

RootWave Pro Site-Specific Risk Assessment (SSRA)

SSRA completed by	
Date	
Time	
Site address	
Description of working location	
What3words or grid ref	
Landowner contact details	
Nearest mobile phone signal location	
Emergency services meeting point	
Nearest accident and emergency hospital	
Scope of work	

Name	First aider?	Emergency contact name	Emergency contact phone number	Emergency contact relationship to operator

Responsibilities	Operator initials
Driving to treatment location	
Weed treatment	
Inventory and equipment health	
Assessing risk, ensuring control measures are correctly implemented, monitoring safety	
Overall responsibility for the day and for safety	

Hazard	Harm	Who could be harmed	Guidance	Control measure	Acceptable?
Complex environment with numerous potential hazards	Electrical shock, crush injury	Operator and others	Utilise a second operator to control safety. Second operator has line of site to treatment, machine, and peripheral view of environment, and has emergency stop within reach.		

Hazard	Harm	Who could be harmed	Guidance	Control measure	Acceptable?
Parking	Electrical shock, crush, trip	Operator and others	Stable position: level ground away from steep bankings, ledges, steps, sheltered from high winds. Cable reach and trips. Access to emergency stop. Line of site to target weeds.		
Wearing medical device	Medical device dysfunction	Operator and others	Do not operate if possibility of someone with medical device within 5m.		
Wet or condensing conditions	Electric shock	Operator	Do not treat in wet or condensing conditions, stop and put on rain cover.		
Poor visibility level	Electric shock, trip	Operator and others	Do not treat if your ability to monitor hazards is impeded due to low lite levels or fog.		
Obstacles in lines of sight	Electric shock	Operator	Ensure from power module and treatment return in line of site.		
Pedestrians and access needs	Electric shock	Operator and others	Prevent pedestrians from getting within 5m of treatment zone; consider use of barriers and signs. Ensure redirecting pedestrians doesn't expose them to other risks e.g. traffic or uneven surfaces. Check for public access - paths, bridleways, byways. Don't leave debris such as cut down weeds in locations that could cause hazards to others.		
Animal interference	Electric shock	Operator, others, wildlife	Ensure operator cannot be startled by animals. Ensure animals cannot encroach on treatment site and any barriers are sufficiently substantial. Consider cattle, horses, wild animals, burrows, nesting birds, fish.		
Tall weeds that could collapse on operator	Electric shock	Operator	Chop down and rake debris to one side.		

Hazard	Harm	Who could be harmed	Guidance	Control measure	Acceptable?
Treating too close to conductive structures	Electric shock	Operator, invisible others	<p>4m (5 paces) space to exposed conductive cables pipes and conductive structures above, on or under ground.</p> <p>1 metre (1½ paces) space to sheathed or insulated cables above, on or under the ground.</p> <p>1 metre (1½ paces) exposed conductors suspended on insulating structures such as wooden or plastic posts or a concrete or brick wall.</p> <p>Obtain maps of underground installations from landowner.</p> <p>No part of treated weed can touch structure (if in a mat of weeds then no part of mat can touch structure).</p> <p>Do not allow arcs, reduce setting (H>M>L).</p> <p>Use cable avoidance tool and signal generator.</p> <p>Don't treat if you cannot be sure what's underground.</p> <p>Use the Shrouded Electrode Module to reduce the risk of accidentally touching the electrode to the conductive object.</p>		
Noise	Electric shock	Operator, others	<p>Ensure noise levels allow you to detect indications of hazards.</p> <p>If working in pairs check it is possible to easily communicate; consider using CB headset.</p>		
Access to emergency stop	Electric shock	Operator, others	<p>Clear path between operator (or safety marshal) and emergency stop.</p>		
People in water within 50 metres	Electric shock drowning	Others	<p>Ensure you have visibility of water within 50m.</p> <p>Be aware of potential divers and surface marker buoys.</p>		
Flammable materials or plant matter	Fire, burn	Operator and others	<p>Remove flammable materials before treatment.</p> <p>Remove any vegetation from Treatment Return site.</p> <p>Check for warm ground close to Treatment Return and move at least every hour .</p>		

Hazard	Harm	Who could be harmed	Guidance	Control measure	Acceptable?
Poisonous plants	Poison	Operator, others	<p>Check for existence of poisonous plants and the hazards they pose.</p> <p>Where suitable PPE consider using facemask.</p> <p>Don't increase risk of exposure to others.</p>		
Valued plants and protected plant species	-	Wildlife	<p>Check for presence of valued plants in patches of target weeds.</p> <p>Cut down weeds first to prevent accidental contact with valued plants.</p> <p>Don't treat weeds where there's a risk of direct contact with electrodes or arcs to valued plants.</p> <p>Treat weeds with care and on low setting.</p>		
Transport systems	Traffic accident	Operator, others, infrastructure	<p>Check that you are not crossing transport links.</p> <p>Check that your work does not cause distractions to passing traffic that could lead to an accident.</p> <p>Check transport links do not pose any invisible hazards e.g. live conductors.</p> <p>Check that you cannot accidentally expose infrastructure to treatment energy or damage it by walking over it.</p>		
Uneven ground, steps, ledges, steep bankings	Trips and falls	Operator	<p>Ensure operator can access weeds from a stable position.</p> <p>Wear safety harness if operating from an unstable position.</p>		
Cable and groundware trips	Trips and falls	Operator, others	<p>Ensure RootWave Pro cables do not cross pedestrian or transport access.</p>		
Please use this section to capture any additional risks to be managed:					

Sign-off

Name		Signature		Date	