

MS/ C1615

79 FitzJohn Avenue

Sheet Pile/ Kingpin Installation

24/03/2016

Author: Liam Tucker

Checker: Ali Maidman

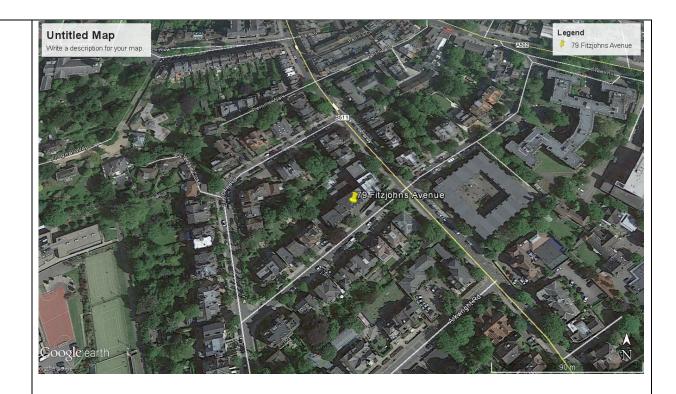


Ref	Pile Installation
	Description of the Works or Process
01/01	 This method statement covers the operations associated with the installation of sheet piles & kingpin posts with concrete panels.
	Access & Egress
01/02	The site should be prepared to a level stable platform for the piling equipment required for the works. The rig will be delivered to site on a low loader trailer and there should be room for this to safely access and egress site. Similarly sheet piles & kingpins will be delivered on flat bed rigid or articulated road lorries.
01/03	Control Measures (Permits etc)
01/03	 Hot works permit to be completed prior to any cutting or burning works. All plant & equipment to be inspected daily & daily inspection book completed & signed by operator. Piling records to be completed for all piles. Via a permit to pile/excavate, personnel should be made aware of proximity to any underground or overhead cables that are in the vicinity.
	Associated Risk Assessments
01/04	Task based risk assessments are attached to this method statement.
	Emergency Arrangements
01/05	 Pollution control – Spill kits to be available on site. Fuel bowser to be double bunded Bunds for concrete operations Local hospital route in case of an emergency – to be posted in main contractors site welfare accommodation Note: Above procedures to be advised to all personnel prior to commencement of
	works and recorded



	Monitoring & Compliance								
01/06	Monitoring and compliance is achieved through agreement with employing contractor's site management.								
	 Pile record sheets to be completed for all locations. Survey of surrounding properties to be completed by main contractor prior to commencement of vibratory piling. 								
	Roles & Personnel								
01/08	The following personnel are involved in this process;								
	Off site;								
	 Contracts Director – Joe Paine – 07872 373690 Contracts Manager- Liam Tucker- 07595651565 Engineer – Ali Maidman – 07887415669 								
	On site;								
	 Rig Operator x 1 Pile Hand x 2 								
	Concrete pump operator x1Gieken operator x1								
	Movax operastor x1								
	Site Address								
01/09	Woodmace Site Compound Fitzjohn's Ave, London NW3								





Site Deliveries and Equipment

Materials & Equipment Deliveries and Collections during These Operations

- Klemm 709 C/W 600 Augers
- 50T Crane
- F301 Giken Silent Piler
- Agitator
- Assorted hand tools
- Welder
- Concrete pump
- Piles
- Kingpin Steels
- Jetwash
- Movax unit
- 20T Excavator
- Concrete panels
- C35 Concrete



01/10	Methodology	HAZARD CONTROL MEASURES
	All personnel will be given a site induction by the client's site staff on site limits and site hazards, including all known services. All Suttle Projects operations will be conducted in accordance with current PUWER and LOLER regulations.	
	Sheet pile line setup	
	The correct pile line will be achieved using measurement by tape off pegs or pins. The pile line will be set out by the client prior to the piling works.	
	Only CPCS operatives are to drive the MEWP and harnesses are to be worn at all times when in the man basket.	
	Sheet piles have been chosen to be used on the East & West boundary consisting of 9m L600 series piles, the chosen method of installation is vibration less piling with a Gieken silent piling rig, 3 no piles will need to be installed by vibration methods so that the Gieken has something to start from, it will be lifted into position by a Mobile crane, method of installation is as follow;	
	Installation of Sheet Piles (MOVAX and Giken Silent Piler)	
	The Giken silent piler will be lifted, utilising A 50T crane, onto the pile line (onto the piles which were installed by vibratory means before the change to the method of installation) in such a position as to allow the silent piler the grip 3nr of these piles which act as 'Reaction Piles' (See diagram below) in this instance.	



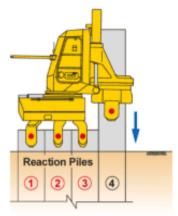


Image taken from http://atsunewgiken.com/services/

The MOVAX then lifts the next pile up to the drive unit of the silent piler where the pile is then gripped by the silent piler and driven to the required depth (4).

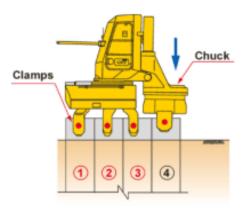


Image taken from http://atsunewgiken.com/services/

Once the driven pile has been installed the silent piler moves onto the installed pile and re grips the piles. The process for installation is then repeated until the line of piles is completed.

Should it been deemed necessary by the site conditions installed pile clutches will be linked by welding to increase the driving reaction force.

The silent piler will rest on the pile line between shifts unless the security of the site deems that it must be removed.

Once complete the silent piler will be removed from the pile line utilising the 50T crane and removed from site.



Mobilisation

All deliveries will be unloaded using the a excavator which will be supplied by Suttle Projects and with the use certified chains and appropriate slinger signaller, some items will be towed to site for example the jet wash bowser, the equipment will be set up in the appropriate manner to which the site allows, the 709 drill rig will be delivered by a low loader with 13m of 600mm diameter augers,

Where there is any reversing of plant there is to be a banksman with the vehicle/machine at all times.

The agitator will be delivered on a roll on roll of skip lorry and placed in a position in the centre of the site next to or in an area where the concrete pump will be located. The UC steel sections will be delivered on a flatbed lorry and unloaded by utilising a machine and a slinger/signaller

Pile Installation

Once the services search has been undertaken and pile locations have been verified and marked out by the client and the relevant machine safety checks have been carried out the rig operator will position the rig over the first hole and plumbed and align his mast and will commence drilling to the required depth which is between 9-12m with 600mm diameter augers the Klemm 709 is fitted with a safety cage around the mast to stop any persons coming into contact with the rotating augers.

For the depth of pile proposed the cage should not need to be opened. If, however, the cage is opened while drilling this will break the contact of the solenoid and reduce the flow to the hydraulic rotational pump and slow the rotation of the augers down to minimise injury the cage is also fitted with emergency stop buttons around it so in case of an emergency once these are pressed it will shut the whole machine down.

Once at the required depth the operator will bring the auger up about 250mm and rest the auger on a plate, the auger will then be unattached from the drill rig in order to pop the bung out of the bottom of the auger this is done with a metal bar attached to some rope once the bung is popped the drill rig operator will reattach the drill head and give the instruction to the pump operative to commence with the concreting procedures. As the concrete is pumped into the bore the operator will simultaneously bring the augers up the bore until it is



filled to the required level. Taking care so as to keep the level of concrete above the cutter head for maximum support of the bore

Placing UC steel sections

The excavator will be situated behind the piling rig to minimise the risk of interfering with piling operations. The designated UC section will then be pitched utilising the Movax rig; the Movax hammer unit will be articulated over the steel section & side-grip jaws will clamp onto the web of the steel. The Movax rig will then lift the steel vertically & position over the concrete filled bore for insertion to depth. Line & level will be controlled throughout the steel pitching process to ensure the correct positioning.

Concrete pumping procedure

The concrete/grout pump operator will undertake daily checks of the pump and hoses ensuring all connections are fit for use and that all whip check components are connected properly. The operator will then record and report any defects when doing his daily checks. The operator will then line the hoses with a product called prima pump (COSHH sheet is attached) this is only required at the start of each shift.

A bund will be set up around the agitator comprised of 75mm bog matts and bulk timbers lined with membrane to contain waste allowing for easy disposal upon completion of the works.

Where concrete is to be used, it will be delivered ready-mixed & in an agitator lorry & transferred via the concrete pump into a 6m3 static agitator holding drum for use as-and-when required.

The agitator lorries will be set aside a lined skip in the entrance/ exit to the site to wash out into.

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Once the signal has been given the pump operator will transfer the concrete from the agitator to the pump, pumping will commence and will be monitored until the pile is filled no pile should be started without enough concrete to complete the pile.

Once the pump has been used the hoses become pressurised and should be back wound before unclipping them.

The equipment will be jet washed and cleaned at the end of every shift and cleaning balls will be pushed through the hoses using a compressor they will do this 3 times for any excess concrete there will be a separate bund made to stop any contamination with any other materials, the operator will be wearing the correct gloves at all times to stop any contact with the concrete stop any burns/skin diseases, he will also have full length sleeves on upper body, correct eye protection to be worn at all times.

Cleaning out of hoses procedure

To maintain a safe system of cleaning out of hoses the following measures need to be adopted and followed;

- 1. Only a CPCS trained pump operative to blow the hoses out.
- 2. The rig must be positioned as far away from the site boundaries as possible
- 3. The auger of the rig must be placed in a bund made from pile arising's which surrounds the auger, a sheet of ply will be used on the front of the auger and held in place by bund material, this will stop any debris from being projected
- 4. A blow out canon will be used at the pump end of the hoses, this is attached to a compressor, a cleaning ball will be inserted into the hoses and the canon will be attached and secured in place with a clip and pin, the CPCS operative will give the signal for an operative to turn the compressor on, when the compressor is ready the Pump operator will release the tap on the canon building up pressure in the line allowing the ball to be pushed through clearing out the concrete, the pump operator will determine the appropriate amount of pressure based on hose length and training received, once cleaned water will be discharged into the hoses and another ball placed in the hoses and the process repeated.
- 5. On completion the concrete discharged will be allowed to harden and disposed of accordingly.



MANUAL HANDLING

Where there is need to do any manual handling the operatives must assess the load and where possible use a machine to do the lifting.

Installation of concrete sections

Concrete sections will be brought to site in road lorries. The section of embankment between the king posts will be excavated to the required depth, using the Woodmace excavator, and stock piled or removed from site to an appropriate place of tipping by Woodmace. The bottom concrete section will then be lowered onto the prepared bottom of excavation using the excavator and propriety lifting tackle. All lifting equipment is to be in date and with the correct certificates.

The second section placed on top. This process is repeated until section is complete before moving onto the next section.

Above process will be repeated for remaining sections of embankment. The specially designed lifting attachments will be removed at higher levels utilising a scissor lift or similar.

PERSONNEL TRAINING & CERTIFICATION Plant operators CPCS or equivalent Card. Manufacturer's certification of competence for pile rig. All operatives CSCS Card. Method Statement Briefing & Site Induction.

COSHH ASSESSMENT								
Diesel	Yes							
Engine Oil	Yes							
Hydraulic Oil	Yes							
Concrete	Yes							
ENVIRONMENTAL IMPACTS								



Pollution Control	 Spill kits to be available on site at all times. Machines to be turned off when not in use. Bunds for excess Concrete
Tracking Damage	If required, tracks/paths/hard landscape areas will be protected when moving the rigs.
Noise & Vibration	Monitored during initial phase of operation – measures taken accordingly



SITE RECEIPT

PROJECT Nr: 1615

PROJECT NAME: Fitzjohn Avenue

ACTIVITY: Sheet Pile & Kingpin Installation

NAME	sented and explained to mo	DOCITION	DATE
NAME	SIGNATURE	POSITION	DATE



COSHH Data Sheets

Substance: DIESEL (As fuel)

Supplier & Phone

No:

Upton Fuels 01425 472659

Description of

Product

Diesel.

Hazardous Content

Polycyclic aromatic hydrocarbons

Classification (Delete as appropriate)









Harmful

Irritant

Corrosive Highly Flammable

Requirements Fo	or Use
Area on site	All areas
Activity on site	Fuel for diesel powered plant and machinery
Hazards	
Warning	Continuous skin contact can cause skin diseases (dermatitis) Possible long term risk of skin cancer Inhalation of mist/vapours – aspiration into lungs
Duration	As required to suit site conditions
Risk to Health	Eye contact Ingestion Skin contact
Control	Wear suitable protective clothing, gloves and eye/face protection
Measure	Use barrier cream to provide additional protection Wash regular with clean warm soapy water
Storage	Approved containers in a flame proof lock-up
Disposal	In accordance with the general requirements of the regulations made under the environmental protection act (epa) 1990 and the control of pollution (amend) act 1989
First Aid Treatme	ent
Inhalation	Remove victim from area. If respiratory any problems persist seek medical advice. Administer first aid
Eye Contact	Irrigate copiously with clean fresh water obtain medical advice if symptoms persist
Skin Contact	Remove contaminated clothing wash areas with clean soapy water Clean skin with cleaning cream, soap and water. Do not use solvents, thinners or white spirits to clean skin/hands
Ingestion	Rinse out mouth with clean water. Do not induce vomiting



Substance: Eng	gine Oil				Refe	erence No.:	002
Supplier & Phone No:	•	on Fuels 25 4726					
Description of Product	Eng	gine Oil		Hazardous Content		yldithiophosp es, hydrocarb s	
Classification (Delete as appropriate)	<		<u>(1)</u>	T. S.			
	Har	mful	Irritant	Corrosive	Highly Flammabl e	Toxic	
Requirements Fo	or Use						
Area on site	All areas						
Activity on site	Lubricatir	ng oil for	automotive	, plant, tools e	tc.		
Hazards							
Warning				rmful to aquation	c organisms		
Duration			t site condit				
Risk to Health	Unlikely to cause eye irritation. Unlikely to cause immediate irritation but prolonged and repeated contact may be harmful to the skin. Can cause occupational skin diseases (dermatitis). It is not likely to be an inhalation hazard at normal ambient temperatures. If overheated, fumes and vapours can be irritating to the breathing.						e
Control Measure							an gloves
Storage	Keep away from food and drink. Keep container tightly closed. Keep only in original container.						
Disposal	In accordance with the general requirements of the regulations made under the environmental protection act (epa) 1990 and the control of pollution (amend) act 1989						
First Aid Treatme							
Inhalation				Obtain medica			
Eye Contact	medical a	advice if	symptoms				
Skin Contact	Wash cor			n plenty of clea	n soapy water	. Wash conta	aminated
Ingestion	Rinse out mouth with clean water. Do <u>not</u> induce vomiting or give fluids. Obtain medical advice						



Substance: Prin	ne a pump Reference No.: 019						
Supplier & Phone No:	Lansdowne Products Ltd Tollgate House Pen-Y-Cefn, Caerwys Flintshire, CH7 5BP UK Tel: 0845 300 8073						
Description of Product	Concrete pump primer Hazardous Content Sodium Carbonate						
Classification (Delete as appropriate)	Irritant						
Requirements Fo	or Use						
Area on site	All Sites						
Activity on site	Priming concrete hoses						
Hazards							
Warning	Avoid contact with eyes and contains fine particles that could be inhaled.						
Duration	As required to suit site conditions						
Risk to Health	Repeated contact may cause dryness to skin. Large doses ingested may burn gastrointestinal tract. High concentrations may irritate respiratory system May cause some irritation to eyes						
Control Measure RESPIRATORY PROTECTION, Wear appropriate dust mask EYE PROTECTION, Wear appropriate safety goggles SKIN PROTECTION, Wear appropriate overalls HAND PROTECTION, Wear gloves							
	HYGENIC WORK ROUTINES, Wash at the end of each shift and before eating, smoking and using the toilet.						
Storage	Ambient temperature and dry conditions						
Disposal PRODUCT, Via an authorised disposal agent to an approved disposal site Observe all local, national and international regulations. PACKAGING, Dispose of empty containers in accordance with local and regulations.							
First Aid Treatme							
Inhalation	N/A						
Eye Contact	Immediately and gently irrigate with clean water for 15 minutes. Seek medical attention.						
Skin Contact	Wash with plenty of water. Remove contaminated clothing						
Ingestion	Rinse out mouth with water and give plenty of water to drink. Do not induce vomiting. Seek medical attention.						



Substance: Fuc	chs Bio-Degradable Hydraul	ic Oil	Reference No.: 004						
Supplier & Phono		Fuchs Lubricants 08701 200400 (emergency number)							
Description of Product	Biodegradable hydraulic oil.	Hazardous Content	Sodium Solphonate, fatty acids, alcohols, ethanol.						
Classification (Delete as appropriate)	Irritant								
Requirements Fo	or Use								
Area on site	All areas								
Activity on site	Hydraulic oil for machines.								
Hazards									
Warning	avoid splash loading.		of ignition when refuelling engines,						
Duration	As required to suit site cor								
Risk to Health	Unlikely to cause eye irrita prolonged and repeated co occupational skin diseases	ontact may be harmf							
Control Measure	Wear clean long sleeve su is a risk of splashing use p chemical goggles or faces	nitable robust protect protective chemical ro heild (en 166). kin contact should be	e avoided by use of clean gloves						
Storage			direct sunlight in well ventilated						
Disposal In accordance with the general requirements of the regulations made und environmental protection act (epa) 1990 and the control of pollution (amm act 1989, under no circumstances should oil be discharged into the public drainage system, marine and inland waterways.									
First Aid Treatme									
Inhalation	Remove to fresh air, get m								
Eye Contact	continues get medical adv	ice.	rater, if redness and / or irritation						
Skin Contact	clothing immediately and lapersists.	aunder before reuse	water, change contaminated , get medical advice if irritation						
Ingestion	Wash out mouth with wate aspiration.	er. Do not induce von	niting because of the danger of						



Contract								Cl	lient									
Con	tract No.							Da	ate:									
Acti	vity: Operations							Ris	Risk Assessment No:					Rev	00			
	ty affecting appropriate box)	Employee	Y	Third party	Y	Vehi	icle		F	Plant		Property		FREQUEN	ICY X SE	VERITY		
N0	HAZARD	POSSIBLE CONSEQUENCES							E- CON					ES	POST-CONTROL F x C = R			
1	Trip & slips	Impact Injuries						3	5	15	Do not sto around acces	ess points are k ore tools or mat as points Il work areas a	terials in the w		2	5	10	
2	Falling objects	Head Injury					3	5	15		ats must be worn at all times. Operatives not d in the lifting operations must keep clear.			2	5	10		
3	Manual lifting	Back injury & other strains						4	4	16		ble use mechar d way. Never s		e. Only lift in the when lifting.	2	4	8	
FREQU	JENCY OF OCCURRENCE	SCORE	SEVERIT OR LOSS	Y OF: INJURY	Y / DAMAGE		SCORE	RIS	RISK RATING			ACTION			TIMES	SCALE		
	bable = Infrequent	1	Trivial i	njury(ies)		1	Lo	Low		∠ow		1-6	Review Ris	k & Existing (Controls	12 -	18 Mo	nths
Possib	le = Annual onal = 2 – 3 Times per Year	2 3	Minor injury (ies) Major injury				2 3	Me	Medium		7 – 12 Review Risk & Existing Controls		Controls	3 – 12 Months		nths		
Frequent = Monthly		4	33				4	Hiş	High		12 – 19	19 Review Risk & Existing Controls		Controls	0-3 Months			
Regular = Weekly 5		5	Death			5	Ma	<u>Major</u>		<u>19 – 25</u>	19-25 Review Risk & Existing controls		controls	Immediately		ely		
Cor	npiled By: A Españ	ia Zamora			Date: 15 /	/10/1	5	Revi	ewed	l by:	L Tucke	er			Date			
Signature(s): AEspaña					Signa	Signature: L Tucker						15/	10/15					

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Cont	cract							Cli	ent										
Cont	cract No.							Date:											
Activ	vity: Piling Operation					Risk	Asse	ssment	No:					Rev	00				
	y affecting appropriate box)	Employee	Y	Third party	Y	Vehicle		Y Plant Y Property Y FREQU						FREQUEN	ENCY X SEVERITY				
N0	HAZARD		SIBLE CONSI	EQUENCES				CON	TROL = R		CONTRO	L MEAS	SURES			ROL R			
4	Unstable loads	Crushing injury							5	15	Signaller to hadio contact	Competent Slinger / Signaller to be employed. Slinger / Signaller to have visual contact with the load and visual or radio contact with the crane operator. Operatives to keep clear of all lifting operations							
5	Incorrect Slinging	Crushing injury							5	20	inspection by have a currer inspection by exceed the sl All slings to	Slinger / Sign	aller prio st certific aller on a fied. e lockup.		2	5	10		
FREQU	JENCY OF OCCURRENCE	Score	SEVERIT OR LOSS	Y OF: INJUR	Y / DAMAGE	Sco	RE	RIS	K RA	TING		ACTION				TIME	SCALE		
	oable = Infrequent	1		injury(ies)			1	Low			1-6	Review Risl	& Exist	ting Cor	<u>ntrols</u>	12 -	- 18 Mo	nths	
Possibl	e = Annual onal = 2 – 3 Times per Year	2 3		injury (ies) injury			2	Med	ium		7 – 12	Review Ris	k & Exis	sting Co	ontrols	3 –	12 Mo	nths	
Freque	nt = Monthly	4	Amputatio				4	High	High		12 – 19	Review Ris	k & Exis	sting Co	ontrols	0 -	3 Mor	ths	
Regula	Regular = Weekly 5 Death						5	Majo	or		<u>19 – 25</u> Review Ris		k & Exis	isting co	ontrols	Imm	ediate	ely	
Cor	npiled By: A Espai	ña Zamora			Date: 15/	Date: 15/10/15 Reviewed					L Tucke	er				Date:			
	ature(s) : AEspaña]						ucker					15/10/15						

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Cont	ract					Cl	ient							
Cont	ract No.					Da	ate:							
Activ	vity: Piling Operation	Risk Assessment No:								Rev	00			
N0	HAZARD		POSSIBLE CONSE	EQUENCES	PRE-CONTROL F x C = R					CONTRO	DL MEASURES	_	FROL R	
6	Swinging loads	Crushing in	njuries			3	5	15			en possible. Never lift when it is vertical position	1	5	5
7	Operating with Excavators	Crushing I	njury			3 5 15			All site perso operation to be the slewing at	oe well illumi	2	5	10	
8	Public Access	Injury/mine	or			3	3 3 9		Pedestrian routes to be clearly marked. No public access to be allowed in the areas of operations.			1	3	3
FREQU	ENCY OF OCCURRENCE	SCORE	SEVERITY OF: INJURY OR LOSS	Y / DAMAGE	SCORE	RIS	SK RAT	TING		ACTION		TIME	CSCALE	
	pable = Infrequent	1	Trivial injury(ies)		1	Lov	w		1-6	Review Ris	sk & Existing Controls	12	- 18 M	onths
Possibl Occasio	e = Annual onal = 2 – 3 Times per Year	2 3	Minor injury (ies) Major injury		2 3		dium		7 – 12		sk & Existing Controls		-12 Mo	
Freque	nt = Monthly	4	Amputation		4 5	Hig			12 – 19		sk & Existing Controls	0	-3 Moi	nths
Regula	Regular = Weekly 5		5 Death			Maj	<u>Major</u>		<u>19 – 25</u>	Review Ri	sk & Existing controls	Imn	nediate	ely
C				D.4. 15/10	V1 = 1			1	TO			D	4	
	npiled By: A España	Zamora		Date: 15/10	v							Date:		
Signature(s): AEspaña						Signa	ature	:Lt	ucker			15	/10/15)

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Cont	ract							Cl	lient	t									
Cont	ract No.							Da	ate:										
Activ	vity: Piling Operation	ons						Ris	k Ass	essmen	t No:					Rev	00		
	y affecting appropriate box)	Employee	Y	Third party	Y	Ve	hicle	Y Plant Y Property Y FREQU						Frequen	ENCY X SEVERITY				
N0	HAZARD		SIBLE CONSE	SEQUENCES					NTROL		CONTRO	OL ME	EASURE	S	POST-CONTROL F x C = R				
9	Service checks Moving lorries	Electrocution Explosions Run over						4	off by our C obstructions A visual che Suttle Project 4 5 20 All deliverie			areas should be previously checked and signed lient before our works commence. All known are to be clearly marked. ck for obstructions above ground is required by tts Supervisor before commencing work. s escorted into site with Banks men and onto the road.					2 5		
FREQU	JENCY OF OCCURRENCE		SEVERIT OR LOSS	Y OF: INJURY	Y / DAMAGE	,	SCORE	RIS	SK RA	ATING		ACTION				TIME	SCALI	2	
	pable = Infrequent	1	Trivial	injury(ies)			1	Lo	w		1-6	Review Ris	sk & Ex	xisting C	ontrols	12	– 18 M	onths	
Possible Occasion	e = Annual onal = 2 – 3 Times per Year			injury (ies) injury			2 3		dium		7 – 12	Review Ris		U		_	- 12 Mo		
Freque	nt = Monthly	4	Amputatio				4	Hig	,		12 – 19	Review Ris		0			- 3 Mo		
Regula	r = Weekly	5	Death				5	Ma	<u>jor</u>		<u>19 – 25</u>	Review Ris	sk & F	Existing	controls	Imn	nediat	ely	
Compiled By: A España Zamora Signature(s): AEspaña					Date: 15	5/10			Reviewed by: L Tucker Signature: L tucker							Date: 15/10/15			
Sign	itui e(s) • 1 iLspana							Jigile	atul	C. L	iuckci					10	10/1	,	

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Cont							Cli	ient											
Contract No.								te:											
Activ	vity: Concrete pump	ing					Risk	Asse	ssment	No:					Rev	7 00			
Activity	y affecting appropriate box)	Employee	Y	Third party	Y	Vehicle	Y	P	lant	Y	Property		Υ	Frequ	JENCY X	ENCY X SEVERITY			
N0	HAZARD		POSSIBLE CONSEQUENCES						TROL = R		CONTRO	L MEA	ASURE	SS]	Post-Co			
2	Bursting of concrete hoses and or Hose joint Clearing concrete pumping lines and auger at the end of a shift by compressed air.	Impact injur Impact injur				2	3	6	Hoses to be inspected by competent pump man daily at start of shift. Damaged Sections are to be replaced. All concrete hoses fitted to the mast of the piling rig must have whip checks Fitted at all times. Joints to be secured by R Clips or Split Pins. Correct ppe and long sleeves to be worn Separation of hoses from the general public to be in a box if unavoidable. All blowing out operations are to be under direct control of a competent rig opp, Rig opp to remain at piling rig during procedure, competent pump opp to control the compressor. Rig lines to be blown out away from the perimeter fencing at all times.							3			
3	Engine noise	Loss of hear	ing				4	3	12	Ear defender	rs to be worn if noise over 85 dba		dba	3	3	9			
FREQU	ENCY OF OCCURRENCE	Score	SEVERITY OR LOSS	OF: INJURY / DA	MAGE	SCORE	RIS	K RA	TING		ACTION				TIMI	ESCALI	2		
	pable = Infrequent	1		jury(ies)		1	Low			1-6	Review Risk					12 – 18			
Possible Occasio	e = Annual onal = 2 – 3 Times per Year	3		jury (ies) jury		2 3		lium		7 – 12	Review Risl					3 – 12			
Freque	nt = Monthly	4	Amputation	•		4	High Maj			12 – 19	Review Risl				0-3 Month		Ionths		
Regular	r = Weekly	5	5 Death 5							19-25 Review Risk & Existing controls				Imn	Immediately				

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Cor	ntract							Cli	ent									
Cor	ntract No.							Dat	te:									
Act	Activity: Augured piling					Risk Assessment No:							01			Rev	00	
	rity affecting k appropriate box)	Employee	х	Third party	ty X Vehicle Plant Property FREQU						FREQUEN	ENCY X SEVERITY						
N0	HAZARD	POSSIBLE CONSEQUENCES							CON	TROL = R		CONTRO	OL ME	CASURES		POST-CONTROL F x C = R		
1	Falling into augers	Death						4	5	20	Cage around	rotating auger		2	5	10		
2	Cage removal for tight drilling	Death		4	5	20	2metre exclu	sion zone arou	und aug	gers		2	5	10				
3	areas Engine noise	Loss of he		4	3	12	Ear defenders	3	3	9								
4	Buried services	Death, explosions							5	25	Services sear	ch and drawir	ıgs requ	uired before dri	lling	2	5	10
5	Hydraulic oil	Hot oil into eyes from a burst hose							3	9	Eye protection Daily inspect			mize contact w	ith eyes	2	3	6
6	Winch breaking	Major inju	ıries possibl	y death from fal	ling objects		3	5	15	Inspections of drive chain daily before work commences					2	5	10	
7	Gearbox falling	Death						2	5	10	inspections of drive chain daily before work commences					1	5	5
												1						
FREC	QUENCY OF OCCURRENCE	SCORE	OR LOSS	ΓΥ OF: INJURY S	/ / DAMAGE	Score	2	RISE	K RA'	ΓING		ACTION				TIME	SCALE	
	obable = Infrequent	1		injury (ies)		1		Low			1-6	Review Ris	sk & Ex	kisting Controls		12	– 18 Mo	nths
Possi	ble = Annual sional = 2 – 3 Times per Year	2 3		injury (ies) injury		2 3		Medi	ium		7 – 12	Review Ris	sk & E	xisting Contro	ls	3 -	-12 Mo	nths
Frequ	_	4	Amputation			4		High			12 – 19	Review Ris	sk & E	xisting Contro	ls	0	-3 Mor	ths
Regular = Weekly 5 Death				5				<u>r</u>		<u>19 – 25</u>	25 Review Risk & Existing controls			ls	Imn	ediate	ely	
Co	ompiled By: A Españ	ía Zamora			Date: 28/	Re	Reviewed by: L.Tucker							Date:				
	nature(s) : AEspaña						Si	gnat	ture	: Ltu	cker							

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