Health and safety risk assessment for bat surveys at underground sites



Underground Section

This risk assessment identifies the hazards associated with underground bat survey visits, assesses the severity and likelihood of those hazards occurring, and identifies appropriate, reasonable control measures. It applies to all visits and all members of the Underground Section that attend underground visits to mines, caves, tunnels and associated structures.

Whilst each site has its own characteristics, this risk assessment applies to all sites visited by Gloucestershire Bat Group Underground Section. If in doubt about any aspect of the health and safety relating to a site or a particular visit, always seek further advice initially from your Visit Leader before proceeding with the survey. The bat group or the Bat Conservation Trust can provide further guidance. Please remember that as a volunteer you are under no obligation to take part in underground surveys. You should not put yourself or others in danger.

If the revised risk rating remains high (16+), then the visit must not proceed (see matrix on page 3).

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Hazard	Severity	Likelihood	Risk rating	Prevention / control measure	Revised likelihood	Revised risk rating		
1. Weather/climate conditions								
Becoming ill, cold or wet – risk of exposure or hypothermia	4	3	12	Members will ensure they don't undertake visits unless they are suitably fit and well for the conditions. Wear warm, protective clothes, bring emergency rations and a change of clothing for after the visit; use waterproof bag.	1	4		
2. Caves/mines/tunnels – general hazards								
Getting lost	3	3	9	Visit Leader will be familiar with the layout/conditions of the site. Sites will not be entered alone (minimum group size: 4 people). Always remain within sight and shouting distance of each other. Always tell someone who can raise alarm if necessary where you're going and what to do if you're not back by a specified time.	1	3		
Injury rendering an individual unable to exit site	4	2	8	Ensure at least 4 people are in group: 1 to remain with injured person, 2 others to summon help. All Underground Section members know to call 999 and ask for Cave Rescue in the event of emergency.	1	4		
Being struck by falling rock	4	2	8	Wear hard hat; avoid dislodging loose stone or other materials. Members will not use routes with heights/drops sufficient to cause significant rock fall.	1	4		
Roof collapse	5	2	10	Expert advice should be sought on the stability of sites; do not enter unstable structures.	1	5		
Colliding with rock / hard objects	3	4	12	Wear hard hat, kneepads etc.	2	6		
Getting stuck	3	2	6	Avoid going into tight spaces and be aware of your capabilities – never work alone.	1	3		
	3. Water hazards							
Rapidly rising water levels – risk of drowning	4	1	4	Visit Leader will be familiar with the layout/conditions of the site - GBG will not enter sites/parts of sites with water hazards.	1	4		
Falling into water – risk of drowning	4	1	4	GBG will not survey sites / parts of sites with water hazards.	1	4		

4. Fall hazards						
Falls from				Expert advice should be sought on the stability of sites;		
height from	4	2	8	do not enter unstable structures	1	4
collapse of floor						
Falls from				At least one member of the survey team (Visit Leader) must		
height from	4	3	12	be familiar with the layout of the site. Wear grippy footwear to	1	4
openings in				avoid slips. GBG will not visit sites with significant / deep		
floor				openings in floor.		
Falls and	3	3	9	Wear appropriate, grippy footwear, bring a good head torch.	2	6
slips/trips				7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
Cuts/grazes	2	4	8	Wear strong gloves, knee pads; Visit Leader brings first aid kit.	2	4
J				g		
5. Environmenta	ıl haz	zards	3			
Hazardous				Expert advice should be sought on the safety of sites;		
gases, lack of	4	2	8	do not enter sites where such hazards may occur. GBG will	1	4
oxygen				not visit sites with a history of such hazard.		
Industrial waste,				Be wary of such hazards; avoid areas which have been used		
eg. dumped	4	2	8	as dumps; if you come into contact with waste materials, wash	1	4
chemical drums	1	-		hands thoroughly; seek medical advice if illness follows		
				working near waste materials. GBG will not visit sites with a		
	1			history of such hazard.		
Explosions from	1			Expert advice should be sought on the safety of sites;		
ignition of	5	2	10	do not enter sites where such hazards may occur. GBG will	1	5
flammable	5	_	10	not visit sites with a history of such hazard.	'	3
				THE VIOLENIES WILL A HISTOLY OF SUCH HAZAIU.		
gases 6. Biohazards						
		T		No ana will handle a bet unless they are fully received		
Contracting	1		0	No-one will handle a bat unless they are fully vaccinated	,	4
European Bat	4	2	8	against rabies. Anyone handling a bat will wear suitably thick	1	4
Lyssavirus				gloves where practicable and appropriate. If bitten, wash bite		
(EBLV) from a				area as soon as practicable and cover with suitable dressing		
bat bite.				and seek medical advice.		
Weil's disease				GBG will not visit sites with likelihood of immersion in water.		
(Leptospirosis)	4	2	8	Avoid immersion of open cuts in water and avoid ingestion.	1	4
a particular				Ensure cuts and scratches are covered with waterproof		
threat near				plasters or micropore tape and any new injuries are thoroughly		
water.				treated. Seek medical advice if illness follows work near water		
				especially if injured or following immersion in water. Wash		
				hands before eating or touching mucous membranes (mouth,		
				nose etc).		
Tetanus	[Ensure tetanus vaccination is up-to-date. Ensure cuts and		
infection	4	2	8	scratches are covered with waterproof plasters or micropore	1	4
				tape and any new injuries are thoroughly treated		
7. Equipment						
Accidents				GBG will not use specialist equipment (e.g. ropes, rope		
caused by lack	4	4	16	ladders) unless members have appropriate training/experience	1	4
of training /				and insurance.		
experience						
using specialist						
equipment						
Accidents				Ladders will be visually inspected for faults (cracks, fatigue		
caused by faulty	4	3	12	etc) prior to each use. Ladders will be sufficiently long and	1	4
or incorrect use				positioned at an angle of 1:4 and securely footed at all times.		
of ladders (for				No over reaching and no sideways force.		
tunnel access).				and the state of t		
Torch/headlamp	4	3	12	Bring spare batteries and spare torch. Minimum group of four.	1	4
failing	-	3	12	Tell group if your torch fails.	'	7
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Battery leaking	3	2	6	Use modern torch batteries. Take care that old batteries	1	3
Dattery leaking	٦	_	O		'	3
				cannot cause injury or damage to belongings if they leak.		
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8. Other factors (human factors)						
Risk to/from other people in area	2	2	4	Be wary of other activities in and around the site, eg. biking. Access gates, lids etc. should be closed on entry and again on exit to leave the area safe for others.	1	2
Risk of attack (e.g. if caves / mines have any public access then drug users, vandals etc may be present)	2	2	4	Do not work alone. Ensure good reporting system and carry a mobile phone (NB. mobile phones are of limited use due to difficulty of getting signal within remote areas, and of no use while actually underground. Consider using 2-way radios).	1	2

У	Negligible	1	1	2	3	4	5
i	Low	2	2	4	6	8	10
e	Moderate	3	3	6	9	12	15
S e v	Significant	4	4	8	12		
	Catastrophic	5	5	10	15		

During each underground surveying season (usually January to March inclusive), this risk assessment will be reviewed (annually) to ensure that it is suitable and sufficient for the activities being undertaken. A review will also be carried out following an incident or change in relevant guidance. This will be done by comparing the written details with the actual practices. Have we missed a step, hazard, reasonable control measure? Does anything need amending? The revision date, including the person/s undertaking it will be recorded within the version control table below.

VERSION CONTROL	
Prepared / revised by	H. Brookes
Issue	Version 2
Revision/check date	05-12-15