

JOB SAFETY AND ENVIRONMENTAL ANALYSIS

Project Name: **Kiribati Road Rehabilitation Project**

JSEA No: **020**

X016 2536

Rev: 1 Page 1 of 5

Activity/Location: **Clearing & Grubbing**

Approved By

Mark Liersch

PREPARED/REVIEWED	
NAME	DATE
Mark Lees	19 August
Tim Grant	19 August
James Fruh	19 August
Mike Wynne	19 August
Mark Liersch	19 August
Michael Wynne (reviewed)	30 December 2013

SAFE WORK INSTRUCTIONS (SWIs) & ENVIRONMENT PROTECTION INSTRUCTIONS (EPIs) RELEVANT TO THIS WORK			
K001-Operating Plant	<input checked="" type="checkbox"/>	K044-Exposure to Noise	<input checked="" type="checkbox"/>
K002-Using Powered Small Plant	<input checked="" type="checkbox"/>	K051-Welding & Cutting Drums & Vessels	<input type="checkbox"/>
K003-Using Laser Survey Equipment	<input type="checkbox"/>	K052-Stacking & Storage of Materials	<input checked="" type="checkbox"/>
K004-Using Hand Tools	<input checked="" type="checkbox"/>	K053-Trenching & Excavations	<input type="checkbox"/>
K113 Electrically Powered Hand Tools	<input type="checkbox"/>	K126 Concrete Pumping	<input type="checkbox"/>
K115 Compressed Air	<input type="checkbox"/>	K129 Hazardous Chemicals – Storage & use	<input type="checkbox"/>
K116 Oxyacetylene	<input type="checkbox"/>	K072-Working with Asbestos	<input type="checkbox"/>
K114 Explosive Powered Tools and Power Actuated Tools	<input type="checkbox"/>	K130 Manual Handling	<input checked="" type="checkbox"/>
K108 Ladders Use	<input type="checkbox"/>	K132 Personal Protective Equipment	<input checked="" type="checkbox"/>
K010-Erecting & Using Mobile Scaffolding	<input checked="" type="checkbox"/>	K083-Communicable Disease	<input checked="" type="checkbox"/>
K011-Erecting & Using Fixed Scaffolding	<input type="checkbox"/>	K136 Fitness for Work	<input checked="" type="checkbox"/>
K012-Lifting & Slinging	<input type="checkbox"/>		
K117 Electric Arc Welding Equipment	<input type="checkbox"/>	L001-Soil Erosion Sediment. & Surface Run-Off	<input checked="" type="checkbox"/>
K014-Using Electrical Equipment	<input type="checkbox"/>	L002-Disturbance to Terrestrial Flora & Fauna	<input checked="" type="checkbox"/>
K015-Operating Cranes	<input type="checkbox"/>	L003-Disturbance to Aquatic Flora & Fauna	<input type="checkbox"/>
K016-Operating Light Vehicles	<input type="checkbox"/>	L004-Noise Emissions	<input checked="" type="checkbox"/>
K018-Using a Workbox	<input type="checkbox"/>	L005-Atmospheric Emissions	<input type="checkbox"/>
K024-Demolition	<input checked="" type="checkbox"/>	L006-Vibration	<input type="checkbox"/>
K031-Work Near Plant	<input checked="" type="checkbox"/>	L007-Storage, Maint. & Refuelling Machinery	<input checked="" type="checkbox"/>
K032-Work Near Underground Services	<input checked="" type="checkbox"/>	L008-Storage & Handling of Hazardous Subs.	<input type="checkbox"/>
K033-Work Near Overhead Power Lines	<input type="checkbox"/>	L009-Social Impact	<input checked="" type="checkbox"/>
K124 Water Awareness	<input type="checkbox"/>	L010-Land Restoration & Rehabilitation	<input type="checkbox"/>
K035-Working Close to Traffic	<input checked="" type="checkbox"/>	L011-Potential for Bush Fires	<input type="checkbox"/>
K105 Height	<input checked="" type="checkbox"/>	L012-Infectious Plant, Disease & Weeds	<input type="checkbox"/>
K037-Sunburn & Skin Cancer	<input checked="" type="checkbox"/>	L013-Solid and Liquid Waste	<input checked="" type="checkbox"/>
K038-Thermal Stress-Heat	<input checked="" type="checkbox"/>	L014-Disturbance to Cultural Heritage	<input type="checkbox"/>
K039-Thermal Stress-Cold	<input type="checkbox"/>	L015-Land Contamination	<input type="checkbox"/>
K040-Remote & Isolated Work	<input type="checkbox"/>	L016-Visual Amenity	<input type="checkbox"/>
K041-Housekeeping-Access & Egress	<input checked="" type="checkbox"/>	L017-Energy & Water Consumption	<input checked="" type="checkbox"/>
K043-Cyclonic Conditions	<input type="checkbox"/>	L018-Acid Sulphate Soils	<input type="checkbox"/>

PREPARATION NOTES

- Input from persons doing the work.
- Be thorough when describing the basic job steps.
- Preferably use control measures that engineer out the risk e.g. handrails, guarding.
- Refer to the relevant CEPs, SWIs or EPIs in the control measures.
- Make sure all hazards related to the work site are identified and controlled - there may be hazards that are not addressed in the CEP, SWI or EPI.
- Supervisor to provide relevant information (methodology, technical details) from CEPs and Project Risk Register.

PPE			
Standard PPE applicable to all activities as noted on this JSEA are as follows:			
Safety Footwear	X	Safety Helmet	X
Long Trousers	<input checked="" type="checkbox"/>	High Visibility Clothing	X
Safety Glasses	<input checked="" type="checkbox"/>	Long Sleeved Shirt	<input checked="" type="checkbox"/>
		Gloves	<input checked="" type="checkbox"/>
			<input type="checkbox"/>
Note: Other specific PPE is to be identified as part of this risk assessment and listed under "How to Control the Risk" on the following pages. (X indicates use is mandatory)			

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Any significant hazards as defined in the Health & Safety in Employment Act 1992, Part 2 must be **Eliminated** / **Isolated** / **Minimised** and result recorded in the end column.

Basic Job Step	What Can Harm You or the Environment	What Can Happen (Risks)	How To Control the Risk (Reduce)	E/I/M
Clearing & Grubbing	Moving Plant	Personal Injury	<ul style="list-style-type: none"> Stay in line of sight of operator Keep clear of machine Spotter to look out for members of the public especially children 	M
	Working close to traffic	Personal Injury	<ul style="list-style-type: none"> Traffic Control in place before work starts Traffic control measures to be monitored and adjusted as required 	I
	Earth trimming	Disease	<ul style="list-style-type: none"> Wear gloves handling waste material Wash hands before eating Report contaminated ground 	M
	Soil erosion & Sedimentation	Silt to stormwater	<ul style="list-style-type: none"> Shape the cleared ground to promote seepage & avoid runoff Silt curtain to be used if above not possible 	E
	Hot weather	Sunburn & Heat Exhaustion	<ul style="list-style-type: none"> Provide clean water to drink Sunscreen Brims on safety hats 	M
	Falling branches, coconuts	Personal Injury	<ul style="list-style-type: none"> Cordon off if possible otherwise use spotter Stop traffic flow for branch falling if needed 	I
	Damage to property	Community relationship damaged	<ul style="list-style-type: none"> Ensure clearance work is as per engineer instruction only Stop if activity will cause damage & notify supervisor 	E

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Basic Job Step	What Can Harm You or the Environment	What Can Happen (Risks)	How To Control the Risk (Reduce)	E/I/M
	Falling off work platform	Personal injury	<ul style="list-style-type: none"> • Install handrail • Truck cannot move when workers are trimming • Workers off platform to the deck when truck is moving • Spotter for truck driver to tell him where & when to move. • Spotter to inform workers when it is safe to continue work 	M
	Using bush knife	Cuts	<ul style="list-style-type: none"> • Swipe knife away from others 	I
	Manual Handling	Personal Injury	<ul style="list-style-type: none"> • Do not lift more than what you are capable of • Ask someone to help • Or use the machine 	M
	Hole in ground	Trip, fall	<ul style="list-style-type: none"> • Backfill where tree stumps have been removed straight away • Fence off if cannot backfill 	I
	Noise from chainsaws, plate compactor, mulcher	Personal Injury	<ul style="list-style-type: none"> • Wear ear protection • Be aware if ear protection is being used by others – Visible communication • Mulcher only to be used under direct supervision from McConnell Dowell Supervisor 	I
			<ul style="list-style-type: none"> • Chainsaw protection forestry Safety helmet with Visor and ear muffs /Gloves/Safety boots/wrist to ankle cover 	M
	Underground Services	Electrocution	<ul style="list-style-type: none"> • PUB to disconnect power prior to removal of tree stumps or any excavations including any clearing and grubbing • Excavation permit to be in place 	I
			<ul style="list-style-type: none"> • Cable detection to be completed the day prior to work commencing • Site engineers to clearly mark any known underground services with Blue paint before work commences 	I

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Basic Job Step	What Can Harm You or the Environment	What Can Happen (Risks)	How To Control the Risk (Reduce)	E/I/M
	Removing Car bodies	Personal injury Pollution	Correct sling and rigging Lift plan to be in place Correct disposal of any oils and lubricants Never stand under any load being lifted Spill kit to on site	E/M
	UXO	Explosion Death	Ground survey by UXO specialist Clearance certificate to be provided	M

