

## Risk Assessment / Method Statement (RAMS)

<b>Contract No.</b>		<b>Site/Location:</b>	Hole in the wall, Peel
<b>Description of activity:</b>	Bulk Earthworks – Reduce dig with Archaeologist attendance		
<b>SECTION A</b>	Site or task specific hazards & control measures		
<b>TO BE COMPLETED BY THE SITE SUPERVISOR</b>			

When identifying hazards & determining controls the Supervisor shall consider routine & non-routine elements of the activity, access to the workface, liaison with other contractors or visitors, capabilities of personnel, hazards outside the workplace which could affect workers, hazards associated with the specific task, site, equipment, materials or environment, emergency arrangements & legal obligations. In all cases the residual risk shall be reduced to as low as reasonably practicable. Section A will be reviewed and updated by the site supervisor as works progress or changes occur. **If anything changes, stop and ask your supervisor.**

Significant Hazard	Risk Rating			Who may be harmed	Control Measures	Residual Risk		
	L	S	RR			L	S	RR

**Hazard** means anything that can cause harm.

**Risk** is the likelihood, high or low, that someone will be harmed by the hazard combined with the **severity** of the harm should it happen.

**SECTION B****Generic hazards & control measures**

All works shall be carried out in accordance with the current legislation and industry codes of practice.

Significant Hazard:	Risk Rating			Who may be harmed	Control Measures	Residual Risk		
	L	S	RR			L	S	RR
Impact or crush injuries to operatives due to contact with mobile plant operating in close proximity.	3	5	H	E / OC	All mobile plant shall be fitted with equipment to maintain 360° vision (i.e.: rear view mirrors or rear facing CCTV cameras). A nominated 'Banksman' shall assist the operators of mobile plant whilst movements are taking place. The operator's attention must be obtained prior to approaching a vehicle or piece of operating plant. Where practicable, exclusion zones shall be established to segregate vehicle activities from pedestrian access. Traffic Management Plan to be planned, implemented and maintained. Where practicable a 'one way' system will be implemented to minimise reversing. Pedestrian and vehicle routes shall be suitably demarcated and segregated. All operatives to wear high visibility clothing	1	5	L
Contact with underground services causing explosion, asphyxiation, burns, electrocution or flooding. Or causing interruption of essential provision of utility service to third parties.	5	5	H	E	Prior to works commencing, the route of all known services shall be located & marked. Extreme caution shall be taken whilst working in close proximity to any identified live services including the imposing of loads on the ground immediately above such services that may cause damage. A full desktop survey & subsequent site investigation using cable-locating equipment/cable avoidance tools will be undertaken prior to any excavation operations commencing The route for heavy vehicles shall avoid the known buried services	1	5	L
Overturning of plant vehicles causing crush or impact injuries.	3	5	H	E / OC	Drivers to stick to designated haul routes and speed limits. Seat belts to be worn when operating ride on rollers and forward tipping dumpers. Haul routes to be kept as level and as flat as practicable to avoid "side-hilling". Dump trucks to avoid tipping (or otherwise elevating skip) during high winds. Roller drivers will roll up to the edge of batters rather than along the edges. Stockpile access ramps shall be compacted and attended throughout the works whilst wheeled vehicles are accessing these areas	1	5	L
Working in contaminated ground causing sickness and / or ill health	3	4	H	E	Site Investigation report to be consulted and further control measures to be implemented according to findings (if required) prior to excavation. PPE to be worn commensurate with the level and type of contamination.	1	4	L

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Materials falling (e.g. from loaded lorry skips or from spoil heaps) causing impact or crush injuries.	4	3	H	E / OC	Dump trucks and dumpers to be loaded evenly within the capacity of the skip. Spoil heaps and embankments to be dressed and sealed and free from loose materials. Spoil heaps to be maintained so that there are no vertical or steep sides.	1	3	L
Collapse of excavation causing crush injuries	3	4	H	E	Excavation walls to be battered to suitable gradient leaving no steep or vertical sides (note – excavations are not normally cut so that steep or vertical sides will be left). Pedestrians to be excluded from excavated areas.	1	4	L
Falls into excavation causing impact injuries.	4	5	H	E / OC	All excavations to be protected with suitable edge protection to prevent falls	1	5	L

**SECTION C****Environmental hazards & control measures**

All works shall be carried out in accordance with the current legislation and industry codes of practice.

Significant Hazard:	Risk Rating			Who may be harmed	Control Measures	Residual Risk		
	L	S	RR			L	S	RR
Environmental spills	3	3	M	W	Brief personnel on spill kit locations and how to check and replenish these items if used. Drip trays shall be used and spill kits present at all times with portable generators. All fuels shall be stored where any spills will be contained. This will be within an impermeable bund, or mobile fuel bowser with a secondary containment system (double skin bund). No fuels/hazardous substances to be stored close to S.W. drains/gullies or any open watercourses. All mobile bowsers shall also be sited on an impermeable barrier (such as visqueen sheeting/concrete). Do not wash concrete, chemicals or other pollutants into drains	1	3	L
Airborne dust generated by site operations	4	4	M	W / P	Controlled by damping down with water Speed restrictions on site Road sweeping of hard surfaces as required Vehicle exhausts are to be directed away from the ground Stockpiles well maintained All dust suppression methods will be done in a controlled manner in order that sufficient water is used to suppress the dust but not excessive quantities that causes run off	1	4	L

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Litter/ Waste Management	3	3	M	W	A high standard of housekeeping shall be maintained at all times All waste & packaging will be disposed of as it is generated Litter will be unacceptable and all personnel will be reminded of the requirements during induction. Brief all personnel on how waste should be disposed of Waste materials will not be burned on site.	1	3	L
Energy wastage	4	2	M		Shut down plant & vehicles when not in use - ensure plant, vehicles & tools are well maintained Shut off water taps & report leaks Shut off electrical equipment at the end of the shift	1	2	L

SECTION D		PPE & Key to Risk Evaluation					
PPE requirements:	✓		Key to risk level:			Key to 'Who is at risk':	
High visibility clothing	✓		H (High)	There is a chance of harm occurring and the consequences are severe		E	Employees
Safety helmet	✓					P	Public
Safety footwear	✓		M (Medium)	There is a chance of harm occurring and the consequences are moderate		SC	Sub-contractors
Ear protection						OC	Other contractors
Eye protection						IX	Inexperienced person
R.P.E			L (Low)	There is a slight chance harm occurring and the consequences are minor		YP	Young person
Gloves	✓					D	Damage
Other (please specify):			I (Insignificant)	There is little or no chance of harm occurring and the consequences are minor		W	Wildlife
		O			Other (please specify):		
		Residual risk level is the level of risk that remains after control measures are implemented. The level of residual risk must always be low (L) or insignificant (I). If they are not then further control measures are necessary.		Level of training/competence:			
				All mobile plant operators shall be competent and carry the appropriate CPCS qualification. Other operatives shall be trained and competent to carry out the work activities described in this document. Personnel shall be briefed on the significant risks and appropriate control measures prior to work commencing			
Other Information:							

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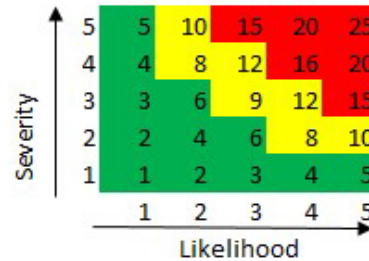
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**Risk Rating Matrix****S = Severity Rating**

1. Negligible
2. First Aid Treatment
3. Minor Injury
4. Major Injury (RIDDOR)
5. Fatality

**L = Likelihood of Occurrence**

1. Improbable
2. Remote 1 - 10%
3. Possible 10 - 50%
4. Probable 51 - 90%
5. Almost certain 90% +



A safe system of work shall be maintained throughout the works, taking into account weather conditions, other work activities, traffic and existing structures. The Supervisor will ensure variations in environment, site conditions and work activities are monitored and suitable control measures applied.

Vehicles and pedestrians accessing the site shall be segregated where practicable. Operatives shall be reminded of their responsibilities during induction to site. Operatives shall only use walking routes established as part of the traffic management plan

WORKS TO BE SUPERVISED BY Andy Harrison

**SECTION E****Method Statement****Resources:**

360° Excavators, Dump Trucks / Dumpers, Road Haulage Vehicles, Ride-On Rollers, Barriers.

**Method of working:**

### IF ANYTHING CHANGES – STOP AND ASK YOUR SUPERVISOR

Prior to any excavating taking place, existing service location drawings will be studied and the positions of all underground apparatus will be noted. The work areas will be surveyed with service locating equipment (e.g. CAT & Genny). All underground services that may affect, or be affected by, the proposed works will be marked. Those in close proximity to proposed excavation or trafficking will be exposed with carefully hand dug trial holes.

ALL operatives must sign onto the permit to dig prior to ANY excavation.

Haul routes will be established and all operators briefed, appropriate signage and/or barriers will be erected to warn third parties of plant movements.

The area within the existing carpark that is to be reduced for the new road will either be hoarded off within the site boundary or hedges fenced in with double clips.

The tarmac will be cut first and spoil will be removed to the designated heap keeping tarmac separate from other material.

Reduced level excavation will be completed down to the required level using the 360° excavator. Operatives are expected to come across a cobbled road beneath where archaeologists will inspect cobbles and confirm further dig.

The dig will be carried out steadily with archaeologist in attendance, operatives must stop if they come across any suspicious items, bones, potteries, changes in the material being excavated (evidence of trenches with different colour of back fill evident).

The excavated arisings will be loaded directly into a dump truck or forward tipping dumper and hauled to the area to be filled or to a spoil heap on site for removal from site via the road haulage vehicles.

The edges and steps in excavations shall be battered to a suitable angle and barriers erected where necessary and practical.

Ladders will be provided by bemus for access in and out of the excavation.

Spoil heaps shall be sealed using the excavator by tracking over the re-profiled ground.

Excavators shall be used to grade and re profile the ground to the required level.

Once the area has been reduced and all measurements / samples taken by the archaeologist and Bemus are instructed to back fill standard back fill techniques will be adopted.

The filled areas shall be compacted with rollers or other compaction equipment.

Any incomplete excavation shall be made safe at the end of each shift and fenced if practicable.

Formation will be proof rolled and checked for line and level prior to being handed over for follow-on works.

Dependant on the location of the excavation the backfill material will be chosen to suit the specified design (road make up dependant on CBR results or general fill compacted in suitable layers).

## SECTION F

## Changes to Method Statement

## SECTION G

## Records of Review of This Assessment

I confirm that the general principles of prevention have been considered when preparing this risk assessment - the following hierarchy of control has been used (1) Eliminate, (2) Reduce, (3) Isolate, (4) Control, (5) Personal Protective Equipment

<b>Assessment of site or task specific hazards by:</b>	Name:	David Squelch	Signature:	<i>David Squelch</i>	Date:	11.7.18
Assessment reviewed by:	Name:		Further control required?*	Y	N	Date:
Assessment reviewed by:	Name:		Further control required?*	Y	N	Date:
Assessment reviewed by:	Name:		Further control required?*	Y	N	Date:
Assessment reviewed by:	Name:		Further control required?*	Y	N	Date:
Assessment reviewed by:	Name:		Further control required?*	Y	N	Date:

Delete as appropriate. If further control measures are required then they should be recorded in Section B or C of this document.

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**SECTION H****Communication & Acknowledgement Records**

**Acknowledgement:** to be completed by all those involved with or affected by the work activity.

I confirm that I have had the contents of this document explained to me and have understood the requirements of the risk assessment.

Name	Signature	Date	Comments