

Mirvac Real Estate Pty Ltd

Confined Spaces Assessment

90 Collins Street, Melbourne, Victoria 3000

26 September 2022

Project Ref: 754-SYDEN228268 – 90 Collins Street Confined Space report 2022



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CONFINED SPACES ASSESSMENT

Prepared for Mirvac Real Estate Pty Ltd

Prepared by
Coffey Services Australia Pty Ltd
Level 19, Tower B, 799 Pacific Highway
Chatswood NSW 2067 Australia
t: +61 2 9406 1000 f: +61 2 9406 1002
ABN: 55 139 460 521

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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 90 Collins Street, Melbourne, Victoria 3000. Phoebe Quessy of TTC carried out the audit on 26th 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 6 confined spaces were identified at the site.
- The majority of identified confined spaces were appropriately signposted, however one of the sewer pits in parking bay 329 on Level B3 was 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 sewer pit in parking bay 329 on Level B3 is 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.
- 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 90 Collins Street, Melbourne, Victoria 3000. Phoebe Quessy of TTC carried out the audit on 26th 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 23 level (approximately 21,308m²) office building, constructed in 1988. The building was occupied at the time of the assessment.

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.

2.1 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.

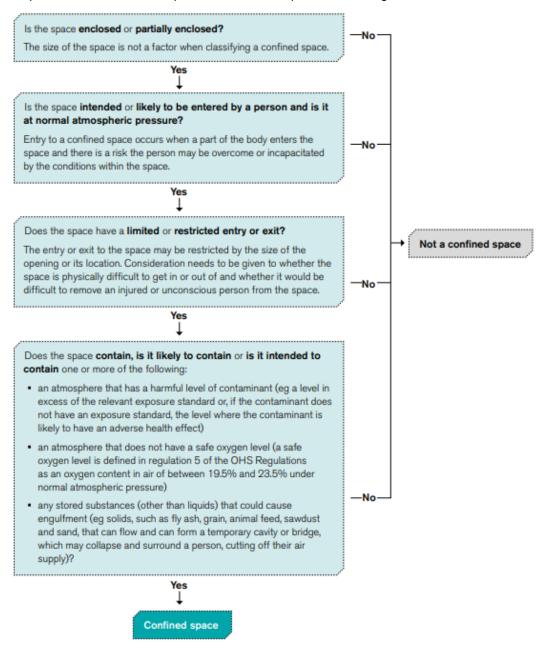
Note: The above definition does not include a shaft, trench or tunnel that is a mine or is part of the workings of a mine.

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	Lligh	Many High			
(Not likely to occur)	LOW	Low	wedium	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 6 confined spaces were identified at the site.
- The majority of identified confined spaces were appropriately signposted, however one of the sewer pits in parking bay 329 on Level B3 was 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 sewer pit in parking bay 329 on Level B3 is 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.

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.

Confined Spaces Assessment

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

Confined Spaces Register									
Space ID	Туре	Level	Location / Comments	Secure	Signage	Dimensions	Risk Assessment	Photo	
001	Water tank	R	Roof area. Potable water	Yes	Yes	Unknown	А	01	
002	Water tank	22	Plant room	Yes	Yes	8m ³	А	02	
003	Fuel tank	B2	Diesel tank room. Diesel tank	Yes	Yes	9m³	В	03	
004	Sewer pit	В3	Car park, parking bay 329	Yes	Yes	Unknown	С	04	
005 & 006	Storm water pit	ВЗ	Car park, parking bay 329 (x2)	Yes	No	Unknown	D	05	

APPENDIX B: CONFINED SPACE RISK ASSESSMENTS

Diels Assessment A.	Matau T	Taul.			
Risk Assessment A:					
-	-	nents of a Confined Space?	YES		
(If the answer to A, B, C an space and requires a risk a		t one part of D is yes, then the space is a confined nt).			
A. Is the space intended to	o be, or is	s likely to be, entered by any person?	YES		
		r restricted means for entry or exit that makes it	YES		
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	n, or is int	ended to contain, or is likely to contain:			
an atmosphere that	has a har	rmful level of any contaminant?	NO		
an atmosphere that	does not	have a safe oxygen level?	YES		
 any stored substanc 	e, except	liquids, that could cause engulfment?	NO		
Works to be completed:	Cleanin	g and maintenance activities.			
Comments:	Access	to space is restricted. No access gained during assessi	nent.		
Hazard Types	Risk	Recommended Actions			
	Rating				
Restricted entry and	VH	Wear a safety harness and remain connected to a life	line at all		
egress in an emergency		times.	-4!4 -		
		Ensure the standby person remains in constant conta person(s) entering the space.	ct with		
Oxygen deficiency whilst	Е	Monitor the atmosphere within the space prior to ente	ring.		
work in progress		Only enter the space if oxygen levels are within the sa			
, -		(19.5% to 23.5%).	_		
		Ventilate the space if required.			
		Continually monitor the atmosphere within the space of	during		
Build-up or excess of	L	entry. No action required.			
vapours such as	_	The delien required.			
hydrogen sulphide (H ₂ S)					
or carbon monoxide (CÓ)					
to concentrations above					
the workplace exposure					
standards (WES)		No action required			
Build-up of organic	L	No action required.			
vapours to within explosive limits					
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 acces	sing		
above 85 dB(A) Uncontrolled introduction	VH	plant rooms (required for access to the space).			
of substances (e.g.	VTI	Isolate all inflow pipes into the space.			
steam, water, gases etc.)					
Engulfment	Е	Isolate all inflow pipes into the space.			
3		Wear a safety harness and remain connected to a life	line at all		
		times.			

Hazard Types	Risk Rating	Recommended Actions
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	L	No action required.
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)	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	Ĺ	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: F	uel Tar	nk				
		ents of a Confined Space?	YES			
(If the answer to A, B, C and	(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	g and maintenance 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 liftall times. Ensure the standby person remains in constant conteperson(s) entering the space.	act with			
Oxygen deficiency whilst work in progress	Ш	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during entry.				
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)	L	No action required.				
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	٦	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.)	۔	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	Ĺ	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 C: S	Sewer P	it				
		ents of a Confined Space?	YES			
(If the answer to A, B, C and space and requires a risk as		one part of D is yes, then the space is a confined t).				
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 YES 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			
		iquids, that could cause engulfment?	NO			
Works to be completed:		ance and inspection activities.				
Comments:		o space is restricted. No access gained during assess	ment.			
Hazard Types	Risk Rating	Recommended Actions				
Restricted entry and	VH	Wear a safety harness and remain connected to a lift all times.	eline at			
egress in an emergency		Ensure the standby person remains in constant contaperson(s) entering the space.	act with			
Oxygen deficiency whilst work in progress	Е					
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)	Е	Monitor the atmosphere within the space prior to enterprise and ventilate the space if required. Continually monitor the atmosphere within the space entry.	•			
Build-up of organic vapours to within explosive limits	Е	Monitor the atmosphere within the space prior to enter Purge and ventilate the space if required. Only enter the space if the concentration of any flam vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space entry. Ensure no ignition sources are located within or introlinto the space.	mable during			
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.				
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	Е	Isolate all services within the space. Ensure no vehicles operate in the vicinity of the entry Ensure the standby person is monitoring external we conditions and any other factors that could impact the confined space.	ather			

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	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.)	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	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)	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 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 D: S	Storm W	/ater Pit				
Does the space meet the r	equireme	ents of a Confined Space?	YES			
(If the answer to A, B, C and space and requires a risk as		one part of D is yes, then the space is a confined t).				
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 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 of	loes not h	ave a safe oxygen level?	YES			
		iquids, that could cause engulfment?	NO			
Works to be completed:		ance and inspection 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	VH	Wear a safety harness and remain connected to a liftall times. Ensure the standby person remains in constant contaperson(s) entering the space.				
Oxygen deficiency whilst work in progress	Е					
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)	I	Monitor the atmosphere within the space prior to entended and ventilate the space if required. Continually monitor the atmosphere within the space entry.	•			
Build-up of organic vapours to within explosive limits	Ħ	Monitor the atmosphere within the space prior to enter Purge and ventilate the space if required. Only enter the space if the concentration of any flam vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space entry. Ensure no ignition sources are located within or introlinto the space.	mable during			
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.				
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	E	Isolate all services within the space. Ensure no vehicles operate in the vicinity of the entry Ensure the standby person is monitoring external we conditions and any other factors that could impact the confined space.	ather			

Hazard Types	Risk Rating	Recommended Actions
Engulfment	Е	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.)	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	Η	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)	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	Ι	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.

APPENDIX C: PHOTOGRAPHS



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Photo 01. Roof Level, potable water tank

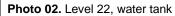




Photo 03. Level B2, Diesel Tank Room, Diesel fuel tank.



Photo 04. Level B3, car parking bay, 329, sewer pit.



Photo 05. Level B3, car parking bay 329, storm water pits (x2)

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.

