Demolition Method Statement

The Rompney Castle,
Wentloog Road, Cardiff

July 2023

Contents

1. Project Description

Location	The Rompney Castle, Wentloog Road, Cardiff
Reasons for Works	Demolition Works
Project Reference	
Client	Sudhir Sehrawat
Principal Designer	***TBC***
Contractors	***TBC***
Start date and end date:	***TBC***

Contractors Contacts:

Name	Position	Contact Number
TBC		
TBC		

2. Project Scope

The main demolition stages of this project will take approximately 6-weeks (including the slabs) and are:

- Delivery of the plant
- Delivery of materials
- Confirmation of services
- Demolition of buildings as plan
- Disposal of waste
- Off hire of plant

2.1. Delivery of Plant

All plant is fitted with a serviceable flashing beacon, which will be used whenever transiting the site. This ensures that all pedestrians can see the oncoming traffic. When not in use, all plant / equipment will be left in a safe and secure condition, and where practical, keys lodged in the site office.

2.2. Delivery of Materials

Deliveries will be made during site hours (08:00hrs to 17:00hrs) but are subject to review as per site working times and on arrival the Banksman can escort all deliveries.

The site's vehicle entrance for deliveries is established and located within site. Access and egress will be main entrance and guided to site by ***TBC*** supervisor.

All delivery drivers will receive a short by concise induction by ***TBC*** on their first visit to site. Traffic rules will be made clear to all delivery contractors prior to their commencement at a pre-commencement meeting, approve codes for access and egress must be followed, a copy of this Traffic Management Plan will be issued to all contractors.

The site entrance is managed by the ***TBC*** gate man throughout the contract. The delivery wagons are to drive to the main gate where they will be greeted by ***TBC*** Banksman.

On arrival the Banksman will inform the Site Supervisor of the delivery. Traffic controls will be in place to prevent drivers proceeding directly onto site.

All delivery drivers will adhere to site rules regarding PPE.

The delivery will be escorted to the site entrance in accordance with the site Traffic Management plan, through the gates (which will be closed once entered) and down the access route onto site.

On leaving, the same actions will be carried out.

A site speed limit will be in force on site, but additional care and attention is required whilst operating around other site traffic.

All reversing vehicles on site will be supervised by a Banksman once unloaded the wagon will be escorted back to the site main gate to exit the site.

The process will be repeated for each delivery,

All delivery consignment notes will be collected by Weston Operator/Supervisor and filed at the end of each day.

If more than one wagon turns up at any one point, the secondary wagon will be directed to wait until it is safe to proceed.

Care must be taken when driving through the Car Park as it is in full time use. A section may need to be sectioned off at the delivery point near to the site entrance, this will be planned and actioned if required.

Transport will turn off engines when stationary.

2.3. Confirmation of Services

The client is responsible for the disconnection, termination or diversion of all services on site. Confirmation of services disconnection locations must be issued to the site manager prior to commencement of the works. All services will be CAT scanned prior to work commencing.

2.4. Demolition of Buildings

2.4.1. Preparation

No work will take place until everyone has read and understood the RAMS and Demolition procedures. Site induction will be given by the site manager.

All appropriate personnel hold a valid Non-Licenced Asbestos training certificate. All utility disconnection/isolation certificates are to be made available and checked before any work takes place, these will then be filed in the site office and kept on site. Verbal/hand signals will be used for communication during all operations. All demolition will be done whilst the adjacent road is live. Any vehicle movement in the adjacent area must therefore be controlled by a banksman.

2.4.2. Soft Strip

Heras fencing will be erected by the client to secure the site, the fence will be erected and secured to the existing boundary fence. All appropriate signage to be displayed by site manager. Prior to the demolition of the structures on site, a soft strip will be undertaken to remove all fixtures and fittings, doors and frames, plasterboard partitions, ceiling tiles, lightweight fixtures, flooring and other materials left inside and outside buildings. Operatives will use sledgehammers, mattocks, nail bars to remove fixtures and fittings taking care not to damage any potential asbestos containing materials. Materials removed as part of the soft strip will be placed in a roll-on-off skip. Materials will be kept separate where possible to aid recycling of materials such as timber and metal. No materials will be allowed to accumulate in any one area so as to keep a clear and safe work area at all times.

2.4.3. Demolition

The buildings will be demolished using 20t excavators and demolition attachments. Before any work commences a search of the building must be done and all persons accounted for. When the Site Supervisor has given the all clear to the banks man to start work, it will be communicated to the machine operator that work can commence.

Demolition will start on North/East side, the inside of building will be emptied, and the floor cleaned the floor to be cleaned at regular interval throughout the demolition process. All materials inside the building will be removed and placed in designated skips, work will be carried out on inside of buildings using 8t excavator and demolition grab, reducing the need for manual handling. When the inside of building has been emptied the next stage will be ACM roof removal, Dust suppression using water will be applied at all times the floor area will be dampened down then the roof area, water supply is required to be supplied by the client, under the control of the banks man the roof sheets will be pushed inwards using 20t excavator fitted with demolition attachment/bucket, this will be done 2 meters sections at a time. The ACM will then be dampened down again with water before the clean-up operation. The ACM will now be placed in a skip lined with appropriate plastic liner, the ACM will be picked up using a tele handler fitted with a bucket, only when the area has been cleared of ACM can the next section be started, the same procedure will be carried out for each section. When the

skip is full the liner is to be wrapped over and sealed with duct tape, when the skip is loaded it will then be netted by the lorry on board automatic net sheet. When the Asbestos removal and disposal operation is complete, the main demolition of the building can take place. Before any work commences a search of the building must be done and all persons accounted for. When the Site Supervisor has given the all clear to the banks man to start work, it will be communicated to the machine operator that work can commence, This will be done using excavator and demolition attachments, starting from the West Side the building will be pushed inwards working towards the East Side taking down in equal amounts reducing building by 1m at a time to ground level. Moving East the building will be taken down equally on the North and South Side. All demolition material will be loaded away daily cleaning up to leave a clear safe working area. Demolition material will be place into 8-wheeled lorry/skip. All slabs/foundation of building will be broken out using excavator and hydraulic hammer into manageable pieces, to a depth of 1.5 meters, all materials will be loaded onto 8 wheeled lorries controlled by banksman and taken to ***TBC*** recycling centre.

2.5. Disposal of Waste

All material waste to be moved off site to a licenced centre for further processing. All material will be placed into a skip or lorry and disposed as determined.

All non-suitable waste arising from the demolition work will be removed from site and disposed at a licensed waste re-cycling centre.

2.6. Off hire of Plant

On completion of the demolition/dismantling the GA supervisor will confirm all work is completed satisfactory and all plant and equipment can be inspected, off hired and returned to the storage yard or to another site.

3. Management of the Work

Management structure & responsibilities	The demolition/dismantling operations will be supervised by a suitably trained and qualified NFDC/SSSTS Supervisor.
Health & safety goals & their management	The aim to have no RIDDOR incidents and no incidents. Near misses will be reported to ensure they do not elevate to more serious issues. Work should be on time and to budget unless any unforeseen issues arise during the demolition of the structure.
Regular liaison between parties on site	Regular liaison shall take place with client to ensure matters of health and safety on site are regularly discussed and in particular the movement and delivery with heavy vehicles.
Consultation with the workforce	A small team will be working on site with SSTS supervisor present.
The exchange of design information	Not applicable.
Handling design changes during the project	Not applicable.
The selection and control of contractors	No other contractors will be present.
The exchange of health and safety information between contractors	Not applicable.

Site Security
The site will be secured by boundary Heras fencing. The gate will be locked at the end of each working day.
Site Induction
Site inductions and fire evacuation plans will be pointed out on arrival. No other personnel will be on site at the time of the demolition.
On-site Training
All work will be undertaken by qualified competent persons with experience of the type of work described above, and in all cases in full accordance with safety procedures specified in the company's health and safety Policy. The work activities described within this RAMS and all associated safety measures are not to be deviated from in any way. If, for any reason, the controls cannot be implemented in full or should the described process be found inadequate for the purpose

of providing a safe working environment, the affected activities must cease until such time as the activity has been assessed.

Welfare facilities and first aid

Minimum welfare facilities will be provided on site; however, access to the area will determine the extent of the facilities so food and drink will be purchased prior to arrival on site.

Accidents Investigation

The reporting and investigation of accidents and incidents including near misses. In the event of an accident occurring the site supervisor will:

- Call the emergency services as necessary.
- Assess whether the casualty can be moved.
- The Supervisor / Appointed First Aider will administer first aid as appropriate and then contact the emergency services.
- Carry out emergency decontamination procedures.
- Investigate the incident, after the casualty has been treated,
- The emergency services may require site-specific information.
- All interested parties will be advised and kept informed of all developments.

Risk Assessments/Method Statements

All risk will be detailed on attached risk assessment. The risk assessment may be found in Section 10.

Site Rules

- A designated Smoking Point will be established on site but smoking IS NOT permitted inside ANY structure or vehicle.
- No person under the influence of drugs or alcohol shall be permitted on site, and any prescribed drugs that are likely to affect personal performance shall be reported to the site manager.
- Noise to be kept to minimum levels.
- Behaviour standards to be maintained in line with the client's standards.
- Damage or interruption to adjacent properties services shall be avoided, if at all possible, where necessary shall be of short duration and only after giving neighbours suitable warning period and making alternative arrangements should they be required.
- Highway shall not be blocked nor left with surface contaminants and the safety of pedestrians maintained at all times.
- Access to the site for deliveries is across the pedestrian pavement and care shall be taken to avoid risk to pedestrians when accessing or exiting the site.
- Access for contractor's vehicles will be via a gated side entrance and parking will be in a specified hard standing area close to that point and the work.
- Where possible all waste is to be recycled.
- Site shall be secured against unauthorised access at all times; appropriate warning signage to be displayed.
- Regular reports on progress to be provided to the client to include details of incidents and near misses • Emergency plan to be prepared to cover fire, accident, unexpected incident or uncovering of previously unidentified asbestos.
- All personnel to be authorised to work on site and must be signed in.
- All personnel to be inducted is the site rules.
- Only authorised equipment to be used.
- No Horseplay.

- All incidents e.g., spills, accidents, near misses etc must be reported to the site supervisor who will then inform the Contracts Manager.
- A first aid kit is located in the site office and in company vehicles. ALL accidents must be reported to the First Aider.
- Where welfare facilities have been provided, please treat them with respect.
- Fire extinguishers are provided. In the unfortunate event that there is a fire, use the fire extinguisher only if safe to do so and if you comfortable in using it. DO NOT use the fire extinguishers for any other purpose.
- All appropriate PPE must be worn.

Fire and Emergency Procedures

University Hospital of Wales
Heath Park, Cardiff CF14 4XW
Phone: 02920 747747

Responsible: ***TBC*** Suitable and sufficient firefighting equipment will be located adjacent to the service cabin.

All electrical equipment has been inspected and tested.

The muster point in case of fire or an emergency will be outside the cabin, away from the road to ensure safe access to emergency personnel.

Smoking or any type of naked flames is not permitted on site. Smoking is permitted in designated smoking areas ONLY.

Emergency Action

In the event of a FIRE the following actions are required:

- Priority is to ensure that in the event of an emergency situation, all personnel can be evacuated immediately to a safe area.
- ALL operatives on hearing the alarm (verbal/audible) are to immediately evacuate the premises by using the fire exits furthest away from the fire.
- The site supervisor will contact the emergency and then proceed to power down all site equipment.
- The site supervisor will perform a roll call, report to the emergency services when arriving and inform them if anyone is missing and provide any additional information that may be required.

4. Arrangements for Controlling Significant Site Risks

Should the method or works alter significantly the Method Statement will be amended and resubmitted for approval prior to works proceeding.

The ***TBC*** site manager will check daily and if necessary, hourly to ensure the works are progressing safely and in compliance with the Method Statement. Manager visits will take place at pre start stage to hand the works over to the supervisor.

Auditors will be on site unannounced during the works.

4.1. Safety Risks:	
Delivery and removal of materials (including waste) and work equipment taking account of any risks to the public, for example during access to or egress from the site	Removal of material will be via ***TBC*** transport. Site boundaries will be inspected on a regular basis to ensure that members of the general public or other unauthorised persons cannot gain access to the works; signage will also be erected on fencing to ensure the persons are aware of the dangers of our site operations. No plant or equipment is to be operated outside of the site boundary, with all demolition being carried out from within the site.
Dealing with services - water, electricity and gas, including overhead power lines and temporary electrical installations	All services are to be disconnected/isolated by Others. Additional checks will be undertaken to ensure that this is the case.
Accommodating adjacent land use	The adjacent land is residential and School land.
Stability of structures whilst carrying out construction work, including temporary structures and existing unstable structures.	The building will become unstable during demolition. A work method sequence will be discussed at regular intervals to ensure all personnel are safe.
Preventing falls.	Working at height – There will be no working at height.
Work with or near fragile materials.	All material will be moved using excavator and grab.
Control of lifting operations.	Where applicable all lifting equipment has been LOLER inspected by competent external personnel. All vehicles have a full-service history.
Maintenance of plant and equipment.	All equipment is checked at the beginning of the day and before use.
Work on excavations and work where there are poor ground conditions.	There will be no excavation only the concrete slab will be demolished and processed or removed from site.
Work on wells, underground earthworks and tunnels.	Not applicable.
Work on or near water where there is a risk of drowning.	Not applicable.

Work involving diving.	Not applicable.
Work in a caisson or compressed air working	Not applicable.
Work involving explosives.	Not applicable.
Traffic routes and segregation of vehicles and pedestrians	A Traffic Management Plan will be on display in the site office.
Storage of materials (particularly hazardous materials) and work equipment	All waste materials will be transferred to a licenced recycling site as soon as possible.
Any other significant safety risks	Slips trips and falls - good housekeeping will be maintained where possible.

4.2. Health Risks, including:	
The removal of asbestos	All asbestos has been removed by Others prior to demolition commencing
Dealing with contaminated land	Not applicable
Use of hazardous substances, particularly where there is a need for health monitoring	Dust levels will be kept to a minimum by using best practice techniques and if necessary, by utilising high pressure hoses fitted with fine mist water sprays directed onto the working areas. Dust suppression will be carefully controlled so as to prevent runoff slurry and any live drains in the vicinity will be protected in an appropriate manner. All dust suppression measures will be constantly reviewed throughout the process by the site manager and contracts manager. If necessary, dust masks will be provided.
Reducing noise and vibration	All plant and equipment used on site will be silenced as per manufacturer's designs. We have a fleet of up-to-date plant and machinery that is regularly maintained and carefully selected so as to be the most appropriate for the works being carried out considering also the surrounding environment. Works will be carried out by trained and competent demolition operatives using best practice techniques to minimize noise and environmental impact. Works will be planned where practicable so as to leave structures nearest to sensitive receptors intact for as long as possible to provide additional acoustic shielding from the works. Machines are inspected daily to ensure amongst other things that noise suppression devises are in place and intact. Operators are not permitted to allow machines to sit idling when works are not in progress and nor will machines be operated outside of the working hours unless authorised to do so by the Principal Contractor and/or Principal Designer.
Work with ionising radiation	Not applicable

Exposure to UV radiation (from the sun)	All personnel will be dressed in company shirts and/or coveralls at all times.
Any other significant health risks	Needle stick injury or vermin – signs of rat infestation, bird activity or needle use will be checked prior to work commencing; if any of the signs are recognised work must stop until all necessary precautions have been put in place e.g., additional PPE.

The risk assessment may be found in Section 10, but the control measures have been incorporated into this RAMS.

5. Equipment

The following plant and equipment will be required for this project:

- Excavator/grab/hammer/shear
- Skip/ 8-wheel lorry
- Hand tools

All plant and equipment will be delivered and removed from site as per 'Delivery and Collection of Plant /Equipment' Risk Assessment. (See Section 10)

All plant will be offloaded on level, stable ground with an acute awareness of any overhead and buried services and where there is sufficient space by a trained, competent person. The securing straps of the low loader are then released, the ramp lowered to the ground and the machinery off loaded.

All plant is fitted with a serviceable flashing beacon which will be used whenever transiting he site. This ensures that all pedestrians can see the oncoming traffic.

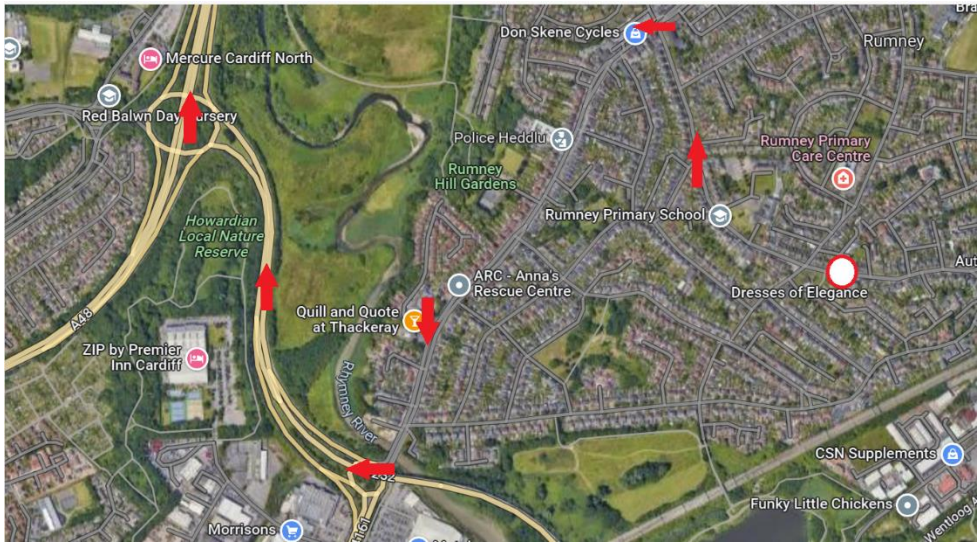
When not in use, all plant / equipment will be left in a safe and secure condition, and where practical, keys lodged in the ***TBC*** site office. Transport will turn off engines when stationary.

6. Traffic Management

The site will strictly adhere to a traffic management plan; a copy will be held in the site office/welfare facilities for reference, any interested parties will be furnished with this document for their review prior to visiting site.

Construction vehicles will be required to travel along a predefined route. Vehicles leaving the site will travel west along Wentloog Road to its junction with the B4487 Newport Road. Here they will travel south-west along the B4487 Newport Road to its junction with the A4232, where they will travel north along the A4232 to the junction with the A48. Here they will travel south towards Cardiff or north towards the M4 and onwards, depending on their destination. Vehicles travelling to the site will follow the same route in reverse. See Fig.1 below.

Fig.1. Construction Traffic Routes



Construction vehicles will access and egress the site via the existing access from Wentloog Road at the western end of the site. See Fig. 2 below.

Fig.2 Site Access

The site supervisor will regularly inspect the approach roads to ensure that access and highways will be kept clean and debris free of site contamination mud and dust.

The banks man will be responsible for the checking of all vehicles leaving site to ensure that wheels are clean. If not, then the wheels of the vehicle will be cleaned appropriately by jet wash prior to the vehicle being allowed to leave site.

By processing all suitable material for re-use on site and by careful segregation of all other materials generated through demolition we will be able to plan and minimise all vehicular movements from site.

The Site supervisor will have overall control of all traffic movements to and from site.

Pedestrian and plant/vehicular movements will be segregated using temporary fencing.

Where pedestrian routes cross vehicle routes there will be good visibility for both pedestrians and vehicles and be clearly marked.

In the event that access and egress points change re-induction to site operatives will be undertaken accordingly.

All vehicular movements on site will be overseen by a dedicated Banksman who will remain outside of the turning circle of plant and machinery at all times.

Deliveries to site will be restricted to between 8.00- 17:00 Monday to Saturday and will be planned against peak flow times.

All employees and delivery drivers will be advised on the local road systems busy times of day will be avoided for deliveries and consideration given to local residents, school users and employees of the school at all times.

7. Manual Handling Assessment

HAZARD CHECKLIST (Answer all questions YES or NO)		
The Task – does it involve:	**Y/N**	**CONTROLS**
1. Holding the load away from the trunk?	**N**	
2. Twisting the trunk?	**N**	
3. Poor posture i.e., stooping/stretching?	**N**	
4. Strenuous pushing or pulling?	**Y**	Operatives to make use of the tools supplied to reduce pulling and pushing
5. Excessive lifting or lowering?	**Y**	Toolbox talks will be given to all operatives
6. Repetitive handling?	**Y**	This operation is repetitive, regular breaks will be taken.
7. Excessive carrying distances?	**N**	
The Load – is it:		
8. Heavy?	**N**	
9. Bulky or unwieldly?	**N**	
10. Difficult to grasp?	**N**	
11. Unstable, or contents likely to shift?	**N**	
12. Potentially harmful e.g., Hot, sharp?	**N**	
The Working Environment – are these:		

13. Constraints on posture?	**N**	
14. Uneven or unstable floors?	**Y**	All ground/floor area to be kept clear and clean at all times.
15. Variations in floor levels/work surface?	**Y**	
16. Extremes of temperature, humidity?	**N**	
17. Poor lighting conditions?	**N**	
18. Excessive noise levels or air	**N**	
Individual Capabilities – does the job:		
19. Require unusual capabilities i.e.,	**N**	
20. Require special information/training?	**Y**	Delivered toolbox talk on manual handling techniques; also trained to NDTG demolition & asbestos awareness
21. Involve handlers who are pregnant?	**N**	
22. Involve handlers with health problems?	**Y**	Operatives are assessed against the tasks
Other Factors: -		
Are there any protective clothing or items being worn that may increase the risk of injury from Manual Handling Operations?	**N**	None.

8. Personal Protective Equipment

PPE is used as a last resort however they are often provided as a precaution e.g., Weils disease, sharps, vehicle movements etc. PPE as a minimum for this work is:

- Hard hat to be worn by all.
- Steel toe cap boots to be worn by all.
- Hi visibility vest to be worn by all.
- Gloves to be worn be worn all times.
- Overalls to be worn by all.
- Disposable overalls to be worn when asbestos removal takes place.
- Safety glasses to be worn by all.
- Face mask to be worn to suite task.
- Ear protection if required.

8.1. Respiratory Protective Equipment

RPE should always be examined in accordance with the manufacturer's instructions before it is used to ensure it is not damaged in any way and is in good working order.

The pre-use examination by the wearer should also include a fit check to ensure that the mask properly fits the wearer.

8.2. Removal of Contaminated Protective Clothing

Protective clothing should be removed before taking off RPE. Protective clothing should also be removed before leaving the work area for any reason, including for meal breaks, for other breaks and at the end of the shift. If it is not to be reused, it should be placed in a suitable waste bag. If the clothing is to be removed from the premises for cleaning or disposal it should be sealed in a labelled, dust-tight bag.

8.3. Cleaning, maintenance and storage of protective clothing

Where disposable overalls are used, they should be treated as asbestos waste and properly disposed of after every shift. Disposal after single use may not be necessary for overalls used for occasional sampling where there is a low risk of contamination.

9. Record of Briefing

Drivers/Operatives Name:	Signature:	Briefed By:	Date:

10. Risk Assessment

Section 10: Risk Assessment														
STAGE OF PROJECT	HAZARD	CONSEQUENCE	HAZARD EFFECT	PERSONNEL AT RISK			RISK LEVEL			CONTROL MEASURES	RISK LEVEL		
				Employees	Other contractors	Others e.g. trespassers	Severity	Probability	Risk Level		Severity	Probability	Risk
Deliveries and Collection of Plant/ Equipment	Narrow Roads	Collision with other vehicles and/or pedestrians	Injury, death	Y	Y	Y	3	3	9	Reduce speed. Due care and attention especially during busy periods.	3	1	3
	Unloading	Sprain/strain	Sprain or strain. Long term disability	Y	Y	Y	2	3	6	Mechanical aids to take material to work face; otherwise team lift. Plan route. Certification for lifting equipment.	2	1	2
	Unloading	Falling materials/equipment	Injury, death	Y	Y	Y	3	3	9	Established parking/delivery area; Cordon area off; Banksman supervision of all deliveries; Due care and attention.	3	1	3
	Vehicles manoeuvring	Collision with other vehicles/ pedestrians	Injury, death	Y	Y	Y	2	3	6	Reduce speed. Due care and attention especially during busy periods.	2	1	2
	Overhead services	Electrocution	Injury, death	Y	Y	Y	2	3	6	Location of services to be considered when offloading	2	1	2
	Fuel spill	Environmental impact		Y	Y	Y	2	2	4	Competent delivery vehicle drivers; care and attention	2	1	2
Site set up	Vehicle activity	Collision with other vehicles and/or pedestrians	Injury, death	Y			3	3	9	Traffic Management Plan in place; Cordon off area to reduce access to unauthorised persons. Established parking/delivery area; Banksman supervision whilst deliveries are made; Due care and attention.	2	2	4
	Manual Handling	Sprain/strain	Sprain or strain. Long term disability	Y			2	2	4	Mechanical aids to take material to work face; otherwise team lift. Plan route. Certification for lifting equipment to be available.	2	1	2
	Housekeeping	Slips, trips, falls	Injury	Y	Y	Y	2	3	6	Clear work areas on a regular basis	2	1	2

	Ignition sources/ combustible materials	Fire	Injury/death	Y	Y	Y	3	2	6	All debris to be removed at the end of the day and as work is progressing. Fire extinguisher at welfare facilities.	2	1	2
Demolish/ Dismantle/ removal	Asbestos	Dust	Long term ill health effects	Y	Y	Y	3	3	9	Asbestos survey has identified asbestos. This will have been removed by a competent asbestos removal company. If any further asbestos is uncovered or suspected STOP work immediately**.**	2	2	4
	Overhead services	Explosion/ Electrocution	Injury, death	Y	Y	Y	3	3	9	Location of services to be considered; isolate services if possible; route services on goal posts so away from area of working	1	2	2
	Buried services	Explosion/ Electrocution	Injury, death	Y	Y	Y	3	3	9	Services should have been isolated. Re-check using plans and CAT scans; hand dig until services have been identified; Once identified mark areas; protect services by benching over with semi-dry concrete and notify GA	1	2	2
	Noise	Complaints	Injury, long term ill health effects	Y	Y	Y	2	2	4	Use limited to core hours and not Saturday afternoon or Sundays (all day); hearing protection to be worn during periods of excessive noise (i.e. >85dbA)	2	1	2
	Vibration	Complaints	Injury, long term ill health effects	Y	Y	Y	2	2	4	Use limited to core hours and not Saturday afternoon or Sundays (all day);	2	1	2
	Inhalable Dust	Inhalation	Long term ill health	Y	Y	Y	3	2	6	Dust to be controlled by suppression; dust masks available for particularly dry days when suppression is difficult to maintain.	2	1	2
	Vermin	Weils disease/ Leptospirosis	Long term ill health	Y	Y	Y	3	2	6	Any evidence of rat activity to be reported to the site supervisor; good hygiene; gloves	2	1	2
	Needle stick	Hepatitis	Injury, long term ill health effects	Y	Y	Y	3	3	9	Any evidence of needles sticks to be reported to the site supervisor; do not handle with hands, use hand tools to collect; good hygiene; gloves	2	1	2
	Vehicles manoeuvring	Collision with other vehicles/ pedestrians	Injury, death	Y	Y	Y	2	3	6	Reduce speed. Due care and attention especially during busy periods. Banksman used at all times. Traffic management plan.	2	1	2
	Uncontrolled collapse	Fall of material	Death, Injury, long term ill health effects	Y	Y	Y	3	3	9	Sections to be held by mechanical means; Excavator driver protected inside cab; restrict area to excavator operators only. Banksman to maintain safe distance.	2	1	2
	Contaminated land	Skin contact whilst soft strip	Ill health	Y	Y		2	2	4	Stop work and assess nature of contamination.	2	1	2
	Adverse weather conditions	High temperatures	Sunburn/heat stress	Y	Y		2	2	4	Mandatory work wear. Regular water breaks.	2	1	2
Refuelling	Manual Handling	Sprain/strain	Sprain or strain.	Y	Y		2	3	6	Mechanical aids to take material to work face; otherwise team lift. Plan route. Certification for lifting equipment	2	1	2
	Diesel fumes	Inhalation/skin contact	Long term ill health	Y	Y		3	2	6	Used in the open air so well ventilated; gloves; spill kits retained on site	2	1	2
	Spills	Rupture of container; decanting into vehicle	Pollution	Y	Y	Y	2	2	4	Appropriate mobile fuel bowser will be used to re-fuel plant daily. There will be a Spill kit in the storage area.	2	1	2

Reinstatement	Overhead services	Explosion/ Electrocution	N/A	Y	Y	Y	3	3	9	Location of services to be considered; isolate services if possible; route services on goal posts so away from area of working	2	1	2
	Buried services	Explosion/ Electrocution	N/A	Y	Y	Y	3	3	9	Locate services using plans and CAT scan; hand dig until services have been identified; Once identified mark areas; protect services by benching over with semi-dry concrete and notify GA	1	2	2
	Noise	Noise	N/A	Y	Y	Y	2	2	4	Use limited to core hours and not Saturday afternoon or Sundays (all day); hearing protection to be worn during periods of excessive noise (i.e. >85dbA)	2	1	2
	Inhalable Dust	Inhalation	N/A	Y	Y	Y	3	2	6	Dust to be controlled by suppression; dust masks available for particularly dry days when suppression is difficult to maintain.	2	1	2
	Adverse weather conditions	High temperatures	N/A	Y	Y		2	2	4	Mandatory work wear. Regular water breaks.	2	1	2