



HSE-02 DCN Drilling JHA Vacuum Trailer Unit

Version: 2.0

Date: 13-Feb-18

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AS/NZ4801 – 4.3.1, 4.4.6.1 & ISO14001 4.3.1

JHA		JHA Contributors (minimum team of two)								
JHA No: 201	1.	Dave Pennney	4.		Likelihood	Consequence				
Revision No: V3	2.	Lance Vulgar	5.			Insignificant 1	Minor 2	Moderate 3	Major 4	Catastrophic 5
Date: Feb 2018	3.	Corey Penney	6.			11	16	20	23	25
Review Date: On Site Review Required Reviewed By:					A (Almost Certain)					
Specific Permits & SOPs Required					B (Likely)	7	12	17	21	24
Hot Work	<input type="checkbox"/>	Containment of Slurry	<input checked="" type="checkbox"/>		C (Possible)	4	8	13	18	22
Working at Height	<input type="checkbox"/>	Geothermal Wells	<input type="checkbox"/>		D (Unlikely)	2	5	9	14	19
Excavation / Trenching	<input checked="" type="checkbox"/>	Confined Drill Space	<input type="checkbox"/>		E (Rare)	1	3	6	10	15
Equipment Isolation	<input type="checkbox"/>	Unstable Ground	<input checked="" type="checkbox"/>		Low		Medium		High	
Overhead power lines	<input type="checkbox"/>	Other	<input type="checkbox"/>		Reviewed at Pre-Shift Meeting (where required):					
Client Permit to Work required: Yes <input type="checkbox"/> No <input type="checkbox"/> Other permits required (tick page 2)					Date:					
Prepared by: Dave Penney										
					Print Name		Signature		Date	
Work Order / Job No:			Plant No:			Plant Name: Vacuum Trailer Unit				



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HAZARD CHECK SHEET

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



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Act No	Job Steps	Hazards Identified	Initial Risk Ranking	Systems, Checks and Controls Required	Inherent Risk Ranking
1.	Drill site set up	<ul style="list-style-type: none">Pedestrian, traffic and site access acute injuries and equipment damage through vehicle impact	High	<ul style="list-style-type: none">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 vests to be worn and awareness of surroundings and any associated site specific hazards to be addressed.	Medium
2.	Rig and ancillary equipment set up and stability	<ul style="list-style-type: none">Uncontrolled movement of equipment causing equipment damage and acute injuries such as crushing, bruising or fracture	High	<ul style="list-style-type: none">Level rig with stabilizing jacks and ensure the ground has enough timber blocks if requirement to make the rig stable.Ensure Vacuum unit is on level ground, braking systems engaged and chocks used where required to prevent uncontrolled movement	Medium
3.	Location of Services	<ul style="list-style-type: none">Sticking overhead or underground obstruction i.e. powerlines, gas pipes, water, services	High	<ul style="list-style-type: none">Services must be located by services plans and scanner. Hand clearing or Vacuum Excavating is mandatory on all sites prior to drilling. Services must be clearly marked with high visibility paint. Drill rigs must be a minimum of 4 metres away from any overhead lines unless there is a written consent and close approach permit	Medium
4.	Vacuum unit start up and set up	<ul style="list-style-type: none">Uncontrolled movement or instability of unit causing injury or equipment damage	High	<ul style="list-style-type: none">Pre-Start Equipment Checks – ensures all operational parameters of unit are functioning and in safe orderChecks on hoses, fittings, safety devices, guards, pressure levels are completed and documented prior to operations	Medium
5.	Vacuum unit, Hand Clearing	<ul style="list-style-type: none">Acute injuries such as strains sprains, Damage to underground services	Medium	<ul style="list-style-type: none">With the use of the water blaster loosen material and vacuum hole to 1.5 meters in the proposed drilling location. Or alternatively hand clear to 1.5 metres when vacuum is not availableUse two personnel for lifting equipment where required	Medium
6.	Vacuum unit	<ul style="list-style-type: none">Environmental spills drill cuttingsHydrocarbon spills	Medium	<ul style="list-style-type: none">When drilling near a water way set up silt filters where possible use the Vacuum unit to contain drill cuttings.	Low



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				<ul style="list-style-type: none"> Once contained and vacuumed up, dispose of cutting at an approved disposal point. 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. 	
7.	General Operations – Walking around drill site.	<ul style="list-style-type: none"> Slips trips and falls 	High	<ul style="list-style-type: none"> 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. 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 	Medium
8.	General Operations – Drilling and Vacuum excavations unit	<ul style="list-style-type: none"> Fire risk 	High	<ul style="list-style-type: none"> 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 drilling. If required the use of geotextile matting or plywood to protect grassed areas. 	Medium
9.	General Operations Vacuum unit	<ul style="list-style-type: none"> Caving excavations causing injury to operator 	Medium	<ul style="list-style-type: none"> Ensure excavations are monitored for any cave in signs and safe distances from the edge or excavation hole is maintained. 	Medium
10.	General Operations Vacuum unit	<ul style="list-style-type: none"> Exposure to airborne contaminants 	Medium	<ul style="list-style-type: none"> All equipment and piping connections to be inspected and checked prior to operations Operators to be situated upwind of the product to be vacuumed Any vent hoses to be routed away from the work areas Pre-start JHAs to consider any potential contaminants that could be present in material to be vacuumed. 	Medium



				<ul style="list-style-type: none">• Appropriate PPE to be applied where respiratory contaminants are identified.• Where contaminants are identified ensure that air quality monitoring at the work site is continuous at discharge area of the vacuum unit venting hose.	
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Additional Site Specific Hazard Assessment and Risk Controls to be listed here at Job Start up by the on-site Drill Crew

11.		•		•	
12.		•		•	
13.		•		•	
14.		•		•	
15.		•		•	
16.		•		•	



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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.

Name	Signature	Date
Approved By:		
Supervisor	Signature	Date

Review comments : This JHA is an active document, that is reviewed by the Drill Crew at the start of each job where the Vacuum Trailer Unit is in use.	Is a detailed procedure required for this task?		Revision Details			
	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	Rev	Date	By	Initial
By Whom? _____						
By When? _____						

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.