

Ballyfeeny Green Energy Project



Environmental Impact Assessment Report Volume III

Appendix 1.1 - Project Competencies

September 2025

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James Massey

BSc Hons , DSc, PhD

James is a technical lead in Environment and Planning and is a specialist in marine and coastal ecosystems and associated marine issues, as well as geographical information systems (GIS). He has over 25 years' experience of terrestrial, coastal and marine projects, carrying out scoping, feasibility, site selection SEA, EIA and Habitats Directive Assessments, including European Protected Species Assessments, Critical Habitat Assessment and IFC projects. James has over 25 years' experience of strategic and project assessment, planning and his experience includes national infrastructure, asset, projects and remediation, conservation, restoration and rehabilitation projects, He has acted as technical advisor to agencies, governments and companies on major marine issues including government policy.

Qualifications

2018 PhD Engineering, University of Glasgow
 2012 DSc Engineering, University of Arizona
 2011 PGDIP ProjMan & Comms, Fitzwilliam Institute, Dublin
 2002 GIS Masters course as part of PhD, University of Edinburgh
 2001 Adv Dip EnvMan, University of West Scotland
 1998 BSc Hons Applied Marine Biology, Heriot-Watt University

Certifications

HSE Commercial Diver Part IV

ISM, ISPS, MLC Maritime Internal Auditor, Lloyd's Maritime Institute

Lloyd's Maritime Institute
 Environmental Compliance and Auditing,

Arabian Marine Species Observer, AVITEC, JNCC and IWDG MMO

Certified Environmental Specialist, US Environmental Protection Agency

ASTM Environmental Regulatory Compliance Audits, AECOM

Chartered Environmentalist (CEnv)
 Chartered Scientist (CSci)

Areas of Expertise

- ✓ Marine habitat mapping and protected area assessments,
- ✓ Mitigation design and implementation,
- ✓ Climate Change, resilience, coastal management, coastal risk, coastal squeeze and coastal restoration and realignment
- ✓ Marine Legislation and Marine Licensing inc. Foreshore Licence, Dumping at Sea Marine Discharge consents, Oil and gas and renewables,
- ✓ Marine Policy, MSFD, WFD and Marine Spatial Planning, Marine SEA expert
- ✓ Strategic Environmental Assessment, Environmental Impact Assessment and EIS production.
- ✓ Ecological survey – coastal, marine and offshore (inc. Commercial Diving)
- ✓ Client Representative, Environmental Clerk of Works, Environmental Compliance Auditing and Due Diligence, Construction and Operational Environmental Management, Auditing and Monitoring
- ✓ Geographical Information Systems (GIS) and spatial analysis

Relevant Experience

Rowan Engineer Consultants Ltd, Ireland, 2022 – Present

BDC/KAUST 2018 – 2022, Senior Marine Project Manager

AECOM ME, 2015 - 2018 Technical Director, Environment

RPS Group Ltd, 2008 - 2015 Associate Director, Marine Sciences

Jacobs Engineering 2007 – 2008, Principal Marine Consultant and Marine Environmental Advisor to Dublin Port

ERT Scotland (Fugro), 2004 – 2006, Senior Marine Consultant GIS

BMT Cordah, 2002 – 2004, Senior Marine Consultant and GIS

W S Atkins, 2001 – 2002, Marine Scientist

University of Glasgow, 1999 – 2001, Marine Biotechnology Centre Researcher

- **Planning EIA and NIS (confidential)** for energy projects including wind, solar, BESS and national infrastructure and interconnector project
- **Planning, EIA and AA** (various) national upgrade programme of Group Water Schemes and national Water treatment plants in relation to water standards and UV filtration and THM stripping
- **National Heritage Structures** Planning and NIS / HRA for upgrades to National Trust (NI) and National Heritage facilities including onsite waste water upgrades, helicopter connectivity and drone facilities
- **Belgrade – NIS Rail upgrade** – Environmental Expert on behalf of EDRB
- **National Parks and Reserves** - Environmental expert for strategy zoning and masterplanning for Royal reserves and national parks in KSA and UAE
- **DECCA** – expert reviewer for the inception and development of the strategy remit and KPIs for the Dubai Environmental and Climate Change Authority
- **NCW** – KSA author of national standards guidelines and licencing drafting for NCW responsibilities on marine sustainable management, wildlife, trade and hunting regulations
- **NEOM** = Senior Marine Environmental Specialist and reviewer assessing ESIA, CEMP, masterplans development plans, conservation and restoration plans, OSCP and OSR for northern Red Sea
- **NPWS** – drafting revision of the national guidelines for man made noise in the marine environment

SEA and Strategic experience

- **EU Red-list Project** (DG Env) Expert input into the development of a EU Redlist of habitats, including specific input for cold water corals (2015-2016).
- **National Strategic Plan for Aquaculture 2014-2020 – SEA and AA Technical advisor (Bord Iascaigh Mhara)** Support to BIM for the SEA and development of the AA methodology for assessment of the National Aquaculture Policy. Co-ordinating workshop as part of Scoping and marine SEA and expert input (2013 – 2018)
- **Aquaculture Licence Appeals Board (ALAB) Technical Advisor** - Technical Advisor to the Aquaculture Licence Appeals board, independent licence appeal review. Assessment of applications and appeals, site visits and investigation, and preparation of Technical Advisor reports, technical advisor to oral hearings, expert witness in judicial appeal cases. (2011 - Present)
- **2016 WFD Transitional & Coastal Waters Morphological Impact Assessment System (TraC- MImAS) Project (EPA)** – Project Manager for developing updated TraC-MImAS data and assessments to support determination of the hydromorphological condition of a selection of transitional and coastal (TraC) water bodies in Ireland for the 2nd WFD reporting phase planning marine legislative review. (2010-2012)
- **National Shellfish waters** – technical support for delineation of the national shellfish waters and SEA of the implementation of the plan
- **Marine Strategy Framework Directive (Marine Institute)** – RPS appointed as Technical Advisor for the implementation of the Directive. Projects included the SEA of the programme implementation
- **Atlantic Network for Coastal Risk Management ANCORIM** (NUIG, Mayo County Council) – Developing European Best Practice Handbook for coastal planners to include coastal risk assessment in decision making. Review of coastal planning on the west coast of Europe and development of methods for the inclusion of coastal risk consideration through existing planning, SEA and EIA. (2011-2012)
- **Island Waterways Navigation programme** – SEA and EMP for Island Waterways Navigation upgrades.
- **UK National Coastal Monitoring Strategy (DEFRA)** - (2011 – 2013) Framework Manager for Bathymetry, Aerial Photography, and LiDAR and Survey Manager for Marine Ecology lot, of 4 year national framework.
- **Support for Marine Conservation Objective Setting** - Project Manager and GIS Manager for the provision of support for assessment of marine Natura 2000 sites and determination of community types and Conservation Objectives. (2010-2011)
- **Sustainability Appraisal MMO implementation** Sustainability appraisal (strategic environmental socio-economic, equality and health impact assessment) for the implementation of the Marine and Coastal Access Act into Northern Ireland (2009).
- **SSMEI (2003)** Scottish Sustainable Marine Environmental Initiative, Scottish Executive. Identifying and assessing the nature, scale and potential of the environmental, social and economic resources within the limits of Scottish territorial waters and the current and future challenges. Identify the principles and possible examples on which management models may be based, taking into account existing mechanisms such as SEA and ICZM for sustainable development. Produce options for policy objectives and approaches for the sustainable development of Scotland's marine resource under phases II and III of this work.
- **Fisheries Resource Assessment (2002)** GIS constraints analysis of area available to fisheries in Scotland, looking at overall constraints and enforced high pressure areas for various gears and catches.

- **IOSEA5** Independent specialist and reviewer of the SEA and AA.
- **IOSEA2** Supporting delivery and author of the SEA and public consultation
- **IOSEA1** Primary author and Project Manager for delivery and public consultation.
- **UK National Coastal Monitoring Strategy** (DEFRA) - (2011 – 2013) Framework Manager for Bathymetry, Aerial Photography, and LiDAR and Survey Manager for Marine Ecology lot, of 4 year national framework.

Detailed experience

- **Amaala** –ESIAs for marine construction, Baseline Survey and Strategic and ecological studies, Critical habitat report, turtle and bird surveys, marine ecological baseline surveys, species mitigation reporting, construction strategies, CMP and DMP advisory services to IFC and National Standards. PM and client rep.
- **SWCC** – ESIAs for deep water RO test facility and baseline surveys for combined heat power and water plant facilities
- **Jeddah Central Development Company** – detailed masterplan and oceanarium design advisory services including contaminated marine remediation and habitat creation. ESIA baseline surveys and assessment (BDC) ESIA lead for Scoping studies of the Jeddah Downtown redevelopment project (AECOM).
- **PMBS Reserve** – Support to zonation and marine strategy including development of conservation objectives and ranger programme and baseline assessments
- **The Red Sea Development Project** – Marine consultant supporting ESIA, design guidelines and IFC assessment- major dredging and marine construction, reclamation, offshore infrastructure, cables pipelines, windfarms, PV, airport, 49 hotels and resorts on 20 island developments, surveys, ESIA and CEMP to IFC and National Standards.
- **NEOM** – Marine consultant supporting ESIAs, design guidelines and IFC assessment –CMP Silver Beach ESIA, environmental monitoring programme, State of Environment, site and island ESIA, construction supervision management to IFC Standards.
- **NEOM Green Hydrogen Project** – Lenders Engineer – PS6 review and audit.
- **60 Investments –Delivery of ESIA and EMP for GI, ESIA for Enabling Works and Concept Master Plan Private Office** – Island resort **60 Investments –ESIA for delivery of rapid resort development** – small scale island resort development on Royal Court site.
- **Subsea cable landings**, four projects with KSA landings and routing, Permitting and ESIA.
- **Mirfa IWPP, Mirfa Independent Power Company, UAE, 2015-ongoing** Marine scientist leading the implementation of marine surveys, as part of the OEMP for the 1,600 MW water and power plant. Delivery of ESIA, CEMP, OEMP, IFC PS6 Plan and reporting, Marine Compensation Plan.
- **Sweihan 3D Seismic**, Argas, ongoing, project director and technical review for a 3800km2 seismic inshore survey covering Sweihan and southern Dubai municipality areas.
- **QRail Green Line extension**, ongoing, EIA for extension to the green line in Doha. Project Director for EIA and EBS review.
- **QEZ**, 2015-2021, SEA and CEMP for land clearance and costal development for the Qatar Economic Zone
- **North Oil Company** Due Diligence, Environmental Baseline assessment and ESIA of Initial Field Development Plan, Al Shaheen 2017-2019 Project manager for three projects supporting taking over of operations of the Al Shaheen field by NOC (a Total /Qatar Petroleum Company)
- **Environmental study for development of renewable energy, energy storage and meshed grid in the North and Irish Seas** (DG Energy) Independent expert – SEA and feasibility
- **Ghasha Phase 1 and Phase 2 Seismic Survey HSEIA, UAE**, ADNOC and ADOC (ongoing) including HSEIA variation for shallow water and land seismics.
- **Upgrading Nautical Channels at Mesaieed Port, Qatar** Technical review of EIA responses and revision Feasibility and EIA for onshore and offshore sediment disposal options. Development of BPEO.
- **Port of Dakkar, Senegal DP world** Ongoing Marine technical expert for Scoping and EIA for Dakkar port development Senegal.
- **North Oil Company** Due Diligence, Environmental Baseline assessment and ESIA of Initial Field Development Plan, Al Shaheen 2017-2019 Project manager for three projects supporting taking over of operations of the Al Shaheen field by NOC (a Total /Qatar Petroleum Company)
- **Environmental study for development of renewable energy, energy storage and meshed grid in the North and Irish Seas** (DG Energy) Independent expert – SEA and feasibility.
- **Marine Strategy Framework Directive (Marine Institute)** – RPS appointed as Technical Advisor for the implementation of the Directive. Projects include development of an Irish Marine Atlas, GIS assessment and production of reporting to Europe on Ireland marine characteristics, pressures activities and setting Good Environmental Status. RPS Co-ordinator, GIS delivery, Pressures and Impacts analysis. (2012-2016)

- **Ireland Scotland Energy Links Study ISLES Project** (Scottish Government, the Northern Ireland Executive and the Government of Ireland) - Feasibility & cost - benefits of the commercial construction of an off-shore electricity transmission network linking potential offshore sites for the generation of renewable energy. Resource assessment, grid modelling and high-level design, construction feasibility and capacity requirements, planning and environmental constraints analysis, market and regulatory barriers. Lead the marine constraints analysis, legislative assessment, GIS, & Analysis. Routing constraints, environmental and planning marine legislative review. (2010-2012)
- **East Tip, Haulbowline (Cork Co Co)** RPS was appointed to conduct the EIA and outline design for the remediation of the East Tip waste site a marine area of a former steel works, as a PES and capped structure with amenity parkland. ES co-author and responsible for ecological assessment, NIS co-author, RFI response, marine and foreshore planning and expert witness at ABP Technical SID oral hearing (2011 – 2015). RPS was then appointed to manage the remediation of the East Tip site including risk management, design, procurement, CEMP, HSE, OEMP and ECoW (2015 – 2017)
- **Environmental Liability Risk Assessment**, (EPA), RPS was appointed by the EPA to evaluate environmental liability risk and provisions at major (SERVISO) sites in Ireland. Review of disaster management plans, EMP, SERVISO plans and environmental liability assessments at oil storage and refinery sites (2013-2015).
- **2014 WFD Transitional & Coastal Waters Morphological Impact Assessment System (TraC- MImAS) Project** (EPA) – Project Manager for developing TraC-MImAS data and assessments to support determination of the hydromorphological condition of a selection of transitional and coastal (TraC) water bodies in Ireland for the WFD reporting phase. Tasks included collated/generated new national GIS spatial data; developed the process and application of TraC-MImAS to improve confidence in data/results and ensure ease of replication for future developments or improvements; and reporting (2013-Present).
- **2011 – 2014 Oil and Gas Exploration Activities (Multiple clients) for offshore Seismic Surveys and Well Drilling and Foreshore licences** (various) – Application advisory services and applications for Irish oil and gas industry, six applications 2011, four in 2012, three in 2013 and all six seismic applications in 2014, currently preparing drilling and seismic applications for 5 wells and 2 surveys in 2015. Undertaken services on all offshore exploration operations since 2011. EIA, environmental assessment, Habitats Directive (Article 6 and 12) Assessments, oil spill contingency planning and foreshore licensing. Project manager and expert advisor. Manager for Operations services, FLO, MMO, Archaeologist, QA/QC personnel, HSE and Audit personnel. Country entry advisor environmental legislative review & environmental reporting for onshore and unconventional prospects in Ireland and UK.
- **Environmental Liability Risk Assessment**, (EPA), RPS was appointed by the EPA to evaluate environmental liability risk and provisions at major (Serveso) sites in Ireland. Review of Disaster management plans, SERVISO plans and environmental liability assessments at oil storage and refinery sites (ongoing).
- **Support for Marine Conservation Objective Setting** - Project Manager and GIS Manager for the provision of support for assessment of marine Natura 2000 sites and determination of community types and Conservation Objectives. (2010-2011)
- **Dublin Port Company (multiple projects) (2006 - 2009)** Environmental Advisor - Dredging, dumping at sea, planning and foreshore applications for multiple developments in the Port area. Included decommission and recommissioning work and preparatory assessment of the Alexandra Basin redevelopment. Other work including design and licensing of a capped dredge disposal in Dublin Bay. Benthic, chemical and SPI camera survey manager and survey team member. Client representative for Marine GI, seismic survey and sedimentary analysis. Waste license applications for ongoing works. DPC GIS management system. Development of a GIS system for information across operations, developments and Asset Management. Database management of existing document and asset management systems and implementation of CoreTools to allow easy user navigation. Developed outline, approach and scoping, including Strategic Environmental issues report for the DPC Masterplan, the Shadow Strategic Environmental Assessment and Natura Impact Assessment
- **Water Framework Directive; Transitional and Coastal Waters (TraC)** (2006-2009) National implementation, including Transitional and Coastal Waters Morphological Impact Assessment System (TraCMImAS) assessment for Ireland.
- **Environment Agency** Hayling Island,. An assessment of intertidal habitat loss due to coastal squeeze. Risk assessment of sea level rise and climate change effects, development of Environment Agency criteria for managed realignment

Renewables Experience

- **EIA and Planning** for renewable upgrades to hospital infrastructure (Ire and NI) ongoing
- **EIAR support (NF)** Expert input into 6 ongoing planning application for community turbine schemes in Ireland. Ongoing planning, EIAR, AA, consultation under Co Co and ABP
- **EIAR Co-ordinator (NF)** EIA lead for 2 onshore wind farm developments in Ireland currently in CMP stage. SID application, survey co-ordination, EIAR, AA etc.
- **Solar farm siting and cable feasibility Red Sea** Project manager for siting of solar farms, associated ecological survey. Marine island connectivity, constraints assessment, multibeam and ecological survey.
- **Helios – Green Hydrogen plant Red Sea** siting assessment and broad scale environmental issues appraisal for green hydrogen and IPW Plant in Red Sea.
- **Ireland Scotland Energy Links Study** ISLES Project (Scottish Government, the Northern Ireland Executive and the Government of Ireland) - Feasibility & cost - benefits of the commercial construction of an off-shore electricity transmission network linking potential offshore sites for the generation of renewable energy. Resource assessment, grid modelling and high-level design, construction feasibility and capacity requirements, planning and environmental constraints analysis, market and regulatory barriers. Lead the marine constraints analysis, legislative assessment, GIS, & Analysis. routing constraints, environmental and regulatory co-ordination.
- **Environmental study for development of renewable energy, energy storage and meshed grid in the North and Irish Seas** (DG Energy) Independent expert – SEA and feasibility
- **ORESG Consultancy Support** – (SEAI) Expert input for their delivery of support consultancy to the Steering Group for the implementation of the Offshore Renewable Energy Development Plan. Expert input to first phase, a structured review of marine datasets to determine the availability and quality of data required for the determination of feasibility and the development of offshore renewable energy infrastructure. Expert input included representing Ireland at the **RiCORE (Risk Based Consenting for Offshore Renewable Energy)** project workshops in Bilbao and Paris
- **Port of Dakkar**, Senegal DP world Marine technical expert for Scoping and EIA for Dakkar port development Senegal including renewables energy offset
- **Noor Solar Park, UAE (1.18GW)** PV Plant, ESIA advisory, mitigation and plan for Spiny Tailed lizards relocation for ME largest PV facility
- **Port of Sheerness** Environmental Impact Assessment (Peel Ports) Marine ecology chapters (2011-2012) for Europes largest port expansion and renewables manufacture park.
- **Gridlink** - Overground Underground (EirGrid) Comparative feasibility study determining route options for major electricity grid reinforcement. including risk prediction and mitigation; analysis of regulatory and consenting regime change and mitigation of same (through consultation). Marine cable routing lead for offshore interconnector option , cost & feasibility expert.
- **North South Interconnector** Comparative feasibility study determining route options and environmental constraints
- **Bellmullet renewables test facility**- baseline survey for ecology and oceanography. EIA screening for test units and deploy,ents including AA
- **Galway renewables test facility** – ecological baseline and AA screening for cabling and sensor arrays
- **Blyth Renewables research facility** – EIA for construction of the Blythe renewables test facility. EIA for anchored floating wind and tidal test rig.
- **Thames Gateway**- input into zoning and Sustainability appraisal
- **Moy windfarm** – EIA support and review
- **Stonehaven windfarm** - EIA support and review
- **Lundy offshore windfarm** EIA and specialist support for operational maintenance issues due to red listed species biofouling of towers (EU AA derogation)
- **Singapore Tengeh Reservoir floating PV** feasibility study and biofouling and water quality expert advisory.

Board and Committee Experience:

- **Maritime Area Regulatory Authority** (Department of Environment, Ireland) Board member for inception and commencement of new marine authority in Ireland. ARC member, and S&T Committee member Recently appointed as **Chair of Maritime Area Science and Technology Committee**
- **Seascope Council** – (KSA) Marine and coastal governance committee

- **National Guidelines** - expert and drafted guidelines for maritime and coastal archaeology (KSA and UK), Scientific Diving (Scotland, UAE, KSA,) National guidelines and standards for Hunting, Wildlife trade, Marine protection and licencing and marine transport (NCW KSA) Marine development (Ireland NPWS and PAD)

Areas of Expertise

- ✓ Marine habitat mapping and protected area assessments,
 - ✓ Mitigation design and implementation,
 - ✓ Climate Change, resilience, coastal management, coastal risk, coastal squeeze and coastal restoration and realignment
 - ✓ Marine Legislation and Marine Licensing inc. Foreshore Licence, Dumping at Sea Marine Discharge consents, Oil and gas and renewables,
 - ✓ Marine Policy, MSFD, WFD and Marine Spatial Planning, Marine SEA expert
 - ✓ Strategic Environmental Assessment, Environmental Impact Assessment and EIS production.
 - ✓ Ecological survey – coastal, marine and offshore (inc. Commercial Diving)
 - ✓ Client Representative, Environmental Clerk of Works, Environmental Compliance Auditing and Due Diligence, Construction and Operational Environmental Management, Auditing and Monitoring
 - ✓ Geographical Information Systems (GIS) and spatial analysis
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- ✓ CEnv(2011),
 - ✓ CSci (2012),
 - ✓ FEnvSc (2015),
 - ✓ MEI (2022)
 - ✓ MSPE (2020),
 - ✓ GESAMP Expert,
 - ✓ GASCO,
 - ✓ EFAEP,
 - ✓ MWSA,
 - ✓ AMMOA,
 - ✓ AIMAREST,
 - ✓ MAECOW

https://www.researchgate.net/profile/James_Massey6

<https://www.linkedin.com/in/jamesrcmassey/>

Papers and Publications

Massey J Al Suwailam, A (2022) Osprey nests as a potential habitat for lizard species on Red Sea islands ScienceDirect

Massey J (2022) Methods for Relocation of Osprey nests on N Red Sea islands, an Initial Review, TheIIR, 2022

Massey J (in prep) Estimating Seagrass for EIA purposed in the ArabianGulf, Journal of Environmental Sciences, 2021

Massey J (2017) Ireland The Oil and Gas Law Review, Third Edition, Law Business Research , London

Massey J (2015) Ireland The Oil and Gas Law Review, Second Edition, Law Business Research , London

Massey J, Forde J, Parry G (2015) Proceedings of the Cold Water Coral and Offshore Hydrocarbon Exploration Operations on the Irish Atlantic

Margin. Irish Offshore Operators Association, Dublin
https://iooa.files.wordpress.com/2015/06/iooa_cold-water-corals-workshop-report_december-2014.pdf

Massey J (2013) Ireland. In Strong C (ed) 2014 The Oil and Gas Law Review, Law Business Research , London

Massey J (2013) Consenting for Exploration activities in Irish Waters, current requirements and future developments. Proceedings of 1st Ireland Oil and Gas Summit, Dublin 2013

Massey J, Lynch, K and De Lucia A, (2013) Incorporating coastal risk within coastal planning, a practical decision making approach, ENVIRON 2013, Galway January 2013.

Massey J, Lynch, K and De Lucia A, (2012) Decision Making and Coastal Risks: A Good Practice Guide, Handbook, Didactic Tool 4 Atlantic Network for Coastal Risk Management Project.

Massey J (2012) Using existing legislative and planning frameworks to integrate coastal risk consideration into coastal decision-making via SEA (D.Sc Thesis)

Massey J (2011) Considering Coastal Risk within existing Decision Making and Legislation within the EU, Atlantic Network for Coastal Risk Management Workshops, Mareenes France and Westport, Ireland

Massey J (2012) The use of Geographical information Systems and community mapping as a tool for environmental risk assessment in the UK marine industries (PhD Thesis)

Massey J (2010) Marine Spatial Planning, Marine Strategy Directive Implementation in the UK and Ireland, Proceeding of Sustainable Ocean Summit, World Ocean Council, Belfast

Baker, Fortune, Gilliland, Massey, & Jones (2004) Identification of marine habitats relevant to SAC's, English Nature Research Paper, English Nature, Peterborough.

Longley A Margetts D McWilliams L & Massey J (2002). Groundwater Recharge in Urban Areas. Environment Agency R&D Report 1792.

Massey (2002) The use of Transas and IHO data with existing national and local authority systems as the basis for marine integrated planning (MPhil Thesis)

Massey J (2001) Habitat Mapping for the Central North Sea. ICES SGMHM/09/01 and Massey J (1999) Habitat Mapping of UK North Sea ICES SGMHM/03/99 also cited in OSPAR Contributions to OSPAR and DETR reports on Integrated Coastal Mapping in the UK.

Massey J (2001) Mapping Marine Biological Information. Scottish Association of Marine Sciences Journal, August 2001.

Massey J (2000) Methods of Geospatial Analysis of Marine Benthic Data in Offshore Areas Based on Existing Information. Oral Presentation.

New Directions in Marine Science Forum, Oban, Scotland.

Massey J (1998) Development of survey methods and assessment of seagrass density and juvenile fish assemblages within Turtle Harbour, a proposed Marine Protected Area (BSc Thesis)

James is a technical lead for Environment and Planning and business lead in marine and coastal ecosystems and associated marine issues, as well as geographical information systems (GIS). James is also an marine survey specialist, company Diving Officer, commercial diver and vessel auditor. James has over 20 years' experience of terrestrial, coastal and especially marine projects, carrying out scoping, feasibility, site selection SEA, EIA and Habitats Directive Assessments, including European Protected Species Assessments, Critical Habitat Assessment and IFC projects. James is a senior consultant and business lead in marine and coastal sciences. James has extensive experience of marine coastal and terrestrial projects, carrying out scoping, feasibility, site selection SEA, EIA and Habitats Directive Assessments, including Protected Species Assessments. James has acted as environmental and technical advisor to agencies, governments and companies. James has acted as environmental advisor for ship groundings incidents in the EU and Middle East.

In addition, James has carried out a number of marine (and terrestrial), assessing the designation features and assessing potential impacts and conservation objectives, as well as assessments related to EIA and SEA. James provides project and government advisory services on major marine issues including government policy, MSFD, WFD, seafood and aquaculture, marine spatial planning and marine infrastructure development.

- Marine habitat mapping and protected area assessments,
- Mitigation design and implementation,
- Climate Change, resilience, coastal management,
- coastal risk, coastal squeeze and coastal restoration
- and realignment
- Marine Legislation and Marine Licensing – Foreshore
- Licence, Dumping at Sea Marine Discharge consents,
- Petroleum Exploration and renewables,
- Marine Policy, MSFD, WFD and Marine Spatial Planning, Marine SEA expert
- Strategic Environmental Assessment, Environmental
- Impact Assessment and EIS production.
- Ecological survey – coastal, marine and offshore (inc.
- Commercial Diving)
- Client Representative, Environmental Clerk of Works,
- Environmental Compliance Auditing and Due
- Diligence, Construction and Operational
- Environmental Management, Auditing and Monitoring
- Geographical Information Systems (GIS) and spatial analysis



Jessica Boyd

MSc, BSc

Environmental Consultant

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Areas of Expertise

- ✓ **Project Management**
- ✓ **Environmental Impact Assessment Reports**
- ✓ **Annual Environmental Reports**
- ✓ **Environmental Report Writing**
- ✓ **Appropriate Assessment Screening Reports**
- ✓ **Data preparation, Analysis & Review**
- ✓ **Phase 1 Environmental Due Diligence Reporting**
- ✓ **Environmental Monitoring / Sampling**
- ✓ **Environmental Site Audits**

Qualifications

- **BSc Environmental Management**
- **MSc Spatial Planning: Cities, Water & Climate Change**
- **Micro-credential from NUI on Marine Renewable Energy Developments**

Relevant Experience

Rowan Engineering Consultants Ltd, Trim, Ireland

Senior Environmental Consultant, (February 2024 – Present)

- Working with clients in preparation of Environmental Planning Applications, Environmental Impact Assessment Reports, Environmental and Planning Reports, Construction Environmental Management Plans and EIA Screening Reports;
- Preparing Annual Environmental Reports and Environmental Performance Reports for clients to ensure their site activities are compliant and within their licensed emission limit values; and
- Completing Phase I Due Diligence desktop and drafting detailed reports for clients prior to purchasing properties

Environmental Consultant, OES Consulting, Warrenpoint, N. Ireland (January 2020 – January 2024)

- Environmental Report Writing including support and writing of various EIAR Chapters, Environmental Reports, EIA Screening Reports, AA Screening Reports, Annual Environmental Reports and Environmental Performance Reports.
- Liaising with public bodies such as the EPA, An Bord Pleanála and Local Authorities throughout Ireland.

Research Associate – Queens University Belfast & Belfast City Council (June 2019 – December 2019)

- Data research and collection for Belfast's Transport and Domestic sectors



Rowan Engineering Consultants

- Communication with Belfast City Council and conducting interviews with Translink CEO
- Support Belfast City Council in funding projects for electrical vehicle infrastructure including the successful application of the Virgin Park and Charge project,
 - Dealing with financial administration while securing a project manager for the role.
 - Liaising with the Innovate UK Finance team and CX admin to ensure all procedures were followed for the quarterly draw down of funds, checking consortium agreement terms and researching any areas which required further detail.

Projects:

Place-based Climate Action Network (P-CAN) (June 2019- December 2019)

- Researching Belfast's Transport and Domestic sectors through data collection and conduction of interviews with decision makers in the public.
- Analysis and data interpretation of results in order to contribute to the writing of a published academic paper: 'Net-Zero Carbon Roadmap for Belfast', (Gouldson, A., Sudmant, A., Boyd, J., Williamson, R., and Slevin, A., 2020).

Astellas Ireland Pharmaceutical Fill-Finish Facility Environmental Report, Tralee, Co. Kerry (June 2022- November 2023)

- Project Support in preparation of the Environmental Report and EIA Screening Report for Astella's new €330 million manufacturing facility at Kerry Technology Park in Tralee, Ireland.
- Managing and liaising with all subconsultants together with the Design Team to ensure all project deliverables were met in a timely manner.
- Writing of numerous Chapter as part of planning application which lead to successful grant of planning permission

Astellas Ireland concurrent planning application to Pharmaceutical Fill-Finish Facility for development of a Line Cable Interface Mast (LCIM) Environmental Report and AA Screening Report, Tralee, Co. Kerry (June 2022- November 2023)

- Managing and liaising with all subconsultants together with the Design Team to ensure all project deliverables were met in a timely manner.
- Writing of an Environmental Report and AA Screening Report which lead to successful grant of planning permission

Astellas Ireland Pharmaceutical Solar PV Array Environmental Report, Killorglin, Co. Kerry (October 2023 - December 2023)

- Managing and liaising with all subconsultants together with the Design Team to ensure all project deliverables were met in a timely manner.
- Writing of an Environmental Report and AA Screening Report which lead to successful grant of planning permission



Annual Environmental Reports (AER's) and Environmental Performance Reports (EPR's) prepared for Kerry Ingredients & Flavours – Listowel, Kerry Derry Ireland, Dawn Meats Charleville, Roches Feeds and Glanbia Virginia (February 2020- March 2023)

- Data collection, management and summarising of environmental data including resource emissions
- Analytical thinking and interpretation
- Proficiency in Excel to interpret raw data required to write AER's acceptable to the EPA

Michael F. Quirke & Sons Quarry Extension EIAR, Rangue, Killorglin Co. Kerry (February 2020- April 2021)

- Managing and liaising with all subconsultants together with the Design Team to ensure all project deliverables were met in a timely manner.
- Writing of numerous EIAR Chapters as part of planning application

Michael F. Quirke & Sons, continuation of use of Sand & Gravel Quarry EIAR, Bunaderreen, Waterville, Co. Kerry (April 2021 – June 2022)

- Managing and liaising with all subconsultants together with the Design Team to ensure all project deliverables were met in a timely manner.
- Writing of numerous EIAR Chapters as part of planning application

Geosynthec Consultant Ltd., M1 Business Park EIAR, Lusk, Co. Dublin (February 2024 – June 2025)

- Liaising with subconsultants together with the Design Team to ensure all project deliverables were met in a timely manner.
- Writing of numerous Chapter as part of planning application
- Responding to council request for Further Information

Fahan Wind Ltd., Wind Turbine Development, Upper Illies, Co. Donegal (March 2024 - June 2025)

- Project Management
- Preparing fee proposal for client review
- Preparation of the Planning application pack
- Writing of Environmental and Planning Report, EIA Screening Report and Construction Environmental Management Plan (CEMP) which lead to successful grant of planning permission

Phoenix Rock Enterprise Ltd., Rahinmore, Co. Westmeath (December 2024- August 2025)

- Project Management
- Preparing tenders and managing subcontractor costing
- Preparation of the Planning application pack
- Writing of Environmental and Planning Report, EIA Screening Report and Environmental Management Plan (EMP)

Noriker, Battery Energy Storage System, Knockraha, Co. Cork (September 2024 – Ongoing)

- Project Management
- Preparing tenders and managing subcontractor costing
- Writing of Environmental and Planning Report, EIA Screening Report and Environmental Management Plan (EMP)



- Preparation of the Planning application pack
-
- Responding to council request for further information

Ballyfeeny Green Energy Limited, Windfarm Development EIAR, Ballyfeeny, Co. Roscommon (March 2024 – September 2025)

- A site walkover of the site was carried out together with river water sampling.
- EIAR coordinator / Project Manager
- Writing of numerous EIAR Chapters

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Eimear O'Brien

BSc

Environmental Consultant

Eimear is an Environmental Consultant with Rowan Engineering having joined the team in November 2020. She has led and assisted with multiple planning applications Environmental Impact Assessment Reports (EIAR), environmental planning applications, nutrient management Plans (NMPs), data analysis and reporting, environmental monitoring, EMPs, and Geographic Information Systems (GIS) Mapping projects.

Qualifications

- BSc (Hons) in Agriculture and Environment Management, Galway Mayo Institute of Technology 2016 -2020.
- Micro-credential from NUI on Marine Renewable Energy Developments

Areas of Expertise

- ✓ Environmental Report Writing
- ✓ Environmental and Planning Report Writing
- ✓ EIAR
- ✓ Environmental Site Audits
- ✓ Geographic Information System (GIS)
- ✓ Phase I Reporting
- ✓ Nutrient Management Plans
- ✓ Data preparation, Analysis and Review
- ✓ Project & Task Management
- ✓ Environmental Monitoring / Sampling

Relevant Experience

Rowan Engineering Consultants Ltd, Ireland, Environmental Consultant

January 2025 – Present

November 2020 – June 2023

- Writing chapters of an EIAR as part of planning application submissions and managing subcontractors to ensure project deadlines are met.
- Working with clients in preparation for Environmental Planning Applications and drafting Environmental and Planning Reports and EIA Screening Reports
- Completing Phase I Due Diligence desktop and drafting detailed reports for clients prior to purchasing properties

Coterra Environment, Western Australia, Environmental Consultant, July 2024 – December 2024

- Supported clients in preparing Environmental Impact Assessments, Environmental Management Plans, and Works Approvals.
- Delivering environmental planning documents in line with Western Australia's regulatory requirements.

Teagasc Grange, Internship, January 2017 – Sept 2017.

- Responsible for conducting experiments in the forage and bioscience labs by following Standard Operation Procedures (SOPs).
- Registering lab results into Teagasc LIMS system.

- Conducted lab audits in the forage and bioscience labs and conducting onsite farm audit on Teagasc Grange experimental beef farm.

Projects

Nutrient Management Plans (NMP) for multiple clients such as Kepak, Moyvalley Meats, Colley Distillery, November- December 2020

- Creating NMP maps on Geographic Information Systems (GIS) which indicate what area of the landbank is suitable for spreading. These maps are incorporated into the NMP reports.
- Drafting up Nutrient Management Plans (NMP) to meet EPA and Local Authorities requirements

Coffey Construction, Lugnagroagh Soil Recovery Facility EIAR and planning application submission, June 2021- June 2022.

- Drafting chapters of the EIAR,
- Managing subcontractors to ensure deadlines were met,
- Tracking invoicing and tracking financial status of the project.

Confidential Client, Wind Turbine Environmental and Planning Reports as part of Planning Application, January 2021 – December 2023

- Completing Environmental and Planning reports as part of the planning application.
- Completing EIA Screening reports as part of the planning application.
- Completing Planning application forms as part of the planning application.
- Completing Further Information requested by the council.
- Tracking invoicing and tracking financial status of the project.

Booth Concrete, Quarry Environmental and Planning Reports as part of Planning Application, January 2021- Ongoing

- Completing Environmental and Planning reports as part of the planning application.
- Completing Planning application forms as part of the planning application.
- Completing Further Information requested by the council.

Confidential Client, Battery Energy Storage System, Co. Dublin (January 2025 – Ongoing)

- Project Management
- Preparing tenders and managing subcontractor costing
- Writing of Environmental and Planning Report, EIA Screening Report and Environmental Management Plan (EMP)

Ballyfeeny Green Energy Limited, Windfarm Development EIAR, Ballyfeeny, Co. Roscommon (June 2023 – Ongoing)

- Site walkover and Site feasibility report
- Managing subcontractor
- EIAR Figures
- Preparing planning documentation as part of planning application.

Name	Denise Meade	
Company	DM Environmental Consulting Ltd	
Educational Qualifications	• King's Inn: Advanced Diploma in Planning and Environmental Law (2021) • M.Sc in Applied Environmental Science, The Queens University of Belfast, Northern Ireland, 2002 • B.Sc in Zoology (Hons), The Queens University of Belfast, Northern Ireland, 2001	
Professional Memberships	• Chartered Water and Environmental Manager (C.WEM) • Chartered Environmentalist (CEnv) • Member of Chartered Institution of Water and Environmental Management (MCIWEM) • PRINCE2 Foundation Certificate	

Career Summary

Denise has over 20 years experience in the environmental consultancy industry in Ireland and the UK. She has worked on projects at both strategic and planning level within a range of sectors including renewable energy, wastewater & water, flood risk assessment, highways, landfill remediation, ports and pharmaceutical. She is currently working in the renewable energy sector across both onshore and offshore developments. She has supported projects through the key phases including initial feasibility, constraints reporting, site selection, preliminary engineering design, stakeholder and public consultation and planning consent. She has managed all aspects of planning applications, with a focus on the technical review and delivery of Environmental Impact Assessment Reports and also has experience in the areas of Strategic Environmental Assessment, environmental auditing, EPA licensing and construction environmental management.

Key Relevant Experience

DM Environmental Consulting Ltd – Managing Director (Environment & Planning), 2024- Present

Providing consenting and EIA support on renewable energy projects (onshore and offshore wind)

Tobin Consulting Engineers – Technical Director (Environment & Planning), 2021-2024

Role: Onshore EIA Manager with the Codling Wind Park

Denise has been seconded with the Codling Wind Park Consents Team since 2021. She is the Onshore EIA Manager for the engineering design and consenting phase of the Project. Key aspects of the role involve:

- Co-ordination of engineering design inputs to inform the onshore EIA, Flood Risk Assessment (FRA) and Appropriate Assessment (AA) documentation;
- Engagement with the Offshore EIA team members dealing with all interfaces between the offshore and onshore infrastructure;
- Leading the Onshore EIA team in the preparation and submission of the EIAR, FRA and AA documentation;
- Technical review of the Onshore EIAR, FRA and AA documentation;
- Supporting in the delivery of the overall planning application for submission to An Bord Pleanála under the new planning and development (maritime) legislation;
- Co-ordination of onshore environmental baseline surveys;
- Public and stakeholder engagement.

Rowan Engineering Consultants, Senior Consultant, 2018-2021

Denise was responsible for the project management and technical delivery of a range of environmental projects with a client base including Local Authorities, insurance companies, renewable energy, food and beverage and agricultural. Projects included the following:

Proposed Anaerobic Digestion Facility, North East Region: EIA, Appropriate Assessment (AA) & Planning Submission

Development of an anaerobic digestion facility to accept over 20,000 tonnes per annum of feedstock (silage, crops and sludges). Denise had overall responsibility for the delivery of the planning elements of the project including an Environmental Impact Assessment Report (EIAR) and Natura Impact Statement. Denise managed the design inputs from the Technology Team and environmental subconsultants.

Confidential Client, Various Renewable Energy Developments, Nationwide

Denise project managed the planning submissions for a number of energy developments including solar farm development, gas peaker plants & synchronous condensers. The role entailed attendance at pre application consultation meetings with planning authorities, liaison with Technology Teams, engaging and managing inputs from environmental subconsultants.

Jacobs Engineering – Divisional Director, 2003-2018

Denise had administrative responsibility for the Environmental Team based in the Dublin Office. This entailed general HR functions, managing recruitment, line management & mentoring and rolling out corporate communication and policies. Additionally, she was a key senior team member, leading in the delivery of a number of major projects including:

A96 Inverness to Nairn (inc. Nairn Bypass), Environmental Impact Assessment and Habitats Regulations Appraisal, Transport Scotland, 2015-2018

This Scheme involved upgrading the A96 with a 31km dual carriageway between the Inverness Retail Park to a location 3km east of Auldearn, near Nairn. Denise was the Environmental Co-Ordinator for the Scheme. The role included coordination of the EIA Specialists, preparation and review of the Environmental Statement, attendance at public exhibition events, liaison with the Highways Design Team, stakeholder and client progress meetings. Denise also coordinated the Environmental Specialists in preparation for the public local inquiry (equivalent to Oral Hearing) which included reviewing briefs of evidence and liaison with legal counsel.

Greater Dublin Drainage Project (GDD), Environmental Impact Assessment and Appropriate Assessment, Irish Water (2011-2018)

This Scheme is a Strategic Infrastructure Development which relates to the provision of wastewater treatment capacity for the Greater Dublin Area. This includes the provision of a new wastewater treatment plant, underground orbital sewers, pumping stations and a marine outfall pipe. Denise had a lead role in the alternative site selection process for the GDD project and in coordinating the EIAR and Natura Impact Statement to support the planning process to An Bord Pleanála. This role involved the review of impact assessments from the EIA Specialists, liaising with the project communications consultant and legal counsel and representing Irish Water at public consultation days and at stakeholder meetings.

Kildare County Council: Kerdiffstown Landfill Remediation Project, EIA, AA, EPA Industrial Emissions Licence Application

Denise was the Environmental Manager for this project which, related to the remediation proposals for the Kerdiffstown Landfill. Denise was responsible for the successful delivery of the EIAR, AA Screening Report and Industrial Emissions Licence application to the EPA. This role involved the review of impact assessments from the EIA Specialists, supporting public & stakeholder engagement, attending meetings with legal counsel and attending and reading in evidence at the planning oral hearing.

Shannon Catchment Flood Risk Assessment and Management Study (CFRAMS), 2010- Present, Office of Public Works, Strategic Environmental Assessment and Appropriate Assessment (2010-2017)

The Shannon CFRAM Study was subject to SEA and AA during the preparation and adoption of the Flood Risk Management Plans. Denise was responsible for the day to day management of the SEA and AA and also other planning issues that needed to be considered during the CFRAM development. Denise also advised on the multi criteria analysis (MCA) process and overseen the development of the SEA Environmental Reports (published in Summer 2016).



PROFESSIONAL ACCREDITATION

Associate member of the Chartered Institute of Ecology and Environmental Management (MCIEEM)

EDUCATION

M.Sc Biodiversity and Conservation, 2018-2019, Trinity College Dublin.

B.Sc Zoology, 2014-2018, University College Dublin

CAREER HISTORY

Present: Ecologist: INIS Environmental Consultants Ltd.

2018 - Conservation Officer: Dublin Zoo

2017-2018 - Assistant Park Ranger: Office of Public Works/University College Dublin

AREAS OF EXPERTISE

Appropriate Assessment | Environmental Impact Assessment and Reporting | Natura Impact Statement | Bird Surveys | Bat Surveys and Reporting | Data Entry and Management

PROFILE

Megan has been employed as an Ecologist with Inis Environmental Consultants Ltd. since August 2020 and holds an MSc in Biodiversity and Conservation from Trinity College Dublin and a B.Sc (Hons) in Zoology from University College Dublin.

Megan has been involved in a multitude of varying and complex projects since starting with INIS. She has been project manager for several of these - including large renewable-energy developments. She has a strong background in ecology with extensive experience in report-writing, in addition to fieldwork and data analysis.

RECENT RELEVANT EXPERIENCE

Reporting

Megan was project manager and lead author for the EIAR Biodiversity Chapter and Natura Impact Statement (NIS) for Gathabawn Windfarm. Megan was also part of the team working on other wind-energy projects such as Ballynlacken and Upperchurch wind farms. These projects included nationwide sites with varying ecological and hydrological complexities. In addition to this, Megan has also compiled professional reports pertaining to Appropriate Assessment, Bird Survey Seasons, Gull Management, Tree Clearance, Bat Surveys and the Ecological Clerk of Works (ECOW).

Surveying

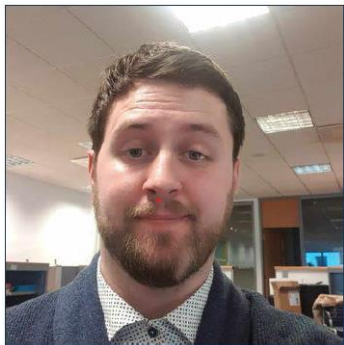
Megan has experience in bird surveying techniques such as Vantage Point Surveys and i-Webs. She has also been involved in Bat Survey projects and the inspection of trees/buildings for the presence of bat activity. Megan has led site visits around the country to sites of proposed developments.

Other Experience

Megan has previous experience in various other field survey techniques including mammal transect surveys, camera-trapping, waterway bat surveys and marine mammal observation.

She has assisted with seasonal fawn surveys, tagging and data collection for the UCD Laboratory of Wildlife Ecology & Behaviour and worked as a Conservation Officer in Dublin Zoo.

She has previously worked alongside BirdWatch Ireland, the Irish Whale & Dolphin Group, the Irish Peatland Conservation Council and has carried out Rainforest Conservation Projects in the Amazon Rainforest.



AREAS OF EXPERTISE

EIA reports | Research | Data Analysis and Interpretation | Survey Design | Avian Impact Assessments | Environmental Legislation | Bird Surveying | Bat Surveying | Habitat Assessment | GIS | Marsh Fritillary monitoring | Biodiversity Enhancement Planning | Scientific Writing | Species identification, handling and population assessment | Ecological assessment including Preliminary Ecological Appraisal, Ecological Impact Assessment | Strategic outcome monitoring, data management and reporting |

PROFILE

Experienced Ecologist and Conservation advocate with a proven record of leading and participating in consultancies for 3 years. Experienced in research and project management skills. Confident in conducting a variety bird surveys. Confident in content writing for Appropriate Assessment, EIAs and site development guidance. Experience in conducting ecological work in tropical, steppe, wetland and temperate habitats.

Experience in liaising with landowners to preserve positive relationships and safe access to conduct surveys. Confident cataloguing and analysing large data sets.

RECENT RELEVANT EXPERIENCE

Ecologist: Inis Environmental Consultants Ltd.

Report Writing : Ecology Baseline Appendices and Report Project Management Duties, Drafting AA screening, NIS, EIA, PEAs and EcIA reports for local authority works and renewable energy projects.

Ornithology surveys (VP, BBS, Breeding Raptor, Wader, Barn Owl), Bat Emergence/Re-Entry Surveys, activity transects and Habitat/Mammal Walkover Surveys.

Assistant Ecologist: Inis Environmental Consultants Ltd.

Report Writing: NIS, EIA, Data Appendices and Report Project Management Duties.

Ornithology surveys (VP, BBS, Breeding Raptor, Wader, Barn Owl), Bat Emergence/Re-Entry Surveys and Habitat/Mammal Walkover Surveys

Project Ecologist, Ornithologist (Ecology): Tobin Engineers Consultancy

Conducting bird surveys (Winter wader VPs, winter walkover, Raptor roosts & iWebs, BBS), PEA report writing, Biodiversity plan compliance with pollinator plan guidance, Providing general ecology services within the tobin team, including GIS flight mapping, survey summary reports and data cleaning.

Ornithologist (Ecology): CAAS Ltd.

Led bird surveys over a 4.5km² area in Galway, Conducted breeding bird surveys in Marlay Park, Dublin, Managed my own time conducting 32 vantage point surveys each month., Conducted data cleaning of an additional site each week. Maintaining the high data entry standard necessary. (ArcGIS, 123Surveys, Field Maps), AA screening Report writing and submission of planning changes toward better NBS implementation., Liaised with owners of the private site to maintain regular access during the survey period.

Types of PROJECT/PUBLICATIONS

Draft EIAR chapters for small, medium and large sized wind farms.

Biodiversity enhancement chapter for windfarm plan with close proximity to an SAC.

Preliminary Ecological Assessment reports on Groundwater sourcing for Irish Water projects (30 No.+ loc.).

Write up for seasonal bird reports related to wind farm surveys (3 No.).

Clarifying the status of *Alomya semiflava* (Hymenoptera: Ichneumonidae: Alomyinae) in Ireland. Daly & O'Hanlon (2022). Irish Naturalist Journal. Volume 39.

EDUCATION

University of Galway (2012-2016): BSc (Hons) Zoology

Trinity College Dublin (206-2017): MSc in Biodiversity & Conservation. Thesis Title: Enemies of Cereal Crop Pest: The Impact of Parasitoid wasps on Aphidoidea pests in Leinster, Ireland.

ADDITIONAL QUALIFICATIONS/Memberships

- Associate Member of the Chartered Institute of Ecology and Environmental Management (ACIEEM)
- Certified Conservation Detection Dog Handler (Kryus Ltd.)
- Wildlife Technology Certificate (Wildlifetek)
- Ornithology (Learningcloud.ie)
- Raptor Research Foundation

CAREER HISTORY

Ecologist (Ecology). Inis Environmental Consultants Ltd. (April 2024 - Present)

Assistant Ecologist (Ecology). Inis Environmental Consultants Ltd. (April 2023 – April 2024)

Ornithologist/Project Ecologist (Ecology). Tobin Engineering Consultancy (Oct 2022 - April 2023)

Ornithologist (Ecology) CAAS Ltd. (Nov 2021 – Oct 2022)

Bird Staff (Wildlife Management) International Centre for birds of Prey (April 2021 – August 2021)



AREAS OF EXPERTISE

Project Management | Research | Data Analysis and Interpretation | Survey Design | Avian Impact Assessments | Management Planning | Environmental Legislation | Avian and Entomological Surveying | Habitat Assessment | Bird Ringing | Scientific Writing

PROFILE

Dr. Alex Copland has over 25 years of experience as an Ecological Scientist and Advocate, specialising in research, management, policy and advocacy work relating to the conservation of biodiversity and the protection and enhancement of the environment. Particular expertise in relation to wider countryside issues, especially in wetlands (freshwater and coastal) and peatlands, woodland, agricultural and upland landscapes and associated policy areas.

Specialties: Research project design and management (including fieldwork); development, application and delivery of conservation plans; design and implementation of conservation measures and actions; formulation, advice and promotion of strategic conservation policies at national and international level; analysis, review and submission of scientific data.

RECENT RELEVANT EXPERIENCE

Technical Director (Ecology): Inis Environmental Consultants Ltd.

As Technical Director with INIS, Alex leads on all aspects of the ecological service delivery, including developing and designing ecological input to projects, overseeing the management of the Ecology Team (comprising 30 full-time ecologists and two GIS Specialists) and all aspects of fieldwork and report writing. Highlights from this role include:

Overseeing the completion of all ecological planning documentation (including EIAR biodiversity chapters, Appropriate Assessment and Biodiversity Management Plan) for three onshore wind developments, with a combined capacity of over 140MW.

Leading on the ecological response to 410 third party submissions for a 22-turbine (105MW) and 50MW Battery Energy Storage System SID Project in Co. Cork, where planning was successfully awarded by An Bord Pleanála.

Overseeing the completion of numerous Ecology documents (including AA Screenings, NIS, EcIA, PEAs, etc.) associated with conservation, recreation and development projects to benefit wildlife, nature and people across Ireland.

Ecologist: Bord na Móna

As Ecologist with Bord Na Móna, Alex was responsible for developing conservation management (rehabilitation) plans for a range of peatlands within the Bord na Móna estate. He also led on the development of management and monitoring measures for birds and insects (pollinators) and on engagement internally within Bord na Móna and externally with a wide range of stakeholders in relation to Bord na Móna's ecological work and projects.

Senior Ecologist: Inis Environmental Consultants Ltd.

As Senior Ecologist with INIS, Alex was responsible for providing ecological input into a range of projects throughout Ireland. In addition to general support for the operation of the, he oversaw the day-to-day work of ecology team as well as co-ordinating and supporting external (sub-contracting) ecologists.

In addition to project management work, Alex reviewed methods of fieldwork, including data collection, entry and analysis within existing projects to ensure they meet the highest possible standards required. He also has considerable experience identifying needs for, designing and undertaking fieldwork. This includes adoption of Best Practice guidance for surveying methods, as well as devising appropriate survey techniques adapted from scientific literature review.

EDUCATION

University College Cork (2003-2009) Ph.D. Thesis title: 'Bird populations of lowland Irish farmland (with special reference to agri-environment measures)'.

University of Edinburgh (1991-1995): BSc (Hons) Ecological Sciences

ADDITIONAL QUALIFICATIONS

- Full Member of the Chartered Institute of Ecology and Environmental Management (**MCIEEM**)
- Full Member of the Institute of Environmental Sciences (**MIEEnvSc**)
- BTO: 'S' class bird ringing licence with training endorsement.

CAREER HISTORY

Technical Director (Ecology).
Inis Environmental Consultants Ltd.
(May 2021 – present)

Ecologist.
Bord na Móna
(October 2019 – May 2021)

Senior Ecologist.
Inis Environmental Consultants Ltd.
(July 2018 – October 2019)

Senior Conservation Officer
Birdwatch Ireland
(January 2007 – June 2018)



RECENT RELEVANT EXPERIENCE

Senior Conservation Officer: BirdWatch Ireland

Responsible for the co-ordination and delivery of a strategic conservation programme for farmland and peatland birds in Ireland, as well as supporting a wide range of research and conservation projects for birds and biodiversity in the wider countryside. Substantial work involved policy development and advocacy around CAP and the RDP in Ireland and the EU. Nationally, he represented BirdWatch Ireland and the Irish Environmental Pillar on various bodies related to agriculture and biodiversity, and at EU level was the Chair and Co-ordinator of BirdLife Europe's Agriculture Task Force. Alex advocated conservation policies to a wide group of stakeholders, including Ministers, TDs, MEPs and other elected representatives as well as public officials and other stakeholders.

EDUCATION

University College Cork (2003-2009) Ph.D. Thesis title: 'Bird populations of lowland Irish farmland (with special reference to agri-environment measures)'.

University of Edinburgh (1991-1995): BSc (Hons) Ecological Sciences

ADDITIONAL QUALIFICATIONS

- Full Member of the Chartered Institute of Ecology and Environmental Management (**MCIEEM**)
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- BTO: 'S' class bird ringing licence with training endorsement.

CAREER HISTORY

Technical Director (Ecology).
Inis Environmental Consultants Ltd.
(May 2021 – present)

Ecologist.
Bord na Móna
(October 2019 – May 2021)

Senior Ecologist.
Inis Environmental Consultants Ltd.
(July 2018 – October 2019)

Senior Conservation Officer
Birdwatch Ireland
(January 2007 – June 2018)

SELECTED PUBLICATIONS

Book Chapter:

- Crowe, O., Smiddy, P., Whelan, R. & **Copland, A.** (2020) Birds of Irish Rivers. *In*: Kelly-Quinn, M. & Reynolds, J. (eds). *Ireland's Rivers*. UCD Press, Dublin.
- **Copland, A.** & Lusby, J. (2012) Lowland Farmland. *In*: Nairn, R. & O'Halloran, J. (eds). *Bird Habitats in Ireland*. The Collins Press, Cork.

Selected Peer-reviewed Papers

- Buckley, K., O'Gorman, C., Martyn, M., Kavanagh, B., **Copland, A.** & McMahon, B.J. (2021) Coexistence without conflict, the recovery of Ireland's endangered wild grey partridge *Perdix perdix*. *European Journal of Wildlife Research* **67**: 58.
- Finch, D., **Copland, A.S.**, Kelly, M. and McMahon, B.J. (2016) A comparison between the butterfly communities on cutaway peatland habitats. *Irish Naturalists Journal* **35**: 44-49.
- Kenny, K., **Copland, A.S.** & McMahon, B.J. (2015). Timing of mowing for the Conservation of Whinchat (*Saxicola rubetra*) in Ireland. *In*: Bastian, H-V. & Feulner, J. (eds). *Living on the Edge of Extinction in Europe: Proceedings of the 1st European Whinchat Symposium*: 227-232. Helmbrechts, Germany.
- **Copland, A.S.**, Crowe, O., Wilson, M.W. & O'Halloran, J. (2012) Habitat associations of Eurasian Skylarks *Alauda arvensis* breeding on Irish farmland and implication for agri- environment planning. *Bird Study* **59**: 155-165.
- **Copland, A.S.**, Farrell, C.A. & McCorry, M.J. (2011) Breeding bird populations on the Oweninny cutaway peatlands, Co. Mayo. *Irish Birds* **9**: 197-208
- **Copland, A.S.**, Bayliss, J., Power, E. and Finney, K. (2008) Breeding waders in cutaway peatlands in County Offaly. *In*: *After Wise Use – The Future of Peatlands*. Proceedings of the 13th International Peat Congress, International Peat Society, Jyväskylä, Finland.

Note that the list above is not exhaustive but provides a sample of the peer-reviewed work he has had published. In addition, Alex also sits on the editorial panel of *Irish Birds*, is an external reviewer for *Bird Study* and sits on the *Irish Policy Group* for CIEEM.



AREAS OF EXPERTISE

Research | Bird Surveying | Bat Surveying | Habitat Assessment | Ecological Clerk of Works | Scientific and Report Writing |

PROFILE

Laura is an Ecologist with a BSc in Earth and Ocean Sciences and has been working in the consultancy sector for three years, previously working as an Ecologist for Neo-Environmental, Laura now continues her career with Inis Environmental Consultants. Laura is highly experienced in conducting ecological reports and surveys and will be a part of the report writing and surveying team.

EDUCATION

University of Galway (2017-2021): BSc (Hons) Earth and Ocean Sciences

RECENT EXPERIENCE

Ecologist: Inis Environmental Consultants Ltd.

Laura is an Ecologist with INIS, and will specialise in field ecology and in report writing and research for various projects (e.g., Appropriate Assessment, Natura Impact Statements, Ecological Impact Assessments and Feasibility studies).

Laura is highly experienced in field survey techniques including bird surveys (wintering bird, breeding bird, I-WeBS, pre-construction mammal surveys (badger and otter), vantage point surveys, fossitt habitat surveys, kick sampling, invasive species surveys, offshore bird & cnidarian surveys.

Experienced in flora/fauna identification, particularly producing Fossitt (2000) habitat maps and the mapping and assessment of EU Annex I habitats.

Ecologist: Neo-Environmental Ltd

As an Ecologist with Neo-environmental, Laura was involved in the production of ecological reports and data management for a variety of developments, including commercial, residential, and large-scale renewable energy projects. Laura was involved the production, internal management, and review of Stage 1: Screening for Appropriate Assessment, Stage 2: Natura Impact Statements Assessments, Ecological Appraisals, Ecological Impact Assessments, Wintering Bird Survey reports and Biodiversity Management Plans.

Laura independently and collaboratively carried out many bird surveys (wintering, breeding, adapted brown & shepherd), Fossitt habitat surveys and pre-construction mammal surveys while working with Neo-Environmental. Laura also has experience carrying out bat surveys, including dusk emergence and dawn re-entry surveys.

Co-ordination of in house and external surveying requirements; liaising with clients; organising and conducting site visits and client meetings; report writing and reviewing, subcontractor management, data analysis, and quote fee production.

ADDITIONAL QUALIFICATIONS

- Safe Pass (2023)
- Full, clean category B Irish Driving Licence
- Survival Techniques (PST) Certificate. The Seamanship Centre, Navigation & Seamanship Training (Killybegs Harbour, Co. Donegal).

CAREER HISTORY

Ecologist/Report writer

Inis Environmental Consultants Ltd.
(March 2024 – present)

Ecologist

Neo-Environmental Services Ltd.
(January 2023–February 2024)

Consulting Geologist

Avannaa Exploration Services
(January 2022 – January 2023)

Lab Technician

Aquafact Environmental Consultants
(May 2021 – January 2022)



AREAS OF EXPERTISE

Appropriate Assessment | Natura Impact Statement | Environmental Impact Assessment | Data Formatting and Management | Habitat Survey and Assessment | Marsh Fritillary Surveys | Ecological Clerk of Works | Project Management | Biodiversity Net Gain

PROFILE

Cillian is an Ecologist with Inis Environmental Consultants. He is a graduate of the National University of Ireland Galway with a BSc (Hons) in Environmental Science. He is an experienced ecological surveyor, with an understanding of the Appropriate Assessment process, including the preparation of Screenings for Appropriate Assessment and Natura Impact Statements.

EDUCATION

BSc (Hons) Environmental Science, NUIG (2017-2021)

RECENT EXPERIENCE

Cillian has experience in ecological surveying for a wide range of habitats and species including multi-disciplinary walkover surveys, habitats, bats, birds, mammals, Marsh Fritillary, Invasive Species, and some experience with Aquatic invertebrates.

Cillian also has an understanding of the Appropriate Assessment process and related reporting (Appropriate Assessment Screening Report, Natura Impact Statement) and the requirements thereof in relation to plans and projects.

In addition, Cillian has experience as a Project Manager undertaking pricing, site visits and subsequent reporting for several projects whilst liaising with clients with progress updates.

In relation to project planning and, particularly, the development and delivery of mitigation, Cillian has experience with implementing a Biodiversity Net Gain initiative for project developments, recommending biodiversity management and providing Biodiversity Metric Reports to inform how a net gain can be achieved post development.

Cillian is competent in plant and animal identification and habitat classification using Fossitt. He also has experience of undertaking and overseeing Ecological Clerk of Works services for various clients on both long-term and short-term projects

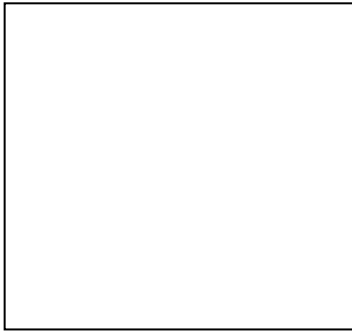
CAREER HISTORY

- April 2023- present:
Ecologist, Inis Environmental Consultants Ltd.
- July 2020 – April 2023:
Graduate Ecologist, MKO.
- July 2021-May 2022:
Graduate GIS Technician, MKO
- May 2017-May 2022:
Gardener, Stackallan House

ADDITIONAL QUALIFICATIONS

- First Aid Training
- SafePass

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John Whiteford



Précis Biography

John Whiteford is currently Managing Director of Whiteford Geoservices Ltd

He has the overall responsibility for the reporting, operations and estimating departments and executor to final completion of all Civil Engineering, Geotechnical and Environmental Operations in Ireland and the United Kingdom.

In his role as Managing Director, he is also responsible for the efficient management and development of a team of Project Managers, Field Engineers and operatives throughout the Division.

In particular, his duties include the preparation of technical reports relating to the ground, lands, soils and geology related issues, management of all aspects of Health and Safety, Quality and Environmental Management as well as corporate governance.

Over the years John has led the Whiteford Geoservices Team in the successful completion of a number of major high profile renewable energy schemes within Ireland and Great Britain, as well as new CCGT power plant construction projects, new water schemes for Uisce Eireann and infrastructure upgrade works with Iarnród Éireann.

Current position

1996 to present

Managing Director

Whiteford Geoservices Ltd

Previous Employment

British Geological Survey (Edinburgh)

Kirk McClure Morton (Cons Engs)

Qualifications

BSc (Hons) Geophys

Professional Associations

Fellow of the Geological Society of London (FGS)

Member European Association Of Geoscientists and Engineers (MEAGE)

Affiliate Member of Institute Of Safety and Health (MIOSH)

Professional Development

IOSH Managing Safely for Construction Managers August 2024

Quality Assurance and Forensic NDE Methods for Foundations Oct 2021

Seismic and Radar Geophysics for Engineering Applications Oct 2022

Structural NDE and Pavement NDE for Condition Assessment and Quality Control Oct 2022

CSR (General Construction Operative) Aug 2024

Coillte Environmental Impact Assessment Feb 2014

Reports to

N/A

Responsible at present for

UK and Ireland

Selected Soils & Geology and Peat Landslide Assessment Projects

- 2024 – Tirawley Wind Farm – Jennings O'Donovan Consulting Engineers - **€90K**
- 2024 – Coolderry Wind Farm – Greensource Energy - **€21k**
- 2024 - Evishagaran Wind Farm Extension – ERG / Neo Environmental - **£43K**
- 2024 – Crilly Wind Farm – Enerco Ltd - **£24K**
- 2023 – Meenamullen Wind Farm – Enerco Ltd - **€18K**
- 2024 – Killoan Wind Farm – Energia Ltd - **£26K**
- 2023 – Ballyclough Wind Farm – Greensource Energy - **€18K**
- 2023 - Meenakeeran Wind Farm – Abo Energy NI - **£25K**
- 2023 - Cam Burn Wind Farm Extension – Abo Energy NI - **£32K**
- 2023 – Corvoderry Wind Farm – Cabragh Energy Services - **€18K**
- 2022 - Kellystown Wind Farm – EDF Energy Renewables - **€29K**
- 2022 – Altnagapple Wind Farm – Jennings O'Donovan Consulting Engineers - **€16K**
- 2022 – Curraghmulkin Wind Farm – Canavan Associates - **£23K**
- 2022 - Fort East Wind Farm – Jennings O'Donovan Consulting Engineers - **€14K**
- 2022 - Gortnahurra Wind Farm – Jennins O'Donovan Consulting Engineers - **€39K**
- 2021 - Brishey Wind Farm – Abo Energy NI - **£16K**
- 2021 - Armoy Wind Farm – Abo Energy NI - **£8K**
- 2021 - Altgolan Wind Farm – Abo Energy NI - **£10K**
- 2020 - Tullintowell Wind Farm – Jennings O'Donovan Consulting Engineers - **€11K**
- 2019 – Gruggando Wind Farm – Clyde Shanks - **£10K**

Current position

1996 to present

Managing Director

Whiteford Geoservices Limited

Previous Employment

British Geological Survey (Edinburgh)

Kirk McClure Morton (Cons Engs)

Qualifications

BSc (Hons) Geophysics

Professional Associations

Fellow of the Geological Society of London (FGS)

Member European Association Of Geoscientists and Engineers (MEAGE)

Affiliate Member of Institute Of Safety and Health (MIOSH)

Professional Development

IOSH Managing Safely for Construction Managers August 2024

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CSR (General Construction Operative) Aug 2024

Coillte Environmental Impact Assessment Feb 2014

Reports to

N/A

Responsible at present for

UK and Ireland

John Whiteford



Skills

1. Geotechnical Engineering

Foundation Design

Loading Assessment

Planning and supervision of high-quality ground investigation campaigns

2. Geophysical Surveys

Utility / Underground Service Location

Bedrock Mapping – Seismic Refraction & Resistivity Imaging

Ground Stiffness Appraisal – MASW Seismic Surveying

Thermal Rating for Underground HV Cable Installation – Thermal Resistivity Testing

Shallow Marine Geophysical Surveys – Integrated side scan, sub bottom profiling and bathymetry investigations (Ports, rivers and outfall developments)

3. Peat Landslide Hazard Assessment

Planning and supervision of the collection of high-quality site investigation data, numerical analysis and reporting

4. Soils and Geology Consultancy

Appraisals and site analyses for the purpose of obtaining planning approval.

5. Hydrogeology & Hydrology Consultancy

Appraisals and site analyses for the purpose of obtaining planning approval.

Selected References

- Peat Landslide Hazard Assessment
 - Mr Seamus Canavan of Canavan Associates (+44 28 71371700)
- Geotechnical Assessment
 - Mr David Kiely of Jennings O'Donovan Consulting Engineers (+353 719161416)



Key

Alison Freeley

B.A. M.Sc.

Assistant Environmental Scientist

RECEIVED: 15/09/2025

Skills
- Environmental Impact Assessment - Geographic Information Systems - Strategic Environmental Assessment

Short

Biography

Alison holds a B.A. in Geography and Geoscience from Trinity College Dublin and an M.Sc. in Risk, Resilience and Sustainability from University College Dublin. From her studies, Alison has gained a deep understanding of geomorphological processes, climate change and sustainable development. Through completing fieldwork, geospatial analysis, independent research and thesis projects, Alison has learned valuable skills in data collection and analysis, GIS (ArcGIS and QGIS), academic writing, oral presentation and problem-solving.

Since joining JBA as an assistant environmental scientist on the Graduate Programme, Alison has completed Environmental Impact Assessment (EIA) Screenings, Constraint Studies and Strategic Environmental Assessment (SEA) Screenings, and has been involved with producing EIAR for large flood relief schemes and Construction Environment Management Plans (CEMP).

Academic

Qualifications			
Date	Qualification	Subject	Educational Institution
2024	M.Sc.	Risk, Resilience and Sustainability	University College Dublin
2023	B.A.	Geography and Geoscience	Trinity College Dublin

Professional

History		
Dates	Position	Company
2024 - present	Assistant Environment Scientist	JBA Consulting, Dublin, Ireland
2019 - 2024	Sales Assistant	O'Briens Wines, Greystones, Ireland

Relevant

Experience

Alison has been involved with environmental assessment through completing EIA Screenings, producing CEMP, and assisting with EIAR for large flood relief schemes.

Alison was introduced to GIS during her undergraduate degree and spent several years learning its application through ArcGIS. This continued into her master's degree, where she completed a project analysing the correlation between wildfire extents in Canada and cancer prevalence in Canadian provinces. Since joining JBA, Alison has gained experience using QGIS and has produced maps for various projects.

Alison has been involved with multiple Constraints Studies which has allowed her to strengthen her GIS skills through mapping the project areas. These studies require developing a comprehensive understanding of the developments, the surrounding areas, and their sensitivities.

Since joining JBA, Alison has gained experience producing SEA screenings for plans and programmes. This work involves evaluating the environmental impacts of proposed plans and programmes and ensuring compliance with regulatory frameworks. This has allowed her to develop a good understanding of environmental legislation.

Environmental Impact Assessment

Geographic Information Systems

Constraints Studies

Strategic Environmental Assessment

Project		Experience
Year	Position	Project, Client and Input
2025	Assistant Environmental Scientist	Illaunbaun Wind Farm, County Clare Prepared the Water chapter for an EIAR for a proposed wind farm in Co. Clare, commissioned by Venterra Group
2025	Assistant Environmental Scientist	Play Spaces in the Fingal Administrative Area Prepared EIA Screening Reports for three separate play areas across the Fingal Administrative Area, commissioned by Fingal County Council
2024	Assistant Environmental Scientist	Public Realm Improvements, Glin, Co. Limerick Completed the EIA Screening report for public realm improvements at Glin, Co. Limerick, commissioned by Limerick City and County Council.
2024	Assistant Environmental Scientist	Dún Laoghaire-Rathdown Local Sport & Physical Activity Plan Prepared the SEA Screening report for a local sport plan in the Dún Laoghaire-Rathdown administrative area, commissioned by Dún Laoghaire-Rathdown County Council.
2024	Assistant Environmental Scientist	Nevinstown Lane, Swords, Co. Dublin Completed an EIA Screening report for the proposed development of a retail warehousing unit in Nevinstown Lane, Co. Dublin, commissioned by RW Nowlan & Associates.
2024	Assistant Environmental Scientist	Liffey Valley Park - Constraints Study Prepared the constraints study including GIS mapping for Liffey Valley Park, commissioned by Kildare County Council.
2024	Assistant Environmental Scientist	Mountmellick Flood Relief Scheme Assisted in the preparation of the Mountmellick Flood Relief Scheme EIAR and associated documents (CEMP, Natura Impact Statement, Appropriate Assessment Screening), commissioned by Laois County Council on behalf of the Office of Public Works.
2024	Assistant Environmental Scientist	Corbally Canal & Liffey Corridor Enhancement Feasibility - Constraints Study Prepared the constraints study including GIS mapping for the Corbally Canal & Liffey Corridor Enhancement Project, commissioned by Kildare County Council.
2024	Assistant Environmental Scientist	Loreto Secondary School Navan, Co. Meath Assisted in the preparation of a CEMP for the extension and renovation of Loreto College in Navan, Co. Meath, commissioned by Louth & Meath ETB.
2024	Assistant Environmental Scientist	Carrickmines Flood Relief Scheme Helped prepare the non-technical summary for the Carrickmines Flood Relief Scheme, commissioned by Dún Laoghaire-Rathdown County Council on behalf of the Office of Public Works.
2024	Assistant Environmental Scientist	King's Island Community Centre, Co. Limerick Prepared an EIA Screening report for the proposed renovation and extension of King's Island Community Centre, Co. Limerick, commissioned by Limerick City and County Council.

CPD		Training
Year	Course title	Provider
2024	Health and Safety Training	Griffiths and Armour Risk Management



Conor O'Neill

B.A. (Mod) M.Sc. Adv. Dip.
Environmental Impact Assessment
Senior Environmental Scientist

Short

Biography

Conor has over 5 years of environmental consulting experience. He holds a B.A. in Geography and an M.Sc. in Environmental Sciences, both from Trinity College Dublin, and an Advanced Diploma in Planning and Environmental Law from the King's Inns.

Conor has been involved in all aspects of Environmental Impact Assessment (Screening, Scoping, EIAR chapter authoring, and EIAR co-ordination) for numerous projects across Ireland. These include several large flood relief schemes, road upgrade projects for the N17 between Knock and Collooney and the N72/N73 near Mallow, active travel schemes, and numerous housing and commercial developments for the public and private sectors. Conor also has experience in Landscape and Visual Impact Assessment (LVIA), including identification of receptors, impact assessment, reporting, and Zone of Theoretical Visibility (ZTV) mapping, and preparation of other environmental reports including Constraints Studies, Surface Water Management Plans (SWMP), Construction Environmental Management Plans (CEMP), and Resource & Waste Management Plans (RWMP).

Conor is committed to his work, and aims to bring accuracy and attention to detail at all times. He is approachable and works well as part of a team. He also has experience of managing the delivery of multi-disciplinary projects with landscape, environmental, and ecology aspects.

Academic

Qualifications

Date	Qualification	Subject	Educational Institution
2022	Advanced Diploma	Planning and Environmental Law	The Honourable Society of King's Inns
2019	M.Sc.	Environmental Sciences	Trinity College Dublin
2018	B.A. (Mod)	Geography	Trinity College Dublin

Professional

History

Dates	Position	Company
2024-present	Senior Environmental Scientist	JBA Consulting, Dublin, Ireland
2023-2024	Project Environmental Scientist	JBA Consulting, Dublin, Ireland
2022-2023	Environmental Scientist	JBA Consulting, Dublin, Ireland
2020-2022	Assistant Environmental Scientist	JBA Consulting, Dublin, Ireland
2019-2020	Natural Environment Caseworker	An Taisce - The National Trust for Ireland

Relevant

Experience

Environmental Impact Assessment

Conor has been involved in all stages of Environmental Impact Assessment. He was the EIAR coordinator for the Castleconnell Flood Relief Scheme (FRS) and the Carrickmines-Shanganagh River FRS, as well as helping to write and review several EIAR chapters for those schemes. He has completed EIA Screening for numerous residential, commercial, and transport-related projects, both for the public and private sectors. He has also prepared EIA Scoping Reports for several large flood relief schemes, and has prepared EIAR chapters assessing Water, Population and Human Health, Land and Soils, and Landscape and Visual Impact Assessment for multiple projects.

Geographic Information Systems

Conor began using GIS as part of his undergraduate degree, where as part of his dissertation he surveyed a site in Limerick, producing topographic maps as part of his final report. He has continued to develop his skills at JBA, where he has produced maps for multiple projects, and has also produced Zone of Theoretical Visibility (ZTV) maps for LVIA.

CEMP and RWMP

Conor has produced multiple CEMPs and RWMPs since joining JBA, assessing and outlining the mitigation measures needed for the construction and operational phases of projects and the management of waste.

Constraints Studies

Conor has worked on several projects at the Constraints Study stage. These have involved GIS mapping and gaining a good understanding of the overarching features of the development, and the issues surrounding it.

Environmental Options Assessment

Conor has prepared the Environmental Assessment of Options for several Flood Relief Schemes (Deansgrange FRS, Castleconnell FRS, Kilkee FRS), which required a comparative assessment of several options, and deep understanding of the engineering of each option and the wider environmental constraints in the study area. He has also prepared the LVIA chapter for Options Selection Reports for several road developments and transport projects (N17 Knock to Collooney upgrade, N3 Virginia Bypass, N60 Manulla Road Improvement, Mallow Relief Road, Galway Bus Connects, Luas Finglas).

Relevant	Experience	
Landscape and Visual Impact Assessment	Conor has produced multiple LVIA reports at JBA, including preparation of ZTV and receptor mapping, and on-site photography. He has produced LVIA reports for a range of development types, including telecommunications masts, large housing developments, industrial developments, and linear features such as greenways, roads, and flood relief schemes. The LVIAs have been both standalone reports and formed chapters of wider EIARs and Options Assessment Reports.	
Project	Experience	
Year	Position	Project, Client and Input
2024	Senior Environmental Scientist	Carrickmines-Shanganagh River Flood Relief Scheme EIAR coordinator for Carrickmines-Shanganagh River FRS. This included all aspects of preparing and managing the EIAR, including liaising with chapter authors and sub-consultants, reviewing and arranging reviews of chapters, and coordinating report compilation and feedback.
2024	Senior Environmental Scientist	Castleconnell Flood Relief Scheme EIAR coordinator for Castleconnell FRS. This included all aspects of preparing and managing the EIAR, including liaising with chapter authors and sub-consultants, reviewing and arranging reviews of chapters, and coordinating report compilation and feedback.
2024	Project Environmental Scientist	Kilkee Flood Relief Scheme Assisted in coordination of the EIAR for Kilkee FRS. This included drafting and review of chapters, and compilation of the report.
2024	Project Environmental Scientist	Kildallan Solar Farm Hydrology report Preparation and review of a hydrology and water quality report for a proposed solar farm at Kildallan, Co. Westmeath.
2023	Project Environmental Scientist	New-build OLOL Drogheda EIA and AA Screening Project Manager for EIA and AA Screening of a new-built hospital wing at Our Lady of Lourdes Hospital, Drogheda, Co. Louth.
2023	Project Environmental Scientist	Ringwood LRD EIAR Project Manager for preparation of Land and Soils and Water chapters for the EIAR for a large residential development in Blarney, Co. Cork.
2023	Project Environmental Scientist	Block B4 Aerodrome Business Park Landscape Project Manager for landscape design, green infrastructure plan, and green space factor for warehouse development in Aerodrome Business Park, Dublin.
2023	Project Environmental Scientist	4 Regeneration Schemes, EIA and AA Screening Project Manager for EIA and AA Screening of four regeneration projects in Limerick City.
2023	Project Environmental Scientist	Kinnegad Town Park EIA and AA Screening Project Manager for EIA and AA Screening of a town park development project in Kinnegad, Co. Westmeath.
2023	Project Environmental Scientist	Kilkee Flood Relief Scheme Completed the environmental assessment section of the Options Selection Report for Deansgrange FRS.
2023	Project Environmental Scientist	Castleconnell Flood Relief Scheme Completed the environmental assessment section of the Options Selection Report for Castleconnell FRS.
2023	Environmental Scientist	Cross West Mayo LVIA Prepared the LVIA report and ZTV mapping for a proposed telecommunications mast at Cross West, Co. Mayo.
2023	Environmental Scientist	Rock of Dunamase Car Park LVIA Prepared the LVIA report and ZTV mapping for a proposed car park extension at the Rock of Dunamase heritage site, Co. Laois.
2023	Environmental Scientist	Deansgrange Flood Relief Scheme Completed the environmental assessment section of the Options Selection Report for Deansgrange FRS.
2022	Environmental Scientist	N60 Castlebar to Balla Road Improvement at Manulla Prepared the LVIA chapter and ZTV mapping for the Options Selection Report of the proposed road improvement scheme.
2022	Environmental Scientist	Lucan Hydromorphology and GI Project Manager for landscape design, green infrastructure plan, green space factor, and hydromorphological impact assessment report for a proposed residential development in Lucan, Co. Dublin.

Project		Experience	
Year	Position	Project, Client and Input	
2022	Environmental Scientist	Barclay Chemicals Groundwater Monitoring On-site for trial pit excavations, collected and recorded soil samples for analysis at a lab.	
2022	Environmental Scientist	Bantry Flood Relief Scheme - Constraints Study Prepared the constraints study including GIS mapping for the Bantry Flood Relief Scheme.	
2022	Environmental Scientist	Whiskey Maturation site carbon accounting Calculated the carbon footprint of constructing and operating a whiskey maturation site near Drogheda, Co. Louth.	
2021	Assistant Environmental Scientist	SDCC cycle lanes, EIA and AA Screening, South Dublin Prepared EIA Screening reports for four proposed cycling infrastructure schemes across South Dublin.	
2021	Assistant Environmental Scientist	Castletroy and Bunlicky WWTP Upgrades, LVIA Prepared Zone of Theoretical Visibility maps for proposed wastewater treatment plant upgrades, forming part of the landscape and visual impact assessment.	
2021	Assistant Environmental Scientist	LCCC Housing Developments, EIA and AA Screening, Co. Limerick Prepared three separate EIA Screening reports for proposed housing developments in Kilfinane, Ballylanders, and Ardagh, Co. Limerick.	
2021	Assistant Environmental Scientist	LVIA N3 Virginia Bypass Assisted in the preparation of GIS mapping for the landscape and visual impact assessment phase of the N3 Virginia Bypass, including Zone of Theoretical Visibility.	
2021	Assistant Environmental Scientist	Montrose SHD, Cairn Homes Conducted groundwater level monitoring on a bi-weekly basis, inputting into the Hydrology chapter of an EIAR.	
2021	Assistant Environmental Scientist	River Camac Hydromorphological Assessment Conducted 360° photo survey of River Camac and its tributaries as part of the River Camac Hydromorphological Assessment. Also prepared several maps for the project report.	
2020	Assistant Environmental Scientist	Scahill Lands, Greenogue AA Screening Helped conduct a bat transect survey ahead of AA Screening of a site at Scahill Lands, Greenogue.	
2020	Assistant Environmental Scientist	Housing Development, Old Road, Hayestown, Rush, Co. Dublin Assisted in the preparation of EIA Screening Report and preliminary CEMP for a housing development in Rush, Co. Dublin.	
2020	Assistant Environmental Scientist	LVIA N17 Knock to Collooney Assisted in Multi-Criteria Analysis and in the preparation of GIS mapping for the landscape and visual impact assessment phase of the N17 Knock to Collooney upgrade, including Zone of Theoretical Visibility.	
CPD		Training	
Year	Course title	Provider	
2020	Safe Pass	CMSE Group	
2020	Health and Safety Training	Griffiths and Armour Risk Management	



David Casey

BSc MSc MCIWEM
Principal Engineer

RECEIVED: 15/09/2023

Key

Skills

- Strategic Flood Risk Assessment (SFRA)
- Flood Risk Assessment
- Hydraulic Modelling
- Hydrology
- Environmental Impact Statements
- Environmental Monitoring
- GIS



Short

Biography

During his experience as a consultant David has gained a wide range of knowledge in the environmental and flood risk assessment fields. Primary fields include the preparation of Strategic Flood Risk Assessments (SFRA's) on behalf of a number of County Councils, Flood Risk Assessments and Environmental Impact Statements, notably the Soils & Geology and Hydrology & Hydrogeology chapters. As part of his role within JBA David has aided in the development of the OPW Western CFRAM Study. He has also undertaken numerous site specific Flood Risk Assessments (FRA) covering a wide range of development types and flood risk issues. David has received training and undertook hydraulic modelling using HEC-RAS, ISIS, TUFLOW (1D-2D) on a number of FRA projects with JBA Consulting.

As part of his work on Environmental Impact Statements, David has worked a wide range of projects ranging from large residential developments, manufacturing & commercial developments and port facilities. Significant consultation was undertaken with all relevant stakeholders including Architects, Engineers and Planners.

David's work on the SFRA's spans from the initial start-up meeting to the final presentation meeting, including all intermediate correspondence with the relevant stakeholders. David has an innate understanding on the SFRA process, standards and required outcomes to comprehensively outline the flood risks and appropriate mitigation measures for the study area.

David has undertaken extensive 1D & 2D flood modelling using the software packages TUFLOW, ISIS, MIKEFLOOD, MIKE 11 & MIKE 21 covering various projects. Developments include Section 50 applications in addition to the classification of Flood Zone A, B & C to ensure appropriate development. Extensive consultation was undertaken with the clients as part of the relevant projects.

David has been involved in numerous environmental monitoring programmes for clients to meet their licence requirements. Monitoring includes surface water, groundwater and soil sampling & analysis for contaminated land developments. Works include consultation with the client, sub-contractors, preparation of quotations, organisation of site works, sampling & analysis and compiling of reports. Relevant consultation was undertaken with the client to discuss and clarify the sampling results.

Academic

Qualifications

Date	Qualification	Subject	Educational Institution
2011	Post Graduate Certificate	Water and Environmental Management	Staffordshire University
2011	MSc	Water Resource & Catchment Management	Heriot Watt University
2000	BSc	Building Engineering & Management	Institute of Technology, Limerick

Professional

Affiliations

Date	Designation	Body	Grade
2013	MCIWEM	CIWEM	Member

Professional

History

Dates	Position	Company
2023 - Present	Principal Engineer	JBA Consulting
2016 – 2023	Senior Engineer	JBA Consulting
2011 – 2016	Environmental Consultant	AWN Consulting

Health and Safety Training		
	Date	Course
	2016	Safe Pass
	2015	Manual Handling
	2016	Induction and Health & Safety
	Provider	
	Solas Safe Pass Training	
	nifas	
	JBA Consulting	
Relevant Experience		
SFRA	David has significant experience in preparing SFRA's for a number of county council bodies. David is proficient in attending development meetings to identify the goals of the council and effectively provide mitigation measures to manage flood risk.	
Environmental Monitoring	David has substantial experience in the undertaken of surface water, groundwater and soil sampling as part of annual monitoring programmes. Works involved correspondence with the client, organisation of the works, undertaking of sampling works and compiling report. David has experience supervising excavations and undertaken sampling programmes within contaminated lands, from hydrocarbon and industrial contamination. Sampling programmes where implement to monitor levels of contamination and effectiveness of contamination remediation.	
Hydrology	David is proficient in the study of hydrology, including the peak flow estimation un gauged catchments. He has knowledge in the employment of the Flood Studies Report (FSR), Flood Estimation Handbook (FEH) and the Flood Studies Update (FSU) and their application to flood risk assessments.	
Environmental Impact Statements	David has completed numerous Environmental Impact Statements covering Soils, Geology and Hydrology & Hydrogeology chapters. The projects ranged from large residential developments, manufacturing, waste processing facilities and proposed cruise berth facilities. As part of the EIS process significant consultation was undertaken with Architects, Engineers, Planners and other relevant stakeholders.	
Hydraulic Modelling	David has received training in one and two-dimensional hydraulic modelling using software suite MIKEFLOOD, MIKE 11 and MIKE 21 in addition to the modelling programmes Flood Modeller (1D) and TUFLOW (2D). He is proficient in developing fluvial, pluvial and tidal hydraulic models as part of planning applications and SFRA's.	
Health & Safety	As part of his undergraduate qualification and substantial experience in the construction industry David has been exposed to the importance of health & safety. This experience is paramount with undertaken site visits to construction sites and managing site geo-technical works.	
GIS Analysis	David is proficient in the production of GIS mapping with experience in ArcGIS software packages.	
Flood Risk Assessment	David has substantial experience developing flood risk assessments for a wide range of proposed developments in support of planning applications. This is completed in accordance with relevant planning guidance and procedures and includes catchment analysis, hydrological assessment, construction, verification and analysis of hydraulic models.	
Catchment Flood Management	Since joining JBA David has been working on the OPW Western CFRAM Study, in a collaborative role in development of the descriptive reports. The role required a holistic understanding of flood issues including flood forecasting and natural flood defence measures such as sustainable urban drainage systems (SuDS).	
Project Experience		
2025	Principal Engineer	Edenderry Gas Pipeline, Co Westmeath FRA JBA have been appointed to prepare a Flood Risk Assessment for a proposed gas pipeline and associated works. The route runs in close proximity to a number of watercourses of various sizes. The address the flood risk issues a hydraulic model has been developed to confirm the flood extents along the route and development appropriate mitigation measures.
2023	Principal Engineer	Clondalkin LAP SFRA JBA have been appointed to prepare a Strategic Flood Risk Assessment (SFRA) as part of the Clondalkin Local Area Plan (LAP) The project is currently ongoing however JBA has provided and extension list of guidelines/ policies while also guiding development potential for opportunity sites.
2023	Principal Engineer	Twenties Land, Drogheda FRA A comprehensive FRA and associated flood model have been development for a large residential development. The area had specific flood risk issues that had to be managed via site specific mitigation measures. The proposed measures enabled development of the wider masterplan area while protect the site and surrounding area from inundation.
2022	Senior Engineer	Confidential Client- Carrigtwohill FRA Development of a flood model to delineate the flood extents particularly tidal as part of a planning application covering the expansion of an industrial plant.
2022	Senior Engineer	Skycastle Ltd-Moygaddy FRA Development of FRA to cover the entire masterplan for a large mixed use development that also included extensive road infrastructure (5no. bridge crossings). A flood model to delineate the flood extents particularly tidal as part of a planning application covering the expansion of an industrial plant. Planning applications have both been issued to Meath CoCo. and Kildare CoCo.

Project Experience

2021	Senior Engineer	BAM- Carrigtwohill FRA An FRA and associated hydraulic model was required as part of a large residential development in Carrigtwohill, Co Cork. The model was built to represent
2019	Senior Engineer	Kings Island -Flood Relief Scheme- Limerick City -EIAR As part of the wider EIAR and FRS scheme, David specifically compiled the Hydrology/Hydrogeology and Soils/Geology chapters as part of the EIAR.
2018	Senior Engineer	Tullamore EIAR David compiled the Hydrology/Hydrogeology and Soils/Geology chapters as part of an EIAR submission as part of the mixed-use development located within Tullamore town centre. A groundwater monitoring programme was undertaken as part of the works and the findings contained within the hydrology/hydrogeology chapter.
2018	Senior Engineer	Oldtown, Newbridge, Co Kildare Flood Risk Assessment As part of planning application for a residential development, it was necessary to develop a linked 1D/2D Estry/ TUFLOW model. The purpose of the model was to obtain the baseline 100yr and 1000yr flood extents and advice on appropriate Finish Floor Levels for the development
2018	Senior Engineer	East Wall, Dublin Flood Risk Assessment As part of planning application for a mixed use development, it was necessary to develop a linked 2D TUFLOW tidal model. The purpose of the model was to obtain the baseline 100yr and 1000yr flood extents and advice on appropriate Finish Floor Levels for the development
2017	Senior Engineer	Carrickmines, Flood Risk Assessment A linked 1D/2D hydraulic model was developed for a proposed mixed use developed in Carrickmines, Co Dublin. A Estry/TUFLOW 1D/2D model was developed for the site to obtain the 100yr and 1000yr flood levels to develop appropriate mitigation measure for the site including compensatory storage.
2017	Senior Engineer	Variation 1 to the Kells Development Plan 2013-2019 Responsible for compiling the SFRA as part of a variation of the current Kells Development Plan 2013-2019. The variation focusses on the incorporation of the development goals of Meath County Council for Kells and the management of the known flood risk to aid the development and growth of the town.
2017	Senior Engineer	Birr PV Solar Farm- Co Offaly-Flood Risk Assessment Provided a Stage 2 Flood Risk Assessment for a proposed solar farm development in the outskirts of Birr, Co Offaly. Proposed flood mitigation measures to maximise the development potential on the site, while adhering to the Flood Risk Assessment guidelines.
2017	Senior Engineer	Milltown PV Solar Farm-Co Kildare FRA Produced a Stage 3 Flood Risk Assessment for a proposed Solar PV Farm near Tullamore, Co Kildare. Detailed hydraulic modelling was undertaken to estimate the extent of Flood Zone A & B at the site, which ultimately defined the solar farm layout within the site. The hydraulic model was built using a linked Estry/ TUFLOW model.
2016	Senior Engineer	Limerick SFRA Variation of Development Plan 2010-2016 Responsible for compiling the SFRA as part of a variation of the current Limerick City Development Plan 2010-2016. The variation focusses on the proposed regeneration of Moyross, Southill, King's Island and Ballynacurra Weston areas of the city. Particular focus was paid to conflict between currently zoned residential lands and the CFRAM Flood Zones A & B and regeneration of lands with a residual risk of flooding.
2016	Senior Engineer	Ferbane Flood Impact and Feasibility Study Undertook analysis on the recent flood event of a school in Ferbane town. The report was commissioned to inform the client on the likelihood of inundation occurring onsite and the recommendation of flood defence and resilience measures.
2016	Senior Engineer	Western CFRAM Overarching report and SEA reports Aided in the collaboration of the POR and SEA reports as part of the Western CFRAM programme. Inputs included the development of the baseline report as part of the SEA, flood forecasting and natural flood defence measures.
2015	Environmental Consultant	Stephen Little- Dun Laoighaire Port Cruise Berth EIS Compiled Water Quality Chapter on the proposed construction of a new berth facility and associated cruise ship operations. Determination of the potential impacts was undertaken which resulted in the recommendation of mitigation measures to ensure no negative impact from the development.

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Project		Experience	
2014	Environmental Consultant	Stafford Fuels, New Ross, Ireland - Coal Briquettes Manufacturing Facility EIS Responsible for compiling the Hydrology & Hydrogeology, Soils & Geology of the EIS for the expansion of a coal briquette manufacturing facility. As part of the EIS a detailed Stage 3 Flood Risk Assessment including hydraulic modelling was undertaken to clarify the flood risk to the site and impact of proposed mitigation measure facility. The site is adjacent to a flood plain subject to tidal flooding. Solutions were developed and assessed to protect against potential flooding and surface water management issues onsite.	
Health and		Safety Training	
Dates	Course Title	Provider	
2016	Induction and Health & Safety	JBA Consulting	

Gary Duffy graduated from Dundalk RTC in 1989 with a higher diploma in electronic engineering, completed the Institute of Acoustics (IOA) diploma in 1996 and obtained corporate membership in 1999. He is a founder member of the Irish Branch of the IOA and is Enfonic's managing director.

As well as business development and financial management, Gary is currently Principal Consultant, Mentor and Project Director.

1996 – 2002 Bruel & Kjaer. Title: Country Manager

Bruel & Kjaer (B&K) are the world's leading and largest supplier of noise and vibration instrumentation, software and related services. I was responsible for developing the brand and selling their range of products and services. This exposed me to a huge range of applications, from architectural acoustics to wind turbine noise analysis and from occupational noise to automotive and aerospace applications.

Acoustics was in it's infancy in Ireland at this time but there was growing demand for expertise and knowledge. I acted as a conduit of information and application knowhow from B&K and their world-wide diverse range of customers into Ireland. With the close support of my colleagues in B&K, I arranged training courses, seminars and conferences on environmental noise, architectural acoustics, under-water acoustics, vibration monitoring, product noise assessment and noise modelling to name but a few.

These efforts brought me in contact with customers in government agencies, industries of all sorts, academia, consultants and engineering firms of many disciplines, which lead to continued sale success.

Together with our growing customer base, I played no small part in developing the acoustic market we know in Ireland today. This including being a founding member of the Institute of Acoustics (IOA) Irish Branch, drafting the original EPA guidance note on Noise and representing the IOA on the technical advisory committee of the Department of the Environment's revision of Part E (Sound Insulation) of the Building Regulations.

2002 – Present Enfonic. Title: Director and Principal Consultant.

Enfonic was established to continue my work with B&K by becoming an exclusive agent for them. In addition, I took on other agencies for the supply of additional acoustic and vibration related products and services.

The company expanded into instrumentation hire and I continued to work closely with B&K, attending regular training courses including on vibration and structural analysis, underwater acoustics, vibration testing, noise control, noise modelling and product testing.

Our instrumentation hire business continued to grow and we started taking on a number of staff. Our engineers provided support services to the instrumentation fleet by conducting noise and vibration surveys for some of our consultant customers.

Over time, we developed our expert acoustic consultancy services and now operate exclusively in this domain. We have seven employees and have an enviable depth of national and international expertise across many disciplines, led by me as principal consultant.

Our main divisions are Architectural, Environmental, Product Development and Monitoring Services.

Architectural

Our team of consultants have for example delivered over 4,000 dwellings in the past 3 years by working on the acoustic design of building facades, mechanical and electrical plant, and wall, floor and ceiling designs for a wide range of clients. We have also developed the acoustic design of several hotels, sports facilities, numerous retail outlets and many schools and offices.

Environmental

Primarily involved in the delivery of renewable energy schemes including biogas sites, wind farms, solar farms, grid support infrastructure etc. We are experts in delivery noise impact assessments as required to support the planning process.

Transportation noise and vibration is also a key market for us and we undertake impact assessments for rail, road and aircraft.

Product Development

We provided conformance testing and design advice for a wide range of products.

Monitoring Services

Not only do we possess the largest fleet of noise and vibration instrumentation in Ireland, we manage monitoring programmes for the likes of Irish Rail, Dublin Airport Authority, Intel and Vermilion.

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CURRICULUM VITAE

CIAN DOUGHAN

ASSOCIATE DIRECTOR - LANDSCAPE ARCHITECT

BSC LANDSCAPE ARCHITECTURE

MILI



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PERSONAL PROFILE

Cian is an honours graduate of Landscape Architecture from UCD and is from Dublin, Ireland. He has exceptional graphic ability and his main field of interest in landscape Architecture is that of landscape planning and in particular, Landscape and Visual Impact Assessment. Cian has worked on important water supply projects as well as a range of SID wind farm developments and over 80 solar farm applications. Recent work that he has been involved with includes Scart Mountain, Cloghercor and Ballinagree SID Wind Farms, numerous large scale solar developments, linear infrastructure such as Greenways and Road developments, feasibility assessments for various on-shore wind farm developments in addition to the Draft Landscape Design Guidelines for Irish Water.

EDUCATIONAL AND PROFESSIONAL STATUS

- BSc, Landscape Architecture, University College Dublin (UCD).
- MILI – Member of the Irish Landscape Institute

EMPLOYMENT HISTORY

- 2023 to present – Associate Director, Landscape Architect, Macro Works Ltd
- 2016 to 2023 – Landscape Architect, Macro Works Ltd
- 2017 – 2018 – Landscape Architect, Hollander Design New York

SELECTED RECENT PROJECT EXAMPLES

Scart Mountain SID Wind Farm, Empower (2024). An SID Wind Farm development comprising 15 no. turbines rising to a maximum height of up to 185m located along the eastern foothills of the Knockmealdown Mountains in County Waterford.

Dyrick Hill SID Wind Farm, Empower (2023). An SID Wind Farm development comprising 12 no. turbines rising to a maximum height of 185m located along the Knockmealdown Mountains foothills in County Waterford.

Cloghercor SID Wind Farm, Orsted/FEI (2023). An SID Wind Farm development comprising 19 no. turbines rising to a maximum height of 200m in County Donegal.

Ballinagree SID Wind Farm, Orsted/FEI (2022). An SID Wind Farm development comprising 20 no. turbines rising to a maximum height of 185m located in the Boggeragh Mountains in County Cork.

Rathcoursey Solar Farm, Terra Solar (2023). A 126ha solar farm development comprising 5 parcels and served by a new 110kV substation, located along rolling agricultural lands in northeast Cork, north of Cork Harbour.

St. Kevins Hospital SHD, Land Development Agency (2021). A residential development on a 5.7 ha site on lands located 2.5km west of Cork City Centre on a prominent south-facing hillside site, the former St. Kevin's Hospital and grounds, Shanakiel, Cork.

100+ Solar Energy Projects, various developers. Feasibility, LVIA, Landscape Strategies, Glint and Glare Assessments, Further Information Requests and Appeal responses.

30+ Wind Energy Projects, various private and semi-state developers. Feasibility, Design Optimisation, LVIA, Further Information Requests and Appeal Responses.

Background:

A civil and traffic engineer with thirty years post-graduate experience in consulting engineering and has specialised in traffic engineering and transportation planning throughout this period.

Stephen graduated in 1995 with a Bachelor of Engineering (BEng Hons) Degree in Civil and Transportation Engineering from Napier University, Edinburgh.

Has been based in Ireland since January 1999, managing the development planning, traffic engineering and transportation aspects of numerous large scale and complex projects for consulting engineering practices, before setting up own practice in 2014.

Chartered Member of the Institute of Logistics and Transport.

Experienced in use of LINSIG, TRANSYT and OSCADY traffic signals modelling software, and AutoCAD design software and AutoTrack and Autoturn swept path assessment software.

Current Position:

(July 2014-date) Managing Director, Stephen Reid Consulting Traffic and Transportation Limited

Managing transport elements of projects for a range of clients from developers to local authorities, in the residential and commercial development sectors, road design and infrastructure/utilities planning and development, traffic signals, traffic calming design and mobility planning/sustainable travel plans.

Previous Positions:

(September 2003-June 2014) Associate Director, AECOM Limited, in charge of major development projects for developers throughout Ireland.

(September 2000-September 2003) Technical Director, URS Thorburn Colquhoun Limited, in charge of major development traffic assessments.

(August 1995-September 2000) Graduate Consultant to Principal Consultant, Colin Buchanan & Partners, working on development, traffic engineering and public transport projects throughout the UK and Ireland.

(March 1993-September 1993) Technical Assistant – City of Edinburgh Transportation Office, Lothian Regional Council – work placement, working with UTC/SCOOT team and on various traffic safety schemes and development control assessment.

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John Kavanagh

Icon Archaeology Ltd

Ryegrass, Carrigeen North, Baltinglass, County Wicklow

Email: iconarchaeology@gmail.com

Mobile: 085 1746641

Professional Profile:

Over 30 years of archaeological experience including 22 years as a licenced director and 20 years as a company director. This experience extends across both the public and private sectors and includes large scale infrastructure projects, smaller urban commercial projects and private development. This practical knowledge is combined with a strong academic background including an MA in Archaeology and an MSc in Computer Science, supported by postgraduate diplomas in both project and business management.

Key Skills: Project management, planning consultant, specialist in bid management, archaeology and planning, GIS software applications, excavation & survey.

Education & Qualifications:

2011 – 2015 DIT, MSc in Computer Science (1st Class)

2010 – 2011 CIT, PGD in Project Management

2009 – 2010 CIT, PGD in Business Management

1997 – 1998 UCD, MA Archaeology

1993 – 1997 UCD, BA History & Archaeology

Professional Experience:

2005 – Present: Senior Project Manager & Site Director with Icon Archaeology Ltd

- Key Projects include;
 - Excavation of Prehistoric ring-barrow, Milverton, Skerries, County Dublin (10E111)
 - Excavation of Early Medieval Enclosure, Swords, County Dublin (14E0206)
 - EIA, Quarry, Ballysax Great, County Kildare
 - Excavation of Multi-Period Site, Mungret, County Limerick (Ministerial Consent No. 286)
 - EIA, Quarry, Windmill Hill, County Dublin
 - EIA, Road Scheme, Carlow Town, County Carlow
 - Excavation at St. Mary's Church, Leixlip, County Kildare (07E1081)
 - Excavation of Multi-Period Site, Mungret, County Limerick (Ministerial Consent No. 286)
 - Excavation of 19th Century Coach House, 6 Gardiner Row, Dublin 1 (06E0508)
 - Excavation of Prehistoric Ring Ditches, Ashbourne, County Meath (06E0871)
 - Excavation of Ecclesiastical Enclosure & Souterrains, Ashbourne, County Meath (06E0871)
 - Excavation of Smelting Site, Ballydonagh, County Westmeath (Eachtra Archaeology)
 - Excavation at Dun Na Sead Castle, Baltimore, County Cork (05E0225)
 - Excavation of Enclosure Site, Adare Manor, County Limerick (05E1329)
 - Over 200 assessments, test excavations, geo-physical surveys and monitoring

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2003 – 2004: Site Director with National Archaeology Services

Key Projects include;

- Excavation of 19th Century Building Remains, Findlater, Dublin 1 (04E1410)
- Excavation at Graveyard, St. Mary's Church, Clonsilla, County Dublin (04E0033)
- Excavation of Viking Burial/Medieval Defences, Church Road, Finglas, County Dublin (04E0900)
- Monitoring, Main Drainage Scheme, Fore, County Westmeath (04E1434)
- EIA, Main Drainage Scheme, Fore, County Westmeath
- Excavation of Prehistoric BA flat cemetery, Ferns, County Wexford (04E0535)

2003: Site Director with Network Archaeology

Key Projects include;

- Excavation of Early Bronze Age D-Shaped Enclosure, Cashel By-pass (03E0295)
- Excavation of Early Bronze Age Fulacht Fiadh, Cashel By-pass (03E0413)
- Excavation of Mesolithic Hut Site, Cashel By-pass (03E0426)
- Excavation of Early Medieval Enclosure, Cashel By-pass (03E0470)
- Excavation of Early Medieval Corn Drying Kilns, Cashel By-pass (03E0807)
- Excavation of Early Bronze Age Domestic Site, Cashel By-pass (03E0676)

2002 – 2003: Site Director with IAC

Key Projects include;

- Excavation of Medieval Tower House, Dalkey, County Dublin (02E1871)

2002 Dept. of the Environment, National Monuments Division (Planning Infrastructure & Archaeology)

- Responsibilities: Assistant to Brian Duffy with responsibility for assessing major infrastructure developments & archaeology – constraint studies, route selection studies, preferred route & EIS, liaison with consultancies and NRA project archaeologists.

1994 – 2002: Freelance Archaeologist and Supervisor Working for Consultancies on the Following Schemes and Projects:

ADS, Enclosure Site, Coolock, Dublin/Margaret Gowen, Medieval Urban, Thurles, Tipperary/Judith Carroll, Post Medieval Urban, Dublin/Judith Carroll, Lucan Flood Relief, Dublin/Judith Carroll, Liffey Flood Relief, Kildare/John Channing, Donegal By-Pass, Multi-Site, Donegal/VJK, Ennis By-Pass, Multi-Site, Clare/ACS, Ennis By-Pass, Multi-Site, Clare/ACS, Youghal By-Pass, Multi-Site, Cork/Eachtra, Kilmacthomas By-Pass, Multi-Site, Waterford/ACS, Dwyer Street, Medieval, Louth/Judith Carroll, Kilkenny City, Medieval, Kilkenny/Judith Carroll, Royal Hospital Kilmainham, 19th Century, Dublin/Eachtra, Tralee, Enclosure Site, Kerry/ACS, Mullingar By-Pass, Multi-Site, Meath/ADS, N11 Road Scheme, Multi-Site, Wexford/VJK, M50 Road Scheme, Multi-Site, Dublin/Margaret Gowen, Cherrywood, Multi-Site, Dublin/Judith Carroll, Rathfarnham, Cemetery, Dublin.

CURRICULUM VITAE

PETER CONNELL

LVIA CONSULTANT

BA, MPHIL, MSC



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PERSONAL PROFILE

Peter has recently joined the LVIA team, having been part of the GIS team at Macro Works since 2023. He is primarily involved in the preparation of LVIA reports, as well as viewpoint selection and capture. Peter is heavily involved in the fieldwork aspect of the company, undertaking many site visits, as well as coordinating the acquisition and maintenance of camera and GPS equipment. Due to his GIS background, Peter conducts several spatial analyses such as aviation glint and glare assessments, shadow flicker analyses, route screening assessments, as well as ZTV and other mapping.

EDUCATIONAL AND PROFESSIONAL STATUS

- MSc in Applied Geospatial Analysis, University College Dublin (2020)
- MPhil in Classics, Trinity College Dublin (2019)
- BA in Ancient History & Archaeology, Trinity College Dublin (2018)

EMPLOYMENT HISTORY

- 2025 to Present – LVIA Consultant, Macro Works (APEM Group)
- 2023 to 2024 – GIS Specialist, Macro Works (APEM Group)
- 2021 to 2023 – GIS Analyst, Greensource
- 2020 to 2021 – Research Assistant, University College Dublin

SELECTED RECENT PROJECT EXAMPLES

Maynooth to Turlough Hill 220kV Grid Refirbishment - Project Leader, LVIA, Sitework and Photography

Oughtihery Wind Farm - Constraints analysis, VP Selection, ZTV and Report Mapping

Clare 4N Wind Farm - Shadow Flicker Analysis and Report

Garrane Wind Farm - Route Screening Assessment

50+ Wind Farm Projects – Mapping Support and Analysis

30+ Solar Farm Projects – Mapping Support and Analysis

20+ Aviation Glint and Glare Projects - Project Leader, Glint & Glare analysis and report, Mapping

20+ Electrical Infrastructre Projects – Mapping Support and Analysis
