

Curriculum Vitae Emma Toovey



Name
Emma Toovey

Current Position
Associate Director

Education and Qualifications

2000, BSc (Hons), Biological Sciences with Environmental Resources, University of Warwick

2002, MSc, Environmental Assessment & Management, Oxford Brookes University

Professional Memberships

Chartered Institute of Ecology and Environmental Management - Full

Career Summary

2011, Associate Director, AMEC Environment & Infrastructure UK

2010, Associate Director, Entec UK Ltd

2008, Principal Ecologist, Entec UK Ltd

2007, Senior Ecologist, Entec UK Ltd

2006, Consultant Ecologist, Entec UK Ltd

2005, Senior Ecologist, White Young Green Environmental

2003, Ecologist, White Young Green Environmental

Key Expertise

Emma has undertaken and project-managed a wide range of ecological assessments as stand-alone reports and as part of the wider EIA process. Emma's extensive project experience covers a variety of habitat types and protected species for a range of development, regeneration and/or conservation proposals. Emma has extensive expertise in the design and implementation of mitigation strategies, working closely with architects, engineers, landscape architects, hydrologists and other environmental professionals. Emma's experience extends to developing relationships and undertaking extensive consultation with stakeholders and statutory consultees for a variety of project types, both conservation- and development-led. Emma is also experienced in managing large technical teams, often including a range of ecological specialists, in order to meet the requirements of technically challenging projects.

Emma is also experienced at undertaking Habitats Regulations Assessments at the project level and on plans and programmes at the strategic level.

Urban Ecology/Sustainable Design

Emma has particular experience in urban ecology and working on regeneration projects within a city setting in London and the South East. This has included working closely with architects, landscape architects and other environmental professionals to integrate

sustainable design solutions, particularly relating to biodiversity, into the overall scheme design. Such experience has included providing support for BREEAM and Code for Sustainable Homes Assessments, provision of technical specialist advice for the Carbon Challenge project, the provision of brown and green roofs on a major residential development on the south bank of the Thames and input into a sensitive and modern landscape design on the edge of a tidal creek in Kent.

Selected Project Experience

Arborfield Garrison Redevelopment - Ecological Impact Assessment for a large housing development

Defence sites

Arborfield Garrison has been identified as a potential site for rationalisation of training services and future re-development for housing following its status as a Strategic Development Area within the LDF. Emma has acted as ecological task manager and technical lead for all ecological services across the proposed site in support of an Environmental Impact Assessment. The 300 hectare site has required an extensive range of survey work to be undertaken, including surveys for bats, dormice, reptiles, great crested newts, badgers, water voles and birds. Additionally, due to the proximity of the site to the Thames Basin Heaths Special Protection Area (SPA) (a European designated site), an extensive mitigation strategy has been designed that includes the provision of large areas of Suitable Alternative Natural Green Space (SANGS) in order to comply with the requirements of the European Habitats Directive. A detailed mitigation strategy has also been designed in order to mitigate effects upon the local badger population. This strategy will also require the granting of licenses from Natural England and AMEC will provide support in this regard once the mitigation strategy is to be implemented.

Hailsham Sussex - Ecological Impact Assessment for a large mixed use development on greenfield land.

Hillreed Homes

Proposals for a large mixed use development on greenfield land in Hailsham, Sussex required that an Ecological Impact Assessment were undertaken as part of a wider EIA. This included the collation of baseline data for habitats and protected species and the design of an adequate mitigation strategy for a number of protected species confirmed to be present onsite including great crested newts, dormice, reptiles, badgers and nesting birds. Additionally, the presence of a European designated site for nature conservation within the vicinity required that a Habitats Regulations Assessment (HRA) was undertaken to ensure compliance with the European directive.

Internal Guidance for Habitats Regulations Assessments for Plans and Programmes

AMEC

Emma has been the task manager for developing the internal guidance notes for AMEC in relation to undertaking Habitats

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Regulations Assessments (HRA) of strategic plans and programmes. In liaison with the in-house technical committee of specialists, the guidance was developed through consultation with the relevant bodies, detailed study of current reference material and technical discussion.

New Build Nuclear Power Stations at Dungeness Sizewell Hinkley and Bradwell - Ecological Services EDF

AMEC have been commissioned to provide all ecological services required to support the development of proposals for four new nuclear power stations in the south of England. Emma has provided key ecological input for all four sites and is Project Manager for all ecological services at Sizewell in Suffolk. This work has included managing an extensive team of ecologists, both in-house and local experts. AMEC have collated and interpreted an extensive desk study of available information and historical reports in addition to undertaking a suite of detailed species and habitat specific survey work for all four sites. Due to the sensitivity of the site at Sizewell, Emma provides monthly input into the scheme design, working closely with engineers and architects and the wider EIA team. Emma is also leading a number of research studies that are considering options with regard to innovative and effective mitigation and enhancement strategies. The project has required extensive consultation with statutory consultees and other relevant parties and is currently working towards the provision of an Environmental Impact Assessment for Sizewell and Hinkley.

Waltham Forest BSF Schools - Project Manager for Ecological Support for BREEAM

Bouygues UK Ltd (on behalf of Waltham Forest BC)
Emma was responsible for co-ordinating and technical reviewing ecological assessments for 17 schools sites in the London Borough of Waltham Forest in support of BREEAM assessments. Baseline ecological surveys and desk studies were undertaken for each school and assessment reports provided identifying which BREEAM credits could be achieved for each school if a variety of biodiversity related recommendations were implemented as part of the scheme design. Advice was given with regard to optimising sustainability, biodiversity benefits and BREEAM credits as well as ensuring compliance with the relevant wildlife legislation.

London Plan Alterations HRA support

Greater London Authority

Technical advisor providing support relating to the requirements of the Habitats Regulations and their application resulting from alterations to the London Plan.

Specialist Advisor (Biodiversity) for the Carbon Challenge

English Partnerships

Emma provided advice as part of AMEC's Sustainable Design Group, an integrated team lead including experts in urban design and architecture, energy, water, waste and materials, ecology and management. The group is part of the Carbon Challenge Network which is a partnership between the CLG, EP and other advisory

bodies such as the Building Research Establishment (BRE), Energy Saving Trust (EST) and Waste & Resources Action Programme (WRAP). AMEC acts as lead technical advisor to the Carbon Challenge Network through developing standard documents such as the Carbon Challenge generic brief as well as site-specific documents; facilitating procurement processes; evaluating tender submissions, liaising with site specific and regional teams and developers; and monitoring and evaluating outcomes at key stages of the Carbon Challenge.

The Carbon Challenge is being run by English Partnerships (EP) on behalf of Communities and Local Government (CLG) in order to equip the house building industry with the skills and technology needed to meet the goal set by the Government that all new homes will be zero carbon by 2016. In particular, the Challenge will act as a testing ground for the Government's Code for Sustainable Homes and the new Planning Policy Statement on climate change.

Tottenham Hale London - Ecological Assessment for a new waterside residential development ISIS Waterside Regeneration

Ecological baseline surveys for birds, water voles and bats and an Ecological Impact Assessment were required for a proposed residential development situated on a small site bounded by water courses on two sides within the Lea Valley. The site is located within 50m of an internationally designated site for birds. The water courses either side of the site also support protected species including water voles. Input into the scheme design was important to ensure that adverse effects upon the local bird population did not occur and a mitigation and enhancement strategy is currently being designed in order to improve the biodiversity value of the area and ensure compliance with wildlife legislation and national policy.