technical Expert Witness during the legal challenge), the GHG assessment for Heathrow's North West Runway, and assessing Glasgow Airport's airspace change design carbon implications. George is currently the GHG lead on HS2 helping the scheme navigate through the Hybrid Bill process.
- 2.2.15 Keith Robertson is an Associate Director at Arup and has over 18 years of experience in delivering environmental impact and sustainability projects in the public and private sector. These range across organisational climate strategy development, carbon management and assessment on major infrastructure projects, and EIA and Strategic Environmental Assessment (SEA). Keith brings together diverse experience across rail, aviation, and highways infrastructure sectors with experience in the development and delivery of PAS 2080 carbon management strategies, supported by robust carbon accounting and quantification expertise. Keith combines this with experience in delivering sustainability appraisal and sustainability plan/strategy development; organisational carbon management strategies; sustainability in buildings and infrastructure projects; urban water management; and waste and resource efficiency. Keith has led the GHG assessment for a wide range of development projects of varying scales including several major highways infrastructure projects in England and Scotland (including one scheme currently progressing through DCO). He also acted as Technical Coordinator for the GHG assessment of HS2 Phase 2b. Previous carbon accounting and modelling work also includes for water sector companies, the Environment Agency, several Local Authorities in England, and acting as sustainability lead for a range of buildings and masterplanning strategies.

Socio-economic Effects

- 2.2.16 Ciaran Gunne-Jones is Senior Director and Head of Economics at Lichfields, and specialises in spatial economics, policy and strategy. His expertise includes economic appraisal, socio-economic and health impact assessments, preparing Green Book business cases, and evidence for policy and plan-making having advised over 60 local authorities nationally. Ciaran also has extensive experience of assessing the economic impacts of development and infrastructure projects, working for developers and investors, and government agencies including Homes England and National Highways. His experience includes projects at Heathrow, Farnborough, Rochester and Bournemouth Airports, alongside a range of port, rail and highways projects. Ciaran is a Member of the Institute of Economic Development.
- 2.2.17 Matthew Spry is a Senior Director at Lichfields and Head of its London office. He is responsible for a wide range of planning and economic development projects, including via technical evidence, planning applications, local plans, and the NSIP DCO process. Matthew advises clients across residential, commercial, infrastructure and government sectors and has given expert evidence at public inquiries and hearings. His aviation work includes projects for Heathrow, Biggin Hill and Oxford Airports. He is a member of the Royal Town Planning Institute and the Institute for Economic Development and is a Fellow of the Royal Academy for the Arts and of the Academy for Social Sciences.
- 2.2.18 Michele Granatstein is a Partner at Oxera and leads the aviation practice, she specialises in regulation, economic impact assessment, policy advice and competition in the aviation sector. Michele has provided advice to airlines, airports, air navigation service providers, regulators and policy-makers in the UK, Europe and around the world. She has led a number of projects using the Green Book and WebTAG approach to produce economic and financial cases for clients, including in aviation (Department for Transport, International Air Transport Association (IATA), Airports Council International (ACI), Gatwick Airport), Rail Delivery Group (RDG) and social care (Centrepoin). Michele is a member of ACI Europe's Economics Committee.
- 2.2.19 Andrew Meaney is a Partner and head of transport at Oxera. He specialises in all applications of transport economics, including economic impact assessments, and policy advice, across the sector, including in aviation. Andrew has led the development of evidence to planning inquiries in aviation, maritime, and highways, including appearing as an expert witness. He has supported the Department for Transport with evidence behind its

Transport Appraisal Guidance (on connectivity, option values, and wider economic impacts); and has led a number of projects using the Green Book and TAG approaches to produce business cases for clients, including in aviation (Department for Transport, Gatwick Airport), rail (Rail Delivery Group, Oakervee Review), maritime (Port of Dover, Welsh Government), and highways (Lower Thames Crossing).

- 2.2.20 Celia Baye is a consultant in Oxera's transport practice. She specialises in economic impact assessment, policy advice, regulation, and competition in the aviation sector. Celia has supported airlines, airports, regulators, and policy-makers in the UK and Europe and contributed to a number of projects using the TAG approach and other similar frameworks of analysis to produce economic assessments for clients in aviation (Department for Transport, IATA, Airlines for Europe (A4E), Gatwick Airport, Lyon Airport).

Health and Wellbeing

- 2.2.21 Ryngan Pyper is the Director of Health and Social Impact at RPS. Ryngan is a public health practitioner with the Faculty of Public Health, as well as an Honorary Research Fellow and Member of the World Health Organization Collaborating Centre on Health in Impact Assessments at the University of Liverpool. He specialises in health impact assessments and has over 15 years' experience as a professional consultant. He has a public health, environmental science and legal practice background. He has authored UK and international guidance on health in EIA. He has advised the World Health Organization, United Nations Economic Commission for Europe and the Office for Health Improvement and Disparities on health assessment good practice in spatial planning. Ryngan is chair of the health section of the International Association for Impact Assessment. Ryngan is experienced with aviation projects, as well as many other sectors. As an expert witness Ryngan has demonstrated robust aviation health assessment at Public Inquiry.

Agricultural Land Use and Recreation

- 2.2.22 Julia Tindale is a Senior Director at RPS and has over 30 years of experience in land use, recreation and environmental assessment. During her career, Julia has specialised in the preparation of soils, agricultural and recreation assessments for ESs together with the development and implementation of soil and Public Rights of Way management plans. Julia also has experience of overall project management of large-scale infrastructure projects. Her specialist experience includes road

and aviation projects, mineral extraction and renewable energy schemes as well as a number of large scale residential schemes. Julia has presented expert evidence on soils, agricultural land quality, land restoration, recreation and common land at Public Inquiry and DCO hearings.

Major Accidents and Disasters

2.2.23 Philip Nicholls is a Chief Consultant in the Planning and Environmental Consenting department of Atkins' Infrastructure division. He joined Atkins in 1995. He has nearly 35 years of environmental engineering experience working in the oil & gas, power and transport sectors, both client-side and as a consultant. Philip is a mechanical engineer by training and over the years has come to specialise in the planning, permitting and environmental management of large infrastructure schemes.

Waste

2.2.24 Clare Russell is an Associate Director at RPS with over 20 years' experience in environmental consultancy, specialising in EIA. Clare has managed multi-disciplined teams to deliver high quality ESs for a range of developments including several NSIPs and road improvement schemes. Clare also has a broad range of experience covering other aspect of planning and EIA including due diligence, contaminated land and the management of construction impacts, which has been valuable to clients in understanding potential environmental impacts. Clare has worked closely with Project Directors to successfully deliver a number of high profile ESs. She adopts a proactive approach in building good working relationships within the environ and the client/design teams. Clare is the onshore EIA co-ordinator for BP / EnBW Mona Offshore Wind Farm and is responsible for the preparation of the PEIR. She specialises in assessing construction impacts and the management of construction and operation waste. Clare has also prepared Site Waste Management Plans, Code of Construction Practice documents and Construction Environmental Management Plans.

Cumulative Effects and Inter-relationships

2.2.25 The cumulative effects and interrelationships assessment has been informed by the topic-specific authors mentioned above with input and coordination from the EIA management team at RPS.

3 Glossary

3.1 Glossary of Terms

Table 3.1.1 Glossary of Terms

Term	Description
ACI	Airports Council International
DCO	Development Consent Order
EIA	Environmental Impact Assessment
ES	Environmental Statement
FRA	Flood Risk Assessment
GAL	Gatwick Airport Limited
GHG	Greenhouse Gas
IATA	International Air Transport Association
IEMA	Institute of Environmental Management and Assessment
NSIP	Nationally Significant Infrastructure Project
PEIR	Preliminary Environmental Information Report
SEA	Strategic Environmental Assessment