

RISK ASSESSMENT

Assessment Title:	Operation of the Mobile Crusher	Reference Number:	OPRA005.01
		Company Name:	Oakbank Plant Hire Ltd
		Department / Location:	Oakbank Plant Hire Ltd

Risk Assessment Matrix

Risk Ratings Highlighted in 'Orange' are to be discussed– potential improvements. Risk Ratings Highlighted in 'Red' need immediate action.

<i>Risk = Likelihood x Consequence (Multiply 'X' axis by 'Y' axis)</i>		Consequence (Y)	Catastrophic (5)	5	10	15	20	25
1 – 4	Acceptable		Major (4)	4	8	12	16	20
5 – 9	Adequate		Moderate (3)	3	6	9	12	15
10 – 15	Tolerable		Minor (2)	2	4	6	8	10
16 – 25	Unacceptable		Insignificant (1)	1	2	3	4	5
			Remote (1)	Unlikely (2)	Possible (3)	Probable (4)	Certain (5)	
			Likelihood (X)					

Any queries arising from this risk assessment shall be addressed immediately with Line Management / Health & Safety Manager



Hazard(s)	Risks of Harm	Persons at Risk	Risk Rating(s)			Existing Control Measures	Residual Risk Rating(s)		
	<i>Related to hazard identified</i>	<i>Persons at risk from identified hazards</i>	X	Y	R	<i>Existing controls measures implemented when carrying out task or using associated plant / tooling</i>	X	Y	R
Workplace Transport (Vehicle / Plant Movements) (Loader & Crusher)	Collisions with persons, vehicles / plant or structures	Site operatives, contractor, visitors or any persons in the vicinity	4	4	16	<ul style="list-style-type: none"> Plant movements within the area where crushing is taking place to be temporarily restricted to allow the crusher to be 'set up'. Plant movements including loading of the crusher to be suspended where there is a requirement for persons to enter the work area. Access to vehicles and plant to be restricted to competent authorised persons only. Drivers to be made aware of the safe operating limitations of their vehicle, particularly, relating to safe maximum loads and gradients. Pre-use visual inspections to be carried out on any plant being operated to load, attention to be given to braking system, steering lighting, mirrors, cab controls and any other safety features i.e. flashing beacons & reversing alarms. Drivers are encouraged to report defects or problems, any reported problems will be rectified quickly and if they are safety critical, the machine should be taken out of use until they are repaired. On site plant to be operated within site speed limits, speed of travel should always be adjusted to suit the terrain and the prevailing weather. Vehicle must not be driven if the drivers' abilities are impaired by ill health, poor vision, prescribed drugs or illegal drugs, or alcohol. Hi – visibility clothing to be worn by all operatives in the general vicinity of crushing operations. 	2	4	8
Instability of Crusher	Collapse of crusher, potentially causing crushing of persons by plant or loads	Site operatives, contractor, visitors or any persons in the vicinity	3	4	12	<ul style="list-style-type: none"> Designated area to be established prior to commencement of crushing. Ensure the area is of solid foundation to support the crusher and level to reduce the risk of toppling. Once in situ, machine controls to be switched into the 'up' position, isolating the tracks to prevent movement. Outriggers to be deployed where required to increase overall stability. 	2	3	6

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Moving / Rotating Parts	Physical loss of limb through unintended contact with moving components	Site Operatives, Contractor & Maintenance Staff	3	5	15	<ul style="list-style-type: none"> All moving / rotating components guarded to prevents access. All equipment subjected to a pre-user check prior to use to ensure there are no defects. Checks for fixed guards: <ul style="list-style-type: none"> Check that the guards are securely fastened in place with devices requiring a tool to release them and that no access is possible from any direction to the danger zone. Check that the construction of the guard is sound, that no bars are bent or missing and that the guard cannot be bent or deflected to permit access to the danger zone. Check that where openings are provided it is not possible to reach into the danger zone through them. Isolation switches / emergency stops to be tested prior to commencement of crushing to ensure they are operational. Any significant defects identified to be reported to line management immediately and appropriate action taken. 	2	5	10
Clearing Blockages / Maintenance Work	Entrapment / entanglement in machine components	Site Operatives / Maintenance Staff	3	5	15	<ul style="list-style-type: none"> Clearing of blockages / maintenance works must only be carried out by competent personnel. Crusher to be isolated prior clearing blockages or carrying out maintenance work; <ul style="list-style-type: none"> Engine / power supply to be shut off. Controls to be locked off to prevent unintended start up. Keys to any lock out devices i.e., padlocks to be retained by maintenance operatives for duration of the works. Test out controls and locking device to ensure crusher cannot be started unintentionally by unauthorised personnel. Staff clearing blockages / carrying out maintenance work to wear appropriate Personal Protective Equipment (PPE) 	2	5	10

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Dust	Potential for inhalation of dusts created during crushing causing respiratory issues	Staff working in close proximity to crushing operations	3	3	9	<ul style="list-style-type: none"> Plant and machinery maintained in accordance with the manufacturer's recommendations. Wind direction to be considered when setting up crushing operations to reduce the risk of dust blowing in the direction of persons. Where possible the drop height from the discharge conveyor to be minimised to reduce the risk of excessive dust being produced. Number of people working in the vicinity limited to those directly involved in the operation. Information, instruction and training given to all staff on the potential hazardous effect of workplace dust. FP3 dust masks must be worn where there is clear evidence of high dust levels i.e. in hot dry weather. Doors and windows of loading equipment to remain closed where dust levels are high. Eye protection to be worn when required to work in the vicinity of crushing equipment during operation. Eye wash stations to be available in the vicinity, sterile and in date. 	2	3	6
Falling / Projected Materials	Persons on site being struck by materials expelled from loading plant or crusher	All persons within the vicinity of plant movement / machinery operations	3	4	12	<ul style="list-style-type: none"> All persons working on site to be informed of crushing operations. Operation of plant to cease where unauthorised persons enter the work area. All persons entering the work area while crushing is underway to be challenged. Any persons required to approach the screener must wait until it has processed loaded materials and they have been expelled, where blockages may have occurred crusher to be isolated. Staff to wear appropriate Personal Protective Equipment (PPE) when in the vicinity of the crusher i.e. hard hats / bump caps, eye protection, steel toe capped footwear. 	2	4	8