

**ACE DRILLING SERVICES****RISK ASSESSMENT FOR DRILLING THREE HOLES AT GROVE ROAD WORSBOROUGH TO 30 METRES.**

SITE: Proposed Dwellings at Grove Road Worsborough South Yorkshire S70 4SN

DATE: 16<sup>th</sup> October 2018

<b>Hazard Identification</b>	<b>People at risk</b>	<b>Risk</b>	<b>Control measure</b>	<b>Residual risk</b>	
Plant and Workforce access	Workforce	medium	Report to site reception and seek H&S officer. Use designated access roads, plan routes, wear high visibility clothing, follow site speed limits, limit pedestrian access to drill site. Carry out "Take Five" assessment of the site and surroundings and move vehicles off the road.	Low	
Overhead services danger of bodily harm	workforce	high	Pre-check locations, visually check service locations for overhead services. Maintain 15m clearance from OH power line, lower mast when mobile in and around the site.	Low	
Underground services, machines coming into contact/electrocution	Workforce	high	Pre-check borehole locations, report concerns re gradient and discuss with mining engineer. Client to provide service plans where available. CAT/GENNY scan each location. Dig inspection pit to 1.2m at each location.	Low	
Soft ground rig becoming unstable	Workforce	Medium	Assess site visually, use suitable access routes. Discuss with engineer the site geology, keep off marshy ground and plan routes. Ensure ground is stable before erecting mast and placing the rig on blocks, walk on the side of the rig when travelling as site is on a gradient from north to south.	Medium	
Sloping/steep ground, rig overturning, tipping, sliding	workforce	low	Ensure safe gradient i.e set on slope and check ground conditions, assess machine stability on mudstone and past housing areas. Maintain safe, tidy work area. Wooden timbers to be used to level drilling rig before mast erection. Safety boots, glasses and PPE to be worn by operatives at all times whilst on site. Site is level at 70 metres aod.	low	

Contaminated land. Operators health affected by toxic exposure	workforce	High	Request soil information from client or engineer, provide method statement, COSHH assessment, wear gloves when handling soil even if inert, seek advice on soils and processes. No contaminative use on the site other than vehicles. Former housing site so do not expect harmful conditions.	Low	
Unloading of plant/materials. Materials falling, contact with plant	workforce	medium	Ensure stable ground conditions, use designated areas. Persons are to be competent in site investigation of coal seam workings, use a banksman and no unauthorised persons to be in unloading areas. Large site to unload equipment off Grove Road.	Low	
Rotary drilling activities. Mechanical failure, entanglement, hand injuries, use of compressed air	workforce	medium	Machines to be in good working order with all examination certificates. Guards to be in place, daily safety checklist to be completed. Certified crew with clean working area. If safety critical defects are identified, then the equipment must not be used until repaired. Contact head office for fitter to attend the rig.	low	
Removal of borehole material. Illegal tipping	Workforce	Low	Backfill and cap boreholes with borehole spoil. Other drilling waste to be sampled by client's engineer or geologist and bagged. Excess drill chippings to be disposed of at designated area for later removal by client if non-inert. Borehole to be sealed with bentonite at 1 metre from the surface.	Low	
Manual handling, sprain or strain injury	workforce	medium	Avoid manual handling if possible, identify any risk from site visit. Manage the site to ensure equipment is within manageable distance to enable safe transfer. Where possible share the workload, and don't overstretch your physical abilities.	low	
Substances hazardous to health, Health hazard due to exposure to substances on site- oil, fuel.	workforce	high	COSHH assessment, comply with regulations and precautions. Fuel to be kept in appropriate containers. Spill mat/tray to be used when refuelling. Review site data from HS&E officer and geologist /mining engineer acting for the client and assess toxicity of samples and groundwater on skin and eyes. Wear PPE gloves and safety glasses when drilling.	low	
Welfare facilities. Inadequate facilities- health risk	workforce	high	Client to provide welfare facilities. Use local facilities if appropriate.	low	
First aid. Lack of treatment leading to infection/health	Workforce	High	Rig to hold first aid kit. Crew member trained in first aid. Emergency procedure available. Obtain contact details of first responder at client site and nearest hospital. Nearest ambulance, fire brigade at Barnsley. Barnsley	Low	

problems			General Hospital A&E is nearest circa 2.5 miles.		
Personal protective equipment. Inadequate PPE exposure to noise, dust.	workforce	high	Hard hat, safety boots, gloves, ear defenders and eye protection provided. High visibility clothing and dust masks provided. Identify high noise/dust areas and minimise exposure to dust/noise through management of drill rig and sampling techniques. No dust due to air mist or water flush used in drilling for old mine workings or coal.	low	
Weill's disease	workforce	medium	Wear PPE, adequate welfare facilities and first aid supplies. Crew to be briefed on symptoms.	low	
Workers unfamiliar with site. Area specific hazards	workforce	medium	Controlled access to site, attend inductions provided by client H&S officer. Be aware of plant and vehicles. Do not access unauthorised buildings or areas. Cone out the working area.	low	
Working adjacent to 3 <sup>rd</sup> party heavy plant. Traffic accidents, injury to crew and damage to equipment	workforce	medium	Wear high visibility clothing, crew to be alert and briefed. Designated vehicle and pedestrian routes on site .Use access routes. Adhere to site speed limits and position the rig facing heavy plant. Borehole drilling area to be taped off and all unauthorised personnel to be >5 metres away from the zone area.	low	