

				Operati	on / Tas	k:		Pil	ling Rig Access and Egress	Prepared by:	HSEQ / Teams	Operatio	onal	Rev 2 Date: Rev 1 Date:	
Locatio	on: Va	arious Sites/ Ya	ard	Departr	ment:				CANNON PILING - H&S	Issue Date:					Feb-20
	H&S Consequence, C	Env. Consequ	Jence, C	Lil	kelihood,	<i>.</i> L			Likelihood				A	cceptance C	riteria
		inor impact/ ope		Improb		,				3 4 5					
		ommunity com	plaints	Remote			1		1 1 2 3	3 4 5	R				
3	Major injury Ma	ajor impact	•	Possible	3				2 2 4 6	8 10	Y			tolerable take in	
4	Permanent consequence Le	egal impact		Probabl	e			ity	3 3 6	9 12 15	G			Tolerable with ad	
5	Potential Fatality Ma	ajor impact and	d cost	Almost	certain			everity	4 4 8 12	2 16 20		Gr	een - Io	pierable no furthe	er action required
								Se	5 5 10 15	20 25					
×			ns šk	Deg	ree of	Risk					Res	idual I	Risk	Person	Monitoring
ASK	HAZARD		Persons at Risk			r	4		Control Measures			iuuuii	-		0
Ξ			Pe	C	L	RR					С	L	RR	Responsible	Responsibility
	General Note	2.													
А	Climbing onto and off pili	ling rigs													
A1	Slipping off steps / tracks		Anyone	3	3	9	include chec in mud / det months. De- grab hold off	king the steps). Anyon bris. Any debris on boo icer is available in wor f if necessary, to aid cl	must carry out daily checks and record on the wee ne climbing onto the rig steps must ensure the step ots should be kicked off prior to climbing up. Check rk vans. Tools must never be stored on the steps. U limbing up onto tracks. (Working at height Rgs 3 &: in place. If access is required to the mast then a ME	is in good order and not covered steps not icy during winter lse permanent fixtures on rig to 14) No-one is to climb onto back	3	1	3	Rig operator/ any person wishing to climb onto rig	Site Supervisor / Forman
A2	Complacency		Anyone	3	3	9			ain vigilant and concentrate at all times. Foreman / hazards. (H&S@W act 1974 section 2)	Supervisors to carry out daily	3	2	6	Rig operator/ any person wishing to climb onto rig	Site Supervisor / Forman
A3	Poor Weather conditions		Anyone	3	3	9			heavy wind or rain. Snow must be brushed off w out any ice when required. Boots must be kicked		3	1	3	Rig operator/ any person wishing to climb onto rig	Site Supervisor/ Forman
A4	Storage of tools on steps		Anyone	3	3	9		t ensure that no tools a plastic caps, etc.	are left on the steps. Plant dept. are fitting tool trav	ys to all rigs to store the hammer,	3	1	3	Rig operator / Ganger	Site Supervisor / Forman
A5	Unable to climb into rig due to posture, fitness level.	shape, size,	Anyone	3	2	6	must ensure	that everyone is capa	one required to climb onto any piling rig is in good able of climbing into the Cab of the Piling Rig when r carrying out regular health surveillance.		3	1	3	Rig operator/ Ganger	Site Supervisor/ Forman



2	on:						by:	Teams			Rev 1 Date:	
2		Various Sites/ Yard		Departn	nent:		CANNON PILING - H&S Issue Date:					Feb-20
2	H&S Consequence, C	Env. Consequence	ce, C	Lik	kelihood,	, L	Likelihood				Acceptance C	riteria
	Mino Injury	Minor impact/ operation		Improba	able							
	First Aid injury	Community complain		Remote				R		Red - Ir	ntolerable take in	mediate action
	Major injury	Major impact		Possible				Y				Iditional controls
	Permanent consequence	Legal impact		Probable				G	Gr	een - T	olerable no furth	er action required
5	Potential Fatality	Major impact and co	ost	Almost	certain		A A B 12 15   y 5 5 10 15 20 25					
$\times$			× IS	Dog	roo of	Dick		Decid	dual	Dick		Manitaring
TASK	HAZARD		Persons at Risk	C	ree of L	RISK	Control Measures	C	L	RISK	Person Responsible	Monitoring Responsibility
				-			ote: This assessment covers cutting and welding work using electrical arc welding and oxygen / flammable gas			1		. ,
							quipment on various construction sites. Welding activities are only to be undertaken by trained, competent and					
	General Not	te.					uthorised personnel.					
							hot works permit must be issued by the main contractor or a Cannon Piling Foreman/ supervisor before any					
							velding is carried out.					
1	Use of welding equipm	ent					-			•		
	Fire and explosion from the		dawl Cita				as cylinders and hoses to be checked for leaks, etc. Arc welding equipment to be examined by electrician regularly. Cylinders to be kept					Mobile plant
1	cvlinders		staff	5	3	15	pright and secured. Valves to be closed when not in use. Cylinders to be fitted with appropriate regulator and gauge. fitted on all Flash-	5	1	5	Welders	manager, site
	cy.macro	· · · ·	Stan				ack arrestors to be fitted on all lines. Cylinders must be stored in a cool dry place away from any direct heat source.					foreman
		Wold	der/ Site				ot work permit must be in place prior to carrying out any hot work operations. Flammable materials must be removed from working area. re extinguisher must be available and close by at all times. Welder to check condition of welding equipment before use and to ensure that					Mobile plant
2	Fire from other flammable mate		staff	5	3	15	uppend is safe after use. Cutting and welding of drams or tanks that have contained flammable materials is prohibited with out following	5	1	5	Welders	manager,
							e appropriate procedure. This must include producing a separate HA in conjunction with the Workshop Manager.					Supervisors
		Weld	der/ Site				elding etc. must be undertaken in well-ventilated areas. Local exhaust ventilation may also be required in certain circumstances to					Mobile plant
3	Fumes from rods, coatings and		staff	4	4	16	move fumes. Health checks must be undertaken at set timescales arranged by line management/ HR.	4	2	8	Welders	manager,
$\rightarrow$												Supervisors Mobile plant
4	Hot metal surfaces.		der/ Site staff	2	3	6	ot work permit must be in place prior to carrying out any hot works on site. Welder to exclude other persons from the working area. arriers and signs may be required. Welder must wear welding gloves.	2	1	2	Welders	manager,
			stan									Supervisors
5	Flying splatter		der/ Site	з	3	q	elder to exclude other persons from the working area. Barriers and signs may be required. Welder must wear flame retardant overalls, opropriate apron and welding gloves.	з	1	3	Welders	Mobile plant manager,
J	i i ji i g opiaccei	5	staff	5	5		propriate apron and werding groves.	5	-	5	Weiders	Supervisors
		Weld	der/ Site									Mobile plant
6	Excessive light/radiation for the		staff	4	4	16	pproved welding Face shield must be warn by the welder	4	1	4	Welders	manager,
$\rightarrow$												Supervisors Mobile plant
7	Excessive light/radiation for oth		der/ Site staff	4	4	16	reproof screens to be placed around working area. Welder to exclude other persons from the working area. Barriers and signs may be equired	4	2	8	Welders	manager,
			stan				quneu					Supervisors
3	Storage of used hot we	Iding rods										
31	Burns/ Scalds		der/ Site	2	4	8	sed weld rods should be immediately placed in a small steel bucket or such like receptacle.	2	1	2	Welders	Welder, Superviso
			staff	2		Ŭ		-	1	-	Weiders	Weider, Supervise
2	Storage of gas cylinders	5										
		Weld	der/ Site		_		vlinders must be stored in dedicated locked labelled cages and secured. Cylinders in use in the workshop must to be stored on trolleys and					Mobile plant
21	Fire and explosion.		staff	5	3	15	olated when not in use. Any vans carrying gas bottles must be ventilated, carry appropriate fire extinguishers and display the correct	5	1	5	Welders	manager,
$\rightarrow$							azard warning signs. Jote: Relevant parts of the above assessment for the use of welding equipment shall apply for the use of burning					Supervisors
	General Not	te.										
							ear except where amended below					
D	Use of burning gear for	cutting steel										
		Web	der/ Site				oggles to EN 166 class 3,4,9-B fitted with a filter to EN169 to be worn.					Mobile plant
01	Excessive Light		staff	4	4	16		4	1	4	Welders	manager, Supervisors



				Operati	on / Tas	k:		5	Site Crane works 1 of 2	Prepared by:	HSEQ / Teams	Operati	onal	Rev 2 Date: Rev 1 Date:	
Locati	ion:	Various Sites/ Y	ard	Departi	ment:				CANNON PILING - H&S	Issue Date:					Feb-20
	H&S Consequence, C	Env. Conseq	uence, C	Li	kelihood	, L		•	Likelihood				ŀ	Acceptance C	riteria
1	1 Mino Injury	Minor impact/ ope	erational	Improb	able		1		1 2 3	4 5					
2	2 First Aid injury	Community com	nplaints	Remote	9				1 1 2 3	4 5	R		Dod In	itolerable take in	modiate action
(**)	8 Major injury	Major impact		Possible	ŝ				2 2 4 6	8 10	Y				Iditional controls
	4 Permanent consequence	Legal impact		Probabl	e			Severity	3 3 6 9	12 15	G				er action required
5	5 Potential Fatality	Major impact an	nd cost	Almost	certain			eve	4 4 8 12	16 20		0	cen n		er action required
								Ň	5 5 10 15	20 25	-				-
SK	1147400		ons isk	Deg	ree of	Risk			Control Management		Res	idual	Risk	Person	Monitoring
TASK	HAZARD		Persons at Risk	С	L	RR			Control Measures		С	L	RR	Responsible	Responsibility
	General No	te.					current CPC	CS card. Operatives und	ted by trained and competent persons. When appli ler training shall be supervised by an authorised en by suitably trained and competent persons.	<i>i</i> 1					
A	All Activities														
A1	Overloading of crane.		Operator / Site workers	5	3	15	by an Appoin	ited person, this must be	ble and sufficient crane to undertake required lifts. A su reviewed by an appointed person prior to any mobilisat ervisor to ensure that weights of loads are known and a	ion of cranes. The site must be	5	1	5	Appointed Parson	Project Manager/ Supervisor
A2	Trips, slips and falls		Operator / Site workers	3	4	12	The work are		t tidy at all times. All lifting accesseries must be stored of		3	1	3	Operator/ Site workers	Supervisor
A3	Adverse ground.		Operator / Site workers	5	3	15	must be visit	ed before the lift plan is p	y an Appointed person, this must be reviewed prior to or prepared. Platform certificate to be completed to confirm at least half a machine width bevond crane. Extra consi	n that platform is adequate before	5	1	5	Appointed Parson	Project Manager/ Supervisor
A4	Contact with overhead elect	ric cables.	Operator / Site workers	5	3	15	If overhead of until suitable	cables are present the En e control measures have b	ergy company provider must be contacted for assistant peen documented and agree. The Supervisor must confi the crane or to arrange for improvements to be impleme to operate cranes. The crane operator must ensure 30	e. No further work must continue rm on the site hazard assessment	5	1	5	Appointed Parson	Project Manager/ Supervisor
A5	Collision with persons.		Operator / Site workers	5	3	15	times. Flashi	ng beacon must always	to operate cranes. The crane operator must ensure so be switched on whilst plant in use. Safe exclusion zon mediate work area. A trained Banks man must be in pla	es must be provided and all non-	5	1	5	Operator/ Banksman	Supervisor
A6	Failure of lifting appliance or accessories.	r lifting	Site Workers	5	3	15	with crane. I owned acces machine on o	nspection certificates, not sories to be correctly colo delivery. Operator to insp	The than 12 months old, and test certificate not more than the more than six months old to be provided for lifting acc our-coded and to have an identification mark stamped on ect the crane daily before use and to carry out routine so be made by operator and recorded on the weekly insp	essories with hired crane. CP- n. Supervisor must inspect the ervicing in accordance with the	5	1	5	Operator/ Banksman	Supervisor

ASK	HAZARD	sons Risk	Deg	ree of	Risk	Control Measures	Res	idual	Risk	Person	Monitoring
ΤA	HAZARD	Persons at Risk	С	L	RR	Control Measures	С	L	RR	Responsible	Responsibility
Α7	High Winds.	Operator / Site workers	5	2	10	In the event of extreme weather conditions, it may sometimes be necessary to review any lifting operation until such time as I is safe to proceed. A competent person, AP or crane supervisor along with the crane driver needs to assess the wind speed and cease work if it is considered too high. (If able) using an anemometer unit, readings are to be taken every 30mins and constantly monitored Once both the AP or crane supervisor and the crane driver are comfortable with the wind speed and the fact that it is no gusting and the wind speeds are within the crane manufacturers guidelines the lift will be further assessed with regard to weight and radius. Should all parties be satisfied with the wind conditions and deem the lift to be safe, a tag line will be placed on the load prior to lifting. If the load is a cage, the cage will not be lifted until the pile is concreted to further mitigate any risks. Once the pile is concreted the cage will be lifted to the vertical and steadied with one or more tag lines and guided to the pile for placement. The pile cage is full of holes and as such the wind tends to pass through it rather than making the cage uncontrollable. The crane supervisor and the crane driver will constantly monitor the situation and abort works should they deem it to be beyond acceptable limits, or exceed the crane manufacturers operational limits. Although the safe workable wind speed varies from crane to crane, as a guide ONLY, the maximum wind speed at which lifting operations can take place is 10 metres per second (22 mph)	5	1	5	Operator/ Banksman	Appointed Person / Supervisor
A8	Uncontrolled fall of load.	Banks man/ Slinger/Op erator	5	2	2 10	Exclusion zone must be in place and adhered to	5	1	ŝ	5 Banks man	Appointed Person
A9	Fall of load caused by damage to strop being used on loads of small diameter.	Banks man /Slinger/ Operator	5	3	15	Soft eyed strops are not to be used except for lifting drive tubes or for lifting CFA augers	5	1	ţ	Banks man	Appointed Person
A10	Movement of load on ground while slings being attached or removed.	Banks man / Slinger/ Operator	3	3	9	Loads to be placed on suitable timbers to allow access or strops underneath and chocks.	3	1	3	Banks man	Appointed Person
A11	Fall of load caused by incorrect slinging.	Banks man / Slinger/ Operator	5	3	15	Loads to be attached to the crane by a trained and component slinger. All lifting equipment used must be inspected prior to use and within it six monthly periodic inspection.	5	1	ţ	Banks man	Appointed Person
В	Working alongside railways										
B1	Interference with adjacent railways.	All site workers	5	3	15	The contract manager shall ensure that approval for the method of working has been obtained from the railway authority, prio to arranging any crane work. The site foreman shall ensure that the approval has been received prior to carrying out any work which is in accordance with the agreed procedure.	5	1	5	Appointed Parson	Project Manager/ Construction Manager
С	Lifting near to or over adjace	ent build	ings								
C1	Load falling onto building.	Building occupiers	5	2	10	Loads are not to be lifted over buildings, unless this is unavoidable. In this case, consent of the building controller to be obtained. Building to be unoccupied during the lift. Site specific Hazard Assessment must be completed prior to any works commencing.		1	ţ	Appointed Parson	Project Manager/ Construction Manager
						Site Crane works 2 of 2					



				Operatio	on / Tas	k:		Pil	e and Zone tests 1 of 2	Prepared by:	HSEQ / Teams	Operati	onal	Rev 2 Date: Rev 1 Date:	
Locatio	on: Va	arious Sites/ Ya	rd	Departn	ment:				CANNON PILING - H&S	Issue Date:					Feb-2
	H&S Consequence, C	Env. Conseque	ence, C	Lik	kelihood	, L		-	Likelihood				ŀ	Acceptance (	Criteria
1	Mino Injury Mi	nor impact/ oper	ational	Improba	able		]		1 2 3	4 5					
		ommunity comp	olaints	Remote					1 1 2 3	4 5	R		Pod - Ir	itolorablo tako ir	nmediate action
3		ajor impact		Possible					2 2 4 6	8 10	Y				ditional controls
		gal impact		Probable				rity	3 3 6 9	12 <mark>15</mark>	G				er action required
5	Potential Fatality Ma	ajor impact and	l cost	Almost	certain			Severity	4 4 8 12	16 20		0.	cen n		
~			<b>v</b>			<u>.</u>		Ň	5 5 10 15	20 25			<b>.</b>		
Š	HAZARD		Son:	Deg	ree of	Risk			Control Measures		Res	dual	Risk	Person	Monitoring
TASK	HAZAND		Persons at Risk	С	L	RR			control weasures		С	L	RR	Responsible	Responsibility
	General Note							assessment covers both ne tests of treated or un	pile tests using anchors and pile tests with Kentle treated ground.	edge. It also covers where					
4															-
	Construction of test pile and ar applicable)	nchor pile (if		N/A	N/A	N/A	See separate	risk assessments for the o	construction of the type of pile.		N/A	N/A	N/A		
3	applicable)				I	I									
)				<b></b> _	r —	1	1				<b></b> _		1	1	1
B1	Crane work.			N/A	N/A	N/A		risk assessment for crane num capacity of 50 tonnes	work . The contract specific Appointed Person must :	specify size of crane. Crane to	N/A	N/A	N/A		
)	Rigging of kentledge test														
C1	Ground bearing failure under k	entledge.	Operat or/Site Worke rs	5	3	15	of platforms.		confirm that the ground is suitable for loads to be ap st be prepare a separate lift plan if cranes are being			1	5	Appointed Person	Project Manager Construction Manager/ Supervisor
C2	Stability of kentledge.		Site Workers	5	3	15			the test load. Kentledge to be suitable and stacked of at 900 to the layer below. Each block to rest on at le		5	1	5	Operator	Project Manager Construction Manager/ Supervisor
C3	Collision of kentledge with pers	son on blocks	Site Workers	5	3	15		5 5	s must be a trained and competent slinger / signaller a son to relay signals to the crane operator.	and to be in control of crane	5	1	5	Banksman	Appointed Person /Supervisor
C4	Fall from height		Site Workers	5	3	15	. Top of kent	ledge to be flat without tri	kentledge to be provided at all times. p hazards. A safety harness, fitted with a 1.5m lanyar ng eve on the top of a kentledge block on the laver u		5	1	5	Operator	Appointed Person /Supervisor
)	Rigging of anchor pile tes	st													
D1	Failure of tensile rods	:	Operative setting up	5	15	15	Rods to be d	esigned to carry loads. And	chor plates to be suitable. Welding to be carried out b	y authorised personnel.	5	1	5	Operator	Supervisor
D2	Collapse of beams.		Operative seting up	5	3	15	Minimum of f	four anchors to be used. B	eams to be supported by a suitable cradle.		5	1	5	Operator	Supervisor
	<b>Rigging of test equipmen</b>				-									-	-
	Manual handling of jack, etc.		Operative setting up equipment	3	3	9	handling asse		itable manual handling training prior to commencing out for tasks carried out on site. Mechanical means to		3	1	З	Pile Tester	Supervisor

SK	HAZARD	sons Risk	Deg	ree of	Risk		Control Measures		Resi	idual I	Risk	Person	Monitoring
TA	HAZARD	Pers at F	С	L	RR		Control Measures		С	L	RR	Responsible	Responsibility
F	Undertaking test												
F1	Working alone	Pile tester	5	3	15	lone worker	one on the site, the person carrying out the test shall be provided with a mobile procedure is in place. It must include a reporting in procedure at set times / dur onfirm there is suitable mobile phone reception.		5	1	5	Pile Test company	Supervisor
F2	Working at night	Pile tester	5	3	15	site specific Manager and	he at night should be prohibited at all times unless all other means of pile testin RA must be undertaken by the pile test company. This must be reviewed and ac I Main Contractor site manager. Cannon Piling Supervisor must ensure the contr are provisions must be provided by the pile test company.	preed with the Cannon Piling Project	5	1	5	Pile Test company	Project Manager / Main Contractor/ Supervisor
F3	Failure of test beams	N/A	N/A	N/A		Test equipm	ent, suitable and certified as sufficient for the test load, labelled and in good cor	ndition, shall be used.	N/A	N/A	N/A		
F4	Failure of hydraulic hoses	Pile tester	3	3	9		ses to have capacity rated for pressures. Hoses to be routed to avoid loads bein oses to be inspected before test commences.	g placed on them, buried if	3	1	3	Pile Tester	Supervisor
F5	Lifting of kentledge blocks under load.	Pile tester	3	3	9	Total weight	of kentledge ands test beams to exceed maximum test load by a minimum of 1	10%.	3	1	3	Pile Tester	Supervisor
							Pile and Zone tests 2 of 2						



				Operati	ion / Tas	k:			CFA Piling 1 of 4		Prepared by:	HSEQ / Teams	Operati	onal	Rev 2 Date: Rev 1 Date:	
Locati	ion:	Various Sites/ Y	ard	Departi	ment:				CANNON PILING - H&S		Issue Date:					Feb-20
	H&S Consequence, C	Env. Conseq	uence, C	Li	kelihood	, L		•	Likelihood	•				ļ	Acceptance (	Criteria
	l Mino Injury	Minor impact/ ope		Improb	able				1	2 3	4 5					
	2 First Aid injury	Community com	nplaints	Remote					1 1	2 3	4 5	R		Red - Ir	itolerable take ir	nmediate action
	B Major injury	Major impact		Possible				>	2 2	4 6	8 10	<u>Y</u>				dditional controls
4	Permanent consequence Potential Fatality	Legal impact Major impact an	d cost	Probabl	e certain			everity	3 3	6 9 8 12	12 15 16 20	G	Gr	een - T	plerable no furth	er action required
		Major Impact an		AIIIIOSL	Certain			Sec	5 5	10 15	20 25					
$\times$			s x	Dog	ree of	Dick		•	5 5		20 23	Pos	idual	Dick	Person	Monitoring
TASK	HAZARD		Persons at Risk		100				Control Meas	ures		Res	luuai			
Ξ			Pe	С	L	RR						C	L	RR	Responsible	Responsibility
	General No	te.					authorised	on the company skills	quipment are to be operated o matrix. Operatives to hold curr e supervised by an authorised e	rent CPCS and CSCS cards (						
A	All Activities		1													
A1	Inadequate lighting		Site workers	s 3	2	6	Site hazard as	ssessment to confirm that	lighting is adequate or to ensure arti	ificial light is available when nec	essary.	3	1	3	Supervisor	Supervisor
A2	Trips, slips and Falls		Site workers	5 3	3	9	tidy work area all times. Rubl	a with adequate space for bish, lifting equipment, re-	ction Manager must liaise with the M unloading. Good housekeeping pract -bar, steel off cuts, etc must not be a e raised with the main contractor site	tises must be encouraged by Ca allowed to build up. If the pedes	nnon Piling site personnell at	3	2	e	All CP employees / Main Contractor	Project Manager / Construction Manager / Supervisor
A3	Leptospirosis / Weils disease		Site workers	5 5	3	15	allowed to ove before eating,	erflow. Mess rooms must b , drinking and smoking. W	in designated canteens. All rubbish pe cleaned daily. Good hygene practi here there is an Identified hazard, to ess to be encouraged. Awareness car	ises must be adhere to at all tim ool box talk 13 (Weils Disease) is	es. Hands must be washed to be briefed out. Any cuts	5	1	5	All CP employees.	Project Manager / Construction Manager / Supervisor
A4	Excessive noise exposure for c	operators	Site workers	5 4	3	12	signs requiring	g people to wear the corre	n assessed items of plant with an ave ect ear protection. Where reasonably yees must ensure all other site work	practicable, noise reduction me	thods to be adopted to	4	2	8	All CP employees.	Supervisor
A5	Excessive noise exposure for c and general public adjacent to		Other workers / neighbours	4	2	8		to be made available to t clusion zone / segreagation	the main contractor if required. Cor n.	nstruction Manager should ask	for dedicated piling area with	4	1	4	Main Contractor	Project Manager/ Construction Manager/ Supervisor
A6	Dust		Site workers	5 3	3	9	place. Cannon consideration	Piling may have to reque	to liaise with Main Contractor prior t st that the main contractor has giver n the site surface to reduce the dust	n		3	1	3	Main Contractor	Project Manager/ Construction Manager/ Supervisor

~	HAZARD	ion	Deg	ree of	Risk		Control Measures				Resi	idual I	Risk	Person	Monitoring
TASK	HAZARD	Persons at Risk	С	L	RR		Control Measures				С	L	RR	Responsible	Responsibility
3	Rigging and dismantling on site														
31	Inadequate piling platform causing plant to to topple	Rig operator / ganger / banksman	5	17	3 15	off by the ma	ficate to be completed to confirm that platform is adequate before work comm in contractor when ever the platform has been disturbed, or at intervals not ex e width beyond probe positions. Extra consideration to be given when working a	ceeding 7 days. Pla	atform to extend	at least	5	1	5	Main Contractor	Project Manager/ Construction Manager/ Supervisor
32	Ropes falling from track when rigging.	Rig operator / ganger /	5	(*)	3 15	Ropes to be s	trapped into channel on mast when machine is being de-rigged to prevent the n	eed for worker to c	limb the mast.		5	1	5	Banksman	Supervisor
2	Moving about the site														
21	failure of piling rig.	Any site worker	5	13	3 15	machine. The examinations.	te must be within their respective 4 year test and current LOLER inspection, e rig operator and supervisor must inspect the machine on delivery and e . Operator is to inspect the machine daily and record on the weekly plant inspec contractor and enforced by the Cannon Piling Ganger man and or supervisor	nsure the rig is w	ithin it current (	periodic	5	1	5	Rig operator/ Ganger	Supervisor
2	Collision with worker or equipment	Any site worker	5	(*)	3 15	controlled by a	Manager to request dedicated piling area with segregation before comencement a trained banksman with a slinger/signaller CPCS card. All rigs must be fitted wit be controlled by a trained banks man. No-one must be allowed to be close enou	h rear view mirrors	and reversing car	mera's,	5	1	5	Rig operator/ Ganger	Project Manager/ Construction Manager/ Supervisor
3	Contact with overhead power line.	Any site worker	5	3	3 15		Manager/ Supervisor to confirm on permit to dig that overhead lines do not ovements to be implemented before the work continues or commences.	affect the rig or to	arrange for the	correct	5	1	5	Rig operator/ Ganger	Project Manager/ Construction Manager/ Supervisor
24	Inadequate piling platform	Rig operator / ganger/ banksman	5	3	3 15	off by the mai	ficate to be completed to confirm that platform is adequate before work commen- in contractor when ever the platform has been disturbed, or at intervals not exco e width beyond probe positions. Extra consideration to be given when working a	eding 7 days. Platf	orm to extend at	least	5	1	5	Main Contractor	Project Manager/ Construction Manager/ Supervisor
D	Connecting flight string					(All sites	must have copies of the Task instruction available for Rigging	; / De rigging)							
01	Fall from height	Telehan dler operativ e	5	2	2 10		operators are allowed to use the man riding basket. All persons in the basket sh asket. Never over reach from the basket, the MEWP must be positioned as close				5	1	5	Operators	Supervisor
02	Entrapment or nipping by auger	Rig operator / ganger/ banksman	3	3		string. When i	ket who is making the connection shall not hold the flights until the flight being i inserting pins ensure they are just located in the auger socket, once done ensur away from the augers until it is lowered to its final position. When re-driving the	hands are out of t	he way. All limbs	must	3	1	3	Operators	Supervisor
)3	Fall of tools from height	Rig operator / ganger/ banksman	3		3 9		Hammer; Lifting chains must be stored in the basket in a way to prevent them m the immediate work area around the augers whilst rigging is in process.	falling. All non ess	ential personnel r	nust be	3	1	3	Operators	Supervisor
							CFA Piling 2 of 4								

TASK	HAZARD	<sup>b</sup> ersons at Risk	Deg	ree of F	Risk	Control Measures	Res	sidual	Risk	Person	Monitoring
TA		Per: at I	С	L	RR	Control measures	С	L	RR	Responsible	Responsibility
E	Boring into the ground										
E1	Contact with underground services	Site Workers	5	3	15	Permit to excavate must be completed and issued by the main contractor before any work commences. Services to be traced by a cable avoiding tool by a trained and competent person (main contractor). Any located utility apparatus must be uncovered by the main contractor. No mechanical excavator can be used with in 500mm of any live utility apparatus. (HSG47)	5	1	. 5	Main Contractor, Supervisor Operator Banks man	Construction Manager Supervisor
E2	Entanglement personnel in auger	Site Workers	5	3	15	All site staff must wear Hi VI vests. Liaise with Main Contractor to ensure designated exclusion zone is provided. Consider installing metal crowd barriers if there are other site workers located close by. A trained and competent banks man must co-ordinate all rig movements. Persons wishing to approach or to pass the rig must make eye contact with the machine operator/ banksman. No -one shall be located within the exclusion zones of the rig. Augers must be guarded in accordance with the requirements of the Provision and Use of Work Equipment Regulation, 1998 and the FPS Guidance Note.	5	1		Main Contractor/ Operators / Ganger/ Banksman	Operators / Ganger / Banksman /Supervisor
E3	Inadequate piling platform	Rig operator / ganger/ banksman	5	3	15	Platform certificate to be completed to confirm that platform is adequate before work commences. This must be reinspected and signed off by the main contractor when ever the platform has been disturbed, or at intervals not exceeding 7 days. Platform to extend at least nalf a machine width beyond probe positions. Extra consideration to be given when working adjacent to site boundaries or hoardings.		1	1 5	Main Contractor	Project Manager/ Construction Manager/ Supervisor
F	Setting up of concrete pump and pi	pes									
F1	Refer to separate Hazard assessment		N/A	N/A		See separate Hazzard Assessment	N/A	N/#	N/#		
G	Pumping concrete										
G1	Contact with concrete/ cement	Site workers	3	3	9	Chemical Suites must be available and worn whenever there is a risk of concrete or grout coming into contact with clothing. Waterproof gloves, a long sleeved top and trousers must be worn at all times whilst working with any cement based product. Sleeves and trousers must be tucked into the gloves and boots respectively. Suitable footwear must be provided and worn at all times. If standing in concrete you must always ensure suitable water tight and chemical resistant wellington boots are worn. Begin each day wearing clean clothing and finish each day with a bath or shower. Apply a protective barrier hand cream before each working shift starts. Reapply every time hands are washed. Eye protection to EN166 3,4,9 - B must be worn when working with cement based products. If cement, concrete or grout gets into the eyes, it must be dealt with immediately by flushing with clean water. Seek mmediate medical attention if persistent or severe discomfort is suffered.	3	3 2	2 6	Cannon Piling employees/ sub- contractors	Supervisor
Н	Extracting auger from the ground										
H1	Spoil falling from auger	All site workers	3	4	12	During extraction the auger must be cleaned by a mechanical cleaner fitted to the rigs. All non essesntual personnel must stand clear. If it is not practical to use a mechanical cleaner, then written permission of the contracts director must be obtained before a device attached to an excavator arm is used to clean the auger. Cleaning by hand is forbidden. (A nazard assessment for excavator, including requirements for changing buckets to be used is to be obtained and ncluded in the site file.) Supervisors must ensure this is understood and the correct measures are followed.	3	3 2	2 6	Rig operator/ Ganger	Supervisor
						CFA Piling 3 of 4					
L								1			I

TASK	HAZARD	ons Risk	Deg	gree of	Risk	Control Measures	Res	idual	Risk	Person	Monitoring
TA	HAZARD	Persons at Risk	С	L	RR	Control Measures	С	L	RR	Responsible	Responsibility
I	Manufacture of reinforcing cage										
I1	Use of inappropriate bolt crops for cutting steel.	Steel fixer/ site operatives	3	3 2	6	solt crops to be used for 12mm, diameter steel. For 16 mm diameter or greater the sthill saw is to be used, when using bolt crops, the operator is to ensure that the bolt crops are in good condition with straight arms and the cutting jaws are suitable	3	1	3	Steel fixer/ site operatives	Supervisor
J	Use of excavator to insert reinforcir	ng cage									
J1	Cage falling from excavator.	Site Operative s	5	5 3	15	All excavator drivers must be trained, competent and familiar with quick hitch attachments. Semi - automatic quick hitch attachments are prohibited from being used on Cannon Piling activities. All lifting equipment used to lift the cages must be within its six monthly periodic inspection. The chain must be attached to the dedicated lifting eye of the excavator. All non essential personell must be kept away from the work area. The lifting operation must be controlled by the ganger man.	5	1	5	Steel fixer/ Operator/ site operatives	Supervisor
J2	Underside of excavator bucket striking personnel when pushing cage into pile.	Site Operative s	5	5 3		All non essential personell must be kept away from the work area. The lifting operation must be controlled by the ganger man. site	5	1	5	Steel fixer/ operatives/	Supervisor
К	Lift rebar into pile										
К1	Rebar slipping out of fibre strop.	Any site worker	5	5 3	15	A coupler must be attached to the top end of the rebar to give the rebar an edge. The coupler shall act as an edging where the fibre strop can tighten on to.	5	1	5	Ganger	Supervisor
L	Removal of spoil from pile position	by excavat	tor								
L1	Collision with worker, plant or structures.	All site workers	5	5 2	10	All site staff must wear Hi VI vests. Operator must ensure 360 degree vision is available at all times. Liaise with Main Contractor to ensure designated exclusion zone is provided. Consider installing metal crowd barriers if there are other it workers located close by. When setting up on site, ensure consideration is given to storage of materials minimising he risk of crossing pedestrian routes. A trained and competent banks man must co-ordinate all excavator movements whilst working in tight enclosed work area. Persons wishing to approach or to pass the excavator must make eye contact with the machine operator. No -one shall be located within 1m of the excavator. Excavators must always adhere o site traffic plan and never work over designated pedestrian route. Always ensure flashing beacon is used.	5	1	5	Main Contractor/ Operators / banksmen	Main Contractor/ Supervisor
М											
М1	Fall from height.	Rig operator / Ganger	3	3 2	6	PUWER reg 5&6) All rig operators must carry out daily checks and record on the weekly plant return forms (this must nclude checking the steps). Anyone climbing onto the rig steps must ensure the step is in good order and not covered n mud / debris. Any debris on boots should be kicked off prior to climbing up. Check steps not icy during winter nonths. De-icer is available in work vans. Tools must never be stored on the steps. Use permanent fixtures on rig to rab hold off if necessary, to aid climbing up onto racks. (working at height Rgs 3 & 14) No-one is to climb onto back of rig without the handrails being in place. If access s required to the mast then a MEWP or equivalent must be utilised. (see separate assessment rig access and egress)	3	1	3	Rig operator/ Ganger	Supervisor
				-		CEA Piling 4 of 4				-	

CFA Piling 4 of 4



				Operatio	on / Tas	sk:		Lifting and	installatior	of pile reinforcement		Prepared by:	HSEQ / Teams	Operat	ional	Rev 2 Date: Rev 1 Date:	
Locati	on:	Various Sites/ Y	ard	Departn	nent:				CANNON PI	LING - H&S		Issue Date:					Feb-20
	H&S Consequence, C	Env. Conseq	uence, C	Lik	kelihood	1, L				Likelihood						Acceptance	Criteria
1	Mino Injury	Minor impact/ ope	erational	Improba	able					1 2	3 4	5					
	First Aid injury	Community com	nplaints	Remote					1	1 2	3 4	5	R		Red - Ir	tolerable take ii	nmediate action
	Major injury	Major impact		Possible				>	2	2 4	6 8	10	Y				dditional controls
	Permanent consequence	Legal impact		Probable			1	erit	3	3 6	9 12	15	G				er action required
5	Potential Fatality	Major impact an	nd cost	Almost	certain		-	Severity	4	4 8	12 16	20					
×			ŝ	Dee		Diale		01	5	5 10	15 20	25	Dec	نطبيها	Diale	_	
TASK	HAZARD		Persons at Risk	C	ree of L	RISK	-		C	Control Measures			C	idual L	RISK	Person Responsible	Monitoring Responsibility
	General No	te.					points for h moment an professiona	norizontal, vertical and l nd shear force induced a al indemnity insurance.	lifting from th as the cage is Further inforr	esigned. The designer shall provid the horizontal to the vertical, the d lifted from horizontal to vertical. mation can be found in the FPS gu forcement cages for piling and wa	designer shall co . The designer m ;uidance note –	nsider the bending					
A	Vehicle/pedestrian interface		Site Staff	5	3	3 15				plan, this is to be communicated to the sup all other persons are to use pedestrian walky			5	1	5	Supervisor	Contract Manager
в B1	Injury through incorrect unloading reinforcement.	g of		N/A	N/A	A N/A	For unloading o	of reinforcement please refer to	o HA Unloading an	d Loading of Lorries.			N/A	N/A	N/#	N/A	N/A
В2	Slips, trips and falls.		Operatives	3	2	4 12	reinforcement i		nner to avoid havir	ed area, good housekeeping of the storag ng to step over items to retrieve the neede to be created.			3	2	e	5 Supervisor	Contract Manager
В3	laceration's from manual handling reinforcement.	I	Operatives	2	5	5 10	Where possible when handling		orcement is to be	avoided. Suitable gloves and Cannon Piling	g PPE requirements	must be worn at all times	2	1	. 3	Supervisor	Contract Manager
B4	musculoskeletal injury from manu reinforcement.	ial handling	Operatives	4	з	3 12	Where possible have been carri		g the reinforceme	nt is to be used. Where this is not practicabl	ole then a manual ha	ndling assessment is to	4	2	8	Supervisor	Contract Manager
С																	
C1	Striking of operative during lifting vertical.	g from horizontal to	Operatives	3	3	3 9	used, if this is r		o be clear of all obs	equired to hold tail end of reinforcement du structions, the distance to lift is to as short a			3	1	3	3 Supervisor	Contract Manager
C2	Fall of single rod reinforcement du	uring connection.	Operatives	3	4	4 12	a six monthly in		hings or strops are	that connects into rod connector. All lifting e not to be used. Lower rod to be held by cou			3	2	. 6	Supervisor	Contract Manager
C3	Fall of reinforcing cage into c lowered in.	asing when being	Operatives	3	2	4 12	lifting points as		lowered in using r	monthly inspection certificate. Cage is to b mechanical means. When cage is being low f casing used.				2		Supervisor	Contract Manager



				Operati	ion / Tas	k:		Loa	nding & un	loading of lo	orries				Prepared by:		ISEQ / eams	Operati	onal	Rev 2 Date: Rev 1 Date:	
Locati	ion:	Various Sites/ Y	Yard	Departi	ment:				CANNON	PILING - H&S				Ι	ssue Date:						Feb-2
	H&S Consequence, C	Env. Conseq	quence, C	Li	kelihood	, L				Likelihood									A	cceptance	Criteria
1		Minor impact/ op		Improb	able					1	2		3	4	5	_					
2		Community con	nplaints	Remote	-					1 1	2		3	4	5		R		Red - In	tolerable take i	mmediate action
		Major impact		Possible	-		-	>		2 2	4		6	8	10		Y				additional controls
		Legal impact		Probab	-		-	erit		3 3	6		9	12	15		G				her action required
5	Potential Fatality	Major impact ar	nd cost	Almost	certain			Seve		4 4	8 10		12 15	<u>16</u> 20	20 25						
SK			ons isk	Deg	ree of	Risk		••			10			20	23		Res	dual	Risk	Person	Monitoring
TASK	HAZARD		Persons at Risk	С	L	RR				Control M	easures						С	L	RR	Responsible	Responsibility
	General No	te.					supervised by and compete	ng operations on site / trained and compe nt persons only. Op requirement for wo	tent persons erators unde	s. The unloadir r training shal	g and loadi be supervis	ng of lorrie sed by an a	es are to l authorised	pe unde d emplo	ertaken by oyee. To	trained					
А	Loading or unloading o	on site																			
A1	Crane / Forklift / Telehandler us		Operator/ba nks man/ site staff	5	3	15	these must be pr	operations take place, the oduced prior to any lift c e agreed designated loadi	ommencing. Gr	ound conditions m	ust be assessed	for stability	. Loading ar	nd unload	ing must only	/ be	5	1	4	Operator	Supervisor
A2	Working from the truck bed/trail Falls from height.	ler	Operator/ba nks man/ site staff	4	3	12	in place, on the t	sure that if a person is re cruck/trailer. Where it is arresters system must be	not practicable	to have the edge f	all protection i						4	1	4	Operator	Supervisor
A3	Manually moving load around th Strain and sprain injuries	e truck bed.	Operator/ba nks man/ site staff	4	3	12	required a lift pla	II loads shall be positione an must be utilised. ally means are not possib						. If a crai	ne is		4	1	4	Operator	Supervisor



	PILING			Operati	on / Tas	k:			Site establi	shment 1 of 2		Prepared by:	HSEQ / Teams	Operati	onal	Rev 2 Date: Rev 1 Date:	
Locati	on: V	/arious Sites/ Ya	ard	Departr	nent:				CANNON F	PILING - H&S		Issue Date:					Feb-20
	H&S Consequence, C	Env. Consequ	uence, C	Lil	kelihood	, L		<u>^</u>		Likelihood					ŀ	Acceptance (	Criteria
		Minor impact/ ope		Improb	able					1	2 3	4 5					
2	2 /	Community com	nplaints	Remote					1	1	2 3	<mark>4</mark> 5	R		Red - In	tolerable take ir	nmediate action
3		Major impact		Possible			1	>	2	2 2	4 6	8 10	Y				dditional controls
4		_egal impact		Probabl				everity	3	3 3	6 9	12 15	G				er action required
	Potential Fatality	Major impact an	id cost	Almost	certain		-	ě	4	4	8 12	16 20					
$\sim$			s .,	<b>D</b>		D' I		0	5	5	10 15	20 25			D'.I		
TASK	HAZARD		Persons at Risk	Deg	ree of					Control Measu	res		Res	dual	-	Person	Monitoring
μ	11/12/11/0		Per at	С	L	RR				control wicdsu			С	L	RR	Responsible	Responsibility
	General Note	e.															
۸	Access to site															1	
A	Access to site			1			The Supervisor	r shall ensure that access (	roads including if	necessary public roads	are cleared of parked cars	pefore vehicles arrive. Movement to	- 1			Site	[
A1	Parked cars		All	5	3	15		by a competent banksman.	, 5,	necessary, public roads	are cleared or parked cars	before vehicles arrive. Hovement to	5	1	5	Supervisor	Contracts Manager
~1				5	5	15		,					5	1			contracts manager
	1						Supervisor to c	confirm on the hazard asse	ssment form that	platform is adequate or	to arrange for required imp	rovements to be implemented				Site	
A2	Adverse ground		All	3	3	9	before the wor			plation is adequate of	to arrange for required imp		3	1	9	Supervisor	Contracts Manager
	5			_	-								-	_			j-
							Movement to b	be controlled by a compete	ent banksman, if v	isibility is restricted. High	h visibility clothing must be	worn. All lorries reversing need to				Site	
A3	Vehicle Movements for persons or	n site.	All	5	3	15	have a banksm						5	1	5	5 Supervisor	Contracts Manager
								e delivered. All electrical sys									
	Vehicle Movements for pedestrian	ns outside site.		_				, ,	ent banksman, if v	isibility is restricted. High	h visibility clothing must be	worn. All lorries reversing need to	-			Site	
A4			Public	5	3	15	have a banksm	ıan.					5	1	5	Supervisor	Contracts Manager
В	Unloading cabins			1													
B1	Trip Hazards		All	3	3	q	Site area to be	e kept clear of trip hazards.					з	2	F	Site	Contracts Manager
51			7.01	5	3								5	2	Ŭ	Supervisor	contracts rianager
<b>D</b> 2	Advorce ground		Dankeman		2	10			essment form that	platform is adequate or	to arrange for required imp	rovements to be implemented	-			Site	Contracto Monocor
B2	Adverse ground		Banksman	5	2	10	before the wor	rk commences.					5	1	5	Supervisor	Contracts Manager
							Movement to b	be controlled by a compete	ent banksman. All	other people must be ke	ept clear.					Site	
B3	Collision with persons		All	5	3	15							5	1	5	Supervisor	Contracts Manager
			- ··													Site	
B4	Fall from height		Operatives	3	3	9	Cabins to be pr	provided with slings to allow	v slinging from gro	ound level.			3	1	Э	Supervisor	Contracts Manager
С	Electrical connections	of cabins ar	nd other	plant													
							Inspection cert	tificates for internal wiring,	, plugs and applia	nces are to be provided	when the cabin and its						
																<b>C</b> 11	
C1	Electrocution		Electrician	5	2	10					vill be completed. User check		5	1	5	Site Supervisor	Contracts Manager
							Site.	ections and tests to be car	neu out in accord	iance with the table in th	ie sarety instruction: Inspec	ions Of Electrical Equipment On				Supervisor	
							Site.										

D	Crane work										
D1	Crane work in General	Operatives	N/A	N/.	A N//	Please refer to a separate risk assessment for crane work.	N/A	N/A	N/A		
E	Site clearance										
E1	Puncture wound from a needle stick	Operatives	4	:	3 1	On site (railway embankments with access for the public alongside parks etc.) where needle sticks might reasonably be expected to be found, a sharp box, tongs and specialist gloves shall be provided. Tool box talks to be given explaining the hazards of needle sticks and the correct procedure for disposal. No person is to touch a needle stick without the required protective clothing. Any person who suffers a needle stick puncture will be required to seek medical attention.	4	1	. 4	Site Supervisor	Contracts Manager
E2	Asbestos	Operatives	4		3 1	Work is to cease on the discovery of asbestos. The affected area is to be cordoned off. Work is only to re- commence upon the written instruction with the correct management systems in place.	4	1	. 4	Site Supervisor	Contracts Manager
F	Unloading plant or equipment in	the street	t outsid	de a s	site						
F1	Trip hazards for members of the public	Public	3	:	3 9	Trip hazards to be protected or a man to stand guard. If unloading is occurring after dark, the trip hazard need to be protected or lit. All vehicles reversing must have a competent banksman.	3	2	6	Site Supervisor	Contracts Manager
G	Erecting tower scaffold platforms										
G1	Working platforms	Operatives	N/A	N//	A N/A	Please refer to a separate risk assessment: tower scaffold.	N/A	N/A	N/A		
Н	Erecting scaffolding for working p	olatforms									
Н1	Erecting Scaffolding	Operatives	3	:	3 9	Scaffolding will be erected by a sub-contractor, from which a risk assessment will be required. Scaffolders must have CPCS cards. Scaffolding to be erected in accordance with the requirements of SG4: The use of fall arrest equipment whilst erecting altering & dismantling scaffolding. All scaffolding is to be inspected weekly by a competent person.	3	2	6	Site Supervisor	Contracts Manager
Ι	While using a ladder										
I1	Ladder use inside or outside	Operatives	N/A	N//	A N/A	Please refer to the risk assessment: use of ladders.	N/A	N/A	N/A		
J	Access to site cabins										
J1	Slipping on steps/ stairs	All	3	:	3 9	Steps are meant to have an anti-slip surface. In particular, plywood sheeting is to be covered with chicken mesh or similar and must be kept free from mud etc.	3	2	6	Site Supervisor	Contracts Manager
						Site establishment 2 of 2					



				Operati	on / Tas	k:		Mot	oile elevated work p	platform	Prepared by:	HSEQ / 0 Teams	peratio	onal	Rev 2 Date: Rev 1 Date:	
Locati	ion: V	/arious Sites/ Ya	ard	Departr	nent:				CANNON PILING - H8	S	Issue Date:					Feb-20
	H&S Consequence, C	Env. Consequ	uence, C	Lił	kelihood	, L			Likelihoo	d				1	Acceptance C	Criteria
1	1 Mino Injury M	1inor impact/ ope	erational	Improb	able					1 2 3	4 5					
2		Community com	nplaints	Remote					1	1 2 3	4 5	R	1	Red - Ti	ntolerable take in	mediate action
3		lajor impact		Possible				>	2	2 4 6	8 10	Y				ditional controls
4		egal impact		Probabl				arit	3	3 6 9	12 15	G				er action required
5	5 Potential Fatality	1ajor impact an	id cost	Almost	certain			Severity	4	4 8 12	16 20					
$\sim$	1		<b>S</b>			<b>B</b> <sup>1</sup>		0	5	5 10 15	20 25			<u>.</u>		
Š	HAZARD		'sons Risk	Deg	ree of	Risk			Control	Measures		Resid	uall	Risk	Person	Monitoring
TASK	HAZAND		Per: at I	С	L	RR			control	Wedsures		С	L	RR	Responsible	Responsibility
	General Note	٩					Note: only tra	ained/ competent pe	ersons to operate the N	lobile Elevated work platfor	m (MEWP). MEWP operator					
							shall read the	MEWP operating &	safety manual. Safe we	orking load to be marked.						
Α	Travelling to point of wo	ork														
	Operator not trained or un	authorized to	Site				Only trained a	and unauthorised pers	son shall use the mobile	elevated work platform. Mo	pile elevated work platform					
A1	use the MEWP.		Worker s	5	2	10	ignition keys t	to be taken out of the	e ignition when not in us	se.		5	1		o Operator	Supervisor
			Site								The MEWP must be maintained					
A2	Failure of machine		Worker s	5	2	10		as per operators man a trained and compe		st never be exceeded. 6 mth	ly periodic inspections must be	5	1	i S	o Operator	Supervisor
			Site				Regular inspec	ctions of the work are	ea and traffic routes mu	st be undertaken by the main	n contractor and Cannon Piling				Principal	
A3	Over turning due to inadequ	uate surface	Worker s	5	3	15			a must be in good cond hen travelling over a dis		e elevated work platform boom	5	1	ļ,	Contractor / Operator	Supervisor
В	Using the MEWP			1 1	l							L I				
B1	Fall from height.		Operator	- 5	2	10	wear a safety	harness secured to a			work platform basket shall ne basket, the MEWP must be	5	1	t S	5 Operator	Supervisor
B2	Operating moving mobile e platform without a clear visi		Site Worker	5	2	10				or to positioning the MEWP. ed to ensure a clear and safe	Before the operator moves the movement.	5	1	Ţ	o Operator	Supervisor
В3	Working in the vicinity of ele		Site Worker s	5	3	15	any overhead	electric cables, the lo		must be contacted for advice	e is the need to work close by to . A request for the Electricity to	5	1	ţ	Construction Manager	Project Manager
B4	Falling equipment.		Site Worker s	5	3	15				o prevent them falling. All no rs whilst rigging is in process	n essential personnel must be	5	1	i S	Construction Manager	Project Manager
С	Storing of MEWP															
C1	Theft/ Vandalism		Anyone	e 4	3	12	Keys must alw machines at n	•	n all items of plant when	n the operator is away from t	he machine. Always lock up	4	1	4	Operator	Supervisor



				Operati	ion / Tas	k:		Forklift tru	uck and telescopic handlers 1 of 3	Prepared by:	HSEQ / Teams	Operati	onal	Rev 2 Date: Rev 1 Date:	
Locati	on:	Various Sites/ Y	'ard	Departi	ment:				CANNON PILING - H&S	Issue Date:					Feb-20
	H&S Consequence, C	Env. Conseq	uence, C	Li	kelihood	, L		-	Likelihood				ŀ	Acceptance (	Criteria
1	Mino Injury	Minor impact/ op	erational	Improb	able		]		1 2 3	4 5					
2	First Aid injury	Community con	nplaints	Remote	5				1 1 2 3	4 5	R		Pod - In	tolorable take i	nmediate action
	Major injury	Major impact		Possible					2 2 4 6	8 10	Y				ditional controls
	Permanent consequence	Legal impact		Probab				rit,	<u> </u>	<u>12</u> 15	G				er action required
5	Potential Fatality	Major impact ar	nd cost	Almost	certain			Severity	4 4 8 12	<u>16</u> <u>20</u>		0.			er action required
								۰ ۵	5 5 10 15	20 25					
Х.	HAZARD		ons isk	Deg	ree of	Risk			Control Measures		Res	idual	Risk	Person	Monitoring
TASK	HAZARD		Persons at Risk	С	L	RR			Control Measures		С	L	RR	Responsible	Responsibility
	General No	te.					under traini unless they	ing shall be supervised are road legal and the	bic handlers are only to be operated by trained and co d by an authorised employee. Telehandlers are not to e operator holds a current UK driving licence. Operat belt. Forklift truck or telescopic handler to have rollow	o be used on the highway or of forklift truck or					
Α	Use of forklift truck of	telescopic ha	ndler on s	ite											
	Overturning of truck due to ina	adequate surface	Operator	T	I		Supervisor t	to confirm on site haza	and assessment form that platform is adequate or to an	range for required	I	Γ			
A1				5	3	15			before work commences. Loads to be carried with fork		5	1	5	Operator	Supervisor
			<u> </u>												
A2	Overturning of truck on sloping	g surface	Operator	5	3	15	No travelling a	across the gradient. Load t	to be on uphill side of truck when travelling up or down a grad	ient.	5	1	5	Operator	Supervisor
A3	Overturning truck due to overl	oading.	Operator	5	3	15			wn (unless clearly not near the capacity of the truck or telesco centre distance not to be exceeded.	pic handler) and within the capacity	5	1	5	Operator	Supervisor
A4	Failure of truck or hydraulics.		Operator / site workers	5	2	10	machine on	delivery. Operator to ir erators handbook. Daily	more than 12 months old to be provided with the mac inspect the machine daily before use and carry out rou y inspection to be made by operator and a weekly insp	tine servicing in accordance	5	1	5	Operator	Supervisor
А5	Impact or collision.		Operator / site workers	5	3	15	visibility ass routes. Bank	sessment must be carrie ksman to be used for m	to be fitted with flashing beacon and audible reversin ied out on all plant. Forklift and telehandler must alwa nanoeuvring operations in restricted areas, or when vi- travelling unloaded make sure forks face downhill with	ys stick to designated traffic sibility is restricted and when	5	1	5	Operator	Supervisor
A6	Displaced or falling loads.		Operator / site workers	5	3	15			be lifted. The SWL must never be exceeded. Forks to shrink wrapped where practicable. Loose loads on palle	<i>,</i> ,	5	1	5	Operator	Supervisor
A7	Door swinging		Operator / site workers	3	3	9	Doors of cab t	to be closed when machine	e is in motion.		3	1	3	Operator	Supervisor
A8	Movement of unattended mac	hine.	Operator / site workers	5	2	10			when ever possible. Hand brake to be on with machine in neutr ust be switched off and the keys removed when the operator k		5	1	5	Operator	Supervisor
A9	Theft/ Vandalism		Operator/ site workers /	4	3	12	,	,	m all items of plant when the operator is away from th ays place shutters over windows and doors.	e machine. Always lock up	4	1	4	Operator	Supervisor

	Movement of load on ground while slings being attached or removed.	Operator/ site workers	3		; 9	Loads to be placed on suitable timbers to allow access for strops to go underneath and chocks, if movement of load is possible, to be used to prevent movement as load is taken by timbers.	3	1	. 3	Operator	Supervisor	
--	--	---------------------------	---	--	-----	---	---	---	-----	----------	------------	--

Image: Series of the series involved in any guick hith attachments must be dequately trained and series and advecting of guick hith and demonder of the series involved in any guick hith attachments must be dequately trained and series and advecting of guick hith attachments must be dequately trained and series and advecting of guick hith attachments must be dequately trained and series and advecting of guick hith man-rider to table and a guine of the series and advecting of guine of the series and advecting of guine of the series and advecting of the series and advecting of guine of the series advecting of the series and advecting of guine of the series advecting of the series and advecting of guine of the series advecting of the	В	Persons standing on forks or a platf	orm on the	folks t	o work						
Implexity and settering determinal determinal extension   Implexity and determinal called shall be stored on level provider. Many the setter and determinal called shall be stored on level provider. Many the setterminal called shall be stored on level provider. Many the setterminal called shall be stored on level provider. Many the setterminal called shall be stored on level provider. Many the setterminal called shall be stored on level provider. Many the setterminal called shall be stored on level provider. Many the setterminal called shall be stored on level provider. Many the setterminal called shall be stored on level provider. Many the setterminal called shall be stored on level provider. Many the setterminal called shall be stored on level provider. Many the setterminal called shall be stored on the setter provider. Many the setterminal called shall be stored on the setter provider. Many the setterminal called shall be stored and the setter stored and the setter stored stored store the setter stored stored be setter stored stored store stored stor	В1	Person falling off forks or platform.		5	4 20	and competent persons are to operate the man rider. Purpose built man rider to have certificate of thorough examination issued not more than 6 months previously. Daily inspections must be carried out and recorded on the Weekly plant inspection form. All operators involved in any quick hitch attachments must be adequately trained and		1	3	Operator	Supervisor
C1   blockst with griftmad.   all worken   all worken   all worken   all worken   all worken   blockst with griftmad.   blockst with griftmad.   blockst with griftmad.   all worken   blockst with griftmad.	С	Storing of quick fit man-rider									
Image: Section of electrical process of the section of the	C1			4	3		2	4 1	. 4	Operator	Supervisor
Image: Second	D	Adapting quick fit man-rider to tele	handler						•		
D1   Operator/ the workers   S <td></td>											
02   site workers   5   3   1   print engaged in the man rider backet.   real endemined real	D1	Fault in man-rider.		5	3	Operator to inspect the machine daily before use and to carry out routine servicing in accordance with the operators	5	5 1	. 5	Operator	Supervisor
D3   cables/hydraulic pipes.   Operator / site workers   s   a   a find performs much de varied and operate/in Any reproduct Site workers   s   1   S   Operator     D3   cables/hydraulic pipes.   Operator / site workers   S   3   as perificial data work in ground.   Superity and constrained in the product site workers   S   1   S   Operator   Superity and constrained in the product site workers   S   3   3   D operator / site workers   S   3   3   D operator / site workers   S   3   3   3   1   Operator / site workers   S   3   3   3   1   Operator / site workers   S   3   3   3   1   Operator / site workers   S   3   3   3   1   0	D2	Locking pin not engaging.		5	3		ŗ	5 1	. 5	Operator	Supervisor
E1   Untrained operative positioning telehandler.   Operator/ site workers   S   3   Diving operatives holding a current CPCS card and trained in the use of the remote controlled platform shall operate the site workers   S   1   S   Operator   Super super- telehandler with the platform.   S   1   S   Operator   Super super- telehandler with the platform.   S   1   S   Operator   Super super- telehandler with the platform.   S   1   S   Operator   Super super- telehandler cab.     F1   Persons operating the man-rider telehandler cab.   Worker   S   3   S   One protocols active. The man riding basket is only allowed to be controlled by the operator in the basket.   S   1   S   Operator   Super super super telehandler controls active. The man riding basket is only allowed to be controlled by the operator in the basket.   S   1   S   Operator   Super super super telehandler with quick fit man rider.   S   1   S   Operator   Super super super telehandler with quick fit man rider must only be used on a firm and level platform.   S   1   S   Operator   Super super super telehandler with quick fit man rider.   S   1   S   Operator   Super super super telehandler with quick fit man rider to wear harness with lanyards clipped to anchor positions p	D3			5	3	man-rider to be operated independently from the telehandler cab controls. Controls on platform to be tested before	e	5 1	. 5	Operator	Supervisor
E1   site workers   5   3   11   telehandler with the platform.   5   1   5   1   5   0perator   Super     E2   Over riding or not using hydraulic stabiliesrs.   5   3   11   hydraulic stabiliesr shall be used so that the from twheels are lifted off the ground. Safety measures are in ground.   5   1   5   0perator   Super     F2   Operating the man-rider   ************************************	E	Positioning of man-rider									
E2   Over riding or not using hydraulic stabilises.   site workers   5   3   1   5   1   5   1   5   0perator   Super     F4   Operator for medic function of the stabilises are not finally on the ground.   5   1   5   0perator   Super     F4   Operator for medic function operating man rider for medic function operation operating from the stabilises are not finally on the ground.   5   1   5   0perator   Super     F2   Untrained person operating final man rider for medic function operator is active. The man riding basket is only allowed to be controlled by the operator in the basket.   5   1   5   0perator   Super     F3   Working on uneven ground or soft ground.   Operator / site workers   3   15   Operator / site workers   5   1   5   0perator   Super     F4   Fall from height.   Operator / site workers   5   3   1   5   0perator   Super     G   Working in slewed position over extended time   S   1   5   0perator   Super     G1   Man-rider tuned right or left.   Operator / site workers   5   3   5   Safety pi	E1	Untrained operative positioning telehandler.		5	3		e t	5 1	. 5	Operator	Supervisor
F1   Persons operating man rider from   WOLKet   5   3   11   Once in position, telehandler operator shall engage switch in cab to make telehandler controls inactive and the man   5   1   5   Operator   Super     F2   Untrained person operating the man   worker   5   3   15   Operator   Super	E2	Over riding or not using hydraulic stabilisers.		5	3		ŗ	5 1	. 5	Operator	Supervisor
Partonic solution operation   s	F	Operating the man-rider									
F2   Untrained person operating the man index   5   3   15   Operator   Superator     F3   Working on uneven ground or soft ground.   Operator / site workers   3   15   Telehandler with quick fit man rider must only be used on a firm and level platform.   5   1   5   Operator   Superator     F4   Fall from height.   Operator / site workers   5   3   15   Persons in man rider to wear harness with lanyards clipped to anchor positions provided. The lanyard must be short enough to prevent   5   1   5   Operator   Super     G   Working in slewed position over extended time    Safety pin must be used when the man-rider is turned left or right to stop it from moving, there are purpose-made eye is it workers   5   1   5   Operator   Super     H   Descending/ lowering man-rider    Operator   5   3   15   Safety pin must be used when the man-rider, until it is safe to disembark. The man riding   5   1   5   Operator   Super     H   Descending/ lowering man-rider    Safety pin must be used when the man-rider, until it is safe to disembark. The man riding   5   1   5   0perator   Super     H   De	F1			5	3		ŗ	5 1	. 5	Operator	Supervisor
F3Working on uneven ground or soft ground.Operator / site workers315Telehandler with quick fit man rider must only be used on a firm and level platform.5150SuperF4Fall from height.Operator/ site workers5315Persons in man rider to wear harness with lanyards clipped to anchor positions provided. The lanyard must be short enough to prevent contact with the ground or other objects. Door to be secured and shut.51500SuperGWorking in slewed position over extended timeG1Man-rider turned right or left.Operator / site workers5315Safety pin must be used when the man-rider is turned left or right to stop it from moving, there are purpose-made eye to site workers515OperatorSuperHDescending/ lowering man-riderImage: start of the man-rider is turned left or right to stop it from moving, there are purpose-made eye to less on the man-rider and bracket for this function.515OperatorSuperHDescending/ lowering man-riderImage: start of the man-rider is turned left or right to stop it from moving, there are purpose-made eye to less on the man-rider and bracket for this function.5150peratorSuperHDescending/ lowering man-riderImage: start of the man-rider is turned left or right to stop it from moving, there are purpose-made eye to less the balance in the man-rider, until it is safe to disembark. The man riding to less the balance in	F2	Untrained person operating the man	worker	5	3			5 1	. 5	Operator	Supervisor
F4   Fall from height.   site workers   5   3   15   Contact with the ground or other object. To an or other object. The hardward must be shold ended to provide a shold on position position position operator.   5   1   5   0   Operator   Super     G   Working in slewed position over extended time   5   3   15   Safety pin must be used when the man-rider is turned left or right to stop it from moving, there are purpose-made eye   5   1   5   0perator   Super     G1   Man-rider turned right or left.   Operator / site workers   5   3   15   holes on the man-rider and bracket for this function.   5   1   5   0perator   Super     H   Descending/ lowering man-rider   H   A person disembarking the man-rider before it   Operator   5   3   15   Safety harness shall be worn and persons to remain in the man-rider, until it is safe to disembark. The man riding   5   1   5   Operator   Super     I1   Vise of quick hitch attachments   Image: safety dist in quick hitch for the particular machine, 6 month through examination certificate required for site workers   5   1   5   1   5   Operator   Super     I1   Fall of attachment.	F3				3	Telehandler with quick fit man rider must only be used on a firm and level platform.	5	5 1	. 5	Operator	Supervisor
Man-rider turned right or left.   Operator / site workers   Safety pin must be used when the man-rider is turned left or right to stop it from moving, there are purpose-made eye holes on the man-rider and bracket for this function.   Safety pin must be used when the man-rider is turned left or right to stop it from moving, there are purpose-made eye for the stop it from moving.   Safety pin must be used when the man-rider is turned left or right to stop it from moving, there are purpose-made eye for the stop it from moving.   Safety pin must be used when the man-rider is turned left or right to stop it from moving, there are purpose-made eye for the stop it for moving.   Safety pin must be used when the man-rider is turned left or right to stop it from moving, there are purpose-made eye for the stop it for moving.   Safety pin must be used when the man-rider is turned left or right to stop it from moving.   Safety pin must be used when the man-rider is turned left or right to stop it from moving, there are purpose-made eye for the stop it for moving.   Safety pin must be used when the man-rider is turned left or right to stop it from moving.   Safety pin must be used when the man-rider is turned left or right to stop it for moving.   Safety pin must be used when the man-rider is turned left or right to stop it for moving.   Safety pin must be used when the man-rider is turned left or right to stop it for moving.   Safety pin must be used when the man-rider is turned left or right to stop it for moving.   Safety pin must be used when the man-rider is turned left or right to stop it for moving.   Safety pin must be used when the man-rider is turned left or right to stop it for moving.   Safety pin must be used when the man-rider is turned left or right or tor turned left or righ	F4	Fall from height.		5	3		ţ	5 1	. 5	Operator	Supervisor
G1   site workers   5   3   15   holes on the man-rider and bracket for this function.   5   1   5   0perator   Super     H   Descending/ lowering man-rider     H1   A person disembarking the man-rider before it operator   0perator   5   3   15   Safety harness shall be worn and persons to remain in the man-rider, until it is safe to disembark. The man riding   5   1   5   0perator   Super     I   Use of quick hitch attachments   0perator / site workers   5   3   15   Operators to be trained in quick hitch for the particular machine, 6 month through examination certificate required for site workers   5   1   5   Operator   Super     11   Fall of attachment.   Operator / site workers   5   3   15   Operator sto be trained in quick hitch for the particular machine, 6 month through examination certificate required for site workers   5   1   5   Operator   Super	G	Working in slewed position over ex	tended time	е							
H1   A person disembarking the man-rider before it   Operator   5   3   15   Safety harness shall be worn and persons to remain in the man-rider, until it is safe to disembark. The man riding   5   1   5   Operator   Super     I   Use of quick hitch attachments   Operator / site workers   5   3   15   Operators to be trained in quick hitch for the particular machine, 6 month through examination certificate required for the attachment.   5   1   5   0perator   Super	G1	Man-rider turned right or left.		5	3		/e	5 1	. 5	Operator	Supervisor
Image: Sector in the sector is the sector	Н	Descending/ lowering man-rider			-		•	-			
I1 Fall of attachment. Operator / site workers 5 3 Departors to be trained in quick hitch for the particular machine, 6 month through examination certificate required for the attachment. Super	H1	A person disembarking the man-rider before it	Operator	5	3	Safety harness shall be worn and persons to remain in the man-rider, until it is safe to disembark. The man riding	5	5 1	5	Operator	Supervisor
I1 site workers 5 3 15 the attachment. 5 1 5 Operator Super	1	Use of quick hitch attachments									
Forklift truck and telescopic handlers 2 of 3	I1	Fall of attachment.		5	3		r t	5 1	5	Operator	Supervisor
						Forklift truck and telescopic handlers 2 of 3					

J	Use/ fitting of forks												
J1	Not attaching the fork mounted hook correctly.	Site Workers	5	3	8 15	All persons us	sing the folk mounted hook shall be trained in the correct fitting.		5		1 !	Operator	Supervisor
J2	The fork mounted hook slipping of the folks.	Site Workers	5	1		5 The fork mount the folks.	nted hook is designed in such away that when attached to the fork, the	locking bar automatically engages behind	5		1 !	o Operator	Supervisor
J3	Using a damaged fork mounted hook.	Site Workers	5	2	2 10		nted hook and frame must be examined before use and weekly. A 6 m a competent person. If damaged in anyway the fork mounted hook m	, , ,	5		1 !	5 Operator	Supervisor
J4	Manual Handling caused injuries	Operatives	3	3	8		ling personnel have been trained in the correct procedure when carryin on must be used to aid any lifting or carrying operations.	out manual handling. If needed a second	3		1	B Operator	Supervisor
К	Fuel storage/ refuelling												
K1	Fuel Spillage causing pollution	Environment	5	2	2 10	spill kits are lo	diesel bowser away from any water course and surface water drainage ocated close by. Ensure plant nappies are used when ever filling up iter not in use. Only store fuel in appropriate fuel cans. Oil and fuel must be	s of plant. Ensure diesel bowsers are	5		1 !	Supervisor Operator Banks man	Supervisor
К2	Flammable liquid causing fire	Environment Site Workers Members of Public	5	4	- 20	carried out wh	el stored is away from a direct heat source with in an appropriate bow hen the item of plant is switched off. Appropriate fire extinguishers mu ays ensure the correct PPE is being warn. i.e. Gloves, Overalls, Glasses	t be close by to any item of plant being	5		1 !	Supervisor Operator Banks man	Supervisor
-		-					Forklift truck and telescopic handlers 3 of 3		-	-	-	-	-



				Operat	ion / Tas	ik:			Excavator operation		Prepared by:	HSEQ / Teams	Operati	onal	Rev 2 Date: Rev 1 Date:	
Locati	on:	Various Sites/	Yard	Depart	ment:				CANNON PILING - H&S		Issue Date:					Feb-20
	H&S Consequence, C	Env. Consec	quence, C	Li	kelihood	, L		•	Likelihood					ŀ	Acceptance (	Criteria
	Mino Injury	Minor impact/ op		Improb			]		1 2	3	4 5					
	First Aid injury	Community cor	nplaints	Remote	-		1		1 1 2	3	4 <u>5</u>	R		Red - Ir	tolerable take ir	nmediate action
	· · · · · · ·	Major impact		Possibl	-		-	>	2 2 4	6	8 10	<u> </u>	Y	'ellow -	Tolerable with a	dditional controls
		Legal impact Major impact a	nd cost		certain		4	erit		9 1. 12 1	2 15	G	Gr	reen - To	plerable no furth	er action required
2	Potential Fatality	Major Impact a		AIIIIUSL	Certain			se <		15 2	20					
TASK	HAZARD		ons tisk	Deg	ree of	Risk		01	Control Measures	13 2	5	Res	idual	Risk	Person	Monitoring
ΤA	HALARD		Persons at Risk	С	L	RR	1		Control Measures			С	L	RR	Responsible	Responsibility
	General No	ite.					All hand too Hearing pro	otection to EN 352-2, ha	card. ected by the user, for damage. PPE to be and protection to EN 388 (mechanical haz e protection to EN166, head protection to	ards) and EN 374-3	<b>e</b> , .					
Α	Access & Egress															
A1	Slipping off steps / tracks		Anyone	3	3	; 9	be kicked off p steps. Use per	prior to climbing up. Check ste manent fixtures on rig to gral	ust ensure that the step is in good order and not cov eps not icy during winter months. De-icer is available b hold off if necessary to aid climbing up onto tracks ed to the mast then a MEWP or equivalent must be u	e in work vans. Tools mu s. No-one is to climb ont	ist never be stored on the	3	1	3	Excavator operator	Site Supervisor
A2	Visual Obstructions		Anyone	3	3	9	Anyone climbii specific hazarc		in vigilant and concentrate at all times. Supervisors	to carry out daily briefir	gs highlighting any	3	2	6	Excavator operator	Site Supervisor
A3	Poor Weather conditions		Anyone	3	3	9			d or rain. Snow must be brushed off prior to climbing t be kicked against tracks prior to climbing.	g. Use de-icer or someth	ing equally effective to	3	1	3	Excavator operator	Site Supervisor
A4	Storage of tools on steps		Operatives	3	3	9		ensure that no tools are left o vdriver, plastic caps, etc.	n the steps. Plant dept. to look at possibility of placing	ng a tool tray in a suital	ble position to store the	3	1	3	Excavator operator	Site Supervisor



				Operati	ion / Tas	k:			Air compressors	Prepared by:	HSEQ / Teams	Operat	ional	Rev 2 Date: Rev 1 Date:	
Locati	on: Va	arious Sites/ Ya	ard	Departi	ment:				CANNON PILING - H&S	Issue Date:					Feb-20
	H&S Consequence, C	Env. Consequ	ience, C	Li	kelihood	, L		4	Likelihood					Acceptance	Criteria
1	Mino Injury Mi	nor impact/ ope	rational	Improb	able				1 2	4 5				•	
2	First Aid injury Co	ommunity com	plaints	Remote	е				1 1 2	4 <u>5</u>	R		Ded T.	akalawahia kalua i	mmediate action
3	Major injury Ma	ajor impact		Possible	е				2 2 4	6 <mark>810</mark>	Y				dditional controls
4	Permanent consequence Le	egal impact		Probab	le			ity	3 3 6	<mark>) 12</mark> 15	G				ner action required
5	Potential Fatality Ma	ajor impact and	d cost	Almost	certain			Severity	4 4 8 1	16 20	-	G	een - i		
								Se	5 <mark>5</mark> 1011	20 25					
TASK			sk	Deg	ree of	Risk					Res	idual	Risk	Person	Monitoring
Ă	HAZARD		Persons at Risk		,   .				Control Measures		-			Responsible	Responsibility
T			Pe	C	L	RR					С	L	RR	Кезропзыне	Responsibility
	General Note														
•	Line of the community of			1	1	1	1				1	L			
A	Use of air compressor														
A1	Compressor moving across site	e.	Site	3	3	9	Compressor	to be placed on firm, lev	vel ground. Hand brake is to be engaged and if necessa	rv, wheels chocked.	3	1	3	Operator	Supervisor
	· -		workers	_	_			····,··,			_				
A2	Blast of air caused by the a being closed.	ir valves not	Site workers	3	3	9	Operator to e	ensure valves are closed	and hoses are connected before start up.		3	1	3	B Operator	Supervisor
	being closed.		workers				Whin checks	to be fitted to all conne	ections in the airline. Air compressor to be switch off an	d stored air released before joints					
۸3	Hose disconnecting striking per	rson	Site	5	3	15			e from compressor must be attached to equipment to b		5	1		Operator	Supervisor
AJ	hose disconnecting striking per	13011.	workers	J		15			. Ensure non essential personnel are kept away from ou		5	-		Operator	Supervisor
D	Defuelling	L					7 in muse only		Ensure non essential personnel are kept andy non of	work area where ever possible.					
В	Re fuelling			T							T				-
B1	Slippery site caused by spillage	e.	Site	3	3	9	All spillages t	to be immediately cleare	ed up. Drip tray to be placed underneath compressor.		3	1	3	Operator	Supervisor
			workers	-				· · · · · · · · · · · · · · · · · · ·			-				
B2	Fuel splashing on skin.		Site workers	2	3	6	Persons fuell	ing compressor to wear	rubber gloves, eye protection.		2	1	2	2 Operator	Supervisor
			Site												
B3	Fire.		workers	5	3	15	Hot refuelling	g is prohibited, Refuellin	ng of plant and equipment must only take place when n	ade dead "switched off".	5	1	. 5	Operator	Supervisor
C	End of shift or prolonged	hreak	nontero												
C	1 0		C'h -	1	<b>.</b>		2				1			-	
C1	Leaving compressor running al unauthorised use.	lowing	Site workers	4	3	12			d of shift or prolonged breaks; equipment must be lock	ed out preventing the use by	4	1		Operator	Supervisor
	Air left in receiver when hoses	are	WUIKEIS				unauthorised	i persons.							
C2	disconnected.	are	Operator	4	3	12	Before discor	nnecting hoses or equipr	ment, operator to ensure that air is purged out of recei	ver and hose.	4	1	. 4	1 Operator	Supervisor
											L				
D	Breakdown of compresso	or													
5	Breakages or Lack of maintena		Onerster	4	. 3	12	In order to r	aduce the rick of injury	from a breakdown, the energies chall carry out daily n	a usar shasks	4			Onempton	Cuperviser
DI	the compressor to destruction		Operator	4		12		educe the fisk of injury i	from a breakdown, the operator shall carry out daily p	e-user checks.	4	1	· · · · · ·	Operator	Supervisor
F	Location of compressor													-	•
-	counter or compressor			-	-						-		_	CD and a	
			Site		1		Compressor	to have a noise rating a	s low as is reasonable practicable. All operators and pe	sons in the immediate work area				CP employees/	
E1	Noise.		workers	4	3	12			ersons not wearing ear protection to be excluded from		4	1	4	subcontractors	Supervisor
			HUIKEIS		1			situate cui protectioni re	ereens net meaning car protection to be excluded nom						
				1	1						1			CP employees/	
E2	Fumes.		Site	-		15			vell ventilated area. The exhaust should be pointed a					subcontractors	
E2	i unes.		workers	5	3	15	stores units.	If it is necessary to work	k in an area that is not well ventilated, fume extraction	measures are to be provided.	5	1		,	Supervisor



				Operati	ion / Tas	sk:			Dumpers :	L of 2	Prepared by:	HSEQ / ( Teams	)perati	onal	Rev 2 Date: Rev 1 Date:	
Locati	on:	Various Sites/ Y	ard	Departr	ment:				CANNON PILIN	G - H&S	Issue Date:					Feb-20
	H&S Consequence, C	Env. Conseq		Lil	kelihood	, L			Lik	elihood				ŀ	Acceptance (	Criteria
	Mino Injury	Minor impact/ op		Improb						1 2	3 4 5					
	First Aid injury	Community com	nplaints	Remote					1	1 2	3 4 5	R	ſ	Red - Ir	ntolerable take ir	nmediate action
3	Major injury	Major impact		Possible				>	2	2 4		Y				ditional controls
4	Permanent consequence	Legal impact	d as at	Probabl				erit	3	3 6	$\frac{12}{16}$ 15	G	Gr	een - T	olerable no furth	er action required
5	Potential Fatality	Major impact ar	iu cost	Almost	certain		4	Severity	4							
$\mathbf{x}$		<u> </u>	sc A	Dog	ree of	Dick				<b>5</b> 10 1.	20 23	Posi	dual I	Dick	Person	Monitoring
TASK	HAZARD		rsons Risk			1			Col	ntrol Measures			uuaii	-		-
Ĥ			Per at	C	L	RR						С	L	RR	Responsible	Responsibility
	General No	te.					matrix. Ope	eratives shall hold a cu	irrent CPCS card.	and competent persons authori Operatives undergoing training : unless seated on the machine.						
A	All Operations															
A1	Failure of working parts of c of brakes	lumper. Failure	Operator/ Site Staff	5	3	15	machine dail	y before use and to carr	y out routine servic	ed. Foreman to inspect machine on ing in accordance with operators m et. Supervisor to arrange for faults	anual. Daily inspections must be	5	1	5	Operator / Supervisor	Supervisor/ Construction Manager
A2	Cuts to tyres, insufficient tr tyre pressures	ead or incorrect	Operator / Site Staff	5	3	15	As for hazard	d A1. Operators to check	tyre pressure if the		ssure is correct. Supervisor to carry	5	1	5	Operator/ Supervisor	Supervisor/ Construction Manager
В	Loading of dumper						innineulareiv.								•	Hundger
B1	Dumper moving.		Site Workers & Operator	3	2	6	Driver to swi persons stan		ke and to dismount	from dumper before loading. Drive	r to ensure that during loading other	3	1	3	Operator Banks man Supervisor	Construction Manager Supervisor Principal Contractor
B2	Overloading of dumper.		Site Workers & Operator	5	3	15	Load to be a	pplied evenly into dump	er skip. Load in skip	o not to exceed dumper capacity. Lo	ad not to impair vision.	5	1	5	Operator/ Supervisor	Supervisor/ Construction Manager
B3	Load spilling from dumper o equipment.	r loading	Site Workers & Operator	3	3	9	Load in skip	not to exceed dumper c	apacity. Operator/ t	banks man to ensure that other per	sons stand clear, during loading.	3	1	3	Operator Banks man Supervisor	Construction Manager Supervisor Principal Contractor
С	Travelling across site															
C1	Collision with other plant		Site Workers & Operator	4	3	12	all times. Fla brakes. A tra	shing beacon must alwa ained Banksman may be	ys be switched on v required to supervi	vhilst plant in use. Allow for wet brasse dumper movements. Always adh	ere to site traffic management plan.	4	1	4	Operator Banks man Supervisor	Construction Manager Supervisor Principal Contractor
C2	Unsuitable surface.		Operator	3	3	9	improvement	ts necessary to be imple	emented before wo		le for dumpers or to arrange for ays adhere to designated site traffic	3	1	3	Operator Banks man Supervisor	Construction Manager Supervisor Principal Contractor
С3	Harm caused to operator by overturning	dumper	Operator/ Site Staff	5	3	15	must never b	be used on gradients wh	ich are to steep. Th	imits and traffic routes must be adh e dumper must travel on slopes wit ng down slopes. If unsure stop and	h the load facing uphill. Maximum	5	1	5	Operator/ Supervisor	Construction Manager Supervisor Principal Contractor
C4	Dust		Operator/ Site Staff	2	4	8	contractor. If	f the dust cloud become	s dangerous or is h		e. Dust to be suppressed by main k must be stopped until the Principal eping operations.	2	2	4	Supervisor / Yard Foreman	Main Contractor/ Depot Manager
C5	Fall from dumper.		Operator	5	3	15	Dumper mus	t be fitted with safety b	elt which is to be w	orn while the dumper is moving. Ne	ver operated the controls unless	5	1	5	Operator	Supervisor

D	Storage of Plant					
D1	Theft/ Vandalism	Site Workers Members of Public	5	3		ust always be removed form all items of plant when the operator is away from the machine. Always lock up machines at f available always place shutters over windows and doors. 5 1 5 Operator Supervisor
D2	Dumper rolling way.	Site Workers Members of Public	5	3		r to be parked on flat ground with the handbrake on. Always use stop blocks when tipping into excavations. Allow for s Derator Supervisor
E	Refuelling					
E1	Fuel Spillage causing pollution	Environme nt	5	2	10 spill lock	store diesel bowser away from any water course and surface water drainage systems. Ensure adequate drip trays and s are located close by. Ensure plant nappies are used when ever filling up items of plant. Ensure diesel bowsers are when not in use. Only store fuel in appropriate fuel cans. Oil and fuel must be stored with in adequate bunds in the mathematical stores are back man stores are back man stores are back man stores are back man stores and stores are back man stores are bac
E2	Flammable liquid causing fire	Environme nt Site Workers Members of Public	5	4	20 carri	any fuel stored is away from a direct heat source with in an appropriate bowser or fuel can. All refuelling must only be out when the item of plant is switched off. Appropriate fire extinguishers must be close by to any item of plant being ad. Always ensure the correct PPE is being warn. i.e. Gloves, Overalls, Glasses. Fuel must be stored in the correct ers when not being used.
						Dumpers 2 of 2



				Operati	ion / Tas	sk:	Concrete breakers & scrabblers on site	Prepared by:	HSEQ / Teams	Operati	ional	Rev 2 Date: Rev 1 Date:	
.ocati	ion:	Various Sites/ Y	/ard	Departi	ment:		CANNON PILING - H&S	Issue Date:					Feb-2
	H&S Consequence, C	Env. Consec	quence, C	Li	kelihood	l, L	Likelihood					Acceptance (	Criteria
	Mino Injury	Minor impact/ op		Improb			1 2	3 4 5					
	First Aid injury	Community cor	nplaints	Remote			1 1 2	3 4 5	R		Red - I	ntolerable take ir	nmediate action
3	Major injury	Major impact		Possible				6 8 10	Y				dditional controls
4	Permanent consequence	Legal impact Major impact ar	. d	Probab	le certain			9 12 15 12 16 20	G	G	reen - T	olerable no furth	er action required
5	Potential Fatality	Major Impact an	iu cost	AIMOSL	certain		A A A A A A A A A A A A A A A A A A A	15 20 25					
$\mathbf{x}$		1	s ×	Dog	ree of	Dick		15 20 25	Por	idual	Dick	D	Monitoring
TASK	HAZARD	)	Persons at Risk		ree or		Control Measures			uuai		Person	Monitoring
È	1		Perat	C	L	RR			С	/ L /	RR	Responsible	Responsibility
	General No	ote.											
、 、			l		I							1	1
A	Use of breaker or scra	bbler										-	
							operators and persons in the immediate work area must wear suitable ear protection. Persons	not wearing ear protection to be				Main	
							cluded from the immediate work area, a distance of at least 20 metres from the noise producer					Contractor/	
A1	Noise.		Site workers	4	. 4	16			4	2	2	8 CP employees/	Supervisor
												sub-	
												contractors	
							bbler to be selected that will give a vibration acceleration dose as low as reasonably possible.	f quoted root mean square vibration			_		
							eleration level is above 2.5 m/s2, then the contract manager shall arrange for the operator to					CP employees/	Supervisor/
A2	Vibration.		Operator	4	. 4	16	ximum 10 mins on then 10 mins off. Thermal gloves may be required. Maximum daily dose over		4	. 2	2	8 sub-	Construction
							ly dose remains above 2.5 m/s2, health surveillance to be arranged by the Construction / Gene	al Manager.				contractors	Manager/ General Manager
										<u> </u>			Manager
							non constill revenued much be light successful the immediate area while suffice is being as	wind out. Cuitable our protoction much be upper				CP employees/	
A3	Flying particles		CP Operative	e 4	. 3	12	non essential personnel must be kept away from the immediate area whilst cutting is being ca all times by all personnel whilst cutting is being carried out.	ried out. Suitable eye protection must be worr	4	1	L	4 sub-	Supervisor
							an annes by an personner whilst catting is being carried out.			1		contractors	
												CP employees/	
Α4	Inhalation of dust		Site workers	4	. 3	12	st suppression must be used at all times. E.g. Water to dampen down any concrete being cu	t. Suitable dust mask must be worn when ever	4	1 1	1	4 sub-	Supervisor
							re is a risk of dust being produced and inhaled.					contractors	
)	Use of air line												1
,			1	r	1				r 1				T
							e user shall check the condition daily before use and complete a weekly inspection form for the	airline and the tool being used. Whin checks to				CP employees/	
B1	Breakage of air line.		Site workers	3	2	2 6	fitted to all joints and between the air tool and the line. All non essential personnel should be		3	1	L	3 sub-	Supervisor
												contractors	
							in the second second in the second second lines with the Main Combody second	we have a second dia dia 2014 and a large and 42 dia and 4				All CP	
							ore commencing on site the Construction Manager must liaise with the Main Contractor to ens a with adequate space for unloading. All airlines and leads must be laid to ensure the chance of					employees/ Main	Construction
B2	Trip Hazard		Site workers	3	3	9	be hung in the air or covered over. Good housekeeping practises must be encouraged by Cann		3	2	2	6 Contractor	Manager/
							ng equipment, re-bar, steel off cuts, etc. must not be allowed to build up.					and other site	Supervisor
												workers.	
2	Use of compressor												
							npressor to have a noise rating as low as is reasonable practicable. All operators and persons i	the immediate work area must wear suitable				CP employees/	
C1	Noise		Site workers	4	. З	3 12	protection. Persons not wearing as row as is reasonable practicable. An operators and persons is protection.	The minediate work area must wear suitable	4	1	L	<sup>4</sup> sub-	Supervisor
				I								contractors	
							npressor to be positioned in a well ventilated area. The exhaust should be pointed away from	ny office mess room or stores units. If it is		i		CP employees/	
C2	Fumes		Site workers	5	3	15	essary to work in an area that is not well ventilated, fume extraction measures are to be provided by the provided of the extraction measures are to be provided by the provided of the extraction measures are to be provided of the extraction		5	1	L	<mark>5</mark> sub-	Supervisor
				1	I							contractors	



				Operati	ion / Tas	sk:			Concrete Pumping 1 of 2	Prepared by:	HSEQ / Teams	Operat	ional	Rev 2 Date: Rev 1 Date:	
ocati	ion: Va	arious Sites/ Ya	ard	Departr	ment:				CANNON PILING - H&S	Issue Date:					Feb-2
	H&S Consequence, C	Env. Consequ	uence, C	Li	kelihood	1, L		-	Likelihood					Acceptance (	Criteria
	i inio injulij	inor impact/ ope		Improb					1 2	3 4 5					
		ommunity com	nplaints	Remote					1 1 2	3 4 5	R		Red - I	ntolerable take ir	nmediate action
-		ajor impact		Possible	-										dditional controls
4		egal impact ajor impact an	d cost	Probabl Almost				erit		9 <u>12</u> 15 12 16 20	G	G	reen - T	olerable no furth	er action required
3	Potential Fatality Ma	ajor impact am	u cost	AIIIIOSL	Certain			Severity		15 20 25					
X			ons sk	Deg	ree of	Risk					Res	idual	Risk	Person	Monitoring
TASK	HAZARD		Persons at Risk	C		RR			Control Measures		C	1	RR	Responsible	Responsibility
-				C	L.	ININ	NOTE: Mob	pile concrete numps k	hired without an operator, are only to be opera	ted by trained and competent	C	L	ININ		Responsibility
	General Note								oany skill matrix. Operatives under training shal	• •					
							employee.	Operators of lorry mo	ounted pumps shall hold a current CPCS card. L	orries reversing to the mixer areas					
							must alway	s be controlled with a	a banksman.						
	Use of concrete pump														
							Operator to v	wear suitable eye proter	ction which must prevent splashes entering the eye	s whilst working adjacent to pumping					
A1	Concrete splashes in eyes		Pump Man	4	3	12	area. e.g. (G	Goggles, Bolle Tracker Gl	ilasses, Visor)		4	1	. 4	Pump Man	Supervisor
					1		Chemical Sui	its must be available an	nd worn whenever there is a high risk of concrete or	grout coming into contact with normal	1				
۸ <u>٦</u>	Concrete splashes on skin		Pump Man	2	4				ant gloves, a long sleeved top and trousers must be		2	1		2 Pump Man	Supervisor
AZ	concrete spidanes on akin		Fump Man	2					le water tight footwear must be provided and worn a	at all times. Apply barrier cream before	2			2 Fullip Mali	Supervisor
									oply after washing hands.						
								•	certificate of pump on arrival. Daily inspection to be						
A3	Moving parts of pump		Pump Man	4	3	8 12			must be The moving part of the drum must be adea Hopper grill to be secured when operating. Engine t		4	1	. 4	4 Pump Man	Supervisor
			Pump Man				-	= 1	been assessed. Items of plant with average noise le						
			/						ar ear protection. Where reasonably practicable, noise		'				
A4	Excessive noise exposure for the	he operator.	, Any one	4	4	16	reduce noise				4	1	. 4	4 Pump Man	Supervisor
			close by												
3	Pumping concrete													-	
_			1	I	I		Couplings to	be fitted to all joints. P	Pipes and couplings, including hose clips and safety	hains, or whin checks, to be inspected	1				1
B1	Pipe connections parting, durin	na concretina	Any site	4	з	12			stectors or burry concrete hoses where ever possible		/ 4	1		Pump Man	Supervisor
	,	. y y	worker				vehicles cons	stantly running over the	e hoses.	_		-		i amp rian	Superviser
			A				Concrete hos	ses must be inspected ir	n the yard prior to delivery to site. The pump man r	nust visually inspect the hoses daily and	1				
B2	Pipe bursting during concreting		Any site worker	4	3	12	record on the	e hose inspection form.	Site foreman to ensure this is carried out. Plant De	pt. to maintain a register. Pipe kinks	4	1	. 4	4 Pump Man	Supervisor
			WUIKEI						le. It is advisable to use pipe protectors or burry cor	crete hoses where ever possible to					
							reduce the ri	isk of damage caused by	y vehicles constantly running over the hoses.						
	Cleaning hose lines with	compressed	d air												
			Pump Man											Ganger /	
C1	Escape of compressed air.		/ Ganger	4	3	3 12	No couplings	are to be undone until	the pressure has been released.		4	1	. 4	1 Pump Man	Supervisor
							Supervisor	o suponvico work Deres	and to stand clear. Drossure to be released before the	o coupling is loosoned. Suitable Fire					
<b>C</b> 7	Concrete splashing across site		Any site	2	4	1.2			ons to stand clear. Pressure to be released before pip ring the eyes must be worn. Methods of containing		2			Ganger /	Supervisor
C2	concrete splasning across site		worker	3	4	12	order.	, prevent concrete enter	The eyes must be worn. Methods of containing	concrete to be adopted in preferred	3	2		Pump Man	Supervisor
	Cleaning hall flying out		Any site	-				to be used. Find of much	to be chielded. Deveces to be loost along		-			, Ganger /	
C3	Cleaning ball flying out		worker	3	4	12	Dall catcher t	to be usea. End of run to	to be shielded. Persons to be kept clear.		3	2		Pump Man	Supervisor

D	Clearing a concrete blockage																
D1	Use compressed air and blow out cannon to clear a blockage.	Any site worker	4	4		mpressed air and the blow out cannon shall not be used to dislodge a concrete blockage in the line. All non essential rsonal must be excluded from the immediate area. bockages shall be cleared before any compressed air is used to clean out pipelines . Chemical Suits must be available and rn whenever there is a high risk of concrete or grout coming into contact with normal clothing or the skin. Chemical sistant gloves, suitable water tight footwear and a full face visor must be worn.		4	1	4 Ganger/ Pump Man	Supervisor						
D2	Collapsed rubber hose, ball not running through the line.	ed g	3	1	Ganger/ 3 Pump Man	Supervisor											
D3	D3 Concrete splashing across site. Any site worker 3 3 Pump man to instruct the pump man to reverse the concrete pump. All non essential personnel must be kept away from mixers/ delivery lorries								1	Ganger/ Pump Man	Supervisor						
E	Moving concrete hoses across the site																
E1	E1 Parting of hose/ musckletor injuries Any site worker 4 3 Hoses are to be moved across the site by machinery. Correct web slings, not rope lashing, to be used. Slings to be inspected before use. Personnel to stand clear. Crook type attachments must be used to move the hoses short distances. Grabbing the hose and trying to move it manually should be avoided at all times.									4 Ganger/ Pump Man	Supervisor						
						Concrete Pumping 2 of 2											



				Operati	ion / Tas	k:		A	brassive Whe	els 1 of 2		Prepared by:	HSEQ / Teams	0perat	ional	Rev 2 Date: Rev 1 Date:		
Locati	on:	Various Sites/ Y	ard	Departr	ment:				CANNON PILING	G - H&S		Issue Date:					Feb-20	
	H&S Consequence, C	Env. Conseq	uence, C	Lil	kelihood	, L			Like	lihood	•				1	Acceptance	Criteria	
	Mino Injury	Minor impact/ ope		Improb	able					1 2	3 4	5						
	First Aid injury	Community com	nplaints	Remote							R		Red - I	ntolerable take i	mmediate action			
	Major injury	Major impact		Possible	-								Y			- Tolerable with additional controls		
	Permanent consequence	Legal impact		Probabl	-			everity	3	3 6	9 12		G	G	reen - T	olerable no furth	ner action required	
5	Potential Fatality	Major impact an	id cost	Almost	certain													
$\sim$			s	Degree of Risk										idual Dick				
TASK	HAZARD		Persons at Risk	Deg	ree of				Con	trol Measures			Res	idual Risk		Person	Monitoring	
1	10.22.00		Per at	С	L	RR		control weasarcs						L	RR	Responsible	Responsibility	
							Note: Abras	sive wheels are only to	be operated by tr	ained, competent and author	rised personne	l only. Operators						
	General No	te					under train	ing shall be supervised	by an authorised	employee. Wheels are only to	o be changed b	ov trained and						
	Generalitie						competent	0 1	of an authorised		e se enangea s	, i unicu unu						
						L	competent	persons.						L				
A	Pre-start inspection																	
			Operator /															
A1	Using a faulty grinder anyone			3	3	12				II faults shall be reported to the s	supervisor. If fa	ults are found the	3	1	4	4 Operator	Supervisor	
			close				grinder shall	be tagged OUT OF ORDE	R and locked out.									
	Grinding stone wheel not	square or has	Operator /				Grinding stor	ne wheel shall be square	with the quide rest.	Only a trained /competent perso	on may dress th	e arindina wheel						
	grooves	square or nus	anyone	2		q	5	the correct tool to do so.	and guide rest	entry a crained / competent peret		e ginnanig inneer	2			Direction in the second s	C	
A3	5		close	3	3	9	···· ·, ··· j						3	1	-	3 Operator	Supervisor	
			by															
В	Fitting new grinding wh	heel/ stone																
			Operator /		[		Only trained,	/competent persons to ch	ange the wheel sto	one. Before using machine, must	t ensure the Sto	ne is secured firmly t	0					
B1	Wheel / disc coming off mac	chine	anyone	4	3	12	spindle. Powe	er source must be discon	nected prior to fittir	ng new wheel.			4	1	4	4 Operator	Supervisor	
51	······		close		J									-		operator	Supervisor	
	Machine operating causing in	niury to	by Operator /										-					
B2	persons		anyone	4	3	12	Power source	e must be disconnected p	rior to fitting a new	wheel.			4	1	4	4 Operator	Supervisor	
	persons		close		-			· · · · · · · · · · · · · · · · · ·	, j									
			Operator /						discs / wheels. The	correct tools must be used. The	guide rest shall	not be more the 3						
B3	Contact with the wheel or di	ISC	anyone	2	3	6	mm away fro	om the stone.					2	1		2 Operator	Supervisor	
	Fitting incorrect stone, caus	ing the stone to	close Operator /				Persons fittin	a the stone shall ensure	that the stone is th	e correct type for the job; this m	nust include cho	cking that the correct	+					
	burst	ing the stone to	anyone							the machine spindle and that th								
B4	54.50		close	4	3	12	stone.				ie damper dises		4	1	4	4 Operator	Supervisor	
			by															

С	Using the grinder														
C1	Flying Particles / Sparks or swarf causing injury	Operator / anyone close by	4		2 8	Operator to ensure that other personnel are not in the area. Correct PPE must be worn, this should include ear plugs, safety goggles, overalls. The shield on the grinder shall be lowered over the stone and the guide rest shall not be more the 3 mm away from the stone.	4	1		4 Operator	Supervisor				
C2	Untidy work area causing slips, trips and falls	Operator / anyone close by	3		3 9	Operator to ensure that other personnel are not in the area. Material shall not be stacked or stored around the grinder; area around the static grinder shall be kept clear of waste materials. Any mess created must be swept up as soon as possible. Supervisor to carry out regular workarounds encouraging good housekeeping practises.	3	1	. :	B Operator	Supervisor				
С3	Entanglement / Contact with moving wheel	Operator / anyone close by	4		3 12	The guard must always be in place when using the grinder. Loose clothing must not be worn when using the grinder. Long hair to be tied back or a cap to be worn. Jewellery to be removed.	4	1		l Operator	Supervisor				
C4	Sparks causing a fire	Operator / anyone close by	5		3 15	When working on site a Hot Work Permit must be issued before using any sthill saw or grinder. Combustible and flammable materials must not be stored near the grinder. Before commencing any grinding activities the operator must ensure the work area is free from any such material. Fire extinguishers must be located close to hand. All workshop staff are trained in the use of fire extinguishers.	5	1		5 Operator	Supervisor				
C5	Noise	Operator/ anyone close by	4		4 16	Suitable ear protection must be worn at all times whilst using abrasive wheels. Anyone working close by must be warned and they must also wear suitable hearing protection.	4	1	L	4 Operator	Supervisor				
C6	Dusts from materials being cut	Operator / anyone close by	4		3 12	Dust mask to be worn.	4	1	L	4 Operator	Supervisor				
C7	Vibration	Operator/ anyone close by	4		3 12	It is recommended that continuous use of grinding activities should not exceed 10 mins. Job rotation with other plant staff should be encouraged. Anyone who has been identified as suffering from early stage HAVs must be assessed by their line manager/ Occupational Health as to their compatibility to operate Vibrating machinery.	4	1	L	4 Operator	Supervisor				
C8	Bursting of the wheel or disc due to incorrect wheel/ stone being used	Operator / anyone close by	5		2 10	Operator to check machine and wheel before use. Persons fitting the stone shall ensure that the stone is the correct type for the job; this must include checking that the correct revolutions on the stone are correct for the revolution on the machine spindle and that the damper discs are in place on the stone.	5	1		5 Operator	Supervisor				
						Abrasive Wheels 2 of 2									

Abrassive Wheels 2 of 2



				Operat	ion / Tas	sk:		Mainte	nance & Inspectio	n of Plant		Prepared by:	HSEQ / Teams	Operati	onal	Rev 2 Date: Rev 1 Date:			
Locatio	on:	Various Sites/ Y	ard	Depart	ment:				CANNON PILING - H8	S		Issue Date:					Feb-20		
	H&S Consequence, C	Env. Conseq	uence, C	Li	ikelihood	I, L			Likelihoo	d		•		I		Acceptance (	Criteria		
1	Mino Injury	Minor impact/ op	erational	Improb	bable			1 2 3 4				4 5							
2	First Aid injury	Community com	nplaints	Remote	e				1	1 2	3	4 5	R	R Rod I		Intolerable take immediate action			
	Major injury	Major impact		Possible	-				2	2 4	4 6 8 10		Y	Yellow -		Tolerable take immediate action Tolerable with additional controls Tolerable no further action required			
	Permanent consequence	Legal impact		Probab	-			rit	3 3 6 9	9	<mark>12</mark> 15	G							
5	Potential Fatality	Major impact ar	id cost	Almost	t certain			Seve	4	4 8 5 10	12	<u>16 20</u>					er action required		
SK		្ត្រ៍ 🚆 Degree of Risk				01	Control		1.5	20 23	Res	idual	Risk	Person	Monitoring				
ΤA	HAZARD		Pers at R	С	L	RR			Control Measures					L	RR	Responsible	Responsibility		
	General No						company d	ote: All maintenance and inspection are to be carried out by competent persons who are trained and are on the ompany data base. All maintenance and inspection are to be carried out as required by the Plant Department and g manufacturer, following the manufactures operating instructions.											
4	Maintenance and insp	ection of plan	t																
A1	Entrapment by moving plant.		Operator	4	4 3	8 12		be isolated by the removal ers that maintenance/inspection				ection taking place. Signa	ge 4	1	2	Operator	Site supervisor		
A2	Falls from height.		Operator	5	5 3	8 15	control must b	eight be from behind suitable e followed, use work equipme t be eliminated, use work equ	ent or other measures to pr	event falls where they can	not avoid working a	height; and where the ris		1	5	Operator	Site supervisor		
A3	Exposure to harmfull substance	s.	Operator	4	4 3	8 12	All operators n	nust follow the control measu	res of the associated COSH	l assessments and wear th	e correct PPE as re	commended.	4	1		Operator	Site supervisor		



				Operati	ion / Tas	sk:		Welding, C	utting and A	Associated work on site	Prepared by:	HSEQ / Teams	Operati	onal	Rev 2 Date: Rev 1 Date:		
ocatio	on: Va	arious Sites/ Ya	ırd	Departr	ment:				CANNON P	LING - H&S	Issue Date:					Feb-20	
	H&S Consequence, C	Env. Conseque	ence, C	Li	kelihood	, L				Likelihood	-				Acceptance C	riteria	
1	Mino Injury Mir	nor impact/ oper	rational	Improb	able					1 2 3	4 5						
2	First Aid injury Co	ommunity comp	plaints	Remote	5				1	1 2 3	4 5	R		Pod - Tr	atolorablo tako in	modiato action	
3	Major injury Ma	ajor impact		Possible	e							Y			ntolerable take immediate action Tolerable with additional controls		
		gal impact		Probabl				Lit,	3	3 <mark>6</mark> 9	12 15	G				er action required	
5	Potential Fatality Ma	ajor impact and	d cost	Almost	certain			Severity	4	4 8 12	<u> </u>		0.				
								<u>ب</u>	5	5 10 15	20 25				1		
З			ons iisk	Deg	ree of	Risk		Control Management			Res	Residual F		Person	Monitoring		
TASK	HAZARD		Persons at Risk	С	L	RR				Control Measures		С	L	RR	Responsible	Responsibility	
							Note: This a	assessment covers cut	ting and weldi	ng work using electric arc welding ar	nd oxygen/ flammable gas						
							equinment	on various constructio	n sites Weldi	ng activities are only to be undertake	en by trained competent and						
	General Note.									<b>o</b> ,	, , ,						
								•	•	be issued by the main contractor or	a cannon piling foreman/						
	supervisor before any welding is carried out.																
4	Use of welding equipment																
	Fire and explosion from ignition	n of gas					Gas cylinders	s and hoses to be checke	ed for leaks, etc	. Arc welding equipment to be examined	by electrician regularly. Cylinders						
	cylinders		Welder /				to kept uprig	ght and secured. Valves t	o be closed whe	en not in use. Cylinders to be fitted with	appropriate regulator and gauge.					Mobile plant	
41			Site staff	5	3	15	arrestors be	a fitted on all lines. Cyline	ders must be st	ored in a cool dry place away from any c	lirect heat source.	5	1	5	Welders	manager, site	
							Flash-back t	to								foreman	
							Hot work ner	rmit must he in place pri	or to carrying o	ut any hot work operations. Flammable	materials must be removed from						
										d close by at all times. Welder to check						Mahila alaat	
	Fire from other flammable mate	Welder /		3	15				er use. Cutting and welding of drums or t		-	-	5	Maldava	Mobile plant		
42	File from other fiammable mate	eriais	Site staff	5	3	15				the appropriate procedure. This must in		S	1	5	Welders	manager,	
								with the Workshop Mana	5		5					Supervisors	
							Wolding ato	a must be undertaken	in well ventile	tod proper local expansion ventilation	may also be required in cortain	_				Mahila plant	
	E	Luci et el e	Welder /							ited areas. Local exhaust ventilation be undertaken at set timescales arrang		1	-			Mobile plant	
43	Fumes from rods, coatings and	i metais.	Site staff	4	4	16	circumstance	es to remove rumes. Hea		. De undertaken at set timescales arrang	ed by line management / HR.	4	2	8	Welders	manager, Supervisors	
																-	
			Welder /				Hot work per	ermit must be in place pri	or to carrving o	ut any hot works on site. Welder to excl	ude other persons from the					Mobile plant	
44	Hot metal surfaces.		Site staff	2	3	6				elder must wear welding gloves.	P	2	1	2	Welders	manager,	
			once ocan													Supervisors	
			Woldor/				Welder to ex	clude other persons fron	n the working a	rea. Barriers and signs may be required.	Welder must wear flame retardant					Mobile plant	
45	Flying splatter		Welder/ Site staff	3	3	9	overalls, app	propriate apron and weldi	ing gloves.			3	1	3	Welders	manager,	
			Site stan													Supervisors	
			Walder/													Mobile plant	
46	Excessive light/radiation for the	e welder.	Welder/	4	4	16	Approved we	elding Face shield must b	e warn by the w	velder		4	1	4	Welders	manager,	
			Site staff													Supervisors	
																Mobile plant	
47	Excessive light/radiation for oth	hers nearby.	Welder/	4	4	16			d working area.	Welder to exclude other persons from the	ne working area. Barriers and signs	4	2	8	Welders	manager,	
		, .	Site staff	I .	l '		may be requ	iired					-			Supervisors	
8	Storage of used hot weldi	ing rods			. <u> </u>		L					<u> </u>			<b>.</b>		
			Welder/														
31	Burns/ Scalds		Site staff	2	4	8	Used weld ro	ods should be immediate	ly placed in a sr	nall steel bucket or such like receptacle.		2	1	2	Welders	Welder, Supervisor	
-			Site Starl	I	I							I					
Ľ	Storage of gas cylinders			1	1							1 1			-	N 1 2 1 1	
			Welder/	I _	-					d cages and secured. Cylinders in use in	•	ו _				Mobile plant	
21	Fire and explosion.		Site staff	5	3	15				ying gas bottles must be ventilated, carr	y appropriate fire extinguishers	5	1	5	Welders	manager,	
							and display t	the correct hazard warning	ng signs.							Supervisors	

D	Use of burning gear for cutting stee									
D1	Excessive Light	Welder/ Site staff	4	4	Goggles to EN 166 class 3,4, 9-B fitted with a filter to EN 169 to be worn.	4	1	4	Welders	Mobile plant manager, Supervisors