

Safe Work Method Statement



Company Details							
Company Name: Lizard's Concrete Pumping Pty Ltd		ABN: 96 630 586 444					
Contact Name, Position and Phone number: Keith Cox (Director)0419 661 669,John Cooke (Pump Operator)0477100402,							
Jay Daniels (Pump Operator) 0458525550, Stuart Murdoch (Line Hand) 0432653302,							
Allan Carroll (Pump Operator) 0439001491, Kerry Lawton (Pump Operator) 0409768758, Bart Costa (Pump Operator) 0401290703							
Address: 18 Fishermans Road, Kuluin QLD 4558							
High Risk Activity:		Concrete Boom Pumping (32m)					
Site:		ALL SITES					
Relevant workers must be consulted in the development, approval and communication of this SWMS		SWMS Approved by: Keith Cox	Page 1 of 10				
<i>Name:</i> (Include names of workers who were consulted in relation to this SWMS) Keith Cox John Cooke Jay Daniels, Allan Carroll, Bart Costa & Kerry Lawton Stuart Murdoch & Nattan Evitts	<i>Job Title:</i> Director Pump Operator Pump operator Line Hand	<i>Date:</i> 01 / 11 /2023	Name: Keith Cox				
			Signature: <i>Keith Cox</i>				
			Date: 01 11 2023				
<u>Personnel responsible for monitoring and managing activity:</u> John Cooke – Pump Operator		Overall Risk Rating after Controls	<table border="1"> <tr> <td>Acute</td> <td>High</td> </tr> <tr> <td>Moderate</td> <td>Low</td> </tr> </table>	Acute	High	Moderate	Low
Acute	High						
Moderate	Low						
<p align="center">ALL PERSONS INVOLVED IN TASK MUST HAVE THIS SWMS COMMUNICATED TO THEM PRIOR TO WORK COMMENCING</p> <ul style="list-style-type: none"> Regular inspections and observations will be conducted to ensure SWMS is being complied with. Risk Assessments will be undertaken to identify, control and communicate site hazards. Work must cease immediately if incident or near miss occurs. SWMS must be amended in consultation with relevant persons. Amendments must be approved and communicated to all affected workers before work resumes. SWMS must be made available for inspection or review as required by WHS legislation. Record of SWMS must be kept as required by WHS legislation. 							
Applicable Standards / Legislative requirements and Codes of Practice							
<ul style="list-style-type: none"> Concrete Pumping Code of Practice 2020 Risk Management Code of Practice 2007 AS2550.15 Cranes - Safe Use - Concrete Pumps. 		<ul style="list-style-type: none"> Hazardous Manual Tasks Code of Practice 2011 Managing the Risk of Plant in the workplace Code of Practice 2013 					
Equipment to be Used							
Everdigm 40m& 42m Mobile Concrete Placing Boom Pump		Maintenance Checks: Daily, Weekly, Monthly, Annual, 6 yearly and scheduled hour meter servicing					

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Risk Assessment Matrix

Step 1 Determine Likelihood – What is the possibility that the effect will occur?

Likelihood	Criteria	Description
Almost certain	Expected in most circumstances.	Effect is a common result
Likely	Will probably occur in most circumstances.	Effect is known to have occurred at this site or it has happened
Possible	Might occur at some time	Effect could occur at the site or I've heard of it happening
Unlikely	Could occur at some time	Effect is not likely to occur at the site or I have not heard of it happening
Rare	May occur only in exceptional circumstances	Effect is practically impossible.

Step 2 Determine Consequence - What will be the expected effect?

Level of Effect	Example of each level
Insignificant/Acceptable	No effect – or so minor that effect is acceptable
Minor	First aid treatment only; spillage contained at site.
Moderate	Medical treatment; spillage contained but with outside help.
Major	Extensive injuries; loss of production
Catastrophic	Death; toxic release of chemicals

Step 3 Determine the risk score

LIKELIHOOD	CONSEQUENCE				
	Insignificant	Minor	Moderate	Major	Catastrophic
Almost certain	3 High	3 High	4 Acute	4 Acute	4 Acute
Likely	2 Moderate	3 High	3 High	4 Acute	4 Acute
Possible	1 Low	2 Moderate	3 High	4 Acute	4 Acute
Unlikely	1 Low	1 Low	2 Moderate	3 High	4 Acute
Rare	1 Low	1 Low	2 Moderate	3 High	3 High

Step 4 Record risk score on worksheet (**Note** – Risk scores have no absolute value and should only be used for comparison and to engender discussion.)

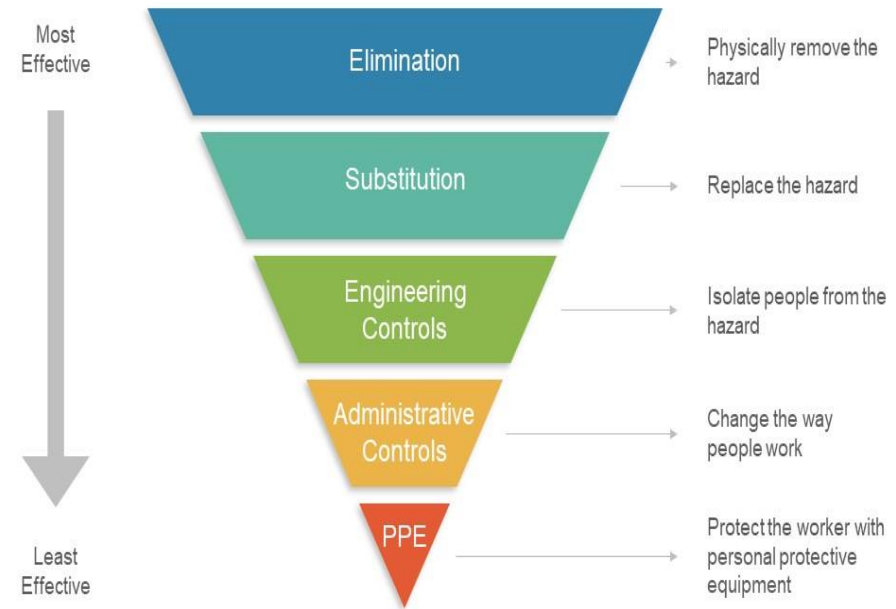
Score	Action
4 (Acute)	ACT NOW – Urgent - do something about the risks immediately. Requires immediate attention.
3 (High)	Highest management decision is required urgently.
2 (Moderate)	Follow management instructions.
1 (Low)	OK for now. Record and review regularly if any equipment/ people/ materials/ work processes or procedures change.

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E	Eliminate – The most desirable option. If you eliminate the hazard you eliminate the associated risk.
S	Substitution – You can substitute something else (i.e. a substance or process) that has less potential to cause injury.
I	Isolation / Engineering – You can make a structural change to the work environment or work process to interrupt the path between the worker and the risk.
A	Administration – You may be able to reduce the risk by upgrading training, changing rosters or other administrative actions
P	Personal Protective Equipment (PPE) - The least desirable option. If you can't reduce the risk any other way, use PPE (gloves, goggles etc.) as the last resort.

Hierarchy of Controls Risk Management



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Step	Risk	Tasks	Hazards and Risks <i>What can harm you – Hazards? What can happen – Risks?</i>	Control Measures	HOC	Residual Risk	Who is responsible?
1	3	General Site Planning	<ul style="list-style-type: none"> ○ Inadequate training ○ Exposure to UV 	<ul style="list-style-type: none"> ▪ Each worker must have site induction, Construction Induction card and High-Risk Work Licence appropriate to role. ▪ All workers must be pre-inducted into this Work Method Statement ▪ JSA to be discussed understood and acknowledged by all personnel involved in the work activity. The JSA will be continuously developed as a result of feedbacks and knowledge developed through the consultative and work review processes ▪ All personnel must wear mandatory PPE adequate for providing UV protection and as per Client's site requirements: <ul style="list-style-type: none"> ✓ Long Sleeve hi-vis shirts. ✓ Long pants. ✓ Steel Cap Safety Boots ✓ Safety Sunglasses – UV rated. ✓ Hard hats with optional brim extension. ✓ Sunscreen – minimum 30+. 	A P	2	Director Pump Operator Line Hand
2			<ul style="list-style-type: none"> ○ Incidents as a result of poor planning 	<ul style="list-style-type: none"> ▪ Provide Client with relevant transport authority permits together with current vehicle registration and insurances, detailed maintenance and inspection records, current maintenance logbook(s). ▪ Equipment is certified and maintained in accordance with our schedule of maintenance, manufacturers recommendations and Concrete Pumping Code of Practice 2019. ▪ All workers to follow the site-specific emergency procedures as per client requirements. ▪ Ensure enough workers are available for the task. 	A	2	Director Pump Operator
3	4	Prepare work area	<ul style="list-style-type: none"> ○ Unsuitable pump location (vehicle instability, electrocution, injury to members of the public) 	<ul style="list-style-type: none"> ▪ All workers should report to site office on arrival. ▪ All workers must be site inducted ▪ Operator to consult with site foreman to determine setup location and pour requirements such as washout methods, traffic control, exclusion zones, access to pour areas, concrete suitable for pumping, soil / ground suitability for pump setup. 	E I A P	1	Pump Operator Line Hand

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				<ul style="list-style-type: none"> ▪ Select the most suitable location for the pump set-up. Considerations should include an accessible and level area within the operating capacity of the equipment with a firm base able to support the fully loaded working pump and delivery trucks, clearance from obstructions and excavations, outside of the 'NO-GO ZONE', restrictions of operating near powerlines, the pump's operational safety zone, and if the pump unit or delivery area is set up in the street: ▪ observe all local laws ▪ observe any QLD Roads requirements for traffic management ▪ ensure the general public is provided with safe and segregated access away from the pumping operation. 			
4	4		<ul style="list-style-type: none"> ○ Other trades working in vicinity being struck by plant or falling objects 	<ul style="list-style-type: none"> ▪ Ensure barricading and signage is available on site, to be erected around the concrete truck and pump zone. ▪ Isolate the concrete truck and pump zone with fencing or other barriers. ▪ Display visible signs prohibiting unauthorised access to the truck and pump zone. ▪ Organise the direction of truck movement to minimise restrictions on the drivers' vision. ▪ Use a safety observer to control truck movement. ▪ Clearly identify designated concrete truck delivery and turning areas. 	I A P	2	Pump Operator Line Hand
5	4		<ul style="list-style-type: none"> ○ Collapse of work area 	<ul style="list-style-type: none"> ▪ Ensure the area for pump setup is firm and level and checked for load capacity. ▪ Operator to utilise Concrete Pumping COP ground pressure formula to determine appropriate amount of timbers, pads or bog mats to disperse pressure. ▪ Site Foreman to advise of any areas that have been excavated and backfilled. 	A	2	Pump Operator Line Hand
6	4		<ul style="list-style-type: none"> ○ Live electrical lines in working area 	<ul style="list-style-type: none"> ▪ Identify all electrical lines in work area above and below ground. ▪ Where practical, organise for electricity to be temporarily disconnected for the duration of the concrete pour. 	I A	2	Pump Operator Line Hand

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7	4	Prestart daily checks	<ul style="list-style-type: none"> ○ Injury through equipment failure 	<ul style="list-style-type: none"> ▪ Inspect pumping equipment to ensure it is in a mechanically sound condition. ▪ Each piece of equipment must have permanently fitted legible identification as well as safety signs and stickers that are legible. ▪ Pipe clamps to be inspected by a competent person for signs of wear or fatigue. ▪ Immediately replace any clamps if deformed or damaged. ▪ Check to ensure that all locking pins for quick release pipe clamps are in place. ▪ Inspect end-hoses for excessive wear or damage. ▪ Ensure safety chains, slings or other retaining devices are fitted. ▪ Ensure the safety grille on the receiving hopper is in place and in good condition. ▪ Ensure Emergency Stop button and horn are operational. 	I A P	3	Pump Operator Line Hand
8	4	Boom set up	<ul style="list-style-type: none"> ○ Truck tipping over 	<ul style="list-style-type: none"> ▪ Ensure there is an adequate supply of packing for stabiliser base plates. ▪ Ensure the boom placement system is level or at no greater angle than specified by the manufacturer. ▪ Outriggers must be fully extended, lowered and locked in position BEFORE the boom is erected. (Note: If the outriggers are being 'short-legged', the safe operating radius is reduced. This should be recorded.) 	I A P	3	Pump Operator Line Hand
9	4	Delivery Pipeline Set Up	<ul style="list-style-type: none"> ○ Personnel being struck by equipment failure (Pipes bursting, joints failing, pipes moving) 	<ul style="list-style-type: none"> ▪ The pipeline should be installed in accordance with Concrete Pumping Code of Practice 2019. ▪ Inspect all metal pipes and pipeline components to ensure that they are compatible and comply with the pump manufacturer's specifications for minimum pressure rating and maximum diameter. 	A P	3	Director Pump Operator Line Hand
				<ul style="list-style-type: none"> ▪ Check all individual components for wear and possible damage. Ensure that the pipeline can withstand the rated maximum concrete pressure of all pumps during normal operations. (Example – If a pump breaks down.) 	I A P	3	Pump Operator Line Hand

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				<ul style="list-style-type: none"> ▪ Check that unnecessary bends have been avoided. ▪ Ensure each section of pipeline is adequately supported. ▪ Ensure each section is secured avoiding extra load on the pipe clamps. ▪ Ensure each vertical bend is fixed to stop movement of the bend. Ensure that cranes, hoist towers, scaffolding or formwork have not been used to secure the pipeline unless designed for this purpose. 			
10	4	Concrete delivery	<ul style="list-style-type: none"> ○ Injury through vehicle strike 	<ul style="list-style-type: none"> ▪ Concrete trucks to stop immediately if safety observer/traffic controller is unsighted and to remain well clear of the hopper until signalled to reverse by the observer. ▪ Safety observers must NOT position themselves between the hopper and reversing trucks. ▪ Concrete trucks must come to a complete stop whilst the rear chute is positioned and observer viewable to re-commence reversing. ▪ If observer is unavailable only one truck will be unloaded at a time. 	I A P	3	Pump Operator Line Hand (in conjunction with Site Foreman)
11	4	Pumping	<ul style="list-style-type: none"> ○ Personnel being struck by hoses or concrete 	<ul style="list-style-type: none"> ▪ Ensure that no people, other than those workers directly involved in the concrete pumping operation, are in the operational safety zone (including concrete delivery drivers). ▪ Ensure no one stands on the hopper grille or beneath a raised boom. ▪ Ensure the end hose is fitted with a suitable stop or end cap if it is being manoeuvred over people. ▪ Ensure the hopper grill is in the closed position. Check that the pump flow rates match discharge rates of concrete delivery trucks. ▪ Operator must be in constant communication with the line and must follow the directions given by the line hand. ▪ Operator must have clear line of site to both the line hand and the concrete delivery truck at the hopper. ▪ All workers to be familiar with the equipment's emergency shut-down procedures. 	I A P	3	Pump Operator Line Hand

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			<ul style="list-style-type: none"> Truck tipping over 	<ul style="list-style-type: none"> Ensure frequently monitor/inspect the outrigger pad's integrity and look for possible loss of stability. 	AP	3	Pump Operator
12	4		<ul style="list-style-type: none"> Electrocution 	<p>The concrete placing boom should not be:</p> <ul style="list-style-type: none"> raised or left extended when winds exceed the maximum safe wind speed for operation, specified by the manufacturer raised or left extended during an electrical or thunderstorm used as a crane used to pump concrete with the rams in tension, unless designed for this purpose raised, lowered or moved when there is insufficient light to do so safely. <p>In addition, any truck-mounted placing boom should:</p> <ul style="list-style-type: none"> have the earth safety chain deployed before operation not be raised from the travel position if under powerlines, unless complying with the No Go Zone rules. 	E I A P	1	Pump Operator Line Hand
13	4	End of shift – Clean work equipment	<p>Personal injury:</p> <ul style="list-style-type: none"> Struck by hose Struck by cleaning device Struck by residual concrete being expelled under pressure Caught by entanglement 	<ul style="list-style-type: none"> Cleaning out of residual concrete from concrete pumping equipment should only be carried out by trained workers in accordance with the manufacturer's procedures or the detailed written instructions developed by a competent person. When concrete pumping equipment is being cleaned out, ensure another person is in the immediate vicinity to provide help in an emergency. Ensure boom is folded in the travel position before raising the outriggers. Ensure all loose components are correctly stowed or restrained. Ensure all PTOs (power take offs) are disengaged and the controls are in the OFF position. Visually inspect the vehicle to confirm everything is secured. <p>Cleaning the pipeline:</p> <ul style="list-style-type: none"> Where possible water cleaning should be used in preference to compressed air. Pipeline to be secured or removed to prevent whipping. 	AP	1	Pump Operator Line Hand

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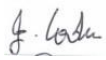






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				<ul style="list-style-type: none"> • A safety cage to be fitted to catch the cleaning device. • All workers to be kept clear. • Pipeline to be depressurised before any dismantling is attempted. <p>Cleaning the pump:</p> <ul style="list-style-type: none"> • mechanically lock moving parts in position • shut down the equipment • disengage the hydraulic pumps • exhaust accumulated hydraulic or air pressure and allow time for the pressure to be fully released from all systems • ensure the pump is not under pressure before it is dismantled • do not allow any part of the worker's body to be placed into the pump while cleaning. <p>Cleaning the hopper:</p> <ul style="list-style-type: none"> • No part of a person's body to be placed in the hopper. • No person to stand on the hopper. • Hopper to be shut down and air pressure released before cleaning commences. 			

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**LIZARD'S
CONCRETE
PUMPING**

Plant Type: Mitsubishi Plant Rego No: XQ17DZ	Plant Serial No: KCP32RZ170037 Plant Make: CALLAGHAN
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<i>I have read and understood the content and requirements of this Safe Work Method Statement and that I was consulted in the development of this plan.</i>		
Workers Name	Signature	Date
John Cooke (Pump Operator)		01 11 2023
Jay Daniels (Pump Operator)		01 11 2023
Allan Carroll (Pump Operator)		01 11 2023
Stuart Murdoch (Line Hand)		01 11 2023
Bart Costa (Pump Operator)		01 11 2023
Kerry Lawton (Pump Operator)		01 11 2023
Nattan Evitts (Line Hand)		01 11 2023