



Occupational Health and Safety

PLANT RISK ASSESSMENT

Plant Description:	Vertical Shaft Impactor	Assessment No:	PRA-11
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Prepared by: Date:	Greg Fieldwick 24/10/2021	Approved by: Date:	Steven Fieldwick 24/10/2021

Reference Documents:

Fieldwicks SWP104 VSI 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: Hair, clothing, gloves, or other materials becoming entangled with moving parts of the plant</p>	20	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks , SWP104 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

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Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Crushing: <i>Uncontrolled or unexpected movement of the plant</i></p>	20	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks , SW104 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 <p>Use of remote control or umbilical cord to move machine</p>	8

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Cutting, Stabbing, Puncturing: Contact with moving parts of machine, sharp objects</p>	20	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks , SWP104 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

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Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Shearing: <i>Body parts sheared between two parts of the machine or other structures</i></p>	16	<ul style="list-style-type: none"> • 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 , SWP104 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
<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 • Fieldwicks , SWP104 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
<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 or to carry out maintenance • Fieldwicks , SWP104 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
<p>Electrical:</p> <p>Contact with live electrical conductors during operation, overload of electrical circuits, electrical leads and cables</p>	23	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine or to carry out maintenance • Fieldwicks , and SWP104 to be read and understood by all operators 	11

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> • 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 • Fieldwicks , and SWP104 to be read and understood by all operators 	
<p>Explosion:</p> <p>Explosion of onboard fuel supply or other substances</p>	16	<ul style="list-style-type: none"> • 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 	11

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Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<ul style="list-style-type: none"> • Isolation Procedures are undertaken before any maintenance activity • Machine is fitted with circuit breakers and fuses • Fieldwicks , and SWP104 to be read and understood by all operators 	
<p>Slipping, Tripping, Falling:</p> <p>Uneven or slippery surfaces, poor housekeeping, other obstacles, poor access and egress, lack of handrails</p>	17	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine or to carry out maintenance • Fieldwicks , and SWP104 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 	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<p>maintenance activity</p> <ul style="list-style-type: none"> • 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 	
<p>Ergonomic:</p> <p><i>Repetitive body movements, inadequate lighting, poor vision from normal operating position</i></p>	13	<ul style="list-style-type: none"> • Licensed and Competent Operators • Use Handrails and platforms provided for safe access and egress • All personnel accessing and egressing machine must always maintain a 3 point contact • Provide additional lighting if operating during night time. • Machine fitted with UHF Radio 	5

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Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
<p>Suffocation:</p> <p>Exhaust Gases, atmospheric contamination, other fume sources</p>	16	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks , and SWP104 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
<p>High Temperature:</p> <p>Engine or exhausts, fluids or other exposure to high temperatures</p>	16	<ul style="list-style-type: none"> • Licensed and Competent Operators • No unauthorised personnel allowed at the controls of the machine • Fieldwicks , and SWP104 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 	5

Hazards/Risk Factors	Uncontrolled Risk Score	Control Measures	Controlled Risk Score
		<p>are used to identify any potential machine issues that may exist</p> <ul style="list-style-type: none"> • 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 	
<i>Falling / Moving objects</i>	20	<ul style="list-style-type: none"> • Licensed and Competent Operators • 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