

USSL Risk Assessment

Risk Assessment No		7		Activity		Directional Drilling - Impact Moiling Activities		Locations		Site Works		
Assessment Undertaken by		M. Watson		Assessment Date		Jun-17		Review Date		1/6/18		
Risk Ratings												
Persons at risk (PAR)		Severity / Harm Rating (S)				Likelihood (L)						
E	Employees / Contractors	1	Negligible injury or no injury				1	Extremely unlikely to occur at any time				
P	Members of Public	2	Minor injury requiring First Aid				2	A rare combination of factors would be required for an incident to occur				
V	Visitors	3	Lost time injury				3	Could happen, but considered unlikely under normal circumstances				
C	Clients	4	Single serious injury or single death				4	Not certain, but an additional factor may result in an incident				
		5	Multiple deaths and or serious injuries				5	Almost inevitable that an incident will result - Highly likely to occur				
Tolerance rating												
15 - 25		DANGER - Task/activity should not proceed. Further control measures are to be put in place to reduce risk. When in place the level of risk should be re-assessed for adequacy before the work recommences.										
7 - 14		SIGNIFICANT RISK is attached to this task/activity. Look critically at ways of reducing the level of risk to a more tolerable level by improving existing control measures or by introducing new controls.										
1 - 6		TOLERABLE RISK - Consider if risk is "as low as reasonably practicable", If not try to reduce risk further by improving control measures. Keep under review and continue with task/activity, but with caution										
NB. Full PPE will be utilised as a matter of course during any works undertaken												
Initial Assessment No controls						Risk Mitigation Measures						
Item No	Hazard Identification	PAR	S	L	Score	Control Measures	S	L	Revised Score	Risk Acceptable		
1	Pedestrians & vehicles	E,P,V,C	3	4	12	Operatives to wear high-visibility clothing and hard hats. Signing and guarding to comply with Chapter 8 and Method Statement and Risk Assessment 06 'Signing and Guarding'. Use lookouts / banksmen to ensure that vehicles and the public are kept away from the working area Where an excavation is 2 metres deep or more, substantial guard rails must be provided to prevent falls into the excavation, e.g. Heras fencing. Where there is a risk of children gaining access to a deep excavation ensure that the excavation is either backfilled, guarded with Heras fencing or securely covered.	3	2	6	Yes		
2	Underground Services	E	4	4	16	Read and implement the controls in Method Statement and Risk Assessment 01 'Avoiding Danger from Underground Services' Ensure that the drill does not operate within 500mm of underground services. Monitor position, depth and angle of drill heads with the use of the Digi Track Eclipse locating device in order to prevent contact with underground services. Only trained and experienced operatives may carry out tracking of the drill head.	4	2	8	Yes		
3	Noise	E	3	4	12	Ensure equipment has been maintained in line with manufacturers recommendations Ensure the correct cutting blade / disk is utilised for the materials being cut Any canopies / Mufflers must be closed when the equipment is in operation Operatives must wear suitable ear protection	3	2	6	Yes		
4	Deep Excavations	E,P,V,C	4	4	16	Read Method Statement and Risk Assessment 03 "Shoring of Excavation" Excavations deemed deep will require Confined Space control measures (See Separate Risk Assessment 15 "Confined Spaces"). All excavations of 1.2 metres or deeper must be shored. If working in poor ground conditions it may be required to shore excavations shallower than 1.2m. The excavation must be securely guarded with scaffold guarding or crowd control barriers Ensure safe access and egress is maintained via ladders that are footed and secured at the top. Prior to the commencement of any work a risk assessment must be carried out in relation to each excavation If poor ground conditions are experienced then appropriate shoring must be installed. Ensure that a continuous atmospheric monitoring takes place and the results recorded. Inspection of the excavation must take place, in accordance with the inspection schedule. All excavated areas must be protected with a suitable barrier. Safe digging practices must be observed. Works to be Supervised at all times Spoil from the excavation must be stored away from the edge of the excavated area	4	1	4	Yes		
5	Manual Handling	E	3	5	15	Manual handling to be reduced as much as possible Keep any carrying distances to a minimum Heavy equipment must be assessed before lifting. Two operatives or mechanical means must be used if the equipment is assessed as too heavy for one operative	3	2	6	Yes		
6	Untrained/inexperienced operators	E,P,V,C	4	5	20	• Only trained and experienced operators may operate the directional drilling machine • Works area to be clearly defined and guarded	4	1	4	Yes		
7	Moving Equipment / Shafts / Entrapment	E,P	4	5	20	Ensure fixed Guards are in place All loos and poorly fitting clothing are removed Long Hair is tied back or placed under Hair net or hat Ensure equipment is suitably barriered off Ensure Distance Guarding is in place	4	1	4	Yes		
8	Hand / Arm Vibration	E	3	4	12	Operatives are advised not to grip controls too tightly. Operatives must keep their hands and arms warm i.e. wear gloves and suitable clothing to maintain blood supply to the hands, fingers and arms. Periodically rotate the use of the floor saw with other operatives by carrying out other operations. Ensure guidance on Vibration assessments is followed.	3	2	6	Yes		