

# RJM GROUND SOLUTIONS LIMITED

Value driven geotechnics by design

## JOHN RIGBY-JONES CURRICULUM VITAE

<b>NAME</b>	John Rigby-Jones
<b>ACADEMIC QUALIFICATIONS</b>	<ul style="list-style-type: none"><li>✦ MSc Geotechnical Engineering</li><li>✦ BEng Civil Engineering (1st Class Hons)</li></ul>
<b>PROFESSIONAL QUALIFICATIONS</b>	<ul style="list-style-type: none"><li>✦ Graduate Member, Institution of Civil Engineers</li><li>✦ Member of the British Geotechnical Association</li><li>✦ CSCS Geotechnical Specialist certified</li><li>✦ Certified Driller, British Drilling Association</li><li>✦ Personal Track Safety Certificate</li></ul>
<b>POSITION</b>	Director
<b>DATE OF BIRTH</b>	1971
<b>NATIONALITY</b>	British

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### Overall Experience

John is a Geotechnical Engineer with 17 years geotechnical and commercial experience for a wide variety of projects both in the UK and overseas. He has a solid technical background in soil mechanics which combined with strong communication skills allows him to develop economical solutions in response to specific client requirements. Special areas of expertise include geotechnical hazard assessment and the design of earthworks, retaining structures, piled foundations, reinforced soil and ground improvement schemes. John has particular expertise in the specification and control of grouting schemes and 3D ground modelling. He has carried out fatal accident investigations for the Health & Safety Executive and presented evidence as an expert witness both in court and at arbitration.

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### Detailed Experience

#### **2007 to date**      **Director, RJM Ground Solutions Limited**

##### **Beechburn Quarry, County Durham**

Stability assessment of an existing flood defence for submission to the Environment Agency.

##### **A4106 improvement measures, Port Talbot**

Tender design of soil nail remedial works to stabilise a failing section of highway retaining wall.

##### **Friars Bay promenade rock fall protection, Peacehaven**

Inspection and design of rock fall protection measures to protect shaft construction works being undertaken as part of a new sewerage scheme beneath an 80°, 35m high section of chalk cliff.

##### **North West Kent College, Dartford**

Investigation, design and supervision of preliminary ground treatment works for new college teaching blocks in an area of historical denohole collapse. Including real time assessment of CPT and grouting data using a 3D ground model.

##### **LNW Rock Slope Stabilisation**

Review of geotechnical assessment and design of rockfall protection remedial works for railway cuttings at Stainforth, Birkett & Oxenholme.



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### **Blackbush Drove Embankment EMP 96m 03ch to 96m 09ch**

Form A design of cess support to a railway embankment founded on peat using a king post wall system. Development of a monitoring strategy in accordance with the Network Rail Observational Approach.

### **Ramsey Road Embankment EMP 95m 32ch to 95m 35ch**

Form A design of cess support to a railway embankment founded on peat using a king post wall system. Development of a monitoring strategy in accordance with the Network Rail Observational Approach.

### **Tillicoultry flood defence scheme, Scotland**

Interpretation of ground conditions and design of flood embankment including finite element seepage and stability analysis.

### **Wood Cottage, Delamere**

Site inspection and design of remedial works to stabilise a failing wall and rock slope behind a private house

### **Tipton Station Platform Reconstruction RBS2 8m 0352yds**

Site inspection including hand excavated pitting and hand augering for a platform extension scheme. Temporary earthworks design including piling platform design to BR470, slope stability analyses and Form C preparation.

### **Oakenshaw Beck, Wakefield**

Geotechnical assessment for a proposed flood defence scheme. Included desk study, design, specification and procurement of a GI and interpretive reporting.

### **Millom Site Access CBC1 44m 23c**

Geotechnical assessment for new road rail access point to a railway embankment in estuarine silt. Works included a hand auger investigation and provision of foundation advice.

### **LNW 2010-11 GRIP Stage 2 sea defences**

Review of single option reporting for five sea defence sites in North Wales and West Cumbria.

### **Blakeston Lane, Stockton-on-Tees**

Detailed design of geogrid reinforced steep soil slopes to a new housing development access road. Including site inspection, design calculations and construction drawing production.

### **Stanground Bypass, Peterborough**

Detailed design of soil nail reinforcement to a new highway cutting for BAM Ritchies. Including site inspection, SEAF production, construction drawing production and construction supervision.

### **Belgrave Yard, London**

Finite element analysis (FEA) assessment of the effects of basement construction within a congested central London development site on adjacent sensitive structures.

### **M60 J27, Stockport**

Detailed design of soil nail reinforcement to a failing highway embankment slope for Aone+ the HA Area 10 maintenance contractor. Including provision of all documentation required by HD22/08.

### **Dilton Marsh Station, Wiltshire**

Stability assessment of an existing failing railway embankment including proposal of suitable remedial measures for options reporting.



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### **Wandsworth Retaining Wall**

Stability assessment of an existing failing railway embankment including proposal of suitable remedial measures for options reporting.

### **Dartford Creek, Dartford**

Design of stabilisation measures for a failed section of EA flood defence in East London. The selected solution utilised reconstruction of the embankment with suitable fill combined with toe weighting and erosion protection through the provision of a brushwood mattress.

### **Stubbing Brink, Hebden Bridge**

Geotechnical assessment of unstable cutting slopes to the Halifax to Rochdale railway line including slope inspections, GI design and supervision, interpretation and advice on suitable stabilisation measures.

### **Dockray Hall Estate, Kendal**

Phase 1 geotechnical, contamination and gas risk assessment reporting for a proposed commercial unit development.

### **Arqiva Mast, Aylesbury**

Design of a foundation stabilisation solution for an existing telecommunications mast. Services provided included desk study research, ground investigation specification and supervision, interpretation, design, construction drawing production and construction support. Design utilised GEO5 pile software and PIGLET pile group analysis. Reinforced concrete design was carried out using Reinforced Concrete Council spreadsheets with hand calculation checks. Drawings were produced in Autosketch in .DWG format. The final solution utilised the existing mast foundation with the addition of micro piles and a new pile cap.

### **Luton Multi Storey Car Park**

Design and specification of earthworks to support temporary piling platforms. Slope stability assessment was carried out following a review of the available information which indicated the site to be underlain at shallow depth by Grade C/D low density chalk. Stability assessment was carried out using GEO5 slope software. Earthworks specification was based upon the HA SHW.

### **Rose Whittle Over Bridge**

Design support to highways maintenance contractor AOne+ in the assessment of the stability existing motorway bridge abutments to impact loads where it crosses the west coast main line. Calculations were carried out by hand, spreadsheet and using the GEO5 pile software.

### **Blea Moor rock slope stabilisation, Ribbleshead**

Desk study, investigation and design of rock slope stabilisation measures for a deep railway cutting at the eastern portal of Blea Moor tunnel, Ribbleshead. The stabilisation measures provided included rock bolting, scaling and the application of passive face netting in conjunction with the provision of a new crest drain and improvements to the existing cess drain. Site attendance was provided to determine the location of spot bolts, the extent of scaling and to supervise pull out testing of rock bolts.

### **Yewbarrow depot, Grange-over-Sands**

Desk study based geotechnical assessment for the redevelopment of an existing council depot premises including recommendations for further investigation and assessment of soil contamination.

### **Thorncliffe Park, Chapeltown, Sheffield**

Desk study, investigation, design and construction supervision for a new dam to provide increased attenuation to storm flows along the Blackburn Brook. The site has a history of extensive mining activity and investigations included deep rotary boreholes to investigate the presence of shallow mineworkings.



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### ***Southborough Embankment TTH 31m 51c to 55c Dn, Tunbridge Wells***

Desk study, investigation design, investigation supervision, interpretation and design recommendations for the stabilisation of slope failures to a railway embankment. The site is underlain by soliflucted Wadhurst Clay and required careful sampling and description to allow the scope of the stabilisation solution to be determined.

### ***Leigh Embankment XTD 28m 4c to 5c Dn, Hildenborough***

Desk study, investigation design, investigation supervision, interpretation and design recommendations for the stabilisation of slope failures to a railway embankment.

### ***Stocks Mill garage, Kendal***

Desk study based geotechnical assessment for the extension of existing garage premises including recommendations for further investigation and assessment of soil contamination.

### ***Briars Lane chalk mine stabilisation, Hatfield***

Technical site support for a £2.6M chalk mine infilling scheme. Site based support to develop an effective grouting methodology for the problematic ground conditions encountered. Office based development of a 3D graphical data management tool utilising Rockworks Rockware software. Weekly updating of the 3D model to include the latest grouting and verification probing data. Attendance at weekly site meetings to solve technical problems, present the latest ground model and discuss the scope of any additional works required.

### ***Broken Brae flood defences, Richmond***

Geotechnical assessment of existing flood defences in support of a planning application for a new ecological holiday park development. Services provided included a walk over survey, design, specification, procurement and supervision of an intrusive ground investigation. Subsequent stability analysis of the flood defences under 100 year flood conditions and recommendations for remedial measures and emergency planning.

### ***Scaleford Carehome, Lancaster***

Production of a Phase 1 Assessment report in accordance with NHBC guidance in support of the planning application for the development of an existing Carehome in Lancaster. The site was located immediately adjacent to the former Lancaster town gas works and the tidal River Lune.

### ***Boon Town, Burton in Kendal***

Design, specification, procurement and supervision of an intrusive investigation for a new housing development. Works focused on the potential use of soakaways at the site through in situ infiltration testing in both boreholes and trial pits.

### ***Settle to Carlisle earthworks, North Yorkshire***

Detailed design of cress support and slope stabilisation measures for 4 railway embankments on the Settle to Carlisle Line. Solutions included both cantilevered and anchored kingpost walls in conjunction with slope regrading and installation of drainage measures.

### ***Mottram to Tintwistle Bypass***

Foundation analysis and design for a series of new road bridges to gain AIP approval. Structure forms included fully integral single span bridges with high level bank seats, a simply supported highly skewed structure and a 195m 3 span viaduct founded on large diameter rock socketed piles.

### ***2004 to 2007 Associate Geotechnical Engineer, White Young Green Environmental***

### ***Rabigh LNG Tanks***

Piled foundation design of a new LNG storage facility located in Saudi Arabia. Design activities included ground model interpretation, axial and lateral pile capacity assessment, FEA modeling of soil structure interaction using PLAXIS and ground improvement advice.



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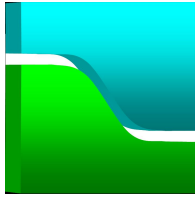
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### ***Kingsway Business Park, Geotechnical Design***

Design of earthworks, land drainage and ground improvement for a 165Ha business park. Additional ground investigation was designed and procured in order to allow economical design of plot specific development.

### ***Hoppers Wood, Durham***

Expert witness advice relating to construction difficulties encountered during tunneling for a new sewer in support of arbitration defence.

### ***Eastgate, Hexham***

Expert advice regarding the acceptability of a poorly constructed contiguous pile retaining wall prior to possible litigation.

### ***A1 Morpeth to Felton Dualling***

Site investigation, earthworks and foundation design for an £89M pound widening scheme of the A1 north of Newcastle.

### ***Dragon LNG Tanks***

Piled foundation design for a new LNG storage facility located in South Wales. Design activities included ground model interpretation, axial and lateral pile capacity assessment and FEA modeling of soil structure interaction.

### ***Waverley Mineshaft Treatment***

Design, procurement, supervision and validation of a mineshaft treatment for UK Coal.

### ***Kingsway Business Park, Site Investigation***

Design, management and supervision of a £300K ground investigation at the site of a proposed Business Park. Following completion of the site works interpretative reporting was carried out including the provision of an earthworks specification in line with Highways Agency requirements.

### ***M62 J36 Slip Road Improvements, Goole***

Investigation interpretation and design of a new retaining wall to allow slip road widening on the M62. Design and reporting was carried out in accordance with Highways Agency procedures.

### ***Braes of Doune Wind Farm, Stirlingshire***

Tender design for a proposed new wind farm in challenging ground conditions including extensive areas of peat. Alternative excavation and ground treatment strategies for turbine foundation bases were explored along with assessment of local borrow pit material acceptability.

### ***Project ISIS, Rutherford Appleton Laboratory***

Design, management and supervision of specialist large diameter plate loading tests upon the Chalk. The results of the testing were interpreted to provide input ground stiffnesses to a finite element foundation model allowing accurate prediction of soil structure interaction.

### ***East Midlands Distribution Centre, Castle Donington***

Ground investigation of a former Power Station site including the use of direct and indirect geophysical techniques.

### ***Coulston Embankment Renewal***

Design and supervision of varied geotechnical aspects of a remedial repair scheme to a distressed railway embankment.

### ***1997 – 2003 Senior Geotechnical Engineer, Atkins Consultants***

### ***Fatal Accident Investigation, Broughty Ferry, Scotland***

Technical investigator for the British Government Health and Safety Executive into a trench failure that occurred during the construction of deep pipeworks. Reporting included the collation of



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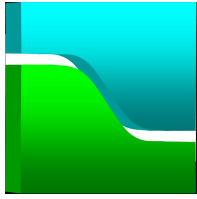
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witness statements, interpretation of site investigation data, assessment of likely failure mechanisms and expert opinion on foreseeability and appropriateness of method of working,

### ***AGT Pipelines Project, Georgia***

Design, management and supervision of specialist ground investigations in the Northern Samtskhe – Javakheti region of Georgia between Borjomi and Akhaltsikhe. The investigations were focussed on the hazard assessment of landslide complexes to the construction of a new oil pipeline. Work was carried out both in country and back in the UK. Detailed interpretative reporting was carried out back in conjunction with Professor Peter Fookes.

### ***Thurrock Marshes Relief Road, Essex***

Provision of design services to a Design and Build Contractor carrying out construction of a strategic new road. A range of engineering solutions were utilised including, reinforced soil slopes, piled foundations, the use of lightweight (polystyrene) fill and surcharging with the use of wick drains.

### ***Fatal Accident Investigation, Damside Open Cast Coal Site, Shotts, Scotland***

Technical investigator for the British Government Health and Safety Executive into a fatal accident that occurred during filling operations at an open cast coal site. Reporting included the interpretation of ground conditions, assessment of likely failure mechanisms and expert opinion on foreseeability and appropriateness of method of working,

### ***Belvoir Park, Northern Ireland***

Specialist geotechnical advice for a landslide which threatened to damage a large diameter foul water sewer.

### ***A20 Aycliffe Roundabout, Dover, Kent***

Investigation, design and supervision of remedial engineering works to a landslide above a railway line.

### ***Ballymena Waste Water Treatment Works, Northern Ireland***

Provision of technical advice relating to the scoping, procurement and supervision of a ground investigation at the site of a proposed Waste Water Treatment Works.

### ***A2/M2 Widening, Kent***

Design of a wide range of structures including reinforced earth slopes using both soil nails and geogrid; bored and driven piled foundations to bridge abutments, contiguous piled and crib retaining walls and shallow spread foundations. In addition geotechnical advice was provided during construction and included the design of remedial works included grouting of fissured chalk and the use of geotextile reinforcement to bridge dissolution features.

### ***Silvertown riverwall, London***

Structural inspection and emergency works recommendations for a failing section of riverwall comprising both timber king post and sheet pile construction.

### ***M1 Motorway Temporary Widening, Northern Ireland***

Investigation and design of temporary earthworks to allow traffic management measures for motorway widening works.

### ***AREA 4 Term Consultancy***

Earthworks inspection, investigation and geotechnical design along the Area 4 Motorway and Trunk Road network in the South East of England.

### ***Larne Waste Water Treatment Works, Northern Ireland***

Technical advice relating to the scoping, procurement and supervision of a ground investigation at the site of a proposed large Waste Water Treatment Works.



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### **Cherry Hinton Caravan Park, Cambridge**

Inspection and logging of an unstable rock slope face.

### **Birmingham Northern Relief Road**

Checking of preliminary foundation and strengthened earthworks designs for a number of structures.

### **Omagh Waste Water Treatment Works, Northern Ireland**

Technical advice relating to the scoping, procurement and supervision of a ground investigation at the site of a proposed Waste Water Treatment Works.

### **A11 Rouldham Heath to Attleborough, Norfolk**

Tender design of earthworks and foundations for a road upgrade scheme including a 90m long approach embankment on soft alluvial clay and peat supported on vibro concrete columns, a geogrid reinforced load transfer platform and assessment of required pumping rates from deep excavations using seepage analysis.

### **Southampton Industrial Park, M27 Junction 5 Upgrade**

Desk study and ground investigation design for a highway upgrade scheme including widening of existing embankments.

### **Proof house Junction Remodelling Works, Birmingham**

Desk study, ground investigation and geotechnical design for a permanent way re-modelling scheme including construction of two underbridges.

### **Bole Roundabout, Nottinghamshire**

Design, specification and procurement of a ground investigation for a highways upgrade scheme.

### **Claycross Rail Cutting Emergency Works, Derbyshire**

Deskstudy, ground investigation design and site supervision of remedial works to a large slope failure in a 20m deep rail cutting.

### **Colchester Northern Approach Road, Essex**

Scoping of costs and preparation of a specification for the ground investigation of a new highway scheme.

### **Broxtowe Country Park, Nottingham**

Review and checking of a specification for a landfill gas remediation scheme comprising of a 200m long 8m deep bentonite slurry wall with integral gas membrane.

### **Lenham Embankment**

Analysis of a slope failure in a railway embankment including design and costing of remedial solutions.

### **A12 Hatfield Peverel, Essex**

Desk study for a proposed highway upgrade scheme including scoping of ground investigation requirements.

### **Ifford Farm, Lewes, East Sussex**

Walk over survey and geotechnical report for a proposed A road widening scheme involving steepening an existing embankment in the Middle and Lower Chalk.

### **Grays Embankment, Essex**

Desk study, ground investigation and remedial design for a section of a failed slope adjacent to a suburban street. The design solution involved the construction of a contiguous pile wall from a site with limited working area and constrained by a large number of services.



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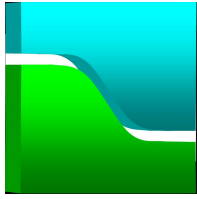
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### ***Blackwall Area E.M.S. Investigations***

Ground investigation of and interpretative report writing (including pile design) for 28 sites around south-east London as part of a highways improvement scheme.

### ***Bloors Wharf, Kent***

Production of contract documents and specifications for a remediation contract.

### ***Imperial Wharf, Fulham***

Production of contract documents and specifications for a £3million demolition and remediation contract, including geotechnical investigations and environmental monitoring. Also site supervision of ground investigation and remediation earthworks and design of slurry wall barrier system.

### ***Millennium Site, Greenwich***

Design of a range of structures including retaining walls and piled foundations. Also production of contract documents, specifications, Health and Safety Plans and COSHH assessments.

### ***Heathrow T5 Link Environmental Monitoring***

Supervision of the construction of 10 water sampling wells for long term environmental monitoring purposes.

### ***Strood Riverside Development, Kent***

Remediation design, sheet pile wall design and preparation of specifications and contract documents for a waterfront development.

### ***Isle of Grain, Kent***

Design, supervision and reporting of a geotechnical and environmental investigation for a proposed gas fired power station.

### ***East Kent Collieries***

Geotechnical and environmental desk study of site suitability for redevelopment.

### ***1996 – 1997 Engineer, Hyder Consulting Limited***

### ***Landfill Remediation, Penarth, S. Wales***

Experience as a site chemist assessing the degree of contamination during the excavation of a 1960's landfill tip containing asbestos, medical waste, heavy metals and Japanese Knotweed

### ***Cethlin Water Main, Pembrokeshire, S. Wales***

Design and supervision of a site investigation for a new water main along an existing A road. The works included an element of traffic management.

### ***Cardiff East s.t.w. S. Wales***

Foundation design of a large new Sewage Treatment Works.

### ***Newport Sewerage Scheme, S. Wales***

Design of a near shore and river investigation for a new sewerage tunnel.

### ***Lampeter s.t.w., S. Wales***

Design and supervision of a site investigation for an extension to an existing sewage treatment works.

### ***Middleton Botanical Gardens, S. Wales***

Site investigation design, supervision and subsequent geotechnical design.

### ***Dow Corning, Cwmbran, S.Wales***

Site investigation design and supervision.



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**1992 – 1995 University of Surrey**

### **Research Assistant – Solution Features In Chalk (Karst)**

Employed as a non-academic member of staff responsible for the technical and contractual management of a three year government funded research contract valued at £95K. The objective of the research project was to investigate the available techniques for locating solution features in the Chalk and produce an improved investigation methodology. The project focused on the use of geophysical techniques in conjunction with desk studies to maximise the effectiveness of any direct investigation.

The work carried out involved the employment and supervision of sub-contractors together with the purchasing of number of pieces of equipment following University procedures. Fieldwork carried out included walk over surveys, dynamic probing, trial pitting and deep trenching using a proprietary shoring system, and extensive geophysical surveys employing a wide range of geophysical techniques. Office based studies included stereo air photograph interpretation, literature searches and numerical modelling using finite element modelling techniques.

### **Drilling Foreman (B.D.A. certified)**

Responsible for carrying out solid stem auger and double tube rotary core drilling using a truck-mounted bottom-drive drilling rig in support of University research projects. This work involved arranging training and certification from the British Drilling Association, completion of a site safety course and qualification as a First Aider at Work.

### **UK Health & Safety Executive – Tunnel Linings, Terminal 4, Heathrow**

External technical consultant to the Health and Safety Executive. Work included the provision of geophysical surveys to shotcrete tunnel linings at Heathrow Terminal 4.

### **Other Roles at the University of Surrey**

Tutored on leadership courses run for external companies. These two day courses comprised lectures, workshops and field exercises aimed at teaching action centred leadership skills.

Lectured to MSc students studying Geotechnical Engineering; tutored and supervised laboratory classes for undergraduate students in a range of Civil Engineering subjects.

Assisted PhD students in their research and laboratory experiments.

Studied part-time upon the MSc course in Geotechnical Engineering (awarded 1996).

**1990-1991 Taylor Woodrow**

### **Nuclear Design Associates, Knutsford, Cheshire**

Reinforced concrete design and checking for Sizewell B Nuclear Power Station.

### **Docklands Light Railway, Becton Extension, London**

Supervision of site works including construction of large concrete structures, CFA Piling, contaminated ground excavation, installation of deep level drainage and ground improvement through surcharging.

**1989 Alfred McAlpine**

### **Police Headquarters, Wilmslow, Cheshire**

Site engineer.

### **Other Relevant Experience**

John has undertaken extensive independent travel throughout Europe, Asia, South America and Africa. This has included planning and undertaking a year long road trip in 1998 from Europe to South Africa in a Landrover. The trip involved travelling through remote areas of Eastern Africa where it is necessary to be totally self-sufficient. Challenges overcome included mechanical



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breakdowns, deep river crossings, unsafe bridges requiring repair prior to crossing, becoming stuck in mudholes and serious illness of members of the party.

### **Publications and presentations**

O'Donovan, A., Milne, C.A., Rigby-Jones, J. (2009) Briar's Lane mine stabilisation – new approaches to chalk mine treatment. Ground Engineering, IN PRESS

O'Donovan, A., Milne, C.A., Rigby-Jones, J. (2009) Briar's Lane, Hatfield – a holistic approach to chalk mine treatment. Joint presentation to IMMM/BTS, ICE London, 19-02-09

Corbett, S.P., Rigby-Jones, J., Naylor, M.P., Patterson, D. (2001) The use of Geosynthetic reinforcement in the A2/M2 Motorway Widening., 7<sup>th</sup> International Conference on Geosynthetics, Nice.

Matthews MC, Clayton CRI, Rigby-Jones J (1999). Locating dissolution features in chalk. Quarterly Journal of Engineering Geology.

Rigby-Jones J (1995). The location of dissolution features in the Chalk. M.Sc. dissertation, University of Surrey, 411pp.

Rigby-Jones J, Matthews MC, McDowell PW (1994). Electrical resistivity imaging systems for ground investigations, with particular reference to dissolution features in chalk areas. 30<sup>th</sup> annual conference of the Engineering Group of the Geological Society on Modern Geophysics in Engineering Geology, University of Liege, Belgium.

Rigby-Jones J, Clayton CRI, Matthews MC (1993). Dissolution Features in the Chalk: From hazard to risk. ICE Conference on Risk and Reliability in Ground Engineering, Institution of Civil Engineers, London.

Rigby-Jones J (1992). The use of remote measurement systems in the monitoring of landslides. B.Eng. dissertation, University of Leeds, 161pp.



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