

 BRITISH
DRILLING
ASSOCIATION

**GSHPA**
GROUND SOURCE HEAT PUMP ASSOCIATION



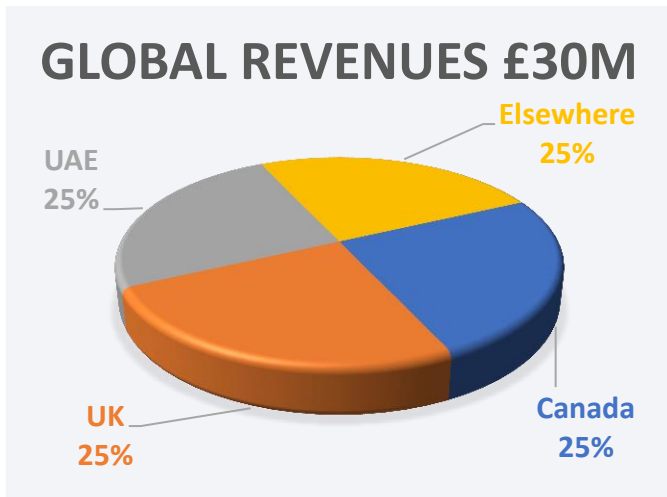
‘Drilling into the detail – Raising standards in the quality of ground source boreholes.’

Richard Fielden

35 Years in the Geo-technical Industry

Managing Director of WJ Groundwater Group
International Dewatering & Well-drilling
Contractor



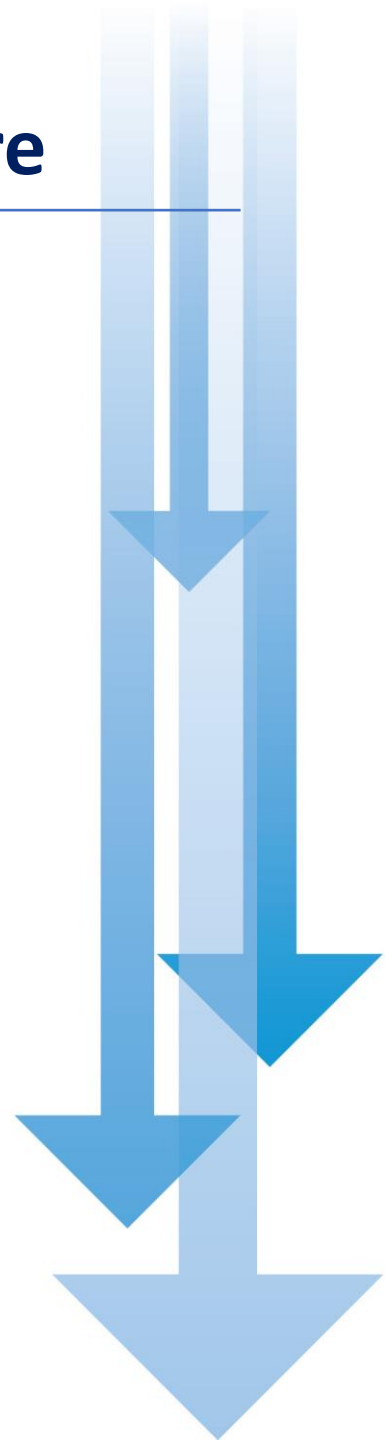


3000 Projects → More than 100,000 wells drilled

Including → Major UK geo-thermal wells for **BURO HAPPOLD** and **ARUP**

Projects

- 1 Hyde Park
- Wimbledon tennis stadia
- MOSI, Manchester



Mission

'Raising standards in health & safety and quality in the drilling industry'

Established

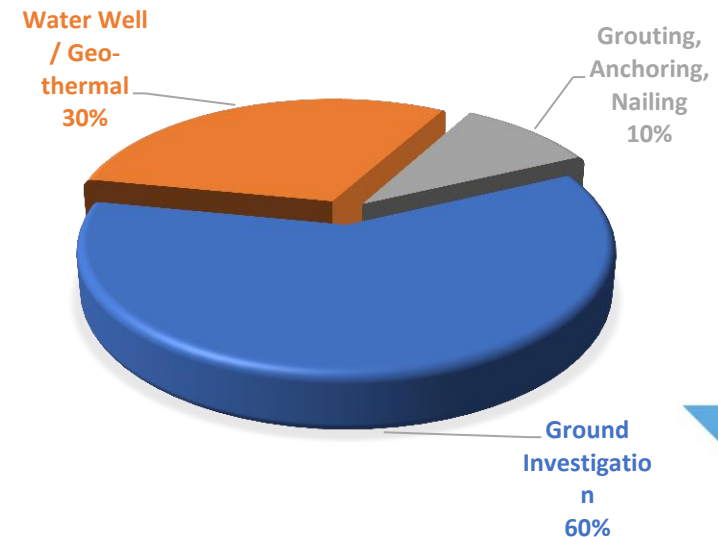
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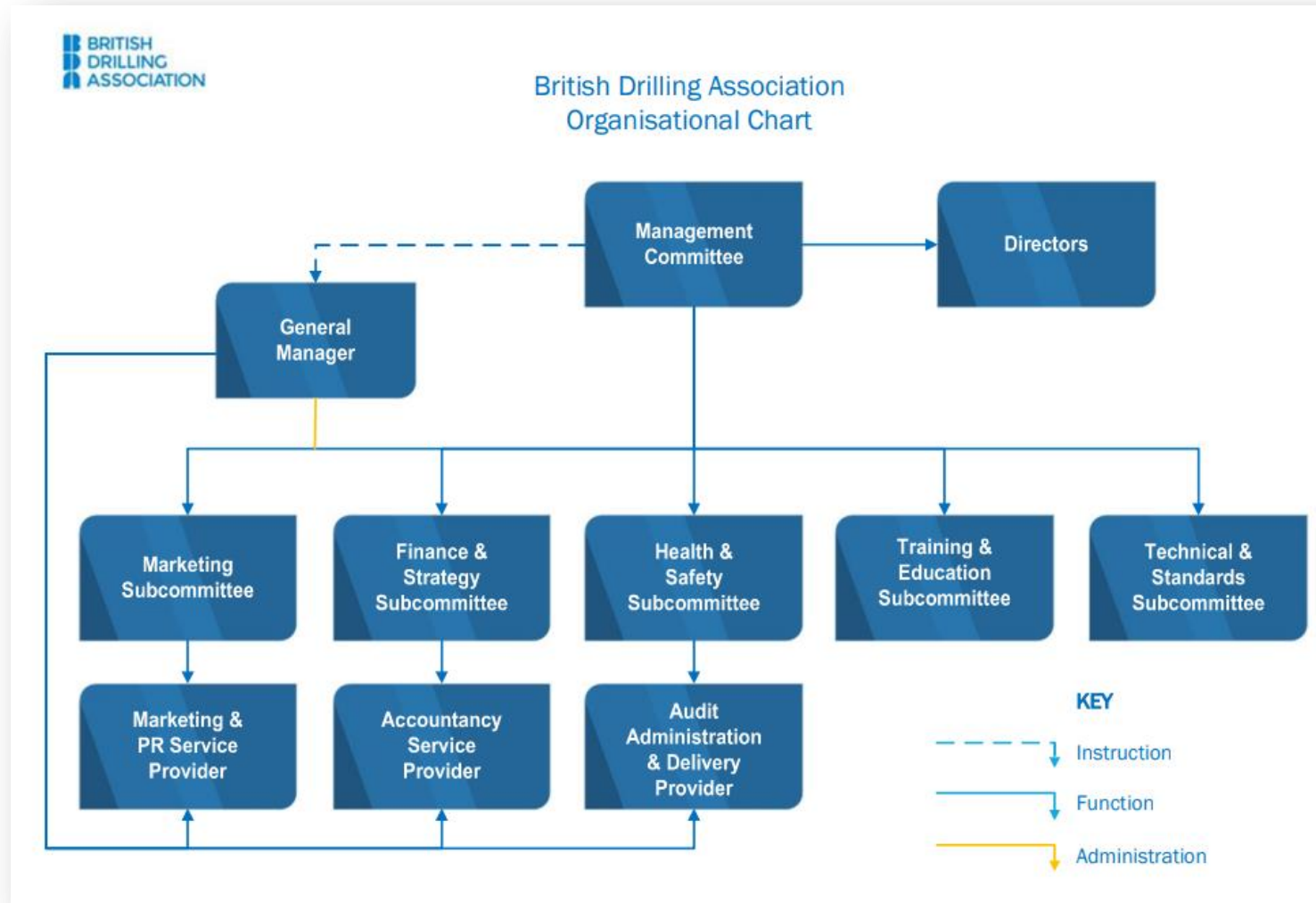
135 Members

120 Contracting Members

**Member companies employ more than
600 drillers
(Approximately 60% of all drillers)**

BDA MEMBERS BY SERVICE



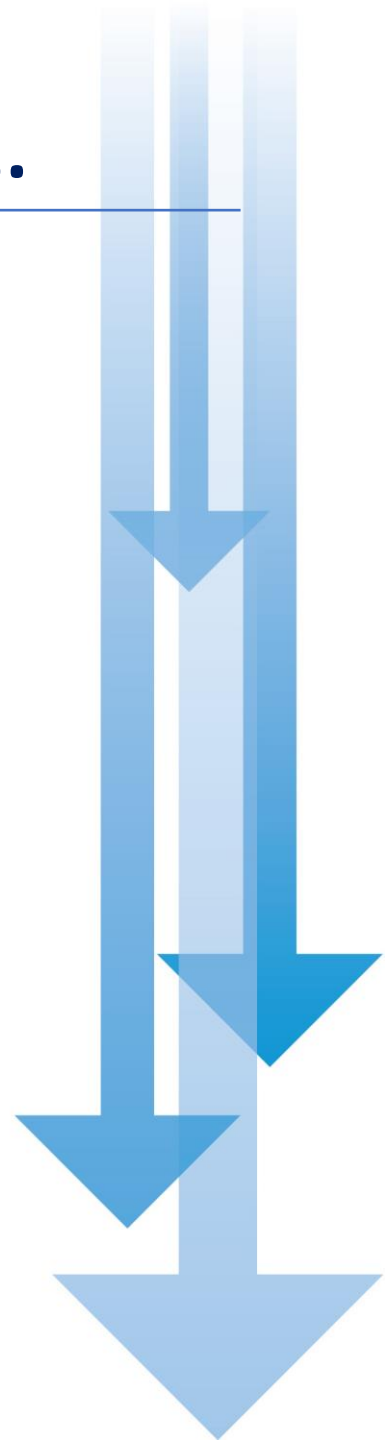


We represent our members at the following organisations:

- Ground Forum
- Ground Source Heat Pump Association
- Ground Engineering/Geo-Drilling Magazines
- BSI and European Committees (B526/3; B513/3; BS EN ISO 22475 parts 1 to 3)
- Site Investigation Steering Group.



We also have strong links and liaise regularly with the HSE, CSCS, CITB, MPQC, HS2, Highways Agencies and we are liaising across the sector with AGS and FPS.



How we represent our members.....

Numerous Health and Safety publications for the benefit of our members and wider industry.

Creation, and ongoing review, of qualifications for drilling and geotechnical staff

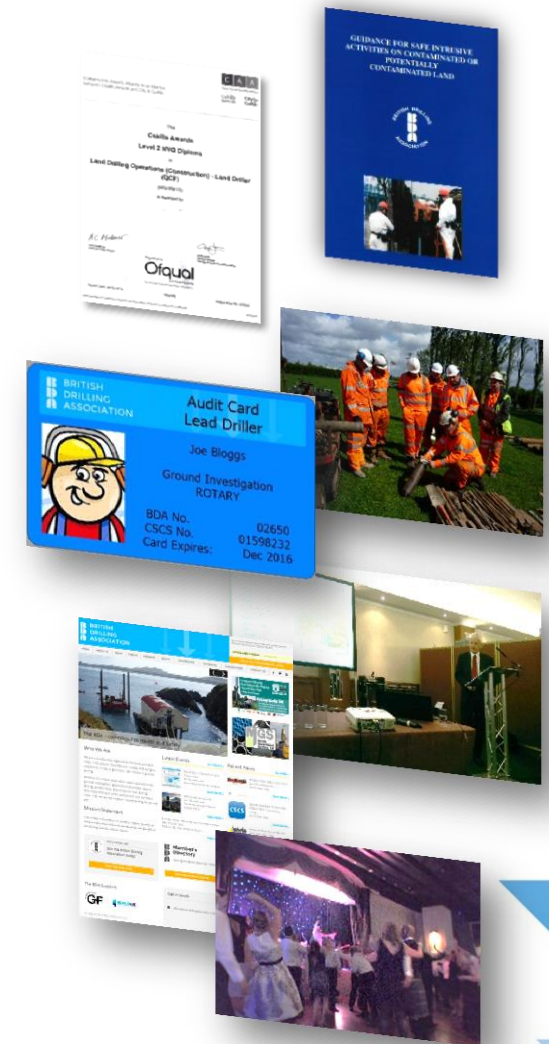
Introduction of the Land Drilling Apprenticeship scheme to train our future drillers.

Introduction of the Audit scheme to ensure the industry could comply with BS EN 22475-2 & 3

Technical seminar programs (certificates for CPD verification are available).

A dynamic and interactive website.

Social and networking events.



BDA Audit – Is Your Driller Competent?

Old Accreditation replaced by BDA Audit in 2005

Ensures compliance with Eurocode (BS EN 22475-2) & ICE UK Specification for Ground Investigation

Combines 3 essential elements:

- Nationally recognised safety card (CSCS)
- National Skill Qualification (NVQ L2)
- Industry verified & audited regularly (BDA)

BDA Auditors - NVQ Assessor qualified

Individual Audit every 12 months to assess personnel and equipment

Recently updated to include electronic data capture and processing

Details of audited staff are published on our website

Accredited by MPQC



Ask for the Audit card.

It's your proof to satisfy CDM that drilling contractors have a competent workforce!

What Are We Working On?

NVQ – Land Drilling

- NOS (National Occupational Standards) reviewed
- Level 2 Award rewritten – now live through MP Awards
 - New Level 3 being developed

NVQ for Geotechnical Operatives

Working on a non-drilling NVQ for Geotechnical Operatives so they can get CSCS cards

BDA Audit

- Re-launched July 2020
- New digital format
- MPQC accreditation

Presentations to Consultants

Series 30 lunchtime presentations - specification standards and the BDA's role esp. Audit

Land Drilling

Apprenticeship

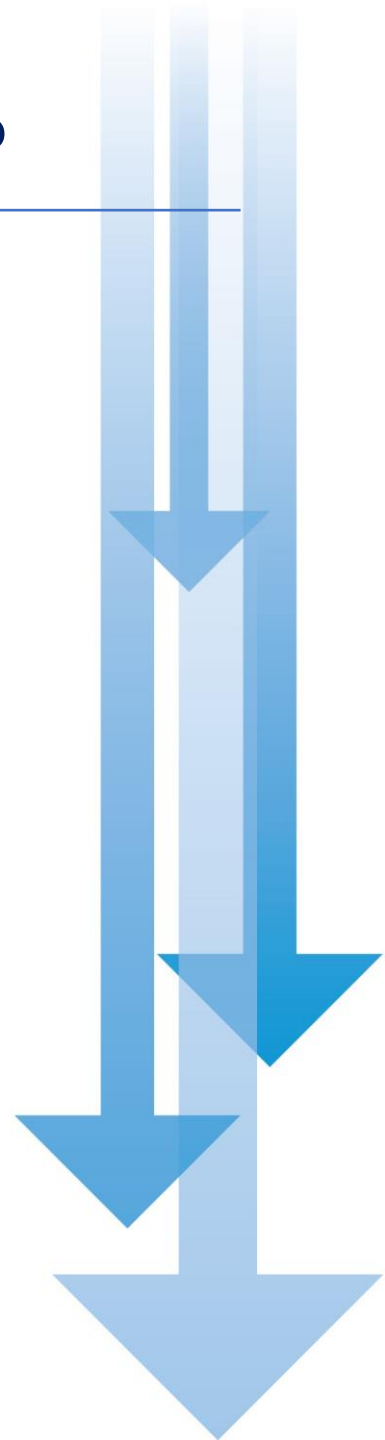
Recruiting now for 2022

Seminars

- 2018/19 Future of the Geotechnical Industry
- 2020 – 21 Monthly webinars

Publications

- CP rig manual rewritten Aug 2016
- H & S manual fully reviewed 2015
- Intrusive activities on Contaminated Land guidance (with SISG) – early 2019
 - Rotary guidance - 2019
 - Others to be reviewed



BDA Audit – what’s involved?

In the last 12 months the BDA Audit has been thoroughly overhauled and the most significant changes introduced since its inception:

- TRAINING
- DELIVERY
- EVALUATION



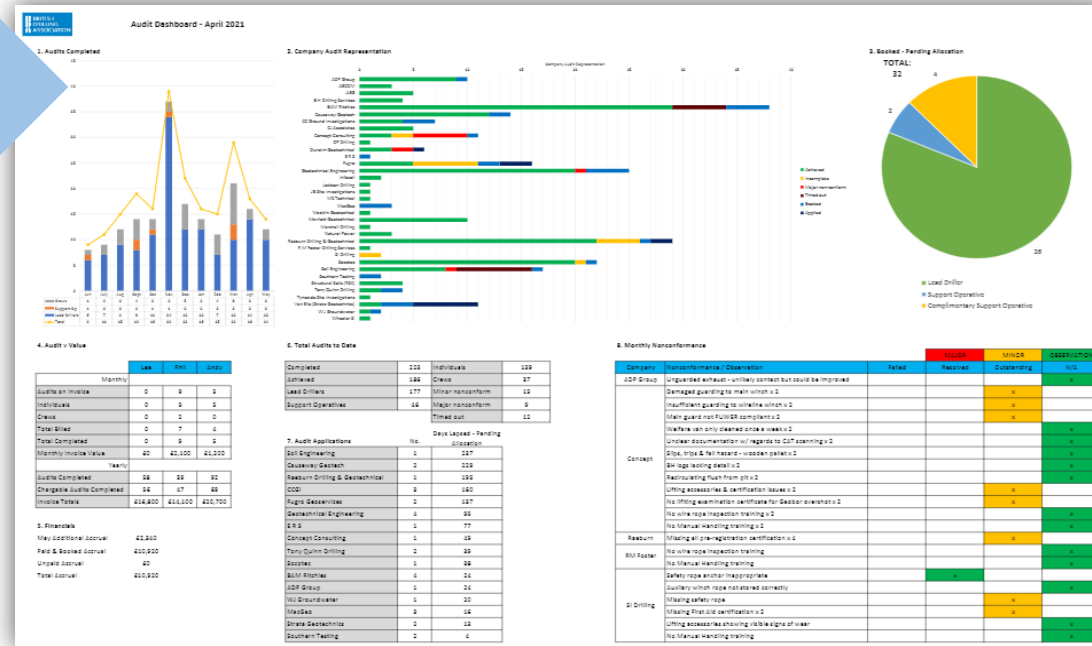
- Contract for delivery awarded to EQUIPE Training Limited



- Delivery performance reported through monthly dashboard.

- Audit content bought into line with legislation and industry standards

- BS EN 16228; PUWER 1998
- BS 22475 -2:2011
- ICE YELLOW BOOK
- CDM Regulations 2015
- LOLER Regulations 1998

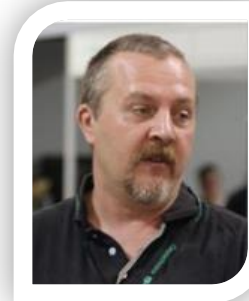




Jon Christie

- Audit content reviewed and approved by BDA H&S and T&S Sub Committee

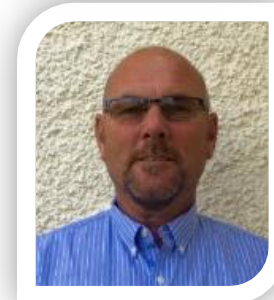
- Auditors coached and mentored to achieve consistency and transparency



**Andrew
Frogley**



**Philip
Dainton**



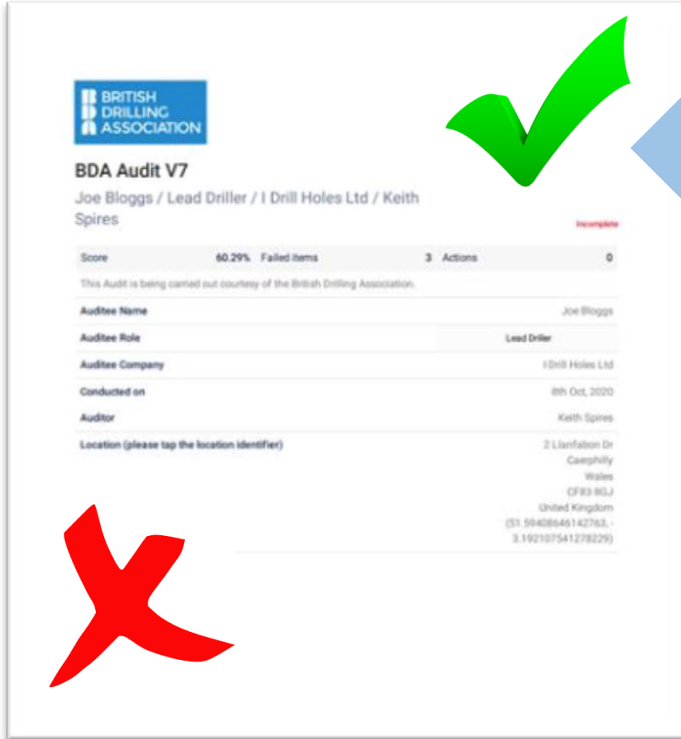
**Charlie
Allardyce**



- 100% of Audits internally verified



BDA Audit – efficiently delivered



- Audit reports issued promptly and timely with feedback

- Electronic Audit Card issued



- Audit Accredited and externally audited by MPQC



Audit for Geothermal / Water Well

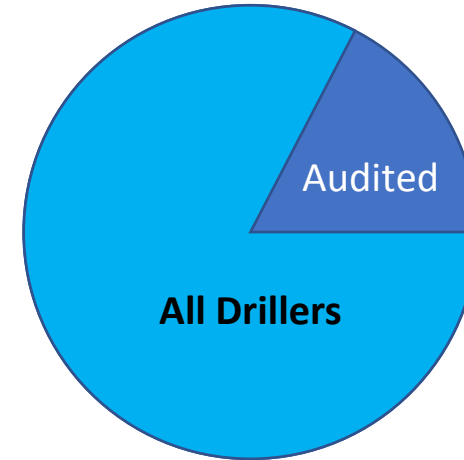
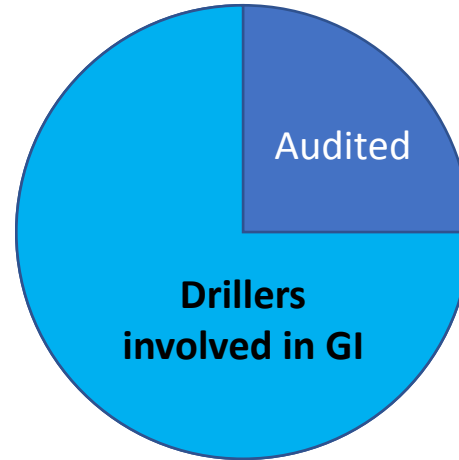


Audit designed around GI to meet requirement for annual audit for competence in accordance with BS22475 & Yellow Book

90% of Audit content is highly relevant to any drilling operation – water wells, geothermal, drilling and grouting. Objective to introduce Endorsements for these disciplines by Q1 2022

Non GI Audits = 10% of all audits

In the last 12 months c190 Lead Drillers have been audited which is an uplift from c140 in the year 2019 – 20.



However, these still only represent approximately 1/3 of drillers involved in GI and 1/5 of all drillers.



Only 53% of all drillers employed by participating companies are audited

Putting its mission statement into action

- The BDA is committed to improving standards in Health & Safety, Quality & Technical Proficiency in the drilling industry.



How can the BDA fulfil its mission statement?

1

The BDA believes that an annual audit helps demonstrate competence, meet legal obligations and ensure compliance with industry standards

2

From the start of 2023 it is proposed that to qualify for membership of the BDA a company must achieve minimum 60% compliance of Lead Drillers having an in date Audit and demonstrate commitment to aim for 100% compliance.

3

Companies who do not achieve this level of compliance will have Membership revoked



Why should GSHPA adopt BDA Audit as an industry standard?



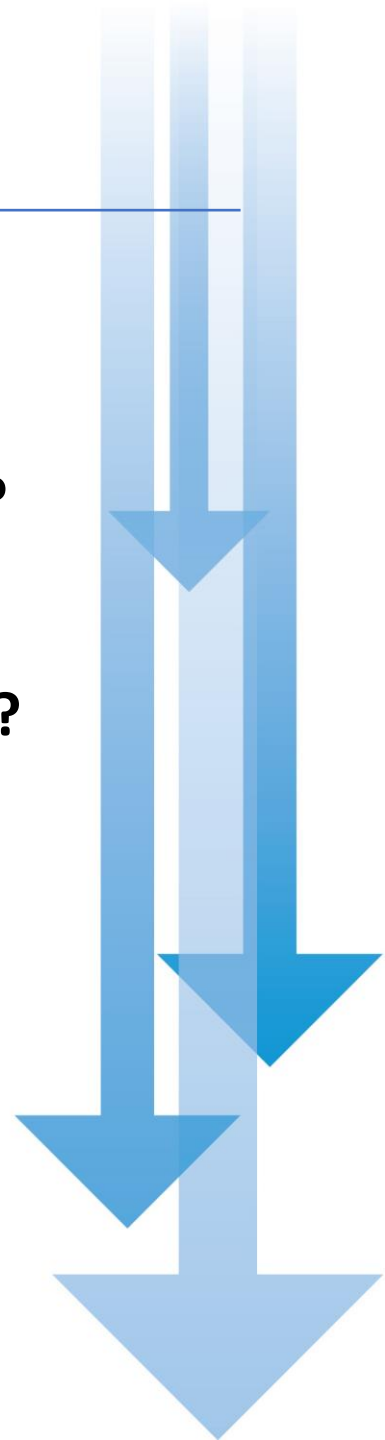
How do you select a driller? Is drilling co company quality management system or self certification really evidence of driller competence? Would you accept an electrician without qualification?



Would a BDA Audit of the business (similar to FPS audit tri annual scheme) offer the same focused attention on operative competence?



Are there other robust, independent, externally accredited, industry recognised schemes?



Membership of the BDA means more than a pre-qualification tick box



Audit is evidence of your businesses commitment to raise standards in quality and health & safety and compliance with fundamental legislation.

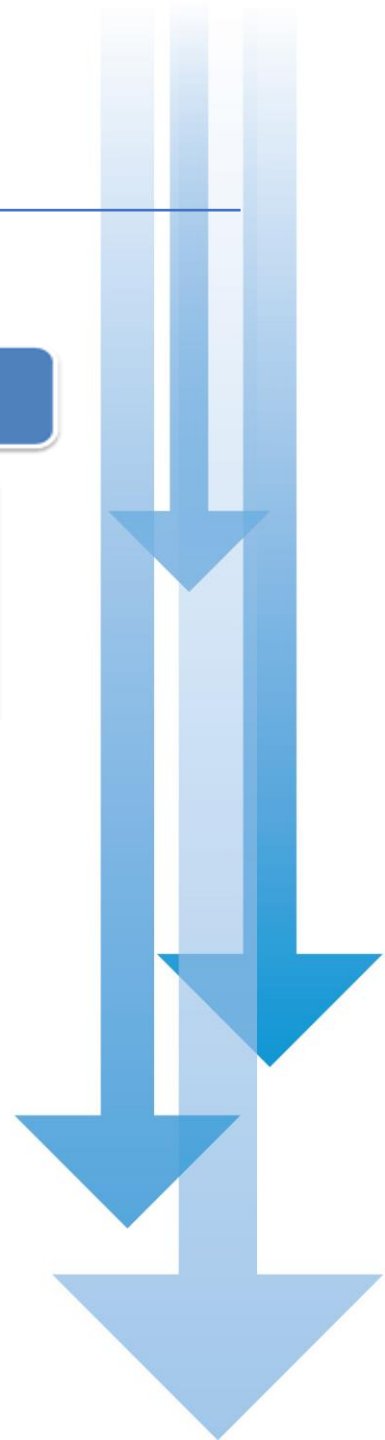
Audit is evidence of your business commitment to train, mentor, engage with and increase the knowledge and skills of your operatives

Audit is great value for money – cost of employment for a Lead Driller incl. salary, NI, travel, subsistence, van, PPE, training, phone etc equivalent to £80 – 100k per year.

Audit cost = 0.5% of cost of employment



Audit is evidence of operative competence – competent staff prevents accidents and non conformance – improved business performance



Targets and Objectives for the Audit

