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JHA		JHA Contributors (minimum team of two)									
JHA No: 202	1.	Dave Penney		4.				(Conseque	ence	
Revision No: V1	2.	Corey Penney		5.		Likelihood	Insignificant 1	Minor 2	Moderate 3	Major 4	Catastrophic 5
Date: Feb 16	3.	Liam Bethell	(6.		A (Almost Certain)	11	16	20	23	25
Review Date: On Site Review Required Reviewed By:						В	7	12	17	21	24
Spec	cific	Permits & S	SOPs Requ	ıire	d	(Likely)					
Hot Work			Containment o	f Slu	rry	C (Possible)	4	8	13	18	22
Working at Height			Geothermal W	ells		D (Unlikely)	2	5	9	14	19
Excavation / Trenching		V	Confined Drill	Spac	e 🔽	E (Rare)	1	3	6	10	15
Equipment Isolation		☐ Unstable Ground			┍	Low	Medium High Extrem			Extreme	
Overhead power lines	nead power lines Other					Reviewed at Pre-Shift Meeting (where required): Date:					
Client Permit to Work required:	Yes	□ No □	Other p	ermi	s required (tick page 2)						
Brown and Harr	Dave Penney										
Prepared by:		Print Name				Signature Date					
Work Order / Job No:			Plant No	o: C	PT		Plant Nam	e: CPT			



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HAZARD CHECK SHEET								
Substance ✓		Situation 🔽		Energy ~		Other Specific to Task		
Chemicals & Solvents		Confined Space	~	Biological				
Gasses, Fumes & Vapours		Manual Handling	~	Electrical				
Asbestos/Fibreglass		Materials Storage	~	Kinetic				
Flammable Materials		Working over Water		Mobile Equipment	~			
Process Materials		Working at Heights		Noise / Vibration	~			
Oils & Grease	~	Working Below/Above Level		Radiation				
Hydraulics	~	Moving / Mobile Equipment	V	Chemical				
Dust	~	Guarding	~	Gravitational				
Inhalation of gasses/fumes		Falling Objects		Mechanical	~			
Fuel Oil	~	Lighting		Muscular	~			
Diesel/Petrol	~	Adjacent Workers	~	Pressure Stored Energy	~			
Glue/Adhesive		Projectiles / Incorrect tools	~	Thermal				
		Slipping / Tripping	V	Blasting/ Mining				
		Struck By / Against	~	Heat / Furnace				
		Caught By / Between	V	Water / Ocean				



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Act No	Job Steps	Hazards Identified	Initial Risk Ranking	Systems, Checks and Controls Required	Inherent Risk Ranking
1.	CPT loading and unloading	Unsecured ramps causing CPT to become unstable during loading and unloading. Manual handling of ramps into position causing musculoskeletal injury.	High	 Ramps purpose built to lock into position on transport truck. Ramps manually secured in place testing stability of ramps prior to unloading or loading. Checks to ensure ground is stable at point of unloading / loading. Awareness of body position and movement while handling ramp into position. Maintain safe distance if operating remote. 	Medium 9
2.	CPT site set up	Pedestrian, traffic and site access acute injuries and equipment damage through vehicle impact	High	 Formal procedure for Rigging Up and Drilling in place as per SOP-100 Rigging Up and Drilling Operations Procedure. Job Commencement JHA – Ensures site specific hazards are identified and controlled, including drill site set up to ensure all drill and ancillary equipment are positioned in stable and safe manner. Set out cones, signs and barriers around working area and vehicles, high visibility clothing to be worn and awareness of surroundings and any associated site specific hazards to be addressed. 	Medium 9
3.	CPT and ancillary equipment set up and stability	Uncontrolled movement of equipment causing equipment damage and acute injuries such as crushing, bruising or fracture	Extreme	 Level CPT with stabilizing jacks and ensure the ground is level. Use timber blocks if requirement to make the CPT stable. Ensure locking pin is secured in ground stabilising CPT during investigation works. 	High 14
4.	Location of Services	Striking overhead or underground obstruction i.e. powerlines, gas pipes, water, services	Extreme	 Services must be located by services plans and scanner. Services must be clearly marked with high visibility paint. The CPT is fitted with a computer operated strength data screen which indicates increases in pressure if any unexpected services are detected within the first 2m of investigation, therefore further reducing risk of impacting services. 	High 14



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5.	CPT start up and set up		High	 The works "Site Specific Plan" details responsible persons for underground service identification and clearance. Underground service plan made available on site. Drill rigs must be a minimum of 4 metres away from any overhead lines unless there is a written consent and close approach permit. SOP-101 Underground Services Identification Procedure 	Medium 9
5.	CPT start up and set up	Uncontrolled movement or instability of CPT causing injury or equipment damage	піgп	 Pre-Start Equipment Checks – ensures all operational parameters of CPT are functioning and in safe order Checks on hoses, fittings, safety devices, guards, pressure levels are completed and documented prior to operations. 	wedium 9
6.	General Operations -	Environmental spills drill cuttings Hydrocarbon spills	High	 Pre-start equipment checks include checks of hoses and fittings. Spill kits are supplied on all rigs and are checked monthly to ensure they are fully stocked with adsorbents. CPT produces minimal drill cuttings, cuttings are used to refill holes on completion of works, unless instrumentation is required. Re-fuel at yard where possible. Registered vacuum carriers for hydrocarbon. vacuum unit available for containment. 	High 13
7.	General Operations – Entanglement in rotating equipment	Entanglement of part of body or clothing in rotating equipment causing serious injury	High	 Low RPM on rotational of the CPT further reducing risk. Required clearance to augers of ½ metre. Standard PPE issue – no loose clothing. Long hair to be restrained. Clear drill site to prevent trips or slips. Limit access to drill site. Drill set up to reduces access to rotating rods. 	Medium 9
8.	General Operations – Walking around drill site.	Slips trips and falls	High	 Daily site inspection and documented log of hazards. Work areas to be kept clean and tidy all tools or equipment no longer being used to be put away. 	High 13



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				 PPE Requirements – use of steel capped boots with good grip and ankle support. Job commencement JHA to consider drill site ground conditions and eliminate risks 	
9.	General Operations – CPT	• Fire risk	Medium	 Equipment preventative maintenance, servicing and licencing systems in place Pre-start equipment checks ensure fire extinguishers are in place and charged, in addition to checking for any ignition sources remaining on equipment or at drill site Pre-start JHA to include site clearance of debris or long grass that could be ignited by equipment operations, exhaustions or other ignition sources generated from operations. 	Low 5
10.	General Operations – CPT	Exposure to airborne contaminants	Low	 CPT works have low impact for generation of airborne contaminants, pre-start JHAs to consider any potential contaminants that could be present in material that have potential to become airborne. Appropriate PPE to be applied where respiratory contaminants are identified. 	Low 5
11.	Vehicle Collision	Public vehicles or other site vehicle collision	Extreme	 Traffic control Plans in place for public roads, 1,2,3. Site specific inductions when operating on constructions site. Site specific plans to address radio controls, traffic movement. 	High 14
12.	Excessive Noise	Work Induced Hearing Loss	Extreme	 Supplied hearing protection including ear plugs and ear muffs. Induction requirements to wear hearing protection. Noise testing of rigs Consider surveillance testing of exposed workers. 	High 13



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AS/NZ4801 – 4.3.1, 4.4.6.1 & ISO14001 4.3.1

Additional Site Specific Hazard Assessment and Risk Controls to be listed here at Job Start up by the on-site Drill Crew 13. 14. 15. 16. 17. 18.



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AS/NZ4801 – 4.3.1, 4.4.6.1 & ISO14001 4.3.1

Signature to this JHA verifies that you have reviewed the work area for task job steps, have read and understand the risk/hazards and system, checks and control actions associated with the task, accept and will follow through with the system as outlined in all risk/hazard job steps and will follow up with further reviews through the JHA as job progresses with new job steps that have not been risk assessed.

Na	me	Signature	Date	
Approved By:				
	Supervisor	Signature	Date	

Is a detailed procedure required for this task?			Revision Details			
No	~	Rev	Date	Ву	Initial	
			,			
	No	No 🔽	No Rev	No Rev Date	Rev Date By	

The completed JHA remains on the rig for the duration of the works and is then submitted to records management system for filing and future audit.