



FIELDWICKS

CRUSHING & SCREENING

Occupational Health and Safety

PLANT RISK ASSESSMENT

Plant Description:	KOMATSU 270-8	Plant ID:		Assessment No:	PRA-13
Prepared by: Date:	Greg Fieldwick 24/10/2021	Approved by: Date:	Steven Fieldwick 24/10/2021		

Reference Documents:

Fieldwicks SW101 Excavator Operations
Fieldwicks Employee Induction Handbook
Manufacturers Maintenance Manual
Manufacturers Operating Manual

Note : Refer to the Risk Matrix set out in OH&SP No. 004 for calculation of risk level

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Entanglement:</p> <p><i>Hair, clothing, gloves, or other materials becoming entangled with moving parts of the plant</i></p>	16	<ul style="list-style-type: none"> Licensed and Competent Operators No unauthorised personnel allowed at the controls of the machine Fieldwicks SWP101 to be read and understood by all operators Machine guarding in place and checked on a daily basis as part of start up procedures No person permitted to be inside the operating radius of a machine unless he is authorised and has made contact with the operator All obstacles that may be in the path of a machine are removed before work commences Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist Isolation Procedures are undertaken before any maintenance activity Machine fitted with movement alarm 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> Driver only permitted in cab during operation 	
<p>Crushing:</p> <p><i>Uncontrolled or unexpected movement of the plant</i></p>	16	<ul style="list-style-type: none"> Licensed and Competent Operators No unauthorised personnel allowed at the controls of the machine Fieldwicks SWP101 to be read and understood by all operators Operator Manual Located in Cab of Machine at all times Warning decals on machine highlighting pinch points / close clearance Machine controls have their functions labelled Machines fitted with pattern changes have warning signage to advise operator to check before moving No person permitted to be inside the operating radius of a machine unless he is authorised and has made contact with the operator Isolation Procedures are undertaken before any maintenance activity Machine fitted with movement alarm 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> Machine fitted with warning lights Machine fitted with rear view mirrors 	
<p>Cutting, Stabbing, Puncturing:</p> <p>Contact with moving parts of machine, sharp objects</p>	16	<ul style="list-style-type: none"> Licensed and Competent Operators No unauthorised personnel allowed at the controls of the machine Fieldwicks SWP101 to be read and understood by all operators Operator Manual Located in Cab of Machine at all times Machine controls have their functions labelled All obstacles that may be in the path of a machine are removed before work commences Machine booms, attachments etc are always lowered to the ground before any attempt to repair or inspect them Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist Isolation Procedures are undertaken before any maintenance activity 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> Regular job briefing take place between all relevant stakeholders when machine is operating 	
<p>Shearing:</p> <p><i>Body parts sheared between two parts of the machine or other structures</i></p>	16	<ul style="list-style-type: none"> Licensed and Competent Operators No unauthorised personnel allowed at the controls of the machine Operator Manual Located in Cab of Machine at all times Warning decals on machine highlighting pinch points / close clearance Machine controls have their functions labelled No person permitted to be inside the operating radius of a machine unless he is authorised and has made contact with the operator Isolation Procedures are undertaken before any maintenance activity Machine fitted with movement alarm Machine fitted with warning lights Lockable cab to prevent unauthorised access Driver only permitted in cab during operation 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Striking:</p> <p><i>During operation of plant, moving parts of plant, movement of plant</i></p>	16	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Warning decals on machine highlighting pinch points / close clearance • Machine controls have their functions labelled • Machines fitted with pattern changes have warning signage to advise operator to check before moving • No person permitted to be inside the operating radius of a machine unless he is authorised and has made contact with the operator • All obstacles that may be in the path of a machine are removed before work commences • Regular job briefing take place between all relevant stakeholders when machine is operating • Machine fitted with movement alarm • Machine fitted with warning lights 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> Machine fitted with Spot lights for working in low of no natural light Machine fitted with rear view mirrors 	
<p>High Pressure Fluid:</p> <p>Contact with high pressure fluids during operation or maintenance</p>	16	<ul style="list-style-type: none"> Licensed and Competent Operators No unauthorised personnel allowed at the controls of the machine Operator Manual Located in Cab of Machine at all times Machine controls have their functions labelled Machines fitted with pattern changes have warning signage to advise operator to check before moving Machine booms, attachments etc are always lowered to the ground before any attempt to repair or inspect them Daily pant inspections before the beginning of a shift are used to identify any potential machine issues that may exist All fluid lines are relieved on any pressure before they are disconnected and/or repaired Isolation Procedures are undertaken before any maintenance activity 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> Regular job briefing take place between all relevant stakeholders when machine is operating Lockable cab to prevent unauthorised access Driver only permitted in cab during operation 	
<p>Electrical:</p> <p><i>Contact with live electrical conductors during operation, overload of electrical circuits, electrical leads and cables</i></p>	23	<ul style="list-style-type: none"> Licensed and Competent Operators No unauthorised personnel allowed at the controls of the machine Fieldwicks SWP101 to be read and understood by all operators Operator Manual Located in Cab of Machine at all times All obstacles that may be in the path of a machine are removed before work commences Machine booms, attachments etc are always lowered to the ground before any attempt to repair or inspect them Daily pant inspections before the beginning of a shift are used to identify any potential machine issues that may exist Isolation Procedures are undertaken before any maintenance activity Machine is fitted with circuit breakers and fuses Warning signage inside machine to warn of contact with overhead powerlines Machine fitted with movement alarm Machine fitted with UHF Radio Machine fitted with Spot lights for working in low of no natural light Machine fitted with rear view mirrors 	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Explosion:</p> <p><i>Explosion of onboard fuel supply or other substances</i></p>	16	<ul style="list-style-type: none"> • Operator Manual Located in Cab of Machine at all times • All obstacles that may be in the path of a machine are removed before work commences • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • All fluid lines are relieved on any pressure before they are disconnected and/or repaired • Isolation Procedures are undertaken before any maintenance activity • Machine is fitted with circuit breakers and fuses • Regular job briefing take place between all relevant stakeholders when machine is operating 	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Slipping, Tripping, Falling:</p> <p><i>Uneven or slippery surfaces, poor housekeeping, other obstacles, poor access and egress, lack of handrails</i></p>	17	<ul style="list-style-type: none"> Licensed and Competent Operators No unauthorised personnel allowed at the controls of the machine Fieldwicks SWP101 to be read and understood by all operators Operator Manual Located in Cab of Machine at all times Machine booms, attachments etc are always lowered to the ground before any attempt to repair or inspect them Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist Isolation Procedures are undertaken before any maintenance activity Handrails in place to allow for safe access and egress All personnel accessing and egressing machine must always maintain a 3 point contact Slip resistant ladder rails and foot wells are fitted Machine fitted with Spot lights for working in low of no natural light 	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Ergonomic:</p> <p><i>Seating, repetitive body movements, inadequate lighting, poor vision from normal operating position</i></p>	13	<ul style="list-style-type: none"> • Licensed and Competent Operators • Handrails in place to allow for safe access and egress • All personnel accessing and egressing machine must always maintain a 3 point contact • Slip resistant ladder rails and foot wells are fitted • Machine is fitted with a seat belt and warning signage • Machine fitted with movement alarm • Machine fitted with warning lights • Machine fitted with UHF Radio • Machine fitted with Spot lights for working in low of no natural light • Ergonomically designed , fully adjustable operator seat in stalled • Machine fitted with rear view mirrors • Lockable cab to prevent unauthorised access • Windscreen wipers fitted • Driver only permitted in cab during operation 	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Suffocation:</p> <p><i>Exhaust Gases, atmospheric contamination, other fume sources</i></p>	16	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP101 to be read and understood by all operators • Operator Manual Located in Cab of Machine at all times • Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist • All fluid lines are relieved on any pressure before they are disconnected and/or repaired • Isolation Procedures are undertaken before any maintenance activity 	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>High Temperature:</p> <p><i>Engine or exhausts, fluids or other exposure to high temperatures</i></p>	16	<ul style="list-style-type: none"> Licensed and Competent Operators No unauthorised personnel allowed at the controls of the machine Fieldwicks SWP101 to be read and understood by all operators Operator Manual Located in Cab of Machine at all times Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist Isolation Procedures are undertaken before any maintenance activity 	5

Plant Specific Control Measures	Control Measure Description
<p>Rear View Monitoring System</p> <p>Falling Objects Guard System (FOGS)</p>	<p>Allows the operator to view the rear of the machine using a camera from a monitor in the cab. Thus reducing the risk of striking other plant or objects.</p> <p>Gives added protection to the operator and cab through a steel bolt on FOGS.</p>

Note : Refer to the Risk Matrix set out in OH&SP No. 004 for calculation of risk level