

No	Activity	Hazard	Person(s) in Danger	Control Measures	Residual Risk Rating
68	All work activities	High Risk Manholes Potential for the presence of gas / low oxygen	Employees and other contractors	 All personnel will be fully trained with in-date confined space training appropriate for this type and level. Current cards will be available on site for the duration of the work and the numbers recorded on the Permit to Work. The Top Person will be First Aid trained. On arrival, on site set up, signing and guarding will be in accordance with NRSWA requirements. The Site Person In Charge shall carry out a Site Specific Risk Assessment, to include the manhole Category requirements, before the work commences. High Risk Manholes require full escape equipment and rescue team must be on site. A gas test shall be carried out with a four-head GDU prior to entry into the manhole. A negative result must be achieved before entry is allowed. 	



	The result must be recorded in the
	site diary.
	- Dewatering shall be carried out as
	necessary in accordance with the
	Safe System of Work.
	- The force air blower will be set up
	and the blower tube lowered into
	the structure and left to run for
	minimum of 5 minutes, only after
	gas testing and any necessary
	dewatering has been completed. A
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	GDU must be placed at the blower
	to monitor traffic emissions.
	- A Permit to Work will be required
	prior to entry and shall be obtained
	once the above has been completed.
	- The permit will be signed by the
	persons entering the manhole and
	by the Top Person.
	- Access to the manhole can only take
	place after all safety checks and
	permits have been completed.
	- A minimum of two people will
	require access into the high-risk
	manhole. One person at the work
	position and the second person to
	remain at the bottom of the access
	shaft in order to maintain contact



	between the Top Person and the	
	person at the work position.	
	- At least one person at the work	
	position and the person at the	
	bottom of the access shaft will have	
	fully charged GDUs fully calibrated	
	and in good working order. The	
	GDUs will be placed in the breathing	
	zone.	
	- The Top Person shall stay in contact	
	with the persons in the manhole.	
	Contact will be made at maximum	
	intervals of ten minutes. If contact	
	cannot be made at any one time, the	
	Top Person will make a further two	
	attempts to make contact. If contact	
	is not made by the third attempt	
	then the Top Person will follow the	
	Emergency Procedure.	
	- If the person in the manhole is not	
	contacted at the interval times	
	above, they will evacuate the	
	manhole and check if the Top Person	
	is ok or not.	
	- If not, then the person shall follow	
	the emergency procedure and will	
	not re-enter the manhole until	
	another trained Top Person is on site	



		and all persons in the manhole will	
		evacuate the manhole.	
		- If the Top Person needs to leave site	
		for any reason whatsoever, they	
		shall inform the persons in the	
		manhole. They will all evacuate until	
		the top person returns.	
		- Once all work is completed, the Site	
		Person in Charge will close the	
		permit.	