

Occupational Health and Safety

PLANT RISK ASSESSMENT

Plant Description:	Powerscreen 1400	Assessment No:	PRA-04
Prepared by: Date:	Greg Fieldwick 24/10/2021	Approved by: Date:	Steven Fieldwick 24/10/2021

Reference Documents:

Fieldwicks SW105 Powerscreen Operations
 Fieldwicks SW109 Screen Change 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
Entanglement: <i>Hair, clothing, gloves, or other materials becoming entangled with moving parts of the plant</i>	20	- Licensed and Competent Operators - No unauthorised personnel allowed at the controls of the machine - Fieldwicks SWP105, SWP109 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 in close proximity to moving belts, rollers, roller mounts. (i.e trying to complete repairs with the machine running) - Personnel to wear correctly fitted clothing and PPE - Emergency stop buttons fitted - 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 - Use of remote control or umbilical cord to move machine	8

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
Crushing: <i>Uncontrolled or unexpected movement of the plant</i>	20	- Licensed and Competent Operators - No unauthorised personnel allowed at the controls of the machine - Fieldwicks SWP105, SWP109 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 in close proximity to moving belts, rollers, roller mounts. - Personnel to wear correctly fitted clothing and PPE - Emergency stop buttons fitted - 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 Use of remote control or umbilical cord to move machine	8

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
Cutting, Stabbing, Puncturing: <i>Contact with moving parts of machine, sharp objects</i>	20	- Licensed and Competent Operators - No unauthorised personnel allowed at the controls of the machine - Fieldwicks SWP105, SWP109 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 in close proximity to moving belts, rollers, roller mounts. - Personnel to wear correctly fitted clothing and PPE - Emergency stop buttons fitted - 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 - Use of remote control or umbilical cord to move machine	8

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
Shearing: <i>Body parts sheared between two parts of the machine or other structures</i>	16	• All persons to stand clear when lowering and raising dirt conveyor • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks SWP105, SWP109 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 in close proximity to moving belts, rollers, roller mounts. • Personnel to wear correctly fitted clothing and PPE • Emergency stop buttons fitted • 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 • Use of remote control or umbilical cord to move	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		machine	
Striking: <i>During operation of plant, moving parts of plant, movement of plant</i>	16	- Licensed and Competent Operators - No unauthorised personnel allowed at the controls of the machine - Fieldwicks SWP105, SWP109 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 in close proximity to moving belts, rollers, roller mounts. - Personnel to wear correctly fitted clothing and PPE - Emergency stop buttons fitted - 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 - Use of remote control or umbilical cord to move machine	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
High Pressure Fluid: <i>Contact with high pressure fluids during operation or maintenance</i>	16	- Licensed and Competent Operators - No unauthorised personnel allowed at the controls of the machine or to carry out maintenance - Fieldwicks SWP105, SWP109 to be read and understood by all operators - Check leaks with cardboard not hands - Personnel to wear correctly fitted clothing and PPE - Emergency stop buttons fitted - Daily plant inspections before the beginning of a shift are used to identify any potential oil leaks that may exist - Isolation Procedures are undertaken before any maintenance activity	2
Electrical: <i>Contact with live electrical conductors during operation, overload of electrical circuits, electrical leads and cables</i>	23	- Licensed and Competent Operators - No unauthorised personnel allowed at the controls of the machine or to carry out maintenance - Fieldwicks SWP105, SWP109 to be read and understood by all operators	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		- Operator Manual Located on 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 - Machine is fitted with circuit breakers and fuses - JSA to assess risks from on site electricity	
Explosion: <i>Explosion of onboard fuel supply or other substances</i>	16	- Operator Manual Located on 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 - Fieldwicks SWP105, SWP109 to be read and understood by all operators	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
Slipping, Tripping, Falling: <i>Uneven or slippery surfaces, poor housekeeping, other obstacles, poor access and egress, lack of handrails</i>	17	- Licensed and Competent Operators - No unauthorised personnel allowed at the controls of the machine or to carry out maintenance - Fieldwicks SWP105, SWP109 to be read and understood by all operators - Operator Manual Located on 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 - Handrails and ladders in place to allow for safe access and egress - All personnel accessing and egressing machine must always maintain a 3 point contact - Operators to move over and around machine in a careful and calm manner - Operators to take particular care moving around machine when wet. - Any work carried out above 1.5m must be on an approved platform	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
Ergonomic: <i>Repetitive body movements, inadequate lighting, poor vision from normal operating position</i>	13	- Licensed and Competent Operators - Use Handrails and platforms provided for safe access and egress - All personnel accessing and exiting machine must always maintain a 3 point contact - Provide additional lighting if operating during night time.	5
Suffocation: <i>Exhaust Gases, atmospheric contamination, other fume sources</i>	16	- Licensed and Competent Operators - No unauthorised personnel allowed at the controls of the machine - Fieldwicks SWP105, SWP109 to be read and understood by all operators - Operator Manual Located on Machine at all times - Daily plant inspections before the beginning of a shift are used to identify any potential machine issues that may exist - Machines not to be operated within an enclosed building without appropriate venting	2

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
High Temperature: <i>Engine or exhausts, fluids or other exposure to high temperatures</i>	16	- Licensed and Competent Operators - No unauthorised personnel allowed at the controls of the machine - Fieldwicks SWP105, SWP109 to be read and understood by all operators - Operator Manual Located on 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 - Machine fluids allowed to cool prior to maintenance works being carried out. - Engine unit covers to be kept in place during operation - Appropriate PPE gear to be worn	5
		Licensed and Competent Operators	

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<i>Falling / Moving objects</i>	20	• Appropriate PPE gear worn • All personnel to keep clear of operating plant unless necessary • When close to operating plant remain vigilant and do not turn back to machine	8

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