

Preliminary Environmental Information Report Appendix 1.8.1: Statement of Expertise

September 2021

Our northern runway: making best use of Gatwick

YOUR LONDON AIRPORT Gatwick

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1 Introduction

1.1 General

- 1.1.1 This document forms Appendix 1.8.1 of the Preliminary Environmental Information Report (PEIR) prepared on behalf of Gatwick Airport Limited (GAL). The PEIR presents the preliminary findings of the Environmental Impact Assessment (EIA) process for the proposal to make best use of Gatwick Airport's existing runways (referred to within this report as 'the Project'). The Project proposes alterations to the existing northern runway which, together with the lifting of the current restrictions on its use, would enable dual runway operations. The Project includes the development of a range of infrastructure and facilities which, with the alterations to the northern runway, would enable the airport passenger and aircraft operations to increase. Further details regarding the components of the Project can be found in the Chapter 5: Project Description.
- 1.1.2 This document provides the statement of expertise 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
 - 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 responsible for the proposal to make best use of Gatwick Airport's existing runways (referred to hereafter as 'the Project') 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

2.2.1

Historic Environment

Mick Rawlings is a Technical Director at RPS with 30 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 has prepared and presented evidence on behalf of clients at public and local plan inquiries.

Landscape, Townscape and Visual Resources

2.2.2

2.2.3

Paul Ellis is an Technical Director at RPS who has worked in the landscape sector for over 27 years. 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 (LVIA) for Environmental Statements (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 Development Consent Order (DCO) hearings.

Ecology and Nature Conservation

Nick Betson is a Technical Director at RPS and is a highly experienced ecologist and project manager who has been with RPS 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 (HRA).

Geology and Ground Conditions

2.2.4 Liz Williams is a Principal Geo-Environmental Consultant at RPS with over 15 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 delivered numerous human health risk assessments for contaminated land projects for both

planning and permitting purposes. Liz is a qualified Radiological Protection Surveyor and has had formal training of the United States Environmental Protection Agency (USEPA) Data Quality Objective (DQO) process including use of Visual Sampling Plan software. Liz also has experience of being a key support role at Public Inquiry.

Water Environment

2.2.5 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 Environmental Impact Assessment and FRA across a number of sectors including aviation, highways, rail, water and energy. In addition to planning support Michael is also our LLFA and Environment Agency lead in the south-east leading a team of over 30 responsible for identifying and delivering flood risk mitigation projects. 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 the Cambridge to Huntingdon Improvement Scheme (DCO) for Highways England. Michael is also a member of the Chartered Institution of Water and Environment Managers.

Traffic and Transport

2.2.6 Richard Higgins is a transport planning professional with a Masters degree in Transport Planning and Engineering from the University of Leeds, Institute for Transport Studies and 30 years' experience. He has led technical work relating to Gatwick Airport's surface access strategy since 2012, first as a consultant and since July 2016 as Head of Surface Access Strategy employed by Gatwick Airport Limited. Richard has provided transport modelling and analytical advice to transport assessments in support of major planning applications as well as strategic advice for airport access elsewhere in the UK, Europe and Scandinavia. Richard's role includes setting the strategic direction for surface access to accommodate growth, ensuring Gatwick remains a highly accessible airport for passengers, staff and business partners and fulfilling a technical advisor role on key projects. Richard is also a Member of the Chartered Institute of Highways and Transportation.

Jim Peacock is an Associate Director with 20 years' experience at Arup. Since joining Arup, Jim has attained particular experience in airport planning and airport surface access. Jim is currently Arup's Project Manager for surface access advice to Gatwick for growth to 2040 with a single runway, including the Gatwick Growth Board Connectivity Study as well as the current Master Plan update. Jim recently led feasibility studies, exploring the capacity of the highway network, station and inter-terminal shuttle under Project Genesis. He was also Arup's Project Manager for provision of transport planning services to Gatwick in response to the UK Airports Commission process on additional runway capacity (2013 to 2015). Jim has worked on a range of airport and surface access projects in the UK, Europe, the Middle East, North America and Australasia. He has led multidisciplinary planning and design teams in both the UK, Australia and New Zealand. Jim combines leadership, problem solving excellence, experience and a strong client focus - maximising the value in airport planning and airport surface access.

Air Quality

2.2.7

2.2.8

2.2.9

Michael Bull is an EIA and air quality specialist at Arup with over 35 years of experience. Michael has led air quality assessments on some of the most significant airport projects in the UK including airports, road tunnels and bridge and large road schemes. He is a leading expert witness on air quality for transport projects. Michael has appeared at DCO examinations, at more than 60 Public Inquiries, and in court presenting expert evidence on air quality. This has included evidence on general air quality impacts, dust nuisance and odour impacts covering a wide range of industries. He has led several environmental and air quality assessment projects for airports including the Stansted Generation 1 ES, as Stansted Airport's Environmental Lead on their submissions to the Airports Commission and air quality assessments. Michael has extensive experience of transport infrastructure projects including HS2 where he has been the lead advisor on air quality matters since 2012. Michael has published regularly on air quality assessment and other environmental matters, speaks regularly at conferences and on radio.

Charles Walker is an air quality specialist at Ricardo with over 25 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 and Stansted G1 Public Inquiries. 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

2.2.10 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.

2.2.11 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 have 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 Roberts 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 GAL on assessments for master planning.

Climate Change and Carbon

- 2.2.12 Keith Robertson is a Senior Sustainability Consultant at Arup and has over 13 years of experience in delivering sustainability projects in the public and private sector and on large infrastructure and development projects. Keith's work focuses on bringing together diverse technical expertise to tackle the complex sustainability challenges faced by clients. Taking a systems approach to complexity, Keith can draw on a diverse range of project experience to work with clients and project teams to identify, articulate and deliver their strategic needs. He has 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 is currently delivering carbon and sustainability input to two NSIPs. He has also delivered Sustainability Appraisals for several national and regional spatial strategies. Keith's experience also includes his work with the United Nations Development Programme to develop a ground-breaking study into the carbon impacts of HIV and TB programmes in developing countries.
- 2.2.13 Jake Hacker is a Climate Scientist and Building Physicist at Arup with 22 years' experience of applications in built environment and infrastructure design. Jake's area of work encompasses: applications of climate change projection data; climate downscaling methods; climate change adaption and resilience assessments; climate change science and urban climatology; EIA (climate change resilience and in-combination climate change impacts); and applications of weather and climate data to building and infrastructure design. Jake provides specialist advice to projects using weather and climate data both in the UK and internationally. Jake has also been involved in a number of collaborative research projects with academic institutions including research for the Greater London Authority on the London urban heat island and the generation of Design Summer Year and Future Weather Year data sets for the Chartered Institute of Building Services Engineers. These projects involved extensive use of UKCIP02 and UKCP09 climate change projections and analysis of heatwave events in London over the last few decades. He also led the Arup 'Drivers of Climate Change' climate change initiative to raise awareness of climate change within the firm and externally.

Socio-economic Effects

2.2.14 Ciaran Gunn-Jones is a Senior Director and is Head of Economics at Lichfields and is a leading expert on spatial

economics, policy and strategy. Ciaran woks with developers and investors, Local Enterprise Partnerships and local authorities on the economic evidence for Local Plans, business cases and funding proposals, and formulation place-based investment and delivery strategies. Ciaran also has a wealth of experience in assessing the economic impacts of major development, regeneration and infrastructure projects, and corporate property portfolios. Ciaran's projects include the Metropolitan Line Extension to Watford Junctions, assessing growth options for Letchworth garden City, and preparing an investment and delivery strategy for Worthing town centre.

2.2.15 Matthew Shepherd is a Principal at Oxera and has wide ranging experience across the transport sector, including in demand forecasting, economic impact assessment, litigation, and policy advice. He has led projects using the Green Book and WebTAG to produce economic and financial cases for clients as diverse as the UK Department for Transport (DfT) and clients across Europe as well as Gatwick Airport. Matthew has produced demand forecasts for bus concessions in the Netherlands and contributed to the business case for transport infrastructure in continental Europe. His experience includes advising clients and local planning authorities in relation to assessments for 'Very Special Circumstances' and has advised a client on the realism of demand forecasts for a rail infrastructure project to inform the client's engagement with the relevant government body. Matthew is also a member of the International Association of Public Transport's (UITP) Transport Economics Commission.

Health and Wellbeing

2.2.16

Andrew Buroni is a Director of Health and Social Impact Assessment at Savills and is a Health and Social Impact Assessment Practice Leader with over 13 years of project experience in leading international health and social impact assessment in the civil aviation, transport, energy (including nuclear power), oil and gas, waste management, spatial planning, regeneration and sustainable development sectors. Andrew is a Fellow of the Royal Society of Medicine and is currently the only person to hold a PhD on international Health Impact Assessment (HIA) methods and best practice. He has designed, delivered and defended some of the most complex planning focussed examples of HIA globally, including the first HIA of a New Nuclear Power Station. Andrew provides clients with specialist advice on clarifying potential health and social outcomes, separating perceived impacts from actual risk, assessing the distribution, significance and likelihood of potential health outcomes and the provision of bespoke Health Action Plans geared to addressing

existing burdens of poor health, inequality and improving community health.

Agricultural Land Use and Recreation

2.2.17

2.2.18

Julia Tindale is a Senior Director at RPS and has over 25 years of experience in land use and environmental assessment. During her career, Julia has specialised in the preparation of soil resource, agricultural, assessments for ESs together with the development and implementation of soil handling and restoration strategies from mineral and other construction sites. This includes experience in England, Wales and Scotland. Julia has presented expert evidence on soils, agricultural land quality and restoration at Public Inquiry. She has also managed research on behalf of the Department of Environment which resulted in the publication of good practice guidance on the Reclamation of Mineral and Landfill Workings to Agriculture (1996). Julia has carried out monitoring of soil handling operations on individual mineral and development sites including Channel Tunnel Rail Link, Eton Rowing Course, Southern Water Wastewater Treatment Works, Trefigin Sand and Gravel Quarry, A3 Hindhead and Ffos y fran opencast coal restoration. Julia has also given Professional Witness evidence at Public Inquiry.

Major Accidents and Disasters

Daniel O'Kelly is a Practice Manager at Atkins and is a Chartered Environmentalist, IEMA Registered Environmental Impact Assessor and technical expert in environmental assessment and management with over 17 years' experience leading multidisciplinary environmental issues for major infrastructure schemes in the UK and internationally. Daniel has specialisms in the transport, utility and energy sectors and has extensive experience of working in integrated DCO schemes, including most recently Port of Tilbury, Wrexham Energy Centre and M25 J28 and all stages of the HS2 Hybrid Bill. Dan is also currently acting as lead environmental advisor for Heathrow Strategic Planning Group, an organisation comprising of the local authorities around Heathrow. For this, Daniel is responsible for the monitoring, challenging and informing Heathrow Airport Limited's EIA process and emerging masterplan designs, and steering scheme development by shaping the shared local authority position in the form of Position Papers to deliver a better scheme for local communities.

Waste

2.2.19 Clare Russell is an Associate Director at RPS with over 15 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 was the EIA co-ordinator for Hornsea Project Two Offshore Wind Farm and was responsible for the preparation of the ES. 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

2.2.20 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
DCO	Development Consent Order
DfT	Department for Transport
DQO	Data Quality Objectives
EIA	Environmental Impact Assessment
ES	Environmental Statement
FRA	Flood Risk Assessment
GAL	Gatwick Airport Limited
HIA	Health Impact Assessment
HRA	Habitats Regulations Assessment
IEMA	Institute of Environmental Management and
ILIVIA	Assessment
LLFA	Lead Local Flood Authority
LVIA	Landscape and Visual Impact Assessment

Term	Description
NSIP	Nationally Significant Infrastructure Project
PEIR	Preliminary Environmental Information Report
UIPT	International Association of Public Transport's
USEPA	United States Environmental Protection Agency