

C R A G G Y R A N G E
 ——— VINEYARDS LTD ———

HAZARD REGISTER AND RISK MANAGEMENT - LOCATION: BLACK BIRCH VINEYARD

Reviewed by: Tyler McComb	Review Date: 14/09/2016	Next Review: September 17
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Hazards Identified	Harm that could occur	Is this hazard significant?	Eliminate? Isolate? Minimise?	Controls - Actions to Reduce Risk
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Chemical Poisoning through contact with toxic pesticides and chemicals via dermal, oral, inhalation ingestion or through cuts & abrasions.	Potential for serious long term respiratory /digestive damage through inhalation or absorption of chemicals. Skin irritations.	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons handling & applying chemicals must have Grosafe accreditation. Refer to SOP VIN-706 on general chemical handling which outlines safe chemical handling procedures MSDS on file for all chemicals used on vineyard All persons must use specified PPE when handling and applying chemicals. Please check with Vineyard manager on re-entry status for entering blocks. Use “spraying in progress” signs located at entrances/blocks when spraying.
Poisoning injury resulting in use of chemical/fertigation mixing units	Chemical poisoning causing nausea, dizziness, vomiting/diarrhea, fatigue, loss of balance, sweating, convulsions respiratory failure, coma or death.	yes	Isolate Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines the safe operating procedures applicable to the chemical/fertigation mixing unit Use PPE specified in SOP
Poisoning relating to exposure to fuel (Diesel/Petrol)	Dizziness and nausea caused by toxic vapours. Skin reactions to contact with fuel. Burns from fires.	Yes	Minimise	<ul style="list-style-type: none"> Care must taken when refuelling or transporting fuel as fuel vapours can be breathed in and exposure to skin from splashing can occur. Use of gloves when refuelling is recommended. If refuelling or handling fuel within confined areas please ensure the area is well ventilated. Ensure spills are cleaned up immediately. Ensure that fuel is not stored or used near a source of heat or flames. Never smoke near fuel sources.

Colour key:		Chemicals\products		Vehicles		Equipment		General		Vineyards		Environment
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CRAGGY RANGE

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General injuries due to accidental shooting while bird shooting and/or pest control with firearms. Burn injuries due to improper storage of ammunition	Gun shot injuries resulting in damage to limbs, vital organs and head. Burns to skin, hair and organs.	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons using guns on the vineyard must have a current gun licence Refer to SOP VIN-709/719 which outlines the safe operating procedures applicable to the use of guns on the vineyard
Hearing induced hearing loss from firing of gas guns in close proximity	Potential for long-term hearing loss.	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons working on vineyard while gas guns in operation are notified of the hazards associated with their operation Refer to SOP VIN 714/715 which outlines the safe operating procedures applicable to the use of gas guns on the vineyard
Burn or electrocution injuries resulting from use of welding equipment.	Burns to skin, hair and organs causing physical burn injuries and possibly death. Risk of causing fires.	yes	Isolate Minimise	<ul style="list-style-type: none"> Only Trained personnel specified by the Vineyard Manager are able to operate welding equipment. Certified welding is required for equipment/machinery that if welds fail could cause harm to individuals. Ensure area is free of flammable materials. Refer to SOP which outlines the safe operating procedures applicable to welding. PPE as specified in SOP must be worn.
General injuries resulting from use of hand held grinder	Cuts, abrasions and general tissue or muscle damage. Risk of creating fires from sparks.	no	Minimise	<ul style="list-style-type: none"> Refer to SOP VIN-307 which outlines the safe operating procedures applicable to the hand held grinder All persons must use PPE as specified in SOP VIN-307.

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General injuries resulting from use of hand held electric drill	Cuts, abrasions and general tissue or muscle damage.	no	Minimise	<ul style="list-style-type: none"> Refer to SOP VIN-308 which outlines the safe operating procedures applicable to the hand held electric drill. All persons must use PPE as specified in SOP VIN-308
General injuries resulting from use of high pressure water blaster	Damage to eyes resulting in partial or complete vision loss. Physical damage to skin from high pressure water.	yes	Minimise	<ul style="list-style-type: none"> Refer to SOP VIN-730 which outlines the safe operating procedures applicable to the water blaster Use PPE specified in SOP VIN-730.
General injuries resulting from use of chainsaw	Potential for long term noise induced hearing loss. Potential for occupational overuse syndrome. Physical injury causing tissue or muscle damage as a result of saw kickback. Burns to skin, tissue and muscles from muffler or fuel igniting.	yes	Minimise	<ul style="list-style-type: none"> All persons operating chainsaw must complete an approved chainsaw operator course. Refer to SOP VIN-236 which outlines the safe operating procedures applicable to the chainsaw PPE as specified in SOP VIN-236 Refer to SOP VIN-718 outlining safe work practices outdoors
General injuries caused by use of weed eaters	Cuts and abrasive injuries caused by revolving blade or cord. Injuries caused to eyes from debris.	yes	Minimise	<ul style="list-style-type: none"> Refer to SOP VIN-234 which outlines the safe operating procedures applicable to the weed eaters Use PPE as specified in SOP VIN-234 Refer to SOP VIN-718 outlining safe work practices outdoors
General injuries due to Tractor Roll-Over or Collision	Potential for serious physical injury due to vehicles rolling.	yes	Minimise	<ul style="list-style-type: none"> All persons operating tractors must be trained in their safe use by completing a formal induction on the tractor by the site Vineyard Manager or senior staff member delegated by the Vineyard Manager. Refer to SOP on specific tractor which details safe operating procedures applicable to the tractor

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C R A G G Y R A N G E

— V I N E Y A R D S L T D —

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				<ul style="list-style-type: none"> Tractors will be operated in accordance with manufacturers recommendations
General injuries due to ATV Roll-Over or Collision	Potential for serious possibly fatal injuries	yes	Minimise	<ul style="list-style-type: none"> All persons operating ATV's must be trained in their safe use by completing a formal induction on the ATV by the Vineyard manager Marlborough or senior staff member delegated by the Vineyard Manager. Refer to SOP on ATV which outlines the safe operating procedures applicable to the ATV ATV's must be operated in accordance with manufacturers recommendations. Riding in or through no go areas are strictly prohibited.
General injuries caused by use of ATV towed over-row netting machine	Potential for serious possibly fatal injuries	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons operating ATV and netting machine must be trained in its safe use by completing a formal induction on the ATV & net machine by the Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. Refer to SOP on ATV mounted net machine which details safe operating procedures applicable to the machine. ATV & net machine will be operated in accordance with manufacturers recommendations
General injuries resulting from use of tractor mounted post rammer	Potential for serious possibly fatal injuries	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons operating tractor and post rammer must be trained in its safe use by completing a formal induction on the tractor & post rammer by the Vineyard manager Marlborough or senior staff member delegated by the

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				Vineyard manager. <ul style="list-style-type: none"> Refer to SOP VIN-209 on tractor mounted post rammer which details safe operating procedures applicable to the post rammer. Tractor & post rammer will be operated in accordance with manufacturers recommendations. All PPE specified in the SOP must be worn. 	
	General injuries resulting from use of tractor mounted trimmer	Potential for serious possibly fatal injuries	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons operating trimmers must be trained in its safe use by completing a formal induction on the trimmer by a senior staff member Refer to SOP VIN-104 on tractor mounted trimmers which details safe operating procedures applicable to the tractor Tractor & Trimmer will be operated in accordance with manufacturers recommendations
	General injuries resulting from use of tractor mounted mowers	Potential for serious possibly fatal injuries	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons operating tractor and mower must be trained in its safe use by completing a formal induction on the tractor & mower by the Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. Refer to SOP VIN-210 on tractor mounted mower which details safe operating procedures applicable to the mower. Tractor & mower will be operated in accordance with manufacturers recommendations.

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— V I N E Y A R D S L T D —

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General injuries resulting from use of heavy roller	Potential for serious possibly fatal injuries	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons operating tractor and roller must be trained in its safe use by completing a formal induction on the tractor & roller by Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. Refer to SOP VIN-222 on heavy rolling which details safe operating procedures applicable to the roller. Tractor & roller will be operated in accordance with manufacturers recommendations
General injuries resulting from use of tractor mounted mulcher	Potential for serious possibly fatal injuries	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons operating tractor and mulcher must be trained in its safe use by completing a formal induction on the tractor & mulcher by the Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. Refer to SOP VIN-224 on tractor & mulcher which details safe operating procedures applicable to the mulcher. Tractor & mulcher will be operated in accordance with manufacturers recommendations
General injuries resulting from use of tractor mounted sprayers	Potential for serious possibly fatal injuries	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons operating tractor and sprayers must be trained in theirs safe use by completing a formal induction on the tractor & sprayer by the Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. Refer to Appropriate SOP on tractor & sprayer which details safe operating procedures applicable to the

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				sprayer. <ul style="list-style-type: none"> Tractor & sprayer will be operated in accordance with manufacturers recommendations
General Injuries resulting from use of ATV towed sprayers	Potential for serious possibly fatal injuries	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons operating ATV & sprayer must be trained in its safe use by completing a formal induction on the ATV & sprayer by the Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. Refer to SOP VIN-220 on ATV & sprayer which details safe operating procedures applicable to the sprayer. ATV and sprayer will be operated in accordance with manufacturers recommendations
General injuries resulting from use of tractor mounted forklift	Potential for serious possibly fatal injuries	yes	Minimise	<ul style="list-style-type: none"> All persons operating tractor and forklift must have a current forklift operators' licence and be trained in its safe use by completing a formal induction on the tractor & forklift by the Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. Refer to SOP VIN-214/233 on tractor mounted forklift which details safe operating procedures applicable to the forklift Tractor & forklift will be operated in accordance with manufacturers recommendations
General injuries resulting from use of forklift	Potential for serious possibly fatal injuries	yes	Isolate Minimise	<ul style="list-style-type: none"> All persons operating forklift must have a current forklift operators' licence and be trained in their safe use by completing a formal induction on the forklift by the

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				Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. <ul style="list-style-type: none"> Refer to SOP VIN-214/233 on forklift which details safe operating procedures applicable to the forklift. Forklift will be operated in accordance with manufacturers recommendations 	
	General injuries caused by use of tractor mounted gondola	Potential for serious possibly fatal injuries	yes	Minimise	<ul style="list-style-type: none"> All persons operating tractor and gondola must be trained in their safe use by completing a formal induction on the tractor & gondola by the Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. Refer to SOP VIN-229 on tractor & gondola which details safe operating procedures applicable to the gondola. Tractor & gondola will be operated in accordance with manufacturers recommendations
	General injuries resulting from use of tractor mounted cultivators	Potential for serious possibly fatal injuries	yes	Minimise	<ul style="list-style-type: none"> All persons operating tractor and cultivators must be trained in their safe use by completing a formal induction on the tractor & cultivators by the Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. Refer to SOP on tractor & cultivators which details safe operating procedures applicable to the cultivators. Tractor & cultivators will be operated in accordance with manufacturers recommendations.

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General injuries resulting from use of tractor mounted grader blade	Potential for serious possibly fatal injuries	yes	Minimise	<ul style="list-style-type: none"> All persons operating tractor and grader blade must be trained in their safe use by completing a formal induction on the tractor & grader blade by the Vineyard manager Marlborough or senior staff member delegated by the Vineyard manager. Refer to SOP on tractor & grader blade which details safe operating procedures applicable to the grader blade. Tractor & grader blade will be operated in accordance with manufacturers recommendations
General injuries resulting from use of trailers - general	Potential for serious possibly fatal injuries	yes	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines the safe operating procedures applicable to the trailer
Burn injury &, hearing induced hearing loss Injuries caused by use of the diesel pump near block 35.	Burn injury & noise induced hearing loss	yes	Isolate Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines the safe operating procedures applicable to the CAT diesel motors Use PPE specified in SOP
Frost protection with Frost fans	Injury or death from rotor blades. Noise induced hearing loss.	Yes	Isolate Minimise	<ul style="list-style-type: none"> Please refer to SOP VIN-722 relating to frost protection with Frost fans at Black Birch Vineyard. Always wear PPE outlined in the SOP.
General injuries resulting from use of vineyard vehicles	Potential for serious possibly fatal injuries	no	Minimise	<ul style="list-style-type: none"> All vehicles must adhere to the site speed limit of 25 km/hr Extreme care should be exercised travelling on gravel roads. Please note Black Birch Vineyard has many roads and

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				access ways all of which drivers/operators must take care and maintain safe speeds. <ul style="list-style-type: none"> High hazard areas include sharp corners and tight road above block 23 on the middle road accessing the top terrace. Blind corners such as the culvert above block 15. All vehicles will be operated according to manufacturers' recommendations
General injuries while completing irrigation R & M	Potential for back/neck injuries Repetitive Strain Injury	no	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for completing Irrigation R & M Refer to SOP outlining safe work practices outdoors
General injuries while completing general trellis R & M	Potential for back/neck injuries Repetitive Strain Injury. Broken wires causing injuries to eyes.	no	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for completing trellis R & M. Wear specified PPE. Refer to SOP outlining safe work practices outdoors
General & OOS injuries associated with pruning	Potential for back/neck injuries Repetitive Strain Injury Cuts from pruning secateurs	yes	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for pruning Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP
General & OOS Injuries associated with shoot thinning	Potential for back/neck injuries Repetitive Strain Injury	no	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for shoot thinning Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP
General & OOS injuries associated with wire lifting & tucking	Potential for back/neck injuries Repetitive Strain Injury. Injury to eyes caused by broken wires.	no	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for wire lifting and tucking. Wear specified PPE detailed in the SOP. Refer to SOP outlining safe work practices outdoors

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				<ul style="list-style-type: none"> Use PPE specified in SOP
General & OOS injuries associated with manual leaf plucking	Potential for back/neck injuries Repetitive Strain Injury	no	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for hand leaf plucking Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP
General & OOS injuries associated with crop and colour thinning	Potential for back/neck injuries Repetitive Strain Injury Cuts from snips	no	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for crop and colour thinning Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP
General & OOS injuries associated with vine de-budding	Potential for back/neck injuries Repetitive Strain Injury	no	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for de-budding. Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP
General & OOS injuries associated with hand picking	Potential for back/neck injuries Repetitive Strain Injury Cuts from snips	no	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for hand picking Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP
General & OOS injuries associated with hand planting	Potential for back/neck injuries Repetitive Strain Injury	yes	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for hand planting Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP

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General & OOS injuries associated with bird net clipping	Potential for back/ neck injuries Repetitive Strain Injury	yes	Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines safe work procedures for net clipping Refer to SOP outlining safe work practices outdoors Use PPE specified in SOP
General injuries associated with carrying out technical data collection	Potential for back/ neck injuries Eye strain Repetitive Strain Injury	yes	Minimise	<ul style="list-style-type: none"> Refer to SOP relating to the specific data collection task which outlines safe work procedures Refer to SOP outlining safe work practices outdoors
Drowning/slipping Injuries - Specific to the Black birch Vineyard - Dams and Rivers/creeks	Potential for drowning, hypothermia, slipping from wet surfaces.	yes	Isolate	<ul style="list-style-type: none"> All personnel advised during site induction to avoid dam areas at all times. This includes the Dams adjacent to block 26&27, Block 7 and block 16. No swimming allowed. Jetties and buoys are located at selected locations in the dams in the event someone accidentally slips in. If access is required into the dam area person must always be accompanied by another person if access is required life jackets must be worn.
Burn Injuries caused by working in close proximity to flammable goods	Serious burn injuries or fatal injuries	yes	Eliminate	<ul style="list-style-type: none"> Refer to SOP detailing safe work practices in workshop
General injuries associated with working outdoors	Sun burn, dehydration or exposure.	no	Minimise	<ul style="list-style-type: none"> Refer to SOP outlining safe work practices outdoors

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Injuries associated with vehicle collision and/or vehicle roll over down steep cliffs.	Potential for serious possibly fatal injuries, associated with vehicle collision and roll over in vehicles/machinery over cliffs.	Yes	Minimise	<ul style="list-style-type: none"> Access tracks that connect the lower and upper terraces including the centre main access track are particularly hazardous with several blind corners and high levels of traffic. When traversing these roadways please ensure speeds are kept under 15km/hr and approach corners slowly to minimise risk of vehicle collision and/or rolling over the cliff. Take especially care when road is wet or icy.
General injuries associated with cliffs and uneven terrain.	Potential for serious possibly fatal injuries, associated with falling/trips and roll over in vehicles/machinery.	Yes	Isolate Minimise	<ul style="list-style-type: none"> Black Birch Vineyard was planted on several terraces and as such there are many cliffs. Drop offs and uneven terrain. Please note that any of the step cliffs and hazardous areas are no go areas. Please take extreme care when operating equipment and driving vehicles near these areas reduce speed and ensure that 4wd is used in any vehicles or equipment. Limit operation near these areas when wet as the ground may be slippery and reduce effectiveness of braking.
High voltage power lines through the centre of the vineyard.	Electric shock from contact with damaged power lines or from contact made by machinery.	Yes	Isolate Minimise	<ul style="list-style-type: none"> Extreme care must be taken when working nearby and under power lines. Machinery such as diggers and harvesters must have no part closer than 4m away from lines as electricity can easily jump. If work is required near or under the power lines trans power will need to be informed prior to the work to check if permits are required. In the event of power lines being damaged or contacted with stay where you are, keep others away and call 111.

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CRAGGY RANGE

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				<ul style="list-style-type: none"> Never go near downed wires and never climb on the Pylons for any reason.
General, Fall and drowning injuries caused by open drainage trenches and creeks and waterways.	Risk of strains, sprains or fractures and drowning.	no	Minimise	<ul style="list-style-type: none"> Extreme care should be exercised operating ATV's, Tractors and vineyard vehicles in the vicinity of the drainage trenches, creeks and waterways such as wet land areas. All wet land areas are no go areas unless approval has been sought for work relating to those areas. Slow down when travelling near these areas and travel slowly to avoid accidental contact with the drains.
Frosted access roads and headlands late Autumn, winter and spring	Potential for serious possibly fatal injuries, associated with slippery ice roads and ground causing inability to brake effectively and vehicles coming off roads near steep cliffs or hitting other objects. Slips/trips while walking on these areas.	Yes	Minimise	<ul style="list-style-type: none"> Extreme care must be taken when driving vehicles on icy roads. Travelling very slowly, ensuring speeds are below 15km/hr especially when using the centre main road access from the lower to upper terrace from block 23 to block 14. Use 4wd where possible. Do not suddenly use brakes as vehicles are more likely to start sliding.
Burn injuries due to grass fires	Burn injuries	no	Minimise	<ul style="list-style-type: none"> If a fire is identified in the immediate vicinity of the vineyard report to Vineyard Manager or Supervisor. Do not attempt to fight the fire unless other people are with you and applicable fire fighting equipment is available. The fertigation unit can be used to fight fires, however, in any case call 111 for the Seddon fire station to respond.

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Hazards Identified	Harm that could occur	Is this hazard significant?	Eliminate? Isolate? Minimise?	Controls - Actions to Reduce Risk

Physical injuries due to general fatigue	General physic injuries such as back or muscle strain, cuts and abrasions.	no	Minimise	<ul style="list-style-type: none"> Ensure regular breaks are taken to reduce fatigue. Lunch and morning tea/afternoon tea breaks must be taken at all times. Limit excessive hours worked especially over night.
Fall injuries caused by accidental falls from ladders or working at height	Risk of strains, sprains or fractures	no	Isolate Minimise	<ul style="list-style-type: none"> Ladders should be inspected regularly for faults Refer to SOP on use of step ladders and ladders/working at height
Heavy lifting injuries - general	Musculoskeletal problems, eg back pain from handling heavy and/or awkward objects.	no	Minimise	<ul style="list-style-type: none"> Always follow safe lifting practices as outlined in safe lifting SOP
General & OOS injuries associated with office/administration work	Back/neck injuries Eye strain Repetitive Strain Injury	no	Minimise	<ul style="list-style-type: none"> Refer to SOP outlining safe work practices undertaking office & administration work
General injuries associated with general workshop duties	Musculoskeletal problems, eg back pain from handling heavy and/or awkward objects.	yes	Isolate Minimise	<ul style="list-style-type: none"> Refer to SOP which outlines the safe operating procedures applicable to performing general workshop duties

Colour key:	 Chemicals\products	 Vehicles	 Equipment	 General	 Vineyards	 Environment
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