



**MSC Fisheries Certification Assessment**  
**Lake Erie Walleye Fishery**  
**Lake Erie Yellow Perch Fishery**  
**Certification Body: Intertek Fisheries Certification**

**Notification of Proposed Peer Reviewers**

A Peer Review panel has been proposed for the above fisheries. Potential peer reviewers have been approached on the basis of their experience of one or more of the following; the fisheries under assessment, fishery management, stock assessment issues and relevant ecosystem interactions.

A short bio and CV for each reviewer is provided below. All stakeholders (including the applicant fishery) are now given the opportunity to state any objections to the selection of a proposed member of the peer review panel, on the basis of any conflicts of interest, accompanied by a statement on the basis of any objection.

Comments on the suitability of any of the persons listed below should be forwarded, **before 22<sup>nd</sup> August 2014** to **Ian Scott** [ian.scott@intertek.com](mailto:ian.scott@intertek.com)

If you wish to provide comment at any stage of the assessment process the MSC have provided a template for stakeholders to complete and submit their comments. This can be downloaded from the following link:

<http://www.msc.org/documents/scheme-documents/forms-and-templates/msc-template-for-stakeholder-input-into-fishery-assessments/view>

Intertek Fisheries Certification will notify identified stakeholders of key steps in the assessment process directly through email. If you know of anyone who may be interested in this notification please forward to them and notify us so we may add them to our list of stakeholders. It should be noted that because email is not a fool-proof way of transmitting notifications, we ask that stakeholders also subscribe to the free notification service provided by the MSC at: <http://www.msc.org/newsroom/updates>

Should you wish to obtain further information on the MSC, this is available on their web site at <http://www.msc.org>.

As a conformity assessment body, Intertek Fisheries Certification has dispute resolution procedures available should these prove necessary. These are available by contacting the Lead Assessor below.

**Ian Scott**  
[ian.scott@intertek.com](mailto:ian.scott@intertek.com)

## Proposed Peer Reviewers:

**1. Dr Andrew Gill.** Andrew is an academic member of staff at Cranfield University, UK, and has over 15 years' experience as an aquatic ecologist with a particular interest in the fish and fisheries ecology and links with human activity. His currently duties at Cranfield include: developing research activity (aquatic ecology and anthropogenic impacts); Publication, preparation and research grant proposals; development and preparation of contracts and industrial liaison; teaching postgraduate and professional training courses in aquatic ecology, environmental river management, river restoration, coastal and estuarine restoration ecology, fish and fisheries biology, environmental impact assessment and ecological field techniques and surveying of inland aquatic and coastal developments.

From 2002 to 2003 he was a lecturer at the School of Biological Sciences, University of Liverpool where his responsibilities included: developing research profile (aquatic ecology and anthropogenic impacts); and teaching undergraduate and postgraduate modules in fish & fisheries biology, animal diversity, river restoration, lake restoration, experimental methods and design, ecological field techniques.

Between 1988 and 2002 he held various positions: MSc Course Director - Restoration Ecology of Terrestrial & Aquatic Environments School of Biological Sciences, University of Liverpool; Lecturer in Fish and Fisheries Biology, Department of Environmental and Evolutionary Biology, University of Liverpool; Science Coordinator, Coral Cay Conservation (CCC), Headquarters, London; Research and Education Consultant Biologist, Belize; Scientific Officer, CCC, Belize Barrier Reef; and Research Assistant, Department of Zoology, University of Leicester

**2. Dr Andrew Hough:** Andrew has PhD in marine ecology from the University of Wales, Bangor (1987-90). He has been involved in marine, coastal and freshwater environmental management since 1991, including management of fishery impacts on ecosystems and marine conservation biology, principally in European inshore waters. He was manager of Moody Marine operations within Moody International Certification from 1999 to 2011 with particular responsibility for the implementation of MSC Certification procedures and development of MSC methodologies. He was lead assessor on many of Moody Marine MSC pre assessments and main assessments during this time. This has involved stock assessment analysis, evaluation of ecosystem effects and management effectiveness of groundfish, pelagic and shellfish fisheries in various administrations around the world. He now works as a freelance environmental/fishery management consultant and auditor. In this role he provides consultancy to members of the Association of Sustainable Fisheries – a group of MSC certified fisheries.

## Curriculum Vitae

### Andrew Bruce GILL

<b>Nationality</b>	British
<b>Education and qualifications</b>	<p><b>PhD Fish Behavioural Ecology</b> University of Leicester 1993</p> <p><b>BSc (Hons) Zoology (Marine &amp; Fisheries Biology)</b> University of Aberdeen 1989</p>
<b>Current employment</b>	<p>Aug 2009 – present</p> <p><b>Senior Lecturer in Aquatic Ecology</b> Oct 2003 – Aug 2009</p> <p><b>Lecturer in Aquatic Ecology</b> <b>Course Director MSc in Environmental Water Management</b> <b>Cranfield University School of Applied Sciences</b></p> <p>Responsibilities: Developing research activity (aquatic ecology and anthropogenic impacts); Publication, preparation and research grant proposals; Development and preparation of contracts and industrial liaison; Teaching postgraduate and professional training courses in aquatic ecology (including Water Framework Directive), environmental river management, river restoration, coastal and estuarine restoration ecology, fish and fisheries biology, environmental impact assessment and ecological field techniques and surveying of inland aquatic and coastal developments, nationally and internationally.</p>
<b>Committee membership etc</b>	<p>External examiner for MSc by research/MPhil Universities of Hull &amp; Portsmouth</p> <p>External examiner PhD - Universities of Exeter, Newcastle &amp; Essex, - Uppsala University, Sweden</p> <p>2012- Chair River Restoration Centre (RRC) Board of Directors</p> <p>2010- Member of organising committee for conference on wind energy and wildlife impacts, May 2-5 2011 Norwegian Institute for Nature Research</p> <p>2008 - British Ecological Society Early Career Grants selection panel</p> <p>2000 - Shark Trust Scientific Committee</p> <p>1996 - Scientific advisor to Coral Cay Conservation</p> <p>Home Office Animal Welfare accreditation - Project and Personal Licences</p>
<b>Institution and learned society membership</b>	<p>Ex-Marine &amp; Aquatic Editor Biological Conservation journal</p> <p>Editorial Board Biological Conservation</p> <p>Ex-Visiting Fellow Marine Biological Association UK</p> <p>Member of the Fisheries Society of the British Isles</p> <p>Member of British Ecological Society</p> <p>Member of the Marine Biological Association UK</p>
<b>Previous</b>	Oct 2002 – Sept 2003

## employment

Lecturer, School of Biological Sciences, University of Liverpool

June 1999 – Oct 2002

**MSc Course Director - Restoration Ecology of Terrestrial & Aquatic Environments, School of Biological Sciences, University of Liverpool**

Dec 1996 – June 1999

**Lecturer in Fish and Fisheries Biology**

**Department of Environmental and Evolutionary Biology, University of Liverpool**

1993-1996

**Scientific officer and science coordinator, Coral Cay Conservation, London, Belize & Philippines.**

## Publications

### Journal articles - recent

Kimber, J.A., Sims, D.W., Bellamy, P.H. & Gill, A.B. (2013). Elasmobranch cognitive ability: using electroreceptive foraging behaviour to demonstrate learning, habituation and memory in a benthic shark. *Animal Cognition* 1-11.

Gill, A.B., Balmer, J., Keim, D. & Munoz-Puelles, L. (in press). Assessing the early stages of success of a river bypass channel and restored habitat for the fish community. *Progress in Physical Geography*

Gill AB, Bartlett M & Thomsen F. (2012) Potential interactions between diadromous fishes of U.K. conservation importance and the electromagnetic fields and subsea noise from marine renewable energy developments, *Journal of Fish Biology*, 81 (2), 664-695.

Gill, A.B., Huang, Y., Spencer, J. & Gloyne-Phillips, I. (2012). Electromagnetic Fields emitted by High Voltage Alternating Current Offshore Wind Power Cables and interactions with marine organisms. Institution of Engineering and Technology, Conference Electromagnetics in Current and Emerging and Power Systems, University of Liverpool, U.K.

Kimber, J.A., Sims, D.W., Bellamy, P.H. & Gill, A.B. (2011). The ability of a benthic elasmobranch to discriminate between biological & artificial electric fields. *Marine Biology* 158, 1-8.

Hopkins, K., Moss & Gill A.B. (2011). Increased ambient temperature alters the parental care behaviour and reproductive success of the three-spined stickleback (*Gasterosteus aculeatus*). *Environmental Biology of Fishes*

Boehlert, G.W. & Gill, A.B. (2010). Environmental and ecological effects of ocean renewable energy development – a current synthesis. *Oceanography* 23, 68-81.

Kimber, J.A., Sims, D.W., Bellamy, P.H. & Gill, A.B. (2009). Male-female interactions affect foraging behaviour within groups of small-spotted catshark (*Scyliorhinus canicula*). *Animal Behaviour* 77, 1435-1440

Corlett, R., M Fischer, AB Gill, JP Metzger, AS Pullin, NS Sodhi (2009). Special Issue: Conservation issues in the Brazilian Atlantic forest. *Biological Conservation* 142 (6), 1137-1251

Mumby, Peter J., Fiorenza Micheli, Craig P. Dahlgren, Steven Y. Litvin, Andrew B. Gill, Daniel R. Brumbaugh, Kenneth Broad, James N. Sanchirico, Carrie V. Kappel, Alastair R. Harborne, Katherine E. Holmes (2006) Marine Parks Need Sharks? a response. *Science* 312, 527-528.

Mumby, Peter J., Craig P. Dahlgren, Alastair R. Harborne, Carrie V. Kappel, Fiorenza Micheli, Daniel R. Brumbaugh, Katherine E. Holmes, Judith M. Mendes, Ken Broad, James N. Sanchirico, Kevin Buch, Steve Box, Richard W. Stoffer, Andrew B. Gill (2006). Fishing, Trophic Cascades, and the Process of Grazing on Coral Reefs. *Science* 311, 98-101.

Gill, A.B. & Kimber, J.A. (2005). The potential for cooperative management of elasmobranchs and offshore renewable energy development in UK waters. *Journal of the Marine Biological Association of the UK*. 85, 1075-1081.

Gill, A.B. (2005). Offshore renewable energy - ecological implications of generating electricity in

the coastal zone. *Journal of Applied Ecology* 42: 605-615.

## Book Chapters - recent

- Gill, A.B., Gloyne-Phillips, I., Kimber, J.A. & Sigray, P. (in press). Marine renewable energy, electromagnetic fields and EM-sensitive animals. In: *Humanity and the Sea: marine renewable energy and the interactions with the environment*. Eds. M. Shields and A. Payne.
- Mant, Jenny, Andrew B. Gill, Di Hammond & Martin Janes (2012). Restoration of rivers and floodplains. In: *Restoration Ecology: The New Frontier* (second edition), Eds J. van Andel and J. Aronson Wiley-Blackwell.
- Gill, A.B. (2011). Removals of the Physical Resources from the Systems: Harvesting Energy. In: Wolanski E and McLusky DS (eds.) *Treatise on Estuarine and Coastal Science*, Vol 8, pp. 217–252. Waltham: Academic Press.

## Conference proceedings - recent

- Perotto-Baldivieso HL, Rivero K, Pinto-Ledezma J & Gill A.B. (2012) Distributing biodiversity data through the web: The Geospatial Center for Biodiversity in Bolivia. In: 4° Simpósio de Geotecnologias no Pantanal [4th Symposium on Geotechnologies in the Pantanal – GeoPantanal], Bonito.
- Christina Mueller-Blenkle, Andrew B Gill, Peter K McGregor, Julian Metcalfe, Victoria Bendall, Daniel Wood, Mathias H Andersson, Peter Sigray, Frank Thomsen (2010). Behavioral reactions of cod and sole to playback of pile driving sound. *Journal of the Acoustical Society of America*, 128: 2331.

## Recent Presentations

### *Invited Presentations*

- Gill, A.B., C. Mueller-Blenkle, P. K. McGregor, M. H. Andersson, J. Metcalfe, V. Bendall, P. Sigray, D. Wood, V. Wearmouth & F. Thomsen (2011) Field scale experiments to assess the effects of Offshore Wind Farms on marine organisms. Conference on Wind energy and Wildlife impacts, Trondheim, Norway.
- Gill, A.B. (2010) On understanding the ecological implications of offshore renewable energy developments: a fish eye view. Institute of Fisheries Management, AGM, London, UK.
- Gill, A.B. (2010) Current Understanding of the Potential Environmental Effects of Offshore Wind Turbines: Lessons learned in Europe. Sea Grant Workshop, Connecticut & Rhode Island.
- Gill, A.B., Gloyne-Phillips, I., Huang, Y., Metcalfe, J., Pate, A., Quayle, V., Spencer, J., Tetlow, S. & Wearmouth, V. (2010). Experimental determination of the response of electromagnetic sensitive fish to electromagnetic fields (EMF) generated by offshore windfarms. EOILA Environmental and Socio-economic issues of offshore wind farms", Universidad Politécnica de Madrid, OCEANA, Spain.
- Gill, A.B. (2010). The potential effects of electromagnetic fields (EMF) emitted by offshore windfarms on electromagnetic sensitive organisms. Effects on the marine environment from offshore wind energy exploitation. NORCOWE Bergen, Norway.
- Gill, A.B. (2009). On understanding the ecological implications of offshore renewable energy developments: a view from Europe. 8th Annual Ronald C. Baird Sea Grant Science Symposium, Rhode Island Sea Grant, USA.
- Gill, A.B., Ellis, J., Gloyne-Phillips, I., Huang, Y., Metcalfe, J., Quayle, V., Spencer, J. & Wearmouth, V. (2008). Determination of the response of electromagnetic sensitive fish to electromagnetic fields (EMF) generated by offshore windfarms: experimental project results. Department for Business, Enterprise & Regulatory Reform (BERR), FLOWW (Fishing Liaison with Offshore Wind and Wet Renewables Group), UK Government.

## Published reports - recent

Normandeau, Exponent, T. Tricas, and A. Gill. (2011). Effects of EMFs from Undersea Power Cables on Elasmobranchs and Other Marine Species. U.S. Dept. of the Interior, Bureau of Ocean Energy Management, Regulation, and Enforcement, Pacific OCS Region, Camarillo, CA. OCS Study BOEMRE 2011-09.

Gill, A.B. & Bartlett, M. (2010). Literature review on the potential effects of electromagnetic fields and subsea noise from marine renewable energy developments on Atlantic salmon, sea trout and European eel. Scottish Natural Heritage Commissioned Report No.401.

Mueller-Blenkle, C., McGregor, P.K., Gill, A.B., Andersson, M.H., Metcalfe, J., Bendall, V., Sigra, P., Wood, D.T. & Thomsen, F. (2010) Effects of Pile-driving Noise on the Behaviour of Marine Fish. COWRIE Ref: Fish 06-08, Technical Report.

Gill, A.B., Huang, Y., Gloyne-Phillips, I., Metcalfe, J., Quayle, V., Spencer, J. & Wearmouth, V. (2009). COWRIE 2.0 Electromagnetic Fields (EMF) Phase 2: EMF-sensitive fish response to EM emissions from sub-sea electricity cables of the type used by the offshore renewable energy industry. COWRIE Ltd (project reference COWRIE-EMF-1-06).

Gill, A.B., Truckell, I. & Mant, J. (2009). North Norfolk Migratory Trout Fishery Habitat Restoration Monitoring Guidance – River Stiffkey. Environment Agency.

Gill, A.B., Truckell, I. & Mant, J. (2008). Pre and Post-project monitoring design for Environment Agency Migratory Trout Fishery Habitat Restoration Work – Plumpton Mill Stream. Environment Agency.

## Project funding - recent

2013 £9k Environment Agency. Quantifying fish movement associated with the River Wissey fish siphon, Norfolk. PI

2013 £35k Cefas. Impacts of piling noise, EMF and tidal energy generators on migratory fish. Co-I

2012/13 £15k Cefas. Maritime Climate Change: Working in Partnership to Improve Evidence and Evaluate Risk. Co-I

2012/13 £26.5k Defra. Payments for Ecosystem services (PES) - pilot research projects Co-I

2012/15 £78k EPSRC/Environment Agency PhD. Using ADCP technology to Develop Indicators for Fish Passage Assessment. Co-supervisor

2012/14 £75K EPSRC/Environment Agency/Milton Keynes Parks Trust PhD. Hydrological and water quality determinants of the success of habitat creation on floodplain forests: case study of the Floodplain Forest Park in the Ouse Valley Park. Co-supervisor

2012/13 £6.7k Seafish. Summary review of the impact of energy sector developments on UK seafood – a fisheries and environmental perspective. PI

2011/13 US\$57-86k Mangroves and coral reefs as effective fish nurseries: the effects of fishing, climate change, and altering coasts. Co-Investigator, Earthwatch Foundation. Co-I

2012/13 £50k NERC Marine Renewable Energy Knowledge Exchange Programme, Uncertainty and risk review. PI

2012 £20k MMO risk based environmental assessment guidance and training. Co-I

2011/12 £10k Water Transfer Baseline Environmental Assessment. Blankney Estate, Lincs, UK. Co-I

2011/13 US\$68k A Geospatial Centre for Biodiversity in Bolivia. JRS Foundation. Co-I

2012 Marine Management Organisation Futures. UK Government Agency. Co-I

2010/12 US\$50k Developing Environmental Protocols and Modeling Tools to Support Ocean Renewable Energy and Stewardship. International collaborator. University of Rhode Island, USA.. PI

2010 £11k Review on the effects of electromagnetic radiation and noise on Atlantic Salmon, Sea Trout and European Eel. Scottish Natural Heritage. PI

2009/10 US\$15.3k Effects of EMF from Transmission Lines on Elasmobranchs and Other Marine Species. Normandeau Associates, USA. PI

2009 US\$45.5k Rhode Island Ocean SAMP - European Fisheries & Offshore Wind Farm

## Research postgraduate students

Expert Advice and Guidance. University of Rhode Island, USA. PI

2008/09 £33.2K Statistical analysis design study to investigate river restoration effectiveness. Environment Agency. Co-I

2008/09 £11k Pre and Post-project monitoring design for Environment Agency Migratory Trout Fishery Habitat Restoration work. Environment Agency. PI

2008/09 £265k COWRIE. Effect of pile driving noise on behaviour of marine fish. Co-I.

2007/08 £38.8k COWRIE 2.0 EMF Stage 2 extension. PI

2006/08 £295.5k COWRIE 2.0 EMF Stage 2. Mesocosm experimental study. PI

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2012-2014 Natalia Perez Linde PhD - Hydrological and water quality determinants of the success of habitat creation on floodplain forests: case study of the Floodplain Forest Park in the Ouse Valley Park. EPSRC/Milton Keynes Parks Trust/EA.

2011-2012 Marybeth Gay MSc by Research - Spatial analysis of elasmobranch fish distribution in relation to Marine Renewable Energy Development (MRED) subsea cable networks. Self funded.

2011-2013 Nicola Roche MSc by Research (p/t) - Towards a conceptual model of the impact zone ecology in rivers. Unilever.

2009-2012 Niko Taktikos PhD - A framework for land and water regime management and site suitability for delivery of multiple simultaneous floodplain ecosystem services. EPSRC/EA.

2005-2008 Joel Kimber PhD - Elasmobranch Electroreceptive Foraging Behaviour: Male-Female Interactions, Choice and Cognitive Ability, FSBI

2005-2007 Rachel Ball MSc by Research (p/t) - Electroreception in Embryos of the Thornback Ray, *Raja clavata*. Blue Planet Aquarium.

2003-2006 Kathryn Hopkins PhD - The potential ecological effects of global warming on the freshwater fish, the three-spined stickleback, *Gasterosteus aculeatus* (L.). NERC

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## Curriculum Vitae: Dr ANDREW HOUGH

**Present Position:** Director, Hough Associates Ltd

**Date of Birth:** 23 March 1964

**Nationality:** British

**Profession:** Marine Biologist; Auditor, Aquatic Living Resources

**Qualifications:** B.Sc. Honours Zoology 1986

PhD. Marine Biology 1990. Crustacean ecology.

Lead Auditor 2000

MSC Risk-Based Framework Auditor

### PROFESSIONAL HISTORY

2011 - present: HOUGH ASSOCIATES LTD. Director, responsible for strategic development and project delivery of company providing fishery auditing, management of fishery impacts on aquatic ecosystems and marine ecology consultancy,

1999 – 2011: MOODY MARINE LTD. Founding Director (full-time from 2003); Lead Auditor, fishery assessments and Chain of Custody assessments. Played a consistent role in the development of MSC programme (including the development of the risk-based assessment framework) and was part of the committee developing the UK Responsible Fishing Scheme.

1998 – 2003: UNIVERSITY OF LIVERPOOL CENTRE FOR MARINE AND COASTAL STUDIES. Director, responsible for strategic development of a University-based centre providing specialist consultancy and analytical services in marine conservation ecology, Environmental Impact Assessment, environmental radioactivity, environmental chemistry. Project delivery in marine conservation ecology and Environmental Impact Assessment.

1991 - 1998: SGS ENVIRONMENT. Dr Hough was responsible for the provision of coastal and marine consultancy services throughout SGS, including Environmental Impact Assessment, marine conservation ecology, marine monitoring.

### KEY EXPERIENCE

Following three years PhD research on crustacean ecology, he has worked in the field of marine research and management for over twenty years, including marine conservation biology, fishery impacts on marine ecosystems, marine and coastal environmental impact assessment and policy development.

Andrew has been active in the development of Marine Stewardship Council certification since 1997, when involved in the pre-assessment of the Thames herring fishery. He was a founding Director of Moody Marine, led the establishment of Moody Marine fishery certification systems and has represented Moody Marine at all MSC workshops. He has also worked with MSC on several specific development projects, including those concerned with the certification of small scale/data deficient fisheries.

He has been Lead Assessor or assessor/team member on many Moody Marine fishery assessments to date. This has included Groundfish (e.g. cod, haddock, pollock, hoki, hake, flatfish), Pelagics (e.g. tuna species, herring, mackerel, sprat, krill, sardine) and shellfish (molluscs and crustacea); included evaluation of the environmental effects of all main gear types and considered many fishery administrations including the North Atlantic, South Atlantic, Pacific, Southern Ocean and in Europe, North America, Australia and New Zealand, Japan, China, Vietnam and Pacific Islands. He has carried out Chain of Custody assessments involving merchants, processors, distributors and retailers.

Andrew has also been involved in the development of certification schemes for individual vessels (Responsible Fishing Scheme) and evaluation of the Marine Aquarium Council standards for trade in ornamental aquarium marine species.