

Vegetation Control

Issue date: 11/04/08

Review date: 19/02/11

SWMS number: SMS-06-SW-1018	SWMS Name: Vegetation Control			SWMS Team : Signal Review Team
Custodian (Position): Signal Services & External Resources Manager	Assumptions: Site specific risks are addressed and assessed in pre- work briefing			
Approving Authority (Position): Safety and Quality Manager Commercial / Renewals	Equipment/Plant/Tools: <ul style="list-style-type: none">Vehicle Crane, guide ropesBrush Cutter (Whipper Snipper)Hedge Shears, Pruners, Machetes, Brush Hooks, AxesFuels	Records/Reporting: <ul style="list-style-type: none">Worksite Protection PlanPre-work BriefDaily Plant Checklist	Permits/Licences required: <ul style="list-style-type: none">Vehicle Crane certificate	Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group) Signal Services & External Resources Manager & SEQ Coordinator Asset Management Group Commercial / Renewals
Applicable Standards, Codes of Practice and guidance: <ul style="list-style-type: none">OH&S Act 2000OH&S Regulation 2001Rail Safety Regulation 2003RailCorp Network Rules & ProceduresRailCorp Safety Management System.Signalling Maintenance ProceduresTechnical Maintenance PlanSignal Engineering StandardsMSDS for all chemicals and hazardous Substances used on site	Inspection requirements: Nil	Service schedule: Nil	Training/Qualification required: <ul style="list-style-type: none">Construction Industry InductionTrack Safety Awareness or RISI (Rail Industry Safety Induction) And as specified below. <ul style="list-style-type: none">Vehicle Crane certificate	

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Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be Implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed In accordance with (name associated documentation)
1	Supervisor undertakes site pre-work briefing and gives local induction.	Staff not Listening to Pre-Work Brief	B -	Identify all hazards, Staff to ensure they are properly Briefed as to risks involving Worksite.	D	Team Leader / Work Group Leader / All Staff	Pre-Work Briefing SMS-06-FM-0163
2	Supervisor verifies competence of personnel doing the task and currency of permits for work.	Expired Competency Cards & Permits, Unqualified type of Personnel for the Task.	B -	Visual Inspection of Personnel Competency Cards & Currency of Permits	D	Team Leader / Work Group Leader	Safety Training & Competence SMS-11-SR-0128
3	Review SWMS and confirm it is current.	Use of a SWMS that is out of date	C -	Ensure SWMS is current and up to date.	D	Team Leader / Work Group Leader	SWMS & SWI's SMS-06-PR-0023
4	Verify that plant and equipment for the task is fit-for-purpose.	Plant & Equipment kept in poor working condition	C +	Conduct a Daily Plant Checklist	D	All Staff	Plant SMS-06-GD-0225
5	Access , Egress and Working on site	Hit by Train	A	Pre-work Brief including Worksite Protection Plan, Site Induction and Inspection	C+	Worksite Protection Officer	Network Rules & Procedures, Safety Knowledge Management SMS-18-SR-0098
		Slips, trips and falls	C-	Pre-work Brief to identify potential hazards	D	Worksite Protection Officer	Workplace Risk Management SMS-06-PR-0104
		Injury from vehicles and plant equipment	B+	Provide a Site Plan detailing safe access paths, parking and location of facilities	C-	Worksite Protection Officer	Plant SMS-06-GD-0225
6	Start-up and Maintenance	General Process Hazards					
		Cuts & Abrasions	C+	Use of PPE –Gloves	D	All Staff	PPE SMS-06-GD-0323
		Filling up with Fossil Fuels Skin / Eye / Breathing irritations	C+	Use of PPE –Gloves Fill in well Ventilated Areas MSDS for Chemicals	D		
		Injuries from Load / unload Equipment	B-	Ensure workers are kept well clear of lift path. Use competent crane operators Use guide ropes if required	C-	Vehicle Crane certificate Holders	Lifting Equipment Inspection SMS-16-FM-0089
		Starting up Brush Cutter (Whipper Snipper) Hand / Wrist Injury	C+	Start up using Proper Procedures	D	All Staff	Operating Manual Manual Handling Guide SMS-06-GD-0001

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7	Use of Brush Cutter (Whipper Snipper)	Flying Debris	C+	Only Operator to be in local vicinity, Check before cutting process, Other Employees to keep clear Use of PPE – Face Mask, Ear protection	D	All Staff	PPE SMS-06-GD-0323
		Cuts and Abrasions	C-	Use of PPE –Gloves	D		
		Vibration / Noise from Brush Cutter (Whipper Snipper)	C+	Use of PPE –Gloves, Ear protection	D		
		Changing Cord for Brush Cutter (Whipper Snipper)	B-	Switch Brush Cutter (Whipper Snipper) off before changing cord Use of PPE –Gloves	D	All Staff	PPE SMS-06-GD-0323
		Cuts , Slashes to Hands					
		Burns from Exhaust Muffler on Brush Cutter (Whipper Snipper)	B-	Use of PPE –Gloves, Employees to be Safety briefed about Hazard of Exhaust Mufflers	C-		
		Burns to Hands, Body					
8	Use of Hedge Shears, Pruners, Machetes, Brush Hooks, Axes	Injury to Legs / Body	C+	Use of PPE –Leg Spats	C-		
		Cuts and Abrasions	C-	Use of PPE - Gloves	D	All Staff	PPE SMS-06-GD-0323
		Loss of Fingers, Bodily Injury	B+	Use of PPE –Gloves , Employees to be instructed / Safety Briefed about Hazards of Sharp tools, Instruments	C+	All Staff	PPE SMS-06-GD-0323 First Aid SMS-06-PR-0039
		Slips and Falls walking around Worksite	C-	Identify hazards in Pre-work Brief	D	All Staff	PPE SMS-06-GD-0323
		Falling Branches	B-	Use of PPE –Gloves, Face guard, Other Employees to keep clear.	C-		

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NOTE: Each work group or team member must sign off on the SWMS to acknowledge they have been briefed about or instructed in the SWMS

Team member name (Please print)	Team Member signature	Instructor/ Briefer name	Date	Team member name (Please print)	Team Member signature	Instructor/ Briefer name	Date

RailCorp Level 2 Risk Matrix - Regional & Local (Workplace)			Likelihood/Frequency						
			Event Frequency	Less than once every 1000 years	Once every 100 to 1,000 years	Once every 10 to 100 years	Once every 1 to 10 years	More than once per year up to and including 10 times per year	More than 10 times per year
			Historical (Likelihood)	Unheard of in the rail industry	Has occurred once or twice in the rail industry	Has occurred many times in the rail industry, but not in NSW	Has occurred once or twice in NSW	Has occurred frequently in NSW	Has occurred frequently at specific locations
			Workplace Predictive (Likelihood)	Not expected to occur	May occur only in exceptional circumstances	Could occur at some time but not likely	You would expect it to occur at least once in the next 10 years performing similar activities	You would expect it to occur at least once this year performing similar activities	You would expect it to occur at least once this month performing similar activities
				F1	F2	F3	F4	F5	F6
Consequence			Incredible	Improbable	Remote	Occasional	Probable	Frequent	
>10 Fatalities	C6	Disastrous	B-	B+	A	A	A	A	
2-10 Fatalities	C5	Catastrophic	C+	B-	B+	A	A	A	
1 Fatality (2-10 Major Injuries)	C4	Critical	C-	C+	B-	B+	A	A	
1 Major Injury	C3	Major	D	C-	C+	B-	B+	A	
1 or more Minor Injuries	C2	Minor	D	D	C-	C+	B-	B+	
First aid treatment, or illness/injury not requiring treatment	C1	Negligible	D	D	D	C-	C+	B-	

Definition for Use - Regional & Local level (Workplace)

Used for workplace hazards and safety risks that do not consider the whole of the network. Indicatively this matrix is appropriate for use where the hazards under consideration are up to 10% of the total network exposure. This includes regional and local workplace risk assessments.

As an example, the Level 2 scale would be used when examining the risk of slips, trips and falls on specific RailCorp platforms within a region or at a particular station, or the risk of fire within a depot.

There are 3 options for descriptors which can be used to determine the frequency category. One set of descriptors is provided for frequency, one for historical likelihood, and one for predictive likelihood in the workplace. Choose the most appropriate.

To score the risk, follow the steps:

1. Identify the magnitude of the credible consequence if the risk were to occur. If applicable, risks should be considered in terms of the safety (this matrix), commercial and environmental impact (using other matrices).
2. Identify the likelihood of this level of consequence occurring. (This is done after considering the effectiveness of the current controls in place)
3. Score the risk using the combination of likelihood and consequence ranking.

Note: Where there are a range of credible consequences which may lead to a different level or risks and/or where the controls may be different. It may be useful to score the risk more than once.