

This report supersedes '754-SYDEN228268 - 380 St Kilda Street Confined Space Report 2022', issued on the 16 September 2022.

Mirvac Real Estate Pty Ltd

Confined Spaces Assessment V2

380 St Kilda Road, Melbourne, Victoria 3000

20 September 2022

Project Ref: 754-SYDEN228268 - 380 St Kilda Road Confined Space Report 2022 V2



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CONFINED SPACES ASSESSMENT

Prepared for Mirvac Real Estate Pty Ltd

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CONTENTS

Exe	cutive	summary	4
1.		duction	
	1.1	Site Description	6
2.	Scope	e	
	1.2	Inaccessible Areas	6
3.	What	is a Confined space?	6
4.	Risk /	Assessment	8
5.	Findir	ngs	9
6.	Reco	mmended Actions	9
7.	Refer	ences	9
8.	Limita	ations	10
App	endix	A: Confined Spaces Register	11
App	endix l	B: Confined Space Risk Assessments	13
App	endix (C: Photographs	24
App	endix l	D: Confined Space Signage	27

EXECUTIVE SUMMARY

Tetra Tech Coffey Pty Ltd (TTC) was commissioned by Mirvac Real Estate Pty Ltd (the client) to conduct a confined spaces assessment at 380 St Kilda Road, Melbourne, Victoria 3000. Phoebe Quessy of TTC carried out the audit on 25th May 2022. For the purpose of this audit, the principal definition of a confined space is that described in the *Occupational Health & Safety Regulations 2017 (VIC)*.

Identified confined spaces were not entered by personnel at the time of the assessment, therefore the risk assessments contained in this report are limited to general observations made. A more detailed specific risk assessment is required prior to entering any confined spaces identified in this report.

Assessment Findings

The following findings are based on the site inspection, discussions with site personnel, and review of relevant documentation:

- A total of 13 confined spaces were identified at the site.
- The majority of identified confined spaces were appropriately signposted, however the underground
 pit adjacent parking bay 105 on Level B3 and the underground pit in the loading dock on B2 were not
 signposted.
- All confined spaces appeared to be appropriately secured from unauthorised access at the time of the assessment.

Note: Refer to **Appendix A** for the confined space register and **Appendix C** for photographs.

Recommended Actions

The following actions are recommended, based on the above findings:

- Ensure the underground pit adjacent parking bays 105 on Level B3 and the underground pit in the loading dock on B2 are appropriately signposted. Ensure the signage complies with AS 2865:2009 Confined Spaces, Section 3.2.2. Refer to Appendix D for examples of confined space safety signage.
- Ensure a confined space entry permit system is available for the site and appropriately implemented.
 The permit should include space for details regarding plant and service isolations, space specific risk assessment, atmospheric testing results, risk control measures to be utilised, PPE required, and emergency rescue procedures.
- Ensure the confined space entry permit includes a procedure for the isolation and tag out of plant and services associated with work in confined spaces.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Ensure all staff and contractors working within areas containing confined spaces at the site are
 provided with appropriate information, instruction and training to ensure they are able to work safely
 in these areas. It is recommended that this be managed within the site induction.
- Although it was not possible to access the spaces at the time of the inspection, they have been
 deemed to be a confined space (in order to take a precautionary approach) and should continue to
 be treated as such until confirmed as otherwise.
- Avoid entering the confined spaces if possible e.g. conduct cleaning/maintenance activities from outside etc.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure task specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.

- All works and access in relation to confined spaces must be undertaken in accordance with the Occupational Health & Safety Regulations 2017 (VIC), the Compliance Code: Confined Spaces (WorkSafe Victoria, 2019) and AS 2865:2009 Confined Spaces.
- TTC is able to assist the client to implement the above recommended actions.

1. INTRODUCTION

Tetra Tech Coffey Pty Ltd (TTC) was commissioned by Mirvac Real Estate Pty Ltd (the client) to conduct a confined spaces assessment at 380 St Kilda Road, Melbourne, Victoria 3000. Phoebe Quessy of TTC carried out the audit on 25th May 2022. For the purpose of this audit, the principal definition of a confined space is that described in the *Occupational Health & Safety Regulations 2017 (VIC)*.

Identified confined spaces were not entered by personnel at the time of the assessment, therefore the risk assessments contained in this report are limited to general observations made. A more detailed specific risk assessment is required prior to entering any confined spaces identified in this report.

1.1 Site Description

The site consisted of a 16 level (approximately 24,500 m²) office building, constructed in 1989. The building was occupied at the time of the assessment.

2. SCOPE

The objective of the Confined Spaces Assessment was to identify and assess confined spaces at the site, and manage the associated risks to the health and safety of site occupants (including workers, students, visitors and contractors). The assessment included a physical inspection of accessible areas of the site, as well as discussions with relevant site personnel, and a review of relevant systems/documentation.

1.2 Inaccessible Areas

The following areas were not accessible during the inspection:

- Within confined spaces, voids and ceiling spaces.
- Within plant and machinery.
- Lift shafts and pits.
- Below cars and stored items.
- · Occupied rooms and tenanted areas.
- Roof areas.

3. WHAT IS A CONFINED SPACE?

The Occupational Health & Safety Regulations 2017 (VIC) defines a confined space as a space in any vat, tank, pit, pipe, duct, flue, oven, chimney, silo, reaction vessel, container, receptacle, underground sewer or well, or any shaft, trench or tunnel or other similar enclosed or partially enclosed structure, if the space:

- a) is, or is intended to be, or is likely to be, entered by any person; and
- b) has a limited or restricted means for entry or exit that makes it physically difficult for a person to enter or exit the space; and
- c) is, or is intended to be, at normal atmospheric pressure while any person is in the space; and
- d) contains, or is intended to contain, or is likely to contain:
 - (i) an atmosphere that has a harmful level of any contaminant; or
 - (ii) an atmosphere that does not have a safe oxygen level, or
 - (iii) any stored substance, except liquids, that could cause engulfment.

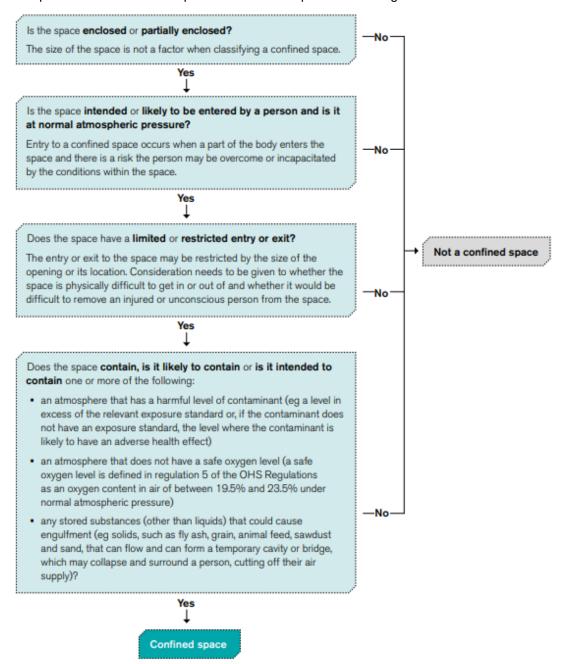
Note: The above definition does not include a shaft, trench or tunnel that is a mine or is part of the workings of a mine.

Section 55 (1) of the *Occupational Health & Safety Regulations 2017 (VIC)* states that 'an employer must so far as is reasonably practicable, identify all hazards associated with work in a confined space.

Section 56 (1) of the *Occupational Health & Safety Regulations 2017 (VIC)* states that 'an employer must so far as is reasonably practicable, eliminate any risk associated with work in a confined space.

Section 54 of the Regulations also state that the requirements relating to confined spaces within the Regulations refer to confined spaces that are under the employers management or control. For this reason, confined spaces that are identified on site but that fall under the management or control of another employer may not be included in this report. Examples of such confined spaces include storm water drains and sewer pits (managed by the local water authority), and underground electrical substations (managed by the local power authority).

Further explanation of a confined space definition is explained in the figure below:



Source: Compliance Code: Confined Spaces 2019

4. RISK ASSESSMENT

Risk assessments have been conducted for each confined space identified on site. The risk assessments considered the nature of the confined space, including its location, frequency of entry, work performed, the nature of the potential hazards present and the controls currently in place. Each identified potential hazard was risk assessed, based on the likelihood of an event occurring, and the consequence or outcome of that event in general terms. An overall risk rating of Low, Medium, High, Very High or Extreme was then assigned to each hazard using the provided risk assessment matrix (refer to Risk Matrix below). The assessment of the risk is a subjective assessment and is to be used for guidance purposes in relation to selecting and implementing corrective actions.

Risk Matrix								
	CONSEQUENCE							
LIKELIHOOD	Insignificant	Minor	Moderate	Major	Catastrophic			
LIKELIHOOD	(No injuries)	(First aid only)	(Medical treatment)	(Extensive injuries, loss of production)	(Fatality / permanent disability)			
Almost Certain								
(Expected in most circumstances)	Medium	High	Very High	Extreme	Extreme			
Likely								
(Will probably occur in most circumstances)	Medium	High	Very High	Extreme	Extreme			
Possible								
(Might occur at some time)	Low	Medium	High	Very High	Extreme			
Unlikely	Low	Low	Medium	High	Von/ High			
(Not likely to occur)	LOW	LOW	Mediam	High	Very High			
Rare								
(May occur only in exceptional circumstances)	Low	Low	Medium	High	High			

Where the hazards associated with work in particular confined spaces are similar in nature, a group risk assessment has been prepared. Separate space specific risk assessments will be prepared for any confined spaces identified as having unique hazards or risks that are different to the group risk assessment.

Refer to **Appendix B** for confined space risk assessments.

FINDINGS

The following findings are based on the site inspection, discussions with site personnel, and review of relevant documentation:

- A total of 13 confined spaces were identified at the site.
- The majority of identified confined spaces were appropriately signposted, however the underground
 pits adjacent parking bay 105 on Level B3 and the underground pit in the loading dock on B2 were
 not signposted.
- All confined spaces appeared to be appropriately secured from unauthorised access at the time of the assessment.

Note: Refer to **Appendix A** for the confined space register and **Appendix C** for photographs.

6. RECOMMENDED ACTIONS

The following actions are recommended, based on the above findings:

- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Ensure the underground pit adjacent parking bay 105 on Level B3 and the underground pit in the loading dock on B2 are appropriately signposted. Ensure the signage complies with AS 2865:2009 Confined Spaces, Section 3.2.2. Refer to Appendix D for examples of confined space safety signage.
- Ensure a confined space entry permit system is available for the site and appropriately implemented.
 The permit should include space for details regarding plant and service isolations, space specific risk
 assessment, atmospheric testing results, risk control measures to be utilised, PPE required, and
 emergency rescue procedures.
- Ensure the confined space entry permit includes a procedure for the isolation and tag out of plant and services associated with work in confined spaces.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Ensure all staff and contractors working within areas containing confined spaces at the site are provided with appropriate information, instruction and training to ensure they are able to work safely in these areas. It is recommended that this be managed within the site induction.
- Although it was not possible to access the spaces at the time of the inspection, they have been
 deemed to be a confined space (in order to take a precautionary approach) and should continue to
 be treated as such until confirmed as otherwise.
- Avoid entering the confined spaces if possible e.g. conduct cleaning/maintenance activities from outside etc.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure task specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- All works and access in relation to confined spaces must be undertaken in accordance with the Occupational Health & Safety Regulations 2017 (VIC), the Compliance Code: Confined Spaces (WorkSafe Victoria, 2019) and AS 2865:2009 Confined Spaces.
- TTC is able to assist the client to implement the above recommended actions.

7. REFERENCES

- Occupational Health & Safety Act, 2004 (VIC).
- Occupational Health & Safety Regulations, 2017 (VIC).
- Compliance Code: Confined Spaces (WorkSafe Victoria, 2019).

Australian Standard 2865:2009 Confined Spaces.

8. LIMITATIONS

This report and the associated services performed by Tetra Tech Coffey are in accordance with the scope of services set out in the contract between Tetra Tech Coffey and the Client. The scope of services was defined by the requests of the Client, by the time and budgetary constraints imposed by the Client, and by the availability of access to the site.

Tetra Tech Coffey derived the data in this report primarily from visual inspections, examination of available records, and interviews with individuals with relevant information about the site. In preparing this report, Tetra Tech Coffey has relied upon, and presumed accurate, certain information (or absence thereof) provided by government authorities, the Client and others identified herein. Except as otherwise stated in the report, Tetra Tech Coffey has not attempted to verify the accuracy or completeness of any such information.

No warranty, undertaking, or guarantee, whether expressed or implied, is made with respect to the data reported or to the findings, observations, and recommendations expressed in this report. Furthermore, such data, findings, observations, and recommendations are based solely upon existence at the time of the assessment. The passage of time, manifestation of latent conditions or impacts of future events (e.g. changes in legislation, scientific knowledge, land uses, etc.) may require further investigation at the site with subsequent data analysis and re-evaluation of the findings, observations, and recommendations expressed in this report.

This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the provisions of the agreement between Tetra Tech Coffey and the Client. Tetra Tech Coffey accepts no liability or responsibility whatsoever and expressly disclaims any responsibility for or in respect of any use of or reliance upon this report by any third party or parties. It is the responsibility of the Client to accept if the Client so chooses any recommendations contained within and implement them in an appropriate, suitable and timely manner.

APPENDIX A: CONFINED SPACES REGISTER

Confined Spaces Assessment

Confin	Confined Spaces Register									
Space ID	Туре	Level	Location / Comments	Secure	Signage	Dimensions (approx.)	Risk Assessment	Photo		
001	Diesel storage tank	В3	Basement 3, adjacent parking bay 113	Yes	Yes	5m ³	Α	01		
002	Unknown underground pit	В3	Basement 3, adjacent parking bay 105	Yes	No	Unknown	В	02		
003	Unknown underground pit	В3	Basement 3, adjacent parking bay 60	Yes	Yes	Unknown	В	03		
004	Unknown underground pit	В3	Basement 3, adjacent parking bay 97/98	Yes	Yes	Unknown	В	04		
005	Unknown underground pit	В3	Basement 3, adjacent pakring bay 53	Yes	Yes	Unknown	В	05		
006	Unknown underground pit	В3	Basement 3, adjacent parking bay 30	Yes	Yes	Unknown	В	06		
007	Unknown underground pit	В3	Basement 3, adjacent parking bay 12/13	Yes	Yes	Unknown	В	07		
008	Unknown underground pit	B2	Basement 2, garbage room in loading dock	Yes	No	Unknown	В	08		
009 & 010	Grease trap x 2	B1	Basement 1, wall cavity between parking bay 5 and 6	Yes	Yes	2m ³	С	09		
011	Cooling tower	L16	Level 16, plant room	Yes	Yes	25m³	D	10		
012 & 013	Ice chiller x 2	L16	Level 16, plant room	Yes	Yes	20m³	E	11		

APPENDIX B: CONFINED SPACE RISK ASSESSMENTS

Diels Assessment A. F	Tuel Ter						
Risk Assessment A: F			VEO				
•	Does the space meet the requirements of a Confined Space? YES						
	(If the answer to A, B, C and at least one part of D is yes, then the space is a confined space and requires a risk assessment).						
A. Is the space intended to	be, or is	likely to be, entered by any person?	YES				
	B. Does the space have a limited or restricted means for entry or exit that makes it physically difficult for a person to enter or exit the space?						
C. Is the space intended to be at normal atmospheric pressure while any person is in the space?							
D. Does the space contain	, or is inte	nded to contain, or is likely to contain:					
an atmosphere that h	nas a harn	nful level of any contaminant?	YES				
an atmosphere that contact that contact the second se	loes not h	ave a safe oxygen level?	YES				
any stored substance	e, except l	iquids, that could cause engulfment?	NO				
Works to be completed:	Cleaning	and maintenance activities.					
Comments:	Access t	o space is restricted. No access gained during assess	ment.				
Hazard Types	Risk Rating	Recommended Actions					
Restricted entry and egress in an emergency	VH	Wear a safety harness and remain connected to a lift all times. Ensure the standby person remains in constant contaperson(s) entering the space.	act with				
Oxygen deficiency whilst work in progress	Ш						
Build-up or excess of vapours such as hydrogen sulphide (H ₂ S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	_	No action required.					
Build-up of organic vapours to within explosive limits E Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Only enter the space if the concentration of any flammable vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space during entry. Ensure no ignition sources are located within or introduced into the space.							
Airborne dust concentrations above the WES	L	No action required.					
Radiation (non-ionising and ionising)	L	No action required.					
Noise generated at levels above 85 dB(A)	M	Wear appropriate hearing protection PPE when acceplant rooms (required for access to the space).	essing				
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all inflow pipes into the space.					

Hazard Types	Risk Rating	Recommended Actions
Engulfment	ш	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Use a winch or rope pulley system to lower equipment into the tank.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	M	Wear slip resistant boots.
Falls from height	VH	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	L	No action required.
Lack of lighting	Н	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been
 deemed to be a confined space (in order to take a precautionary approach) and should continue
 to be treated as such until confirmed as otherwise.

Risk Assessment B: U	Jnknow	n Underground Pit			
		ents of a Confined Space?	YES		
•	d at least o	one part of D is yes, then the space is a confined			
A. Is the space intended to	be, or is	likely to be, entered by any person?	YES		
B. Does the space have a physically difficult for a p		restricted means for entry or exit that makes it	YES		
C. Is the space intended to		rmal atmospheric pressure while any person is in the	YES		
space? D. Does the space contain	. or is inte	ended to contain, or is likely to contain:			
		nful level of any contaminant?	YES		
·		ave a safe oxygen level?	YES		
· ·		iquids, that could cause engulfment?	NO		
Works to be completed:		n. Presumed maintenance and/or inspection activities.			
Comments:		pose of the pit is unknown. Access within the space was at the time of assessment.	is not		
Hazard Types	Risk Rating	Recommended Actions			
Restricted entry and egress in an emergency	VH Wear a safety harness and remain connected to a lifeline at				
Oxygen deficiency whilst work in progress	en deficiency whilst E Monitor the atmosphere within the space prior to entering.				
Build-up or excess of vapours such as hydrogen sulphide (H ₂ S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	VH	Monitor the atmosphere within the space prior to enter Purge and ventilate the space if required. Continually monitor the atmosphere within the space entry.	J		
Build-up of organic vapours to within explosive limits	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Only enter the space if the concentration of any flammable vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space during entry. Ensure no ignition sources are located within or introduced into the space.				
Airborne dust concentrations above the WES	L	No action required.			
Radiation (non-ionising and ionising)	L	No action required.			
Noise generated at levels above 85 dB(A)	L	No action required.			

Hazard Types	Risk Rating	Recommended Actions
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all services within the space. Ensure no vehicles operate in the vicinity of the entry. Ensure the standby person is monitoring external weather conditions and any other factors that could impact the confined space.
Engulfment	ш	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	_	No action required.
Skin contact with hazardous substances and surface contaminants	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	Н	Wear slip resistant boots.
Falls from height	H	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	VH	Isolate all power sources within the space. Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	M	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights and traffic management issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been
 deemed to be a confined space (in order to take a precautionary approach) and should continue
 to be treated as such until confirmed as otherwise.

Risk Assessment C: 0	Grease ⁻	Frap (Above Ground)				
		ents of a Confined Space?	YES			
	d at least o	one part of D is yes, then the space is a confined				
E. Is the space intended to	be, or is	likely to be, entered by any person?	YES			
F. Does the space have a physically difficult for a p		restricted means for entry or exit that makes it enter or exit the space?	YES			
G. Is the space intended to space?	G. Is the space intended to be at normal atmospheric pressure while any person is in the space?					
H. Does the space contain	, or is inte	nded to contain, or is likely to contain:				
an atmosphere that h	nas a harn	nful level of any contaminant?	YES			
an atmosphere that contains a second contai	loes not h	ave a safe oxygen level?	YES			
-		iquids, that could cause engulfment?	NO			
Works to be completed:	,	g and maintenance activities.				
Comments:		o space is restricted. No access gained during assess	ment.			
Hazard Types	Risk Rating	Recommended Actions				
Restricted entry and egress in an emergency	Н	Wear a safety harness and remain connected to a lif all times. Ensure the standby person remains in constant cont person(s) entering the space.				
Oxygen deficiency whilst work in progress	en deficiency whilst VH Monitor the atmosphere within the space prior to entering.					
Build-up or excess of vapours such as hydrogen sulphide (H ₂ S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	VH	Monitor the atmosphere within the space prior to enti- Purge and ventilate the space if required. Continually monitor the atmosphere within the space entry.	-			
Build-up of organic vapours to within explosive limits WH Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Only enter the space if the concentration of any flammable vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space during entry. Ensure no ignition sources are located within or introduced into the space.						
Airborne dust concentrations above the WES	L	No action required.				
Radiation (non-ionising and ionising)	L	No action required.				
Noise generated at levels above 85 dB(A)	L	No action required.	_			

Hazard Types	Risk Rating	Recommended Actions
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all services within the space.
Engulfment	ш	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	۔	No action required.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	Н	Wear slip resistant boots.
Falls from height	L	No action required.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	M	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been
 deemed to be a confined space (in order to take a precautionary approach) and should continue
 to be treated as such until confirmed as otherwise.

Risk Assessment D: (Coolina	Tower				
		ents of a Confined Space?	YES			
(If the answer to A, B, C and at least one part of D is yes, then the space is a confined space and requires a risk assessment).						
A. Is the space intended to	be, or is	likely to be, entered by any person?	YES			
B. Does the space have a limited or restricted means for entry or exit that makes it physically difficult for a person to enter or exit the space?						
C. Is the space intended to be at normal atmospheric pressure while any person is in the space?						
D. Does the space contain	, or is inte	nded to contain, or is likely to contain:				
an atmosphere that h	nas a harn	nful level of any contaminant?	YES			
an atmosphere that contact that contact the contact the contact that contact the contact that contact the contact th	loes not h	ave a safe oxygen level?	YES			
· ·		iquids, that could cause engulfment?	NO			
Works to be completed:	Maintena	ance and inspection activities.				
Comments:	Access t	to space is restricted. No access gained during assess	ment.			
Hazard Types	Risk Rating	Recommended Actions				
Restricted entry and egress in an emergency	VH	Wear a safety harness and remain connected to a lif all times. Ensure the standby person remains in constant cont person(s) entering the space.	act with			
Oxygen deficiency whilst work in progress	E	Monitor the atmosphere within the space prior to entrolly enter the space if oxygen levels are within the strange (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space entry.	safe			
Build-up or excess of vapours such as hydrogen sulphide (H ₂ S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	-	No action required.				
Build-up of organic vapours to within explosive limits	L	No action required.				
Airborne dust concentrations above the WES	L	No action required.				
Radiation (non-ionising and ionising)	L	No action required.				
Noise generated at levels above 85 dB(A)	M	Wear appropriate hearing protection PPE when acceplant rooms (required for access to the space).	essing			
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all inflow pipes into the space.				

Hazard Types	Risk Rating	Recommended Actions
Engulfment	ш	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	ا ۔	No action required.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	۔	No action required.
Skin contact with hazardous substances and surface contaminants	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	Н	Wear slip resistant boots.
Falls from height	اد	No action required.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	I	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	Н	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been
 deemed to be a confined space (in order to take a precautionary approach) and should continue
 to be treated as such until confirmed as otherwise.

Risk Assessment E: I	ce Chill	or .			
			YES		
•	Does the space meet the requirements of a Confined Space? (If the answer to A, B, C and at least one part of D is yes, then the space is a confined				
space and requires a risk assessment).					
E. Is the space intended to be, or is likely to be, entered by any person?					
F. Does the space have a limited or restricted means for entry or exit that makes it physically difficult for a person to enter or exit the space?					
G. Is the space intended to be at normal atmospheric pressure while any person is in the space?					
H. Does the space contain, or is intended to contain, or is likely to contain:					
an atmosphere that has a harmful level of any contaminant?					
 an atmosphere that does not have a safe oxygen level? 			YES		
-		iquids, that could cause engulfment?	NO		
Works to be completed:	Mainten	ance and inspection activities.			
Comments:	Access t	to space is restricted. No access gained during assess	ment.		
Hazard Types	Risk Rating	Recommended Actions			
Restricted entry and egress in an emergency	VH	Wear a safety harness and remain connected to a lif	eline at		
		Ensure the standby person remains in constant controls, entering the space.	act with		
Oxygen deficiency whilst work in progress	Е	Monitor the atmosphere within the space prior to ent Only enter the space if oxygen levels are within the s			
1 13 111		range (19.5% to 23.5%).			
		Ventilate the space if required.	al		
		Continually monitor the atmosphere within the space entry.	during		
Build-up or excess of	L	No action required.			
vapours such as hydrogen sulphide (H₂S)					
or carbon monoxide (CO)					
to concentrations above					
the workplace exposure					
standards (WES)					
Build-up of organic	L	No action required.			
vapours to within explosive limits					
explosive illilits					
Airborne dust	L	No action required.			
concentrations above the		·			
WES					
Radiation (non-ionising	L	No action required.			
and ionising)					
Noise generated at levels	M	Wear appropriate hearing protection PPE when acce	essing		
above 85 dB(A)		plant rooms (required for access to the space).	3		
Uncontrolled introduction	M	Isolate all inflow pipes into the space.			
of substances (e.g. steam, water, gases etc.)					
Steam, water, gases etc.)					

Hazard Types	Risk Rating	Recommended Actions
Engulfment	ш	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	Ι	Isolate all machinery within the space.
Skin contact with hazardous substances and surface contaminants	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	M	Wear slip resistant boots.
Falls from height	Η	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Isolate all electrical equipment within the space. Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	Н	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	Н	Isolate the thermostat. Wear appropriate PPE (e.g. gloves, warm clothes, safety boots).

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been
 deemed to be a confined space (in order to take a precautionary approach) and should continue
 to be treated as such until confirmed as otherwise.

APPENDIX C: PHOTOGRAPHS



Photo 01. B3, adjacent parking bay 113, diesel storage tank

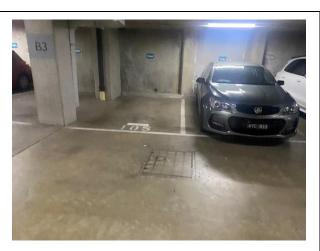


Photo 02. B3, adjacent parking bay 105, unknown underground pit



Photo 03. B3, adjacent parking bay 60, unknown underground pit



Photo 04. B3, adjacent parking bay 97/98, unknown underground pit



Photo 05. B3, adjacent parking bay 53, unknown underground pit



Photo 06. B3, adjacent parking bay 30, unknown underground pit



Photo 07. B3, adjacent parking bay 12/13, unknown underground pit



Photo 08. B2, garbage room, loading dock, unknown underground pit.



Photo 09. B1, wall cavity between parking bay 5 and 6, grease trap x 2



Photo 10. Level 16, plant room, cooling tower



Photo 05. Level 16, plant room, ice chiller x 2

APPENDIX D: CONFINED SPACE SIGNAGE

Example A: Fixed confined space warning sign that can be established in a prominent position adjacent the confined space or on the access hatch.



Example B: Another fixed confined space warning sign that can be established in a prominent position adjacent the confined space or on the access hatch. The warning signage carries brief information that would need to be listed in the confined space entry permit.



Example C: Mobile confined space warning sign that can be established in a prominent position adjacent the confined space while works are in progress.

