

Consequence	5	10	15	20	25
	4	8	12	16	20
	3	6	9	12	15
	2	4	6	8	10
	1	2	3	4	5
Likelihood					

- Unacceptable – Stop activity
- Adequate – Monitor for continual compliance
- Acceptable – No further action / monitor

Risk Assessment:	032 Ground works
Assessors Name:	Gabriela Balint
Signature:	<i>Gabriela Balint</i>
Date:	January 2022
Review:	January 2023

Location:

Likelihood	1 = Very unlikely	2 = Unlikely	3 = Fairly likely	4 = Likely	5 = Very likely
Consequence	1 = Insignificant	2 = Minor	3 = Moderate	4 = Major	5 = Catastrophic

Hazard	Who can be harmed & how	Risk Rating			Control measures in place	Residual Risk		
		L	C	R		L	C	R
Movement of any item using manual handling.	Person undertaking the task. Serious musculoskeletal injury including hernias, back injuries and sprains etc.	5	4	20	All persons are trained in manual handling and follow training and instruction given. Personnel are instructed to use mechanical assistance wherever practically possible. Loads are broken down as far as is reasonably practicable and team lifting employed where necessary. Where larger loads are involved, a specific manual handling assessment will be required. Use of suitable gloves for loads involved.	2	4	8
Slips, trips and falls	Persons undertaking the task. Serious injury potential increasing due to MH activity.	4	4	16	Routes and areas are checked for obstructions and availability of space or other hazards i.e. muddy conditions, wet floor, spillages, uneven or slippery surfaces and cables / pipes etc. prior to use. Personnel aware of additional hazards that may lead to STF on the same level i.e. inadequate lighting, weather conditions, changes in surface etc. Good housekeeping standards are maintained and inspected at all times.	2	4	8

Contact with underground services i.e. gas / electric pipes or cables.	Persons using or in close proximity to excavator, potential to strike underground services resulting in fire or explosion. Serious injury potential / fatality	3	5	15	Personnel to undertake scanning of ground prior to breaking ground with rescanning at depths not exceeding 300mm. Personnel to consult plans as well as obvious pointers to underground services. Personnel to be conversant with HSG47 Avoiding danger from underground services (HSE)	2	5	10
Struck by machinery / plant	Persons using or in close proximity to excavator, potential to be struck by plant & or parts. Serious injury potential / fatality	3	5	15	Personnel who operate machinery are competent and have been trained in the type of plant in use. Checking of audio / visual warning devices at regular intervals. Use of banksman when manoeuvring plant. Safety signage surrounding machine with segregation from others not involved in the task. Safety / exclusion zone created in slewing area. Speed limits in place at site location	2	5	10
Excavator tipping / overturning	Persons undertaking the task and others who may be affected. Serious injury potential / fatality through crush / trauma etc	3	5	15	Identification of ground conditions pre use, awareness that ground conditions may change during the course of the task. Only persons who have had the necessary information, instruction and training in the type of plant used are permitted to operate Banksman in place when operating near excavations, use of stop blocks.	1	5	5

Refuelling of plant	Personnel involved in the task, potential for fire, explosion, burns, and skin irritation	3	5	15	Refuelling points planned or use of mobile refuelling facility. Personnel undertaking the refuelling are trained and deemed competent to undertake the task in a safe manner. Fire controls in place e.g. no smoking zone and fire extinguishers in place with signage. COSHH assessment available for fuel PPE in place and the use enforced.	2	5	10
Excavation subsidence	Persons undertaking task. Serious injury potential, possible fatalities through suffocation / multiple injuries	3	5	15	Competent person to inspect excavations daily and record the findings. Checks to include nearby structures that may be affected by undermining. Suitable precautions in place to prevent collapse i.e. shuttering or sloping etc.	2	5	10
Offloading of lorries	Persons undertaking task. Serious injury potential through Failure of load	3	4	12	Loading/ Off- loading of material/ plant only in designated areas. All equipment used in loading/ off-loading operations to be subject to regular inspection and maintenance including legislative requirements. Use of plant and equipment to have SWL clearly visible.	2	4	8
Lifting operations	Persons undertaking task. Serious injury potential through Failure of load	4	4	16	Strops and shackles etc. to be strong and stable enough for intended use. SWL to be clearly marked on all lifting equipment and accessories. Checking of such equipment pre- use and on a regular basis to be recorded. Continual monitoring.	2	4	8

Hazard	Who can be harmed & how	Risk Rating			Control measures in place	Residual Risk		
		L	C	R		L	C	R
Slips, trips and falls	Persons undertaking or involved in the task. Potential for moderate to serious injury through STF.	3	3	9	Routes and areas are checked for obstructions and availability of space or other hazards i.e. wet floor, uneven or slippery surfaces and cables etc. prior to use. Good housekeeping standards are maintained and inspected at all times.	2	4	8
Weils disease	Persons undertaking task. Serious injury potential through contact.	4	4	16	Operatives to be aware of Weils disease and symptoms. Use of PPE is advised in areas of concern. Good housekeeping standards to be maintained in welfare facilities.	2	4	8
Noise/ vibration	Persons involved in the task and others in the vicinity who may be affected by noise / vibration leading to long term adverse health issues.	3	3	9	Personnel are issued with and are required to wear hearing protection when operating noise emitting work equipment. Consideration is given to others when using such equipment by use of baffles or best available technology on tooling. Use of vibrating equipment is to be recorded and monitored. Operatives required to report numbness / tingling in arms, hands fingers which may lead to vibration syndrome.	2	3	6
Contact with substances hazardous to health	Persons undertaking task. Serious injury potential through contact.	4	4	16	Personnel to refer to Use of substances hazardous to health RA control measures required. Specialised (COSHH) assessments may be required in addition to usual precautions	2	4	8