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Project List

- **Bryophyte survey of Leixlip Spa (2011 - ongoing)**
Detailed bryophyte survey of all habitats on site, including Annex I habitats: Alkaline fen, Petrifying springs and Semi-natural dry grassland in addition to aquatic, woodland and urban bryophytes. Undertaken for Kildare County Council to provide input into vegetation management plan.
- **Bryophyte sample identification for National Grassland Survey (2011)**
Microscope identification of bryophyte samples collected from releves in grassland sites in Co. Donegal. Includes bryophytes from Annex habitats: Semi-natural dry grassland and *Molinia* Meadow, in addition to wet grassland and marsh.
- **Bryophyte sample identification for National Survey of Upland Habitats (2010 – 2011)**
Microscope identification of bryophyte (*Sphagnum*) samples collected from releves in upland SAC sites in Co. Mayo. Includes *Sphagnum* samples from Annex habitats: North Atlantic wet heaths, European dry heaths, Blanket bogs, Depressions on peat substrates of the *Rhynchosporion* and Siliceous scree and Alkaline Fen.
- **Research on brackish water charophyte communities, Strangford Lough SAC, Co. Down (2010-2013)**
Research project 'Studying the distribution and composition of charophyte communities in relation to salinity gradients: an investigation in and around Strangford Lough SAC'. (In association with Queen's University Marine Laboratory, Portaferry, Co. Down)
- **Vegetation survey for Irish Semi-natural Grasslands Survey, Co. Dublin and Co. Kildare (2010)**
Detailed botanical survey and mapping of semi-natural grasslands, including condition assessment of Annex I habitats: *Molinia* Meadows, Species-rich *Nardus* grasslands and Semi-natural dry grasslands. (Sub-contracted to BEC consultants)
- **NVC survey and condition assessment of SAC and SSSI meadow grassland, Oxford, UK (2010)**
Mapping of dry and wet grassland NVC communities and Annex II plant species. Condition assessment of units for baseline monitoring in relation to NOx from proposed transport development. (Sub-contracted to ERM)
- **Vegetation survey and habitat evaluation, Co. Dublin (2010)**
Detailed botanical and bryological survey of habitats in the Cherrywood Strategic Development Zone. Habitats surveyed included Oak-birch-holly woodland, Oak-ash-hazel woodland, Dry calcareous and neutral grassland, Calcareous springs and other wetland habitats. (Sub-contracted to Scott Cawley)
- **Vegetation survey for National Survey of Upland Habitats, Co. Mayo (2010)**
Detailed botanical survey and mapping of Annex I upland habitats: North Atlantic wet heaths, European dry heaths, Alpine and Boreal heaths, Species-rich *Nardus* grasslands, Blanket bogs, Depressions on peat substrates of the *Rhynchosporion* and Siliceous scree. (Sub-contracted to BEC consultants)
- **Professional vascular plant training, Derrygonnelly, Northern Ireland (2010)**
Provided a course 'Using keys to identify grasses, sedges and rushes'. Course covered graminoid identification features and use of keys in the classroom and in the field. Attendees included IEEM members, NPWS staff and other environmental professionals.
- **Woodland survey and evaluation, Co. Mayo (2010)**
Survey of selected parkland and native and planted broadleaved woodland sites for Meath County Council: tree and ground flora survey, measurements of tree height and girth and assessment of ecological value. (Sub-contracted to Atkins)
- **Encouraging bryophyte recording: community involvement in a mini-flora of the Wicklow Mountains (2010)** Awarded Heritage Council Grant for this project. Responsible for undertaking detailed

bryological survey of upland vegetation, co-ordinating volunteers, teaching bryophyte identification and recording skills, leading field meetings and liaising with National Parks and Wildlife Service, British Bryological Society and Dublin Naturalist Field Club.

- **Bryophyte identification for EclA of N15 Sligo to County Boundary (2010)**
Microscope identification of bryophyte samples collected during vegetation surveys. (Sub-contracted to Scott Cawley)
- **Bryophyte and vascular plant identification for woodland regeneration research (2010)**
Microscope identification of samples of bryophytes, grasses, sedges, rushes and ferns from experimental plots in cleared conifer plantation. Plots located in Co. Wicklow and Co. Kerry. (Part of FORESTBIO project, Trinity College Dublin)
- **Professional bryophyte training, Derrygonelly (Northern Ireland) and Tralee (2010)**
Provided a bryophyte course 'Introduction to bryophyte identification for habitat survey' in two locations. Course covered bryophyte identification features, bryophytes as habitat indicators and use of bryophyte identification keys. Attendees included IEEM members, NPWS staff and other environmental professionals.
- **Watercourse invasive plant survey for M11 / N25 PPP Scheme Advance Environmental Surveys (2010)**
Survey and mapping of invasive plant species on watercourses prior to commencement of road construction. Species included Himalayan Balsam *Impatiens glandulifera* and Giant-Rhubarb *Gunnera tinctoria*. Report included advice on best practice during construction to prevent species spread. (Sub-contracted to Scott Cawley)
- **EclA of proposed transport development, SAC and SSSI meadow grassland, Oxford, UK (2010)**
Assisted in site survey and evaluation. Provided input into EclA and Public Inquiry in relation to potential air quality impacts from proposed transport development. (Sub-contracted to ERM).
- **Ecological surveys for EclA of N4/ N15 Realignment Sligo to County Boundary (2009)**
Undertook detailed botanical and bryological surveys and habitat mapping for c27km of proposed route. Surveyed and assessed impacts on Annex I habitats: Mediterranean salt meadow, Raised bog, Active blanket bog, Wet heath, Dry heath, Molinia meadow, Floating river vegetation, Alkaline fen and Petrifying springs. (Employed by Scott Cawley)
- **Monitoring of restoration work, Stagrennan Polder (Boyne Estuary SPA), Co. Meath (2009)**
Detailed botanical survey of saltmarsh vegetation, dry meadow and shingle banks. (Employed by Scott Cawley)
- **Ecological survey for Windfarm development, Co. Leitrim (2009)**
Pre-construction habitat survey, including Annex I habitats: Active blanket bog, Wet heath and Alkaline fen. Survey included fen charophytes and bryophytes. (Employed by Scott Cawley)
- **Ecological Impact Assessment for Proposed development, Co. Kilkenny (2009)**
Detailed wetland and aquatic plant survey. Assessment of impacts to Turlough (Annex I priority habitat), (pNHA). Liaised with landscapers and NPWS to ensure landscape management plan suitable for this sensitive site and produced seed mix for meadow grassland creation. (Employed by Scott Cawley)
- **Survey, EclA and AA of N4/ N15 Realignment Sligo to County Boundary (2009)**
Project manager for EclA. Assessed impacts on Annex I habitats: Mediterranean salt meadow, Raised bog, Active blanket bog, Wet heath, Dry heath, Molinia meadow, Floating river vegetation, Alkaline fen and Petrifying springs. Contributed to AA report and Screening report of potential impacts on Bunduff Lough SAC, Cummeen Strand/Drumcliff Bay (Sligo Bay) SAC and Cummeen Strand SPA. Consultation with NPWS and liaison with hydrologists, hydrogeologists and landscapers. (Employed by Scott Cawley)
- **EclA and AA for M11/ N11 Gorey to Enniscorthy Bypass (2009)**
EclA and mitigation of impacts to European Protected sites; Annex I habitats: Alluvial woodland and Floating river vegetation; Produced AA report in relation to River Slaney



SAC and Screening report in relation to Wexford Harbour and Slobs SPA. (Employed by Scott Cawley)

- **Survey and AA, Proposed Windfarm development, Co. Derry (2009)**
Habitat survey of proposed turbine locations and access roads. Included Annex I habitats: Blanket Bog and Wet Heath. Undertook survey of river within Special Area of Conservation (SAC) for aquatic plants and bryophytes. Produced AA report for River Roe and Tributaries SAC and its Annex I habitats (Floating river vegetation and Old oak woodland). (Employed by Scott Cawley)
- **Monitoring of restoration work, Stagrennan Polder (Boyne Estuary SPA), Co. Meath (2009)**
Botanical monitoring of habitat restoration works in relation to saltmarsh vegetation, dry meadow and shingle banks. Produced final report for statutory authority. (Employed by Scott Cawley)
- **Monitoring of Windfarm access track construction, Co. Leitrim (2009)**
Botanical monitoring of Annex I habitat: Alkaline fen during construction. (Employed by Scott Cawley)
- **Pre-construction survey and advice, M1 Service stations, Co. Louth (2009)**
Pre-construction wetland survey: valley mire, wet grassland and swamp. Produced method statement for wetland translocation mitigation and vegetation monitoring plan. Liaised with NPWS and contractors on site to ensure compliance with agreed mitigation measures. (Employed by Scott Cawley)
- **Habitat Management Plan, Power plant, Toomes, Co. Louth (2009)**
Survey of wetland vegetation, including Alkaline fen and wet woodland. Produced management plan for areas to be retained: short term and long term management targets, protection of sensitive habitats during construction and habitat creation. (Employed by Scott Cawley)
- **Ecological survey, Proposed residential development, Lough Arrow SAC, Co. Sligo (2009)**
Baseline habitat survey of site and area of adjacent SAC. Habitats included Hard water lake (Annex I habitat), wet grassland, swamp and wet woodland. Survey provided information for an AA Screening report. (Employed by Scott Cawley)
- **Introduction to aquatic macrophytes - Community project, Dublin (2009)**
Gave talk '*Aquatic plants of the Grand Canal*' to local residents in sheltered housing, Dublin City, as part of 'Percent for Art' Community project. Introduced residents to aquatic plants in nearby section of Grand Canal. (Employed by Scott Cawley)
- **Reviewer for British Bryological Society Field Guide (2008-2009)**
One of a team of volunteers invited to test and review the pre-publication draft of a new BBS publication: '*Mosses and liverworts of Britain and Ireland: A field Guide*' (published 2010).
- **Post development habitat condition monitoring, Trentham Estate, UK (2008)**
Condition assessment and habitat mapping of ancient woodland (SSSI), dry heathland and wetland habitats. Liaised with Natural England and provided habitat management for site managers. Species included the rare plants *Ornithopus perpusillus* and *Cardamine amara*. (Employed by RPS)
- **Wetland survey, National Grid Properties, Isle of Grain, UK (2008)**
Survey and evaluation of ditch, swamp and saline lagoon vegetation in coastal grazing marsh system, including 20km of calcareous and brackish ditches. Used Common Standards Methodology for each habitat type and provided in-house training on aquatic plant identification and survey. Species included the rare plants: *Carex divisa*, *Erigeron acer* and *Hordeum secalinum*; aquatic macrophytes, charophytes and wetland bryophytes. (Employed by RPS)
- **Post development habitat and invasive species monitoring, Trentham Estate, UK (2008)**
Detailed invasive species mapping of *Rhododendron ponticum*, *Impatiens glandulifera*, *Hydrocotyle ranunculoides* and *Fallopia japonica*. (Employed by RPS)
- **Lake condition monitoring for Natural England, Humber Estuary SSSI, UK (2008)**
Mapping of *Azolla filiculoides* and *Elodea* spp. and management recommendations. (Employed by RPS)
- **Green roof habitat creation, retail and residential development, Sheffield, UK (2008)**
Advice on planting design to produce habitat representative of local vegetation. (Employed by RPS)
- **Lake condition monitoring for Natural England, Humber Estuary SSSI, UK (2008)**



Aquatic macrophyte survey, using Common Standards Methodology, on a series of clay pits. Surveys undertaken by boat and wading. Assessed habitat condition, gave management recommendations and provided in-house training on aquatic plant identification and survey. (Employed by RPS)

- **EcIA of stream re-alignment, retail development, Birmingham, UK (2008)**
Botanical survey of stream and adjacent habitats, assessment of impacts and liaison with Environment Agency and client in relation to proposed stream re-alignment and culverting. (Employed by RPS)
- **Advice on management of rare aquatic plants in drainage ditches (2008)**
Production of UKBAP aquatic plant species summaries and management advice pages for publication: Buisson, R.S.K. *et al.* (2008). *The drainage channel biodiversity manual: integrating wildlife and flood risk management*. Association of Drainage Authorities and Natural England. (Employed by RPS)
- **Post construction ditch monitoring, soil recycling facility, Gwent Levels SSSI, UK (2007-2008)**
Annual monitoring of aquatic and emergent ditch vegetation on coastal SSSI site and reporting to statutory agency. (Employed by RPS)
- **Post construction ditch monitoring, soil recycling facility, Gwent Levels SSSI, UK (2007-2008)**
Annual survey and mapping of *Azolla filiculoides* and *Fallopia japonica*. (Employed by RPS)
- **EcIA, Abberton Reservoir (SPA, Ramsar), Essex, UK (2007-2008)**
Input into assessment of impacts on aquatic macrophytes and resultant impacts to wildfowl and habitat creation and restoration plan for EcIA of reservoir enhancement scheme. (Employed by RPS)
- **Air quality impact assessment, Energy from Waste plant, Confidential site, UK (2007-2008)**
Mapped sensitive vegetation types and advised air quality modelling team of critical loads and the impact of potential pollutants upon designated sites (SSSIs) for EcIA. Liaised with relevant statutory agencies (Natural England and Environment Agency). (Employed by RPS)
- **Aquatic plant regeneration and wetland creation, Abberton Reservoir, UK (2007-2008)**
Research experiments into aquatic plant regeneration; review of current scientific literature on macrophyte regeneration; and production of a planting scheme for emergent and marginal vegetation, including surveys to source local seeds and a review of wildfowl food plants. (Employed by RPS)
- **Aquatic macrophyte survey, Abberton Reservoir (SPA, Ramsar), Essex, UK (2007 – ongoing)**
Continuation of yearly survey and monitoring of aquatic macrophytes (snorkel survey) in large reservoir and newly created scrapes. Plants surveyed include the rare plant *Callitriche truncata*, invasive species: *Crassula helmsii*, *Elodea canadensis* and *Elodea nuttallii*; *Potamogeton*, *Ranunculaceae* and charophytes. (Sub-contracted to RPS)
- **Detailed heathland survey, windfarm development, Dorset, UK (2007)**
National Vegetation Classification (NVC) survey of Annex I habitats: Wet and Dry heaths and Transition mire. Impact assessment in relation to turbine location and access tracks. (Employed by RPS)
- **Green roof establishment monitoring, retail and residential development, London, UK (2007)**
Detailed botanical survey and post construction reporting and advice. (Employed by RPS)
- **Calcareous and meadow grassland creation, laboratory facility, Cambridgeshire, UK (2007)**
Produced habitat creation and management plan, including monitoring targets. (Employed by RPS)
- **Invasive species risk assessment for aquatic Natura 2000 site (SAC) (2007)**
Detailed survey and monitoring of aquatic invasive plant species: *Elodea canadensis*, *Elodea nuttallii* and *Crassula helmsii* in Abberton Reservoir SAC, Essex, UK. Produced a non-native aquatic species Risk Assessment for Essex and Suffolk Water. (Employed/ sub-contracted to RPS)
- **Bryophyte mapping for Air quality impact assessment, Energy from Waste plant, Confidential site, UK (2007)**
Mapped sensitive bryophyte communities in Annex I habitats: North Atlantic wet heath and European dry heath. (Employed by RPS)
- **Vegetation monitoring of moorland plots, various sites across Scotland, UK (2006)**
Detailed botanical survey of Annex I habitats: Blanket bog, Wet heath and various montane communities, as part of research into impacts of climate, land-use change and



grazing on vegetation. Sites included Orkney, Mull, Borders, Pentland and Lammermuir Hills and East Sutherland. (Employed by Macaulay Land Use Research Institute)

- **Vegetation monitoring of coastal machair grassland, Western Isles, UK (2005-2006)**
Detailed botanical survey of Annex I priority habitat Machair as part of research into species distributions. (Employed by Macaulay Land Use Research Institute)
- **Vegetation monitoring of upland grassland, Trossachs, UK (2005-2006)**
NVC and detailed point quadrat survey of upland grassland to monitor changes in response to grazing. (Employed by Macaulay Land Use Research Institute)
- **Vegetation survey of calcareous grassland plant communities (2001-2004)**
Detailed botanical survey of calcareous grassland and chalk-heath experimental plots (Annex I habitat 'Semi-natural dry grasslands on calcareous substrates'). Plant species included the rare plants *Filipendula vulgaris*, *Phyteuma orbiculare* and *Stachys officinalis* and a range of orchids and bryophytes. (DPhil research at University of Sussex)
- **Vegetation monitoring of lowland meadow grassland, Sussex, UK (2001-2004)**
Part of team of volunteers involved in annual botanical monitoring of vegetation management experiment of wet and dry Lowland Hay Meadow. (Bedelands Meadow Research project)