

	CCP&C 34 HARPER ST, MOLENDINAR ABN 27 159 245 093	SAFE WORK METHOD STATEMENT Scour Pipe Entry	22227
			REVISION A

PROJECT: Scour Pipe Entry	LOCATION: West Bank side of Mt Crosby Water Treatment Plant
----------------------------------	--

Principle Contractor: BMD	Reviewed and Approved BMD (Nick Maher)
----------------------------------	--

Work activity	Entry to manhole and traverse 900mm pipe to apply Megapoxy.		
High risk construction activity ☒ ☒	☒ Risk of a person falling more than 2 metres	☒ Work on a telecommunication tower	☒ Demolition of load bearing structure
	☒ Likely to involve disturbing asbestos	☒ Temporary load support for structural alterations or repairs	☒ Work in or near a confined space
	☒ Work in or near a shaft or trench deeper than 1.5m or a tunnel	☒ Use of explosives	☒ Work on or near pressurised gas mains or piping
	☒ Work on or near a chemical, fuel or refrigerant line	☒ Work on or near electrical installations or services	☒ Work in an area that may have a contaminated or flammable atmosphere
	☒ Tilt up or pre-cast concrete elements	☒ Work on, in or adjacent to a road, railway or shipping lane or other traffic corridor in use by traffic other than pedestrians	☒ Work in an areas with movement of powered mobile plant
	☒ Work in areas with artificial extremes of temperature	☒ Work on or near water or other liquid that involves the risk of drowning	☒ Diving work

SWMS Prepared and Approved By:					
NAME KATHLEEN CHRISTOPHER	POSITION QSE MANAGER	SIGNATURE 	CONTACT 0438757096	DATE PREPARED 29/8/2022	Date given to PC 29/08/2022

NOTE: Work must be performed in accordance with this SWMS - This SWMS must be kept and be available for inspection until the high-risk construction work to which this SWMS relates is completed. If the SWMS is revised, all versions should be kept. If a notifiable incident occurs in relation to the high-risk work in this SWMS, the SWMS must be kept for at least 2 years from the date of the notifiable incident.

Ensuring Compliance with this Safe Work Method Statement					
Observe the work being carried out and monitor compliance with this SWMS. Review risk controls regularly: - Before a change occurs to the work itself, the system of work or the location - If a new hazard with the work is identified - When new or additional information about the hazard becomes available - When a Notifiable incident occurs in relation to the work - When risk controls are inadequate, or the SWMS is not being followed. In all of the above situations stop the work, review the SWMS, adjust as required and re-brief the team. (WHS Reg 2011 s300)					
Persons responsible for implementing, monitoring and compliance with this SWMS					
NAME MICK SLEATOR	POSITION SUPERVISOR	CONTACT 0431 281 995	NAME	POSITION	CONTACT

	CCP&C 34 HARPER ST, MOLENDINAR ABN 27 159 245 093	SAFE WORK METHOD STATEMENT Scour Pipe Entry	22227
			REVISION A

Legislation, Codes of Practice, Industry guidelines, Standards used as guidance in the development of control measures for this SWMS and the activities outlined within.

• Work Health and Safety Act 2011 • Work Health and Safety Regulation 2011 • Hazardous Manual Tasks Code of Practice 2021 • Electrical Safety Code of Practice 2021 – Managing Electrical Risks in the Workplace • Managing the risk of hazardous chemicals in the workplace Code of Practice 2021 • AS/NZS 4801 Safety Management Systems • AS/NZS 1892.5:2000 Portable Ladders- Selection, safe use and care. • Australian Government Building and Construction OHS Accreditation Scheme	• How to Manage Work Health and Safety Risks Code of Practice 2021 • Managing Noise and Preventing Hearing Loss at Work Code of Practice 2021 • Managing the Risk of Falls at Workplaces Code of Practice 2021 • Work Health and Safety Consultation, Cooperation and Coordination CoP 2021 • AS/NZS 2865:2009 • Confined Spaces Code of Practice 2021 • AS/NZS 1891.4:2009 -Industrial fall arrest systems and devices • Managing risks of plant in the workplace CoP 2021 • First Aid in the Workplace Code of Practice 2021 • Safe design of structures CoP 2021
---	--

Requirements to be met before work can begin

Engineering Details/ Certificates/ Permits: • Permit to enter and work in the confined space Personal Protection Equipment available on site for use where required: • Long Sleeve Hi-vis Shirt, Long Pants, Steel cap work boots (mandatory supplied uniform) • Safety glasses, gloves, helmet • Corded hearing protection Class 3 for noise levels up to 110 dB(a), banded hearing protection Class 5 for noise levels over 110dB(a) • P2 respiratory protection mask selected in accordance with AS/NZS 1715:2009, worn correctly and as per fit test	Qualifications/Competencies • Confined Spaces Training Inductions Required: • <i>General industry induction, Company Induction and Site-Specific Inductions to be undertaken before commencement on site.</i> • <i>Induction into the SWMS to be completed before work activity commences.</i>
--	--

Plant/Equipment needed to conduct work activity

• Safety Tripod and harness- visual inspection and annual test and tag • Gas monitor and blower- self check before each use • Confined spaces signage (Mandatory) • Portable blower/extractor fan and ducting	• Fire Extinguisher - Tested and Tagged • Fully Stocked First Aid Kit, Cool Drinking Water Located on Site. • Communication devices where necessary • Industrial Ladder (if required) • Winch
--	---

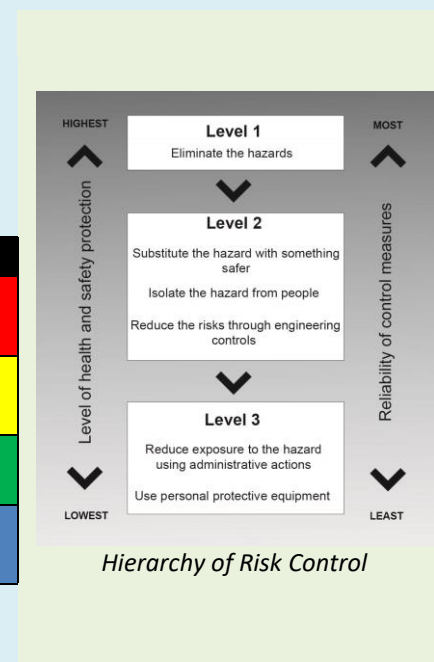


CC Group Risk Matrix

People	First Aid Injury	Medical Treatment Injury	Lost Time Injury	Fatality	Multiple Fatalities
Environment	Slight effect	Minor on site contamination	Major on site contamination	Minor off-site contamination	Major off-site contamination
Plant/ Equipment/ Production	Slight damage / no productivity loss	Component level replacement / repair / minor productivity loss	Equipment level replacement / repair / moderate productivity loss	Multiple equipment replacements / major productivity loss	Massive widespread equipment damage / productivity loss
Reputation	Slight impact	Limited impact	Local area impact	State wide impact	National impact

		Insignificant	Minor	Moderate	Major	Catastrophic
Likelihood	Certain to occur- expected in most circumstances	Moderate (8)	High (15)	High (17)	Extreme (23)	Extreme (25)
	Very likely- will probably occur in most circumstances	Moderate (7)	Moderate (10)	High (16)	High (19)	Extreme (24)
	Possible- might occur occasionally	Low (3)	Moderate (9)	Moderate (12)	High (18)	High (22)
	Unlikely- could happen at some time	Low (2)	Low (5)	Moderate (11)	Moderate (14)	High (21)
	Rare- may occur, with exceptional circumstances	Low (1)	Low (4)	Low (6)	Moderate (13)	High (20)

Action Required
E – Extreme Risk Do not undertake activity, re-evaluate work methods
H- High Risk Control measures to be implemented before work activity commences.
M- Moderate Risk Acceptable risk if all controls are actioned and monitored
L- Low Risk Review and revise if work activity or conditions change.



Work activity steps	What are the potential hazards and risks?	How will the hazards and risks be controlled?	Control Score	Person Responsible
1. Attend pre-start talk and receive work instructions and conduct review of SWMS.	Not attending Pre-start talk could result in not knowing the potential hazards that may have been discussed and the controls to be put in place, this could result in accidents and injuries/ environmental harm	Evaluate and review methods and controls outlined in the Safe work Method Statement before beginning high risk construction activity. Ensure team knows work is to stop if the SWMS is not followed. The risks with manhole entry are known and will be discussed prior to entry.	L4	Supervisor All personnel involved in the work to attend and sign off.
2. Present yourself as Fit for Work	Being under the influence of drugs, alcohol or feeling the effects of fatigue or illness can affect your	Do not attend site if you do are under the influence of drugs or alcohol, which can impair your alertness and coordination. A worker taking medication needs medical advice on whether they can safely operate machinery, or work in the vicinity of mobile plant.	L4	Worker to be fit for work. Supervisor to monitor



Work activity steps	What are the potential hazards and risks?	How will the hazards and risks be controlled?	Control Score	Person Responsible
	judgement and could lead to serious injuries.	If you are unwell or feeling the effects of fatigue speak to your supervisor for advice. Workers are reminded of their obligation to not place at risk the health and safety of themselves or anyone else in the workplace		behaviours
	COVID-19	COVID-19 social distancing will be adhered to by the maintenance of the 1.5 metre rule wherever possible. do not come to work if you have any COVID-19 symptoms.	L2	Supervisor and workers. Visitors
3. Zone off work area and put up confined space signs.	Unauthorised entry to confined space	The entry points to the confined space will be signposted and secured against unauthorised entry. The signs must remain in place while preparations are underway, while the work is conducted and until completion. • The signs must identify the confined space; and • Inform workers that they must not enter the space unless they have a confined space permit; and • Be clear and prominently located next to each entry to the space.	L4	Confined space team
4. Select labour	Unqualified workers involved with confined space work activity	Only workers with a confined spaces competency can have any involvement with the work activity in the space, including completion of risk assessments and entry permits. The worker must not be allowed to have any involvement with the confined space task until the contents of the SWMS have been discussed with them and the Supervisor is satisfied that they understand and are able to comply with the statement.	L4	Confined space team Supervisor
5. Prepare safety equipment and PPE	PPE not at required standard	Ensure that PPE selected to minimise risk to your health and safety is suitable for the work and any hazard associated with the work. Ensure it is a suitable size and fit and reasonably comfortable. It should be clean and hygienic and in good working order. If not ask your supervisor for a replacement to be provided before you begin. If PPE is provided it must be used or worn in accordance with any information training or instruction given by the supervisor for its use. Workers must inform the supervisor of any damage or defect in the PPE of which the worker becomes aware. The tripod, winch and harnesses are to be inspected for signs of damage and wear before use. All items are to be checked to ensure they have inspection records within the last 12 months.	L1	Supervisor Employee
6. Prepare to work by removal of the	Manhole lids can be heavy and hard to lift and carry	Erect the crowd control barriers with the confined space signage affixed around the manhole before removing the lid.	L4	Confined Space team



Work activity steps	What are the potential hazards and risks?	How will the hazards and risks be controlled?	Control Score	Person Responsible
manhole lid / conduct risk assessment of entry.	resulting in manual handling injuries, trapped fingers and feet. Risk of fall into hole once lid has been removed.	Use mechanical aids where required to remove manhole lids. When modifying moving or handling heavy objects ensure the work does not actively create new hazards. Clear the edge of the manhole cover and the access points for manhole lifters. Insert the manhole lifters on either side and lift. It is best to do this with two people for the larger size manhole lids. Always use the correct equipment for lifting the manhole lids. Take care to not step into the open manhole. Clear away soils, weeds etc from the lip of the manhole taking care not to drop the rubbish into the base of the manhole. Do not place body parts within a pinch point such as a lifted manhole cover and its frame or resting place. PPE- Ensure that gloves are worn when conducting manual handling activity. The glove chosen for the task must be suitable for the activity to reduce the severity of a possible injury.		
	Unfamiliar space	Conduct an initial risk assessment of working conditions and confined space to assess if SWMS is suitable for work to be undertaken. Make alterations with consultation of workers and Safety personnel if necessary.	L4	Confined space team
7. Isolate connected plant and services.	Introduction of substance into space.	There will be no inundation risk for this entry. There is no plant connected to space.	L1	Confined space team
8. Conduct initial Gas detection testing	Dangerous gases	Lower Gas detection device into space in the position of the work to be undertaken to obtain readings. Before a person enters a confined space, the atmosphere shall have; 1. A safe oxygen range, 2. Airborne contaminants below the relevant exposure standards and 3. A concentration of airborne flammable contaminant below 5% LEL	L4	Confined Space team
9. Complete Confined Space Entry Permit	Permit not completed could result in not knowing who is in the space.	Complete confined spaces entry permit and Enter Gas readings	L4	Confined Space Team
10. Communications with entrants	Workers not able to signal for help once inside the space.	A worker must not enter the space unless a system is provided that includes - Continuous communication with the worker from outside the space; and - Monitoring of conditions within the space by a standby person who is in the vicinity of the space and, if practicable, observing the work being carried out. Four confined spaces workers will be utilised to conduct this work activity. One person will enter the pipe, one will remain at the opening to the pipe in the base of	L4	



Work activity steps	What are the potential hazards and risks?	How will the hazards and risks be controlled?	Control Score	Person Responsible
		the manhole, one above the manhole as a sentry and one will remain nearby on site to supply the work front as required/ coordinate a rescue if required.		
11. Document Emergency Response Plan and prepare emergency response equipment	Being unprepared for an emergency may place people at greater risk of illness or injury.	Provide number of suitably competent people outside space required to initiate emergency response procedures e.g. first aid and resuscitation. Appropriate emergency response and first aid procedures shall be identified, planned, established and rehearsed. Have First Aid Kit and firefighting equipment in accessible location. Mobile phone to be on location always. Know exact location of confined space for emergency services. Set two-way radio frequency and maintain contact if not within verbal range	L4	Confined space team
	Defective or inadequate safety equipment	Suitable equipment shall be provided including where necessary equipment for; i. Personal protection ii. Emergencies including rescue iii. First aid iv. Communication and v. Fire suppression (if required). The equipment will be appropriate for the tasks to be conducted in the confined space, maintained and in proper working condition. All equipment to be inspected before each use and any defects reported and equipment placed out of service until rectified.	L4	Confined Space team
12. Display entry permit	May not be easy to locate.	The entry permit should be displayed in a prominent place, usually adjacent to the confined space entry to facilitate signing and clearance.	L4	Confined Space Team
13. Purge confined space if necessary	Oxygen concentrations could be too high	Use a suitable purging agent. The purging agent shall not be pure oxygen or gas mixtures with an oxygen concentration of more than 21%. Ventilation equipment should be designed for use in hazardous locations. All sources of ignition should be eliminated when purging flammable contaminants. It is unlikely that space will require purging.	L5	Confined Space Team
14. Set up ventilation fan for forced air and exhaust for extraction if necessary	Persons outside space subjected to exhaust emissions or exhaust could accidentally be recirculated into space	Ventilation of a confined space should be by natural, forced or mechanical means and should be continued throughout the period of occupancy. Any airborne contaminants removed from the confined space should only be exhausted to the atmosphere at a location where they do not present a risk to other persons or accidental recirculation into space.	L4	Confined Space Team
15. Enter manhole	Working on ladders can	A ladder will be utilised in conjunction with the tripod and height safety harness to	L5	All personnel to



Work activity steps	What are the potential hazards and risks?	How will the hazards and risks be controlled?	Control Score	Person Responsible
	result in falls and injuries.	ensure the worker is restrained when using the ladder and cannot be at risk of an unrestrained fall. The ladder will extend past the lid opening by 900mm to ensure adequate landing space and hand grip is provided to entry and exit to the hole.		action. Supervisor to monitor
	Ladders not maintained and in poor condition could result in a fall from height.	Ladders are to be inspected for any obvious defects before each use. When a defect is found, the ladder shall be marked and taken out of service for repair or destruction. If a ladder has been tipped over or exposed to impact it is to be inspected for dents, bends, damage, e.g. distortion, deformed flanges or excessively dented rungs. All rung or tread to stile connections shall be checked, as well as hardware connections, rivets (for shear), and all other components.	L1	All personnel to action. Supervisor to monitor
16. Undertake task in confined space.	Contaminated breathing air or unsafe oxygen range.	Initial gas detection will be conducted to ensure there is a safe breathing atmosphere. Ventilation of the confined space can be conducted by forced mechanical means to establish and maintain a safe atmosphere if required. This ventilation can be continued throughout the period of occupancy.	L4	Confined Space Team
	Applying Megapoxy to pipe (hazardous chemical)	Megapoxy will be mixed outside of the space and lowered down to the entrant for application to the pipe. Exposure limits for this product will only apply when in dried state during sanding or abrading. SDS for Part A and B will be on site for reference if required.	L1	Confined Space Team
	Worker sustains injury	Discuss emergency response plan prior to entry. Worker entering pipe will take with them a Garage Creeper / Skate with a rope attached that will enable them to be easily pulled from the space if they become incapacitated in some way during the work activity. The worker once back in the manhole can then be attached to the retrieval winch by the D Shackle on their height safety harness and be winched to ground level with assistance from the second manhole entrant. No injury or incapacitation is expected due to the work activity being conducted. This rescue plan is to respond to a possible medical emergency or illness.	L4	Confined space team
17. Remove all equipment from space	Defective equipment being stored	Inspect all safety equipment before storage. Any items not up to standard or without tags should be sent for servicing.	L4	Confined Space Team
	Going back into space for items	Account for the whereabouts of all tools. No one should go back into the space for retrieval of any item after they are signed out and the safety equipment has been removed.	L4	Confined Space Team
18. Cancel entry permit	Employees not accounted for	Prior to a written authority being cancelled, all tasks in the confined space shall cease and all persons shall be removed from the confined space.	L4	Confined Space Team



Emergency Procedures

In the event of an emergency situation arising in the confined space the safety of the persons in the space is the highest priority regardless of the task being performed or the equipment being used.

All workers are to exit the space immediately if any of the following situations occur.

1. An alarm is indicated on the gas detector.
2. The entrant experiences any of the following symptoms:
Headache; nausea; burning sensation in the eyes or throat; dizziness or any other symptoms which could indicate the presence of hazardous gases or chemicals in the confined space.
The entrant becomes unwell for any reason.
3. The standby person needs to leave their position
4. Another hazard arises during the entry of the confined space that may be of risk to the worker.

In the event of a person collapsing or suffering an injury inside the confined space, the emergency procedures are as follows:

NO RESCUER WILL ENTER A CONFINED SPACE TO ATTEMPT A RESCUE WHERE THERE IS ANY RISK TO THE SAFETY OF THE RESCUER.

The spotter at the surface uses their mobile phone to call emergency services – 000. The spotter is not to leave the top of the manhole.

Note: When speaking to emergency services, state the workers name, incident location and address. Instructions from emergency services must be followed.

Rescuing the injured entrant without rescuer entering the confined space.

- The observer in the manhole pulls on the rope attached to the mechanics creeper/ skate to bring the worker back to position below manhole.
- The observer winches the collapsed employee to the surface using the retrieval winch.

Note: Care should be taken not to unnecessarily injure the collapsed worker during ascent by using excessive force as the person could get caught on an obstacle.

Rescuing the injured entrant with rescuer entering the confined space (the spotter must never enter the space).

Examples of this situation include:

- Worker injured and conscious while detached from winch cable and no gas detector alarm.
- Worker caught on obstacle while being winched to safety and no gas detector alarm.

CAUTION: If an alarm is activated no other person shall enter the confined space. Only rescuers wearing breathing apparatus should enter a confined space to facilitate the rescue.



CCP&C
34 HARPER ST, MOLENDINAR
ABN 27 159 245 093

SAFE WORK METHOD STATEMENT

Scour Pipe Entry

22227

REVISION A

SAFE WORK METHOD STATEMENT INDUCTION

The undersigned agree:

- 1. We understand and were given the opportunity to have input into the process, systems of work and this SWMS. (WHS Act 2011 s48)*
- 2. We are aware that we may cease or refuse to carry out work if we have reasonable concern that carrying out the work would expose us to serious risk to our health or safety from an immediate or imminent exposure to a hazard. (WHS Act 2011 s84)*

EMPLOYEE NAME	POSITION	SIGNATURE	COMPANY REPRESENTATIVE	REPRESENTATIVE SIGNATURE	DATE