



CONFINED SPACE ENTRY PROCEDURES & RESCUE PLAN

[< back](#)

Primary Tank Preventative & Corrective Maintenance

Work to be performed or location of confined space

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	Atmospheric Conditions	Details	P			Control Measures	P		
2	Hydrogen Sulphide (H ₂ S)	Possible H ₂ S	2	2	B	H ₂ S (Hydrogen sulfide) gas detector - continuous monitoring, Min. 5000 cfm fan in push mode continuous. Foul air FRP covers will be removed to create an open air tank	1	2	A
14	Combustible Gases	Possible Methane	2	2	B	LEL (combustible) gas detector - continuous monitoring, Min. 5000 cfm fan in push mode continuous Foul air FRP covers will be removed to create an open air tank	1	2	A
9	Oxygen (O ₂) Deficiency / Enrichment	Possible low O ₂	2	2	B	O ₂ (Oxygen) gas detector - continuous monitoring, Min. 5000 cfm fan in push mode continuous Foul air FRP covers will be removed to create an open air tank	1	2	A
1	Carbon Monoxide (CO)	General	2	2	B	CO (Carbon monoxide) gas detector - continuous monitoring, Min. 5000 cfm fan in push mode continuous Foul air FRP covers will be removed to create an open air tank	1	2	A
			Initial				Final		
	Hazards / Exposure	Details	P			Control Measures	P		
37	Falling Hazard	Possible fall when inside guard rails	2	3	C	Install Modulock fence around openings. Fall protection (Harness Self retracting life line) must be worn when inside fencing and when ascending or descending on the ladder, ensure staff performing the entry/work do not have an existing fear of heights, Caution when climbing ladder(s) - maintain 3-point contact	1	3	B
32	Mechanical / Moving Part Hazards	Mechanical Flights	2	2	B	Lockout procedures attached	1	2	A
35	Engulfment or Immersion Hazards	Possible Flooding	2	2	B	Lockout procedures attached • Any potential leakage from the upstream hand pull gate will be continuously monitored by the standby person and a submersible pump will be used to remove any leakage. The water level in the upstream channel will be continuously monitored with a local audio/visual high level float set to alarm at 200 mm of free board while space is occupied. If the water level rises above 200 mm the alarm will sound and a light will flash (leaving 200mm of freeboard). The confined space will be evacuated and the issue will be addressed prior to re-entry. • Any potential leakage from the downstream gates will be continuously monitored by the standby person and a submersible pump will be used to remove any leakage. • Any potential leakage from the downstream gates will be continuously monitored by the standby person and a submersible pump will be used to remove any leakage. The level in the downstream channel (460mm freeboard) will be continuously monitored with a local audio/visual high level float. If the water level rises above 200 mm the alarm will sound and a light will flash (leaving 260mm of freeboard). and the confined space will be evacuated and the issue will be addressed prior to re-entry. Any leakage into the space will be continuously monitored by the stand by person and a sump pump will be	1	2	A

						installed to pump out as required			
19	Sharps / Puncture Wounds	Follow SWP for Sharps	2	2	B	Sharps container & tongs	1	2	A
46	Adjacent Work Site Hazards	Ensure no internal combustion engines are running near ventilators	2	2	B	Place air intake away from source of CO	1	2	A
50	Overhead / Falling Object Hazards	Ensure Hardhats are worn while in space	2	2	B	Keep area around openings free of tools and equipment. If lowering or raising equipment ensure engineered "Tough Buckets" are used	1	2	A
38	Slipping / Tripping Hazard	Ensure floor is clean	2	2	B	Clean floor of slippery material	1	2	A
33	Electrical / Electrocutation Hazards	Electrical cord safety	2	2	B	Electrical cords are in good condition (not damaged or frayed), Use GFI	1	2	A
52	Other (Specify)	Potential contact with Wastewater	2	2	B	Ensure proper PPE is worn for the work to be performed. Minimum PPE required for entry; Hard Hat, Steel Toe Rubber Boots, Safety Harness, Safety Glasses, Long sleeve coveralls, work gloves.	1	2	A

Area Preparation:

1. Drain and clean tank
2. Keep area around tank clear of tools and equipment - testing of separate lines - creating different places

Confined Space Entry Procedures - Supplementary Instructions:

1. Follow moderate hazard confined space entry procedure and lock out procedure

Confined Space Entry Rescue Plan:

1. Follow confined space emergency procedure