

Task Risk Control Sheet

Use of Road Rail Drainage Machine

RCS No: NR/L3/MTC/RCS0216/MP26
Issue: 2

Key Risks !

- Electrocution
- Noise
- Poor Communication
- High Pressure Injection
- Road Traffic Accident
- Slips, Trips & Falls
- Working in Darkness

Personnel Involved

E&P	
S&T	
Track	
Off Track	✓
Property	

Tools / Equipment Bars, Torches, Manhole lifters,

Plant Network Rail owned Drainage Machine

Key Risks	Controls	Implemented By
Key Use & Control of OTP	<ul style="list-style-type: none"> • See Risk Control Sheet NR/L3/MTC/RCS0216/MP01 - Use and Control of OTP 1, 2, 9 and 12 	
Pre use Checks	<ul style="list-style-type: none"> • Check hydraulic oil levels are at the correct levels before use • Check air filters are free from debris before use • All heavy nozzles, tools etc shall be securely stowed in the storage lockers. 	Team Leader Operator
Electrocution	<ul style="list-style-type: none"> • Do not use the boom under live overhead cables, or on lines with live third or fourth rail systems. • Isolation of OHL, third and fourth rails shall be in place before commencing jetting operations • See Risk Control Sheet NR/L3/MTC/RCS0216/GA20-Working adjacent to DC electrified rails Levels 1-5 • See Risk Control Sheet NR/L3/MTC/RCS0216/GA21-Working near electrified overhead line equipment 	Operator / Team Leader
Poor Communication	<ul style="list-style-type: none"> • The control of the "donkey" engine, vacuum & water controls shall be performed by a single person. • The operator of the water hose and vacuum hose shall lead communication with the control operator. • The command signals between the control operator and hose operators shall be agreed before commencing work, or at the change of any operative 	Team Leader / Operator
High Pressure Injection	<ul style="list-style-type: none"> • The pressure control shall be turned to the lowest setting before opening main water valve. • The operator of the water hose shall hold in the correct stance to achieve control in the event of an unexpected pressure surge. • Never point the hose at other personnel • Gloves shall be worn whilst using the machine • Eye protection to BS EN166.B (Goggles or visor) shall be worn whilst while using the machine • Never exceed the manufacturers recommended working pressure for the jetting hose 	Team Leader / Operator

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Key Risks	Controls	Implemented By
Noise	<ul style="list-style-type: none"> • Ear protection to EN352 shall be worn by all operatives within a 10m radius using the drainage machine • Switch off the plant when not in use 	All Staff / Team Leader / Operator
Biological/Chemical Hazard	<ul style="list-style-type: none"> • See Risk Control Sheet NR/L3/MTC/RCS0216/GH03 – Biological and Chemical Hazards 	All Staff
Slips Trips & Falls	<ul style="list-style-type: none"> • Before leaving the vehicle, the work area shall be thoroughly cleaned and any manhole covers that have been removed are replaced correctly. • Manhole/catchpit covers shall be replaced when not being cleansed • Any damage to drainage covers shall be clearly identified before leaving site • Operators shall be in possession of hand lamps to inspect pits when working at night • See Risk Control Sheet NR/L3/MTC/RCS0216/GH02 – Underfoot Conditions 	All Staff Team Leader Operator
Working in Darkness	<ul style="list-style-type: none"> • Worksites shall be illuminated before use. • For safe operation the Team Leader shall assess the level of lighting required, provided by the vehicle throughout jetting operations. 	Team Leader / All Staff
Injury from falling debris	<ul style="list-style-type: none"> • The vehicle is fitted with a rear safety barrier; which WILL be deployed before work at the rear of the vehicle. • Waste material shall NOT be tipped on track. • The Tank shall NOT be tipped without the rear door being open. • When moving the vehicle on site, with the rear door open, ALWAYS secure the door to the safety prop assembly 	All Staff Team Leader
Road Traffic Accident	<ul style="list-style-type: none"> • When operating the vehicles on road sites the working area shall be secured with the necessary traffic signs and controls 	Team Leader / Operator
Equipment Damage	<ul style="list-style-type: none"> • All equipment shall be returned to its correct stowage point • All equipment shall be disengaged and if applicable disconnected for stowage. • The main water supply to the jetting pump shall be switched off, the valve for this is located on the offside of the vehicle directly above the water pump, and this shall be done only when safe i.e. when access to the offside of the vehicle is safe. • The head of the jetting pump shall be drained using the drain tap on the lower right hand side of the pump failure to do this will result in damage in cold weather. • All equipment shall be securely stowed in its correct place before RRV movement • The boom shall be returned to its normal position before any RRV movements. • All parts of the machine shall be in gauge before any RRV movements 	All Staff Team Leader Operator