

Appendix 8
Risk Assessment - Salting

Hazard Activity	Persons at Risk	Control	Action Person
<p>Mounting / Demounting the Salt Spreader</p>	<p>Drivers</p>	<p>Ensure personnel involved in the operation are trained and instructed in the correct procedure.</p> <p>The mounting and demounting of the spreader should only be carried out by persons trained in the procedure.</p> <p>The mounting and demounting of the spreader should only be carried out on a level, firm and marked concrete base, and in a well lit area.</p> <p>Ensure the mount/demount Load Safety Strap is properly adjusted and correctly fitted before mounting and demounting the spreader. The mounting/demounting cannot take place without the Load Safety Strap being in place.</p> <p>Personnel are prohibited from crossing underneath a demounted or partly demounted spreader. Other than the necessary personnel required to mount/demount the spreader unit, all other personnel must stand outside the working zone.</p> <p>After mounting, ensure the Load Safety Strap is only removed and stored when the spreader is firmly secured to the truck with the tie down strappings provided.</p> <p>After demounting, ensure the Load Safety Strap is only removed when the truck is not bearing any of the weight of the spreader and the support legs are down and locked.</p> <p>Ensure the Load Safety Strap and the tie down strappings comply with: <i>EN 12195 Part 1</i> and <i>EN 12195 Part 2</i>.</p> <p>Ensure that inspections of the straps and strappings are carried out by a competent person at intervals recommended by the Supplier/Manufacturer.</p>	<p>Senior Executive Engineer (Non-National Roads)</p> <p>Driver</p> <p>Driver</p> <p>Driver</p> <p>All Personnel</p> <p>Driver</p> <p>Driver</p> <p>Technical Services Supervisor</p> <p>Technical Services Supervisor</p>
<p>Mounting / Demounting the Salt Spreader (cont.)</p>	<p>Drivers</p>	<p>Ensure that only legibly marked and labelled straps and strappings are used.</p>	<p>Technical Services Supervisor</p>

Hazard Activity	Persons at Risk	Control	Action Person
		<p>Ensure that straps and strappings are never used when knotted.</p> <p>Visually examine straps and strappings before each use. Straps and strappings are not to be used if there are deformations, pronounced signs of wear or signs of corrosion.</p> <p>Ensure that repairs to straps and strappings are only carried out by a certified supplier.</p> <p>Ensure straps and strappings when not in use are stored in a cool and dry area. Straps and strappings must be protected against adverse weather conditions and chemically active environments.</p>	<p>Driver</p> <p>Driver</p> <p>Technical Services Supervisor</p> <p>Driver</p>
Loading of Salt into the Spreader	Drivers	<p>Teleporter, loading shovel or digger should only be operated out by a competent, qualified person.</p> <p>Manual controls for operating the hopper cover and flashing beacons are located at the rear of the spreader unit, and are accessible from ground level.</p> <p>Adequate lighting is to be provided at each loading location. The illumination of the loading area shall not be dependent on the lights on the loading shovel to maintain suitable levels of light. The level of light should not allow shadows in the loading zone.</p> <p>Other than the necessary personnel required to load the salt into the spreader, all other personnel must stand outside the loading zone.</p>	<p>CSCS Ticket Holder</p> <p>Driver</p> <p>Senior Executive Engineer (Non-National Roads)</p> <p>All Personnel</p>
Loading of Salt into the Spreader (cont.)	Drivers	Under no circumstances should personnel climb on to the top of the salt spreader during or after the loading operation.	All Personnel

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Fueling Spreader	Drivers	The operator will access the fuel tank using the mounted steps on the rear of the spreader. Ensure the steps are clean and free from defects. Use the handrails provided. Once on the platform, close over the top guard rail to prevent accidental fall from height.	Driver
Spreading Salt	Salt Spreading Personnel General Public	<p>Ensure that all salt spreading personnel receive appropriate training.</p> <p>Ensure that all salt spreading personnel are briefed at the start of each season.</p> <p>The routes of the Salt Spreader Unit are to be assessed and organised in a manner that will ensure the driver of the Salt Spreader Unit can carry out his duties in a safe and orderly manner. Turning areas for each route are to be identified.</p> <p>The Driver of the Salt Spreader must adhere to the Rules of the Road and comply with the Road Traffic Acts.</p> <p>The unit should never travel at a speed in excess of 80km/h. The speed limit should always be adhered to. Cognisance should be taken of weather conditions and the route to be traversed.</p> <p>Before each spreading operation, the operator will carry out a programme of prescribed checks. The Salt Spreading is not to commence unless these checks have been successfully completed.</p>	<p>Senior Executive Engineer (Non-National Roads)</p> <p>Senior Executive Engineer (Non-National Roads)</p> <p>Senior Executive Engineer (Non-National Roads)</p> <p>Driver</p> <p>Driver</p> <p>Driver</p>
Spreading Salt (cont.)	Salt Spreading Personnel General Public	Ensure the flashing amber beacons are working and turn them on before leaving the depot.	Driver

Hazard Activity	Persons at Risk	Control	Action Person
		<p>Manual control panel for salt spreader is located in the cab. Exercise caution when adjusting controls.</p> <p>In the event that the truck breaks down, contact is to be made with the General Services Supervisor (Machinery Yard) to arrange repairs. The hazard warning lights and amber flashing beacons are to be switched on during the breakdown. Ensure that high visibility clothing is worn before exiting the vehicle. Ensure extreme caution is exercised when exiting the vehicle. Remain alert to traffic and other road users. If safe to do so, put warning triangle at least 45 metres behind broken down vehicle on same side of the road. Remain vigilant and alert at all times. Ensure that you return to a safe area. Do not stand between vehicle and on-coming traffic. When the breakdown or emergency is over, ensure that the warning triangle is retrieved in a safe manner, remaining alert to other traffic .</p> <p>In the event that the spreader breaks down, the unit is to be returned to the depot for repair works. The spreading is to be completed using the spare spreader, if available, or using another Area's spreader once it has completed its own spreading operations.</p>	<p>Driver</p> <p>Driver</p> <p>Driver</p>
Spreading Salt (cont.)	Salt Spreading Personnel General Public	<p>In the event that the salt on the spreader blocks up, the unit is to be parked off the road, preferably in a well lit area. Under no circumstances should an attempt be made to clear a blockage while the truck is on the carriageway or hard shoulder. Turn off the conveyor at manual control panel located in the cab. The hazard warning lights and amber flashing beacons are to be switched on while the unit is parked up. Ensure that high visibility clothing is worn before exiting the vehicle. Ensure extreme caution is exercised when exiting the vehicle, walking to the rear and mounting the steps to adjust the 'gate'. Do not climb up onto the hopper. The hopper is not to be entered when the conveyor is moving or when the spreader is operating. Do not touch or come close to any moving parts. Return to the cab on the off-road side to turn on the conveyor. When the blockage is cleared, resume normal operation. Exercise care when emerging into traffic.</p>	Driver

Hazard Activity	Persons at Risk	Control	Action Person
		<p>Manual control panel for salt spreader is located in the cab. Exercise caution when operating controls.</p> <p>The hopper is not to be entered when the conveyor is moving or when the spreader is operating.</p> <p>Do not touch or come close to any moving parts.</p> <p>Stand a safe distance away from the spreader when it is operating.</p> <p>Do not walk behind the spreader when the salt is being spread. Flying material from the spreader can inflict injury.</p>	<p>Driver</p> <p>All Personnel</p> <p>All Personnel</p> <p>All Personnel</p> <p>All Personnel</p>
Unloading Spreader and Washing Down	Salt Spreading Personnel	Vehicle is fitted with reversing camera. Take care when reversing.	Driver
Unloading Spreader and Washing Down (cont.)	Salt Spreading Personnel	<p>Ensure spinner is switched off before emptying the hopper.</p> <p>Do not touch or come close to any moving parts.</p> <p>Stand a safe distance away from the conveyor when it is unloading. Note: the conveyor is operating at high speed.</p>	<p>Driver</p> <p>All Personnel</p> <p>All Personnel</p>
Slips, Trips and Falls	Salt Spreading Personnel	<p>High visibility vests/jackets are to be worn at all times when outside the cab of the truck. Jackets for personnel on the Gorey Bypass must be Class 3.</p> <p>Appropriate safety footwear with good soles must be worn at all times.</p>	<p>All Personnel</p> <p>All Personnel</p>

Hazard Activity	Persons at Risk	Control	Action Person
		<p>Ensure steps are clean and free from defects.</p> <p>Ensure all guards are in place before removing lumps of salt or checking quantity of salt in the hopper.</p> <p>Do not walk or stand on the grid at the top of the hopper.</p>	<p>Driver</p> <p>Driver</p> <p>All Personnel</p>
Working Close to the Public	General Public	When driving past pedestrians and in built up areas, ensure the rate of spread is adjusted to prevent members of the public from being sprayed with salt.	Driver
Lone Working	Driver	<p>Salting arrangements should be such that at least two salt spreader units are located and are deployed from the assigned depots. Work schedules are such that salt spreading personnel should start work at the same time at the depots.</p> <p>Carry mobile phone adequately charged with emergency contact details pre-stored.</p>	<p>Senior Executive Engineer (Non-National Roads)</p> <p>Driver</p>
Lone Working (cont.)	Driver	<p>Salt spreading units are fitted with GPS. Operations can be monitored especially in the event of an emergency arising .</p> <p>Adequate lighting is to be provided at each depot.</p>	<p>Senior Executive Engineer (Non-National Roads)</p> <p>Senior Executive Engineer (Non-National Roads)</p>
Driving Own Vehicle to and from the Depot	Driver / General Public	<p>Ensure the vehicle is roadworthy and legally compliant.</p> <p>Adhere to the Rules of the Road.</p> <p>Drive at an appropriate speed with due regard to weather and road conditions. Do not exceed the speed limit.</p>	<p>Driver</p> <p>Driver</p> <p>Driver</p>

Hazard Activity	Persons at Risk	Control	Action Person
		<p>Park in a safe manner. Ensure vehicle is locked and windows closed. Do not leave items in view in the vehicles.</p> <p>Organise salting activities and schedules so as not to create undue driver fatigue (e.g. 7:00 pm start and driver rotation)</p> <p>Salt spreading operations are arranged, where practicable, to take place prior to the onset of freezing temperatures.</p>	<p>Driver</p> <p>Senior Executive Engineer (Non-National Roads)</p> <p>Senior Executive Engineer (Non-National Roads)</p>