TETRA TECH COFFEY

Mirvac Real Estate Pty Ltd

Confined Spaces Assessment

South Everleigh,
Building 1, 5-7 Central Ave, Building 2, 1 Locomotive Street, Building 3, 3 Davy Road, and Building 4 Locomotive Workshop, Eveleigh NSW 2015.

22 March 2024

Project Ref: 754-SYDEN228268-001 South Everleigh Confined Space Report 2024

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CONFINED SPACES ASSESSMENT

Prepared for
Mirvac Real Estate Pty Ltd

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EXECUTIVE SUMMARY

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by Mirvac Real Estate Pty Ltd (the client) to conduct a confined spaces assessment of the 4 buildings list below at South Everleigh, Eveleigh NSW 2015 (the site);

- Building 1, 5-7 Central Ave;
- Building 2, 1 Locomotive Street;
- Building 3, 3 Davy Road; and
- Building 4, Locomotive Workshop.

Phoebe Quessy of Tetra Tech carried out the audit on 27th December 2023 and the 22nd January 2024. For the purpose of this audit, the principal definition of a confined space is that described in the *Work Health and Safety Regulation 2017 (NSW)*.

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 task 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 135 confined spaces were identified at the site.
- Six of the identified confined spaces were correctly signposted, however the majority of the spaces were not signposted. The fuel tank in the ground level diesel generator room in bay 15 of Building 4 had a confined space label on the lid but it was removed and adjacent the fuel tank.
- All confined spaces appeared to be appropriately secured from unauthorised access at the time of the assessment.
- The Mirvac Confined Space Entry Permit was made available for review. This included a requirement for the isolation of plant and services associated with confined spaces prior to any entry occurring.

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 a task specific risk assessment is conducted within the space prior to commencing any works.
- Ensure all identified confined spaces 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.
- Re-install the confined space signage on the fuel tank in the ground level diesel generator room in bay 15 of Building 4.
- 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 *Work Health and Safety Regulation 2017 (NSW)*, the *Code of Practice: Confined Spaces (SafeWork NSW, 2019)* and A*S 2865:2009 Confined Spaces*.
- Tetra Tech is able to assist the client to implement the above recommended actions.

1. INTRODUCTION

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by Mirvac Real Estate Pty Ltd (the client) to conduct a confined spaces assessment of 4 buildings listed below at South Everleigh, Eveleigh NSW 2015 (the site);

- Building 1, 5-7 Central Ave;
- Building 2, 1 Locomotive Street;
- Building 3, 3 Davy Road; and
- Building 4, Locomotive Workshop.

Phoebe Quessy of Tetra Tech carried out the audit on 27th December 2023 and the 22nd of January 2024. For the purpose of this audit, the principal definition of a confined space is that described in the *Work Health and Safety Regulation 2017 (NSW)*.

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 4 Buildings (approximate area 100,000m^2) within in the South Everleigh Precinct, constructed between 1880 and 2019. 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.

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.

External underground pits were not included in this report.

3. WHAT IS A CONFINED SPACE?

The *Work Health & Safety Regulation 2017 (NSW)* defines a confined space as an enclosed or partially enclosed space that:

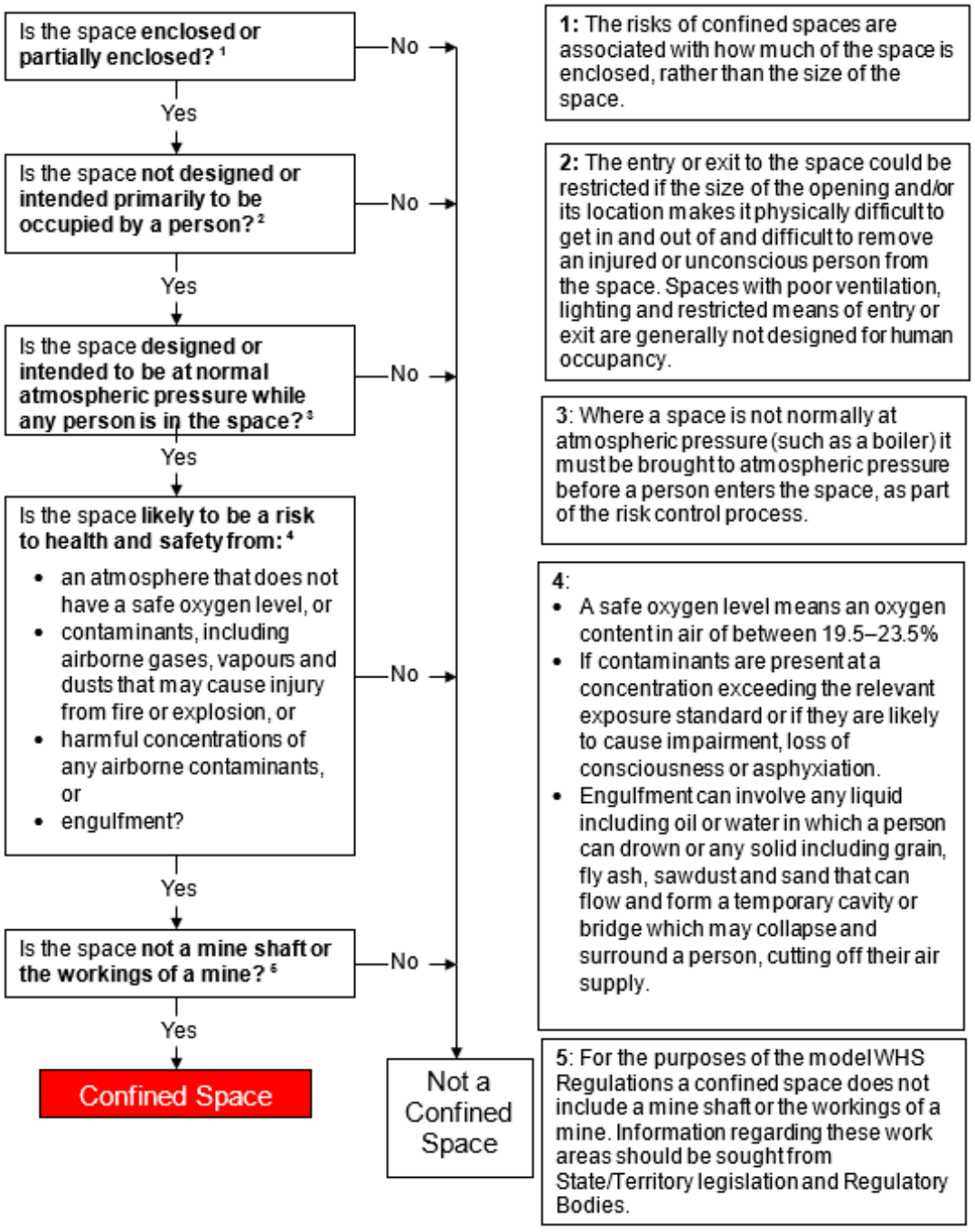
a) is not designed or intended primarily to be occupied by a person; and
b) is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space, and
c) is or is likely to be a risk to health and safety from:
    i. an atmosphere that does not have a safe oxygen level; or
    ii. contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion, or
    iii. harmful concentrations of any airborne contaminants, or
    iv. engulfment.

Note: The above definition does not include a mine shaft or the workings of a mine.

Section 66 (1) of the *Work Health and Safety Regulations 2017 (NSW)* states that 'a PCBU must manage risks to health and safety associated with a confined space at a workplace including risks associated with entering, working in, on or in the vicinity of the confined space (including a risk of a person inadvertently entering the confined space'.

Section 62 (2) of the Regulations also state that the requirements relating to confined spaces within the Regulations refer to confined spaces that are under the PCBUs management or control. For this reason, confined spaces that are identified on site but that fall under the management or control of another PCBU have not been 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					
LIKELIHOOD	**CONSEQUENCE**				
	Insignificant (No injuries)	**Minor** (First aid only)	**Moderate** (Medical treatment)	**Major** (Extensive injuries, loss of production)	**Catastrophic** (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 (Not likely to occur)	Low	Low	Medium	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.

5. FINDINGS

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

- A total of 135 confined spaces were identified at the site.

- Six of the identified confined spaces were correctly signposted, however the majority of the spaces were not signposted. The fuel tank in the ground level diesel generator room in bay 15 of Building 4 had a confined space label on the lid but it was removed and adjacent the fuel tank.
- All confined spaces appeared to be appropriately secured from unauthorised access at the time of the assessment.
- The Mirvac Confined Space Entry Permit was made available for review. This included a requirement for the isolation of plant and services associated with confined spaces prior to any entry occurring.

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 all identified confined spaces 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.
- Re-install the confined space signage on the fuel tank in the ground level diesel generator room in bay 15 of Building 4.
- 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 *Work Health and Safety Regulation 2017 (NSW),* the *Code of Practice: Confined Spaces (SafeWork NSW, 2019)* and A*S 2865:2009 Confined Spaces*.
- Tetra Tech is able to assist the client to implement the above recommended actions.

7. REFERENCES

- *Work Health and Safety Act 2011 (NSW).*
- *Work Health and Safety Regulation 2017 (NSW).*
- *Code of Practice: Confined Spaces (SafeWork NSW, 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 Register								
Space ID	**Type**	**Level**	**Location / Comments**	**Secure**	**Signage**	**Dimensions**	**Risk Assessment**	**Photo**
Building 1								
001-002	Unknown Pit x 2	LG	Lower Ground, outside diesel tank room	Yes	No	Unknown	F	1
003	Unknown Pit	B1	Level B1, Sprinkler Pump Room	Yes	No	Unknown	F	2
004	Underground Diesel Tank	B1	Loading dock, adjacent Bay 1	Yes	No	Unknown	E	3
005	Unknown Pit	B1	Level B1, loading dock, adjacent courier 2 parking bay	Yes	No	Unknown	F	4
006-007	Sewer Pit x 2	B1	Level B1, adjacent entry/ exit ramp, within locked cage area	Yes	No	Unknown	C	5
008	Unknown Pit	B1	Carpark adjacent parking bay L-2	Yes	No	Unknown	F	6
009	Rainwater Tank 100kL	M	Mezzanine Level, Plant Room	Yes	No	100m^3	A	7
010	Sprinkler Tank 120kL	M	Mezzanine Level, Plant Room	Yes	No	120m^3	A	8
011	Potable Water Tank 30kL	8	Level 8, Plant Room	Yes	Yes	30m^3	A	9
012	Hydrant Water Tank 12.5kL	8	Level 8, Plant Room	Yes	Yes	12.5m^3	A	10

Space ID	Type	Level	Location / Comments	Secure	Signage	Dimensions	Risk Assessment	Photo
Building 2								
013	Potable Water Tank 30kL	6	Level 6, Plant Room	Yes	Yes	30m^3	A	11
014-016	Diesel Fuel Tank x 3	6	Level 6 Generator Plant Room	Yes	No	2m^3	B	12
017	Sewer Pit	LG	Lower Ground, Loading Dock, Parking Bay L-05	Yes	No	Unknown	C	13
018-020	Unknown Pit x 3	LG	Lower Ground, Loading Dock, Parking Bay L-05	Yes	No	Unknown	F	14
021	Underground Diesel Fuel tank	LG	Lower Ground, Loading Dock, Parking Bay L-06	Yes	No	Unknown	E	15
022	Underground Diesel Fuel tank	LG	Lower Ground, Loading Dock, Parking Bay L-07	Yes	No	Unknown	E	15
023	Hydrant Water Tank 12.5kL	LG	Lower Ground, Sprinkler Tank and Pump Room	Yes	No	12.5m^3	A	16
024	Unknown Pit	LG	Lower Ground, Sprinkler Tank and Pump Room	Yes	Yes	Unknown	F	17
025	Rainwater Tank 8kL	LG	Lower Ground, Rainwater Tank Room	Yes	Yes	8m^3	A	18
026	Rainwater Tank 92kL	LG	Lower Ground, Rainwater Tank Room	Yes	Yes	92m^3	A	19
027-029	Underground Grease Traps x 3	LG	Lower Ground, Rainwater Tank Room	Yes	No	Unknown	G	20

Space ID	Type	Level	Location / Comments	Secure	Signage	Dimensions	Risk Assessment	Photo
030-031	Unknown Pit x 2	LG	Lower Ground, adjacent parking bay L-132	Yes	No	Unknown	F	21
032	Unknown Pit	LG	Lower Ground, adjacent parking bay L-78	Yes	No	Unknown	F	22
033-035	Stormwater Pit x 3	LG	Lower Ground, adjacent parking bay, 103, 121 & 132	Yes	No	Unknown	D	23
036-037	Humeceptor Pit x 2	LG	Lower Ground, adjacent Foyer AHU Room (not accessed at time of 2024 inspection)	Yes	No	Unknown	F	-24
Building 3								
038	Harvest Water Tank	G	Ground Level, Rainwater Tank Room	Yes	No	~10m^3	A	25
039-040	Domestic Portable Water Tank x 2	G	Fire Hydrant & Sprinkler Pump Room	Yes	No	~5m^3	A	26
Building 4 Locomotive								
041	Diesel Tank 1000L	2	Bay 15, Generator Room	Yes	No	1m^3	B	27
042	Diesel Tank 5500L	G	Bay 15 Generator Room	Yes	Yes but removed	5m^3	B	28
042-044	Decomissoned Water Tanks x 3	G	Exterior Bay 4	Yes	No	~40m^3	A	29
045-048	Decomissoned Boilers x 4	G	Exterior Bay 3	Yes	No	~35m^3	H	30

Space ID	Type	Level	Location / Comments	Secure	Signage	Dimensions	Risk Assessment	Photo
049-050	Decomissoned Water Tank x 2	G	Exterior Bay 2	Yes	No	~20m^3	A	31
051-052	Decomissoned Water Tank x 2	G	Exterior Bay 1	Yes	No	~15m^3	A	32
053	Decomissoned Water Tank	G	Exterior Bay 2	Yes	No	~60m^3	A	33
054-055	Unknown Pit x 2	G	Exterior, rear of Bay 1 and Bay 2	Yes	No	Unknown	F	34
External								
056-057	Unknown Pit x 2	G	Locomotive Street, Bay 15	Yes	No	Unknown	F	35
058	Sewer Pit	G	Locomotive Street, Bay 14	Yes	No	Unknown	C	36
059-060	Unknown Pit x 2	G	Locomotive Street, on road adjacent Bay 14	Yes	No	Unknown	F	37
061	Stormwater Pit	G	Locomotive Street, Bay 14	Yes	No	Unknown	D	38
062	Unknown Pit	G	Locomotive Street, Bay 13	Yes	No	Unknown	F	39
063	Sewer Pit	G	Locomotive Street, Bay 12	Yes	No	Unknown	C	40
064-065	Unknown Pit x 2	G	Locomotive Street, on road adjacent Bay 10	Yes	No	Unknown	F	41

Space ID	Type	Level	Location / Comments	Secure	Signage	Dimensions	Risk Assessment	Photo
066-067	Stormwater Pit x 2	G	Locomotive Street, Bay 10	Yes	No	Unknown	D	42
068-069	Unknown Pit x 2	G	Locomotive Street, between Bay 9 and 10	Yes	No	Unknown	F	43
070-071	Unknown Pit x 2	G	Locomotive Street, On road adjacent Bay 9 and 10	Yes	No	Unknown	F	44
072	Unknown Pit	G	Locomotive Street, Bay 9, adjacent car space	Yes	No	Unknown	F	45
073	Stormwater Pit	G	Locomotive Street, Bay 9	Yes	No	Unknown	D	46
074	Unknown Pit	G	Locomotive Street, Bay 9	Yes	No	Unknown	F	46
075-076	Unknown Pit x 2	G	Locomotive Street, Bay 6	Yes	No	Unknown	F	47
077	Stormwater Pit	G	Locomotive Street, Bay 6	Yes	No	Unknown	D	48
078	Sewer Pit	G	Locomotive Street, on road adjacent Bay 6	Yes	No	Unknown	C	49
079-080	Unknown Pit x 2	G	Locomotive Street, on road adjacent Bay 6	Yes	No	Unknown	F	50
081-082	Unknown Pit x 2	G	Locomotive Street, Bay 4a	Yes	No	Unknown	F	51
083	Stormwater Pit	G	Locomotive Street, Bay 4a	Yes	No	Unknown	D	52

Space ID	Type	Level	Location / Comments	Secure	Signage	Dimensions	Risk Assessment	Photo
084	Unknown Pit	G	Locomotive Street, on road adjacent Bay 4a	Yes	No	Unknown	F	53
085	Unknown Pit	G	Locomotive Street, on road adjacent Bay 4	Yes	No	Unknown	F	54
086-089	Unknown Pit x 4	G	Locomotive Street, between Bay 3 and 4	Yes	No	Unknown	F	55
090	Unknown Pit	G	Locomotive Street, Bay 2	Yes	No	Unknown	F	56
091	Unknown Pit	G	Locomotive Street, on road adjacent Bay 2	Yes	No	Unknown	F	57
092	Unknown Pit	G	Locomotive Street, on road adjacent Bay 1	Yes	No	Unknown	F	58
093-096	Unknown Pit x 4	G	Locomotive Street, Bay 1, gelato shop seating area	Yes	No	Unknown	F	59
097-098	Unknown Pit x 2	G	Locomotive Street, Bay 1, adjacent IGA loading dock	Yes	No	Unknown	F	60
099-114	Unknown Pit x 16	G	Pathway between building 2 and locomotive street	Yes	No	Unknown	F	61
115-131	Unknown Pit x 16	G	South west side of building 2, on footpath	Yes	No	Unknown	F	62
132-135	Unknown Pit x 4	G	Central Ave, road adjacent substation S77164	Yes	No	Unknown	F	63

APPENDIX B: CONFINED SPACE RISK ASSESSMENTS

Risk Assessment A: Water Tank	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
A. Is the space designed or intended primarily not to be occupied by a person?	YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?	YES
C. Is the space likely to be a risk to health and safety from:	
• an atmosphere that does not have a safe oxygen level?	YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?	NO
• harmful concentrations of any airborne contaminants?	NO
• engulfment?	YES

Works to be completed:	Cleaning and maintenance activities.
Comments:	Access to space is restricted. No access gained during assessment.

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 all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	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_2S) 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	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 accessing plant rooms (required for access to the space).
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all inflow pipes into the space.
Engulfment	E	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline 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	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- 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: Fuel Tank		
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).		**YES**
A. Is the space designed or intended primarily not to be occupied by a person?		YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?		YES
C. Is the space likely to be a risk to health and safety from: • an atmosphere that does not have a safe oxygen level? • contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? • harmful concentrations of any airborne contaminants? • engulfment?		 YES YES YES YES
Works to be completed:	Cleaning and maintenance activities.	
Comments:	Access to space is restricted. No access gained during assessment.	
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 all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	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_2S) 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	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 accessing plant rooms (required for access to the space).
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	E	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	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- 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: Sewer Pit	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
A. Is the space designed or intended primarily not to be occupied by a person?	YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?	YES
C. Is the space likely to be a risk to health and safety from:	
• an atmosphere that does not have a safe oxygen level?	YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?	YES
• harmful concentrations of any airborne contaminants?	YES
• engulfment?	YES

Works to be completed:	Maintenance and inspection activities.
Comments:	Access to space is restricted. No access gained during assessment.

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 all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	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_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	E	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
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)	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 weather conditions and any other factors that could impact the confined space.
Hazard Types	**Risk Rating**	**Recommended Actions**

Engulfment	E	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	H	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)	H	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	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- 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: Storm Water Pit	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
A. Is the space designed or intended primarily not to be occupied by a person?	YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?	YES
C. Is the space likely to be a risk to health and safety from:	
• an atmosphere that does not have a safe oxygen level?	YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?	NO
• harmful concentrations of any airborne contaminants?	NO
• engulfment?	YES

Works to be completed:	Maintenance and inspection activities.
Comments:	Access to space is restricted. No access gained during assessment.

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 all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	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_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	H	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up of organic vapours to within explosive limits	H	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.
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 weather conditions and any other factors that could impact the confined space.

Hazard Types	Risk Rating	Recommended Actions
Engulfment	E	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	H	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)	H	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	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- 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 E: Underground Diesel Tank	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
A. Is the space designed or intended primarily not to be occupied by a person?	YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?	YES
C. Is the space likely to be a risk to health and safety from:	
• an atmosphere that does not have a safe oxygen level?	YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?	YES
• harmful concentrations of any airborne contaminants?	YES
• engulfment?	YES

Works to be completed:	Cleaning and maintenance activities.
Comments:	Access to space is restricted. No access gained during assessment.

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 all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	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_2S) 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	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)	L	No action required.
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	E	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 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	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- 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 F: Unknown Pit	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
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?	YES
C. Is the space likely to be a risk to health and safety from: • an atmosphere that does not have a safe oxygen level? • contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? • harmful concentrations of any airborne contaminants? • engulfment?	 YES YES YES YES

Works to be completed:	Unknown. Presumed maintenance and/or inspection activities.
Comments:	The purpose of the pit is unknown. Access within the space was not available at the time of assessment.

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 all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	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_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	VH	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up of organic vapours to within explosive limits	VH	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	Isolate machinery. Wear appropriate PPE (e.g. hearing protection).

Hazard Types	Risk Rating	Recommended Actions
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all services within the space. Ensure the standby person is monitoring external weather conditions and any other factors that could impact the confined space.
Engulfment	E	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	H	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.

General Recommendations

- 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 G: Grease Trap

Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
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?	YES
C. Is the space likely to be a risk to health and safety from:	
• an atmosphere that does not have a safe oxygen level?	YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?	YES
• harmful concentrations of any airborne contaminants?	YES
• engulfment?	YES

Works to be Completed?	Unknown. Presumed maintenance and/or inspection activities.
Comments:	Access within the space was not available at the time of assessment.

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 all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	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_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	VH	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up of organic vapours to within explosive limits	VH	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	E	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	H	Wear slip resistant boots.
Falls from height	H	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	M	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- 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 traffic management and 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 H: Decommissioned Boiler	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
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?	YES
C. Is the space likely to be a risk to health and safety from: • an atmosphere that does not have a safe oxygen level? • contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? • harmful concentrations of any airborne contaminants? • engulfment?	YES NO YES NO

Works to be Completed?	Unknown. Presumed maintenance and/or inspection activities.
Comments:	Access within the space was not available at the time of assessment.

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 all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	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_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	VH	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
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)	L	No action required.
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	H	Isolate all services within the space.
Engulfment	L	No action required.

Hazard Types	Risk Rating	Recommended Actions
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.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	L	No action required.
Slips and trips	H	Wear slip resistant boots.
Falls from height	H	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	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- 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 traffic management and 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

Building 1	

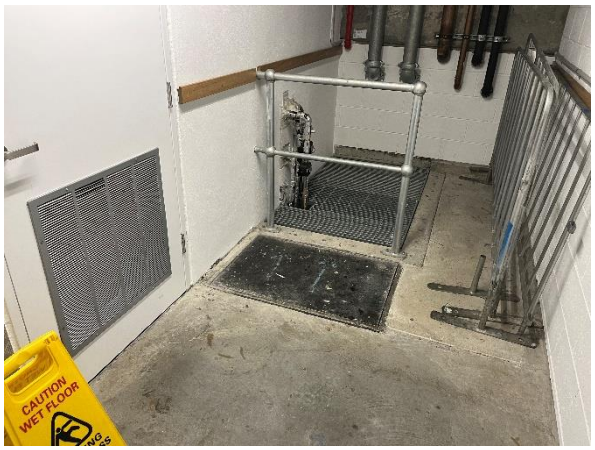
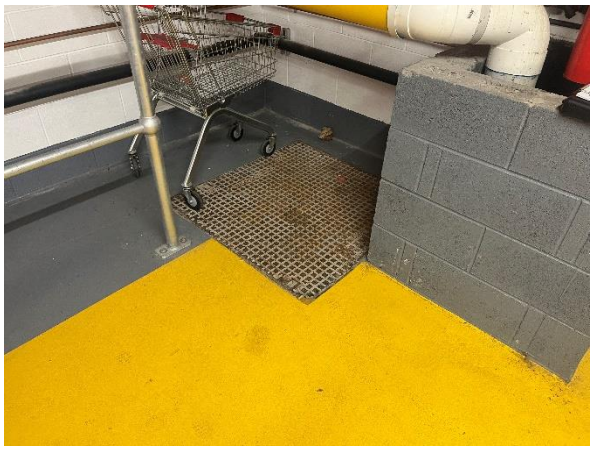

	

Photo 01. Lower Ground, outside diesel tank room, Unknown Pit x 2	**Photo 02.** Level B1, Sprinkler Pump Room, Unknown Pit

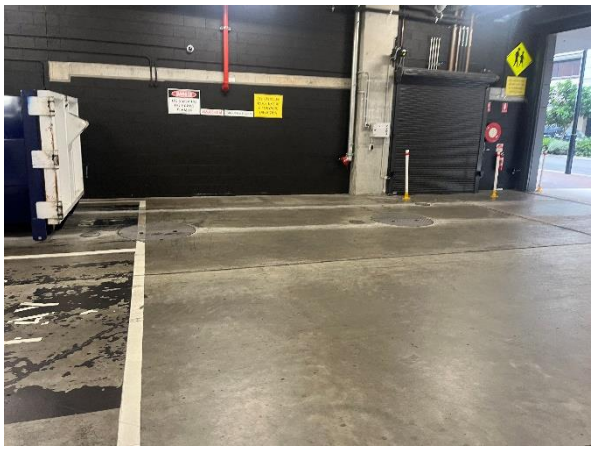



Photo 03. Loading dock, adjacent Bay 1, Underground Diesel Storage Tank	**Photo 04.** Level B1, loading dock, adjacent courier 2 parking bay, Unknown Pit
	
Photo 05. Level B1, adjacent entry/ exit ramp, within locked cage area, Sewer Pit x 2	**Photo 06.** Carpark adjacent parking bay L-2 and L103, Unknown Pit x 2

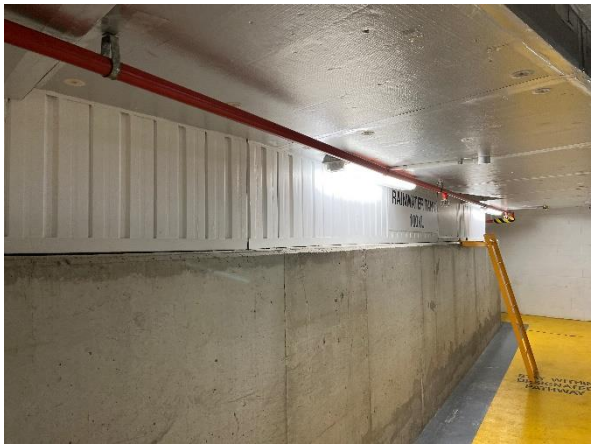
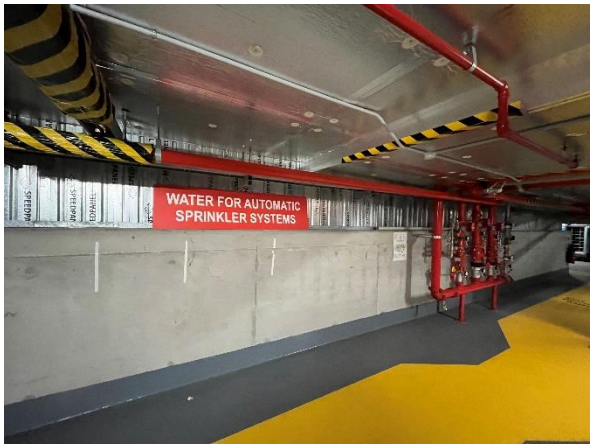
	

Photo 07. Mezzanine Level, Plant Room, Rainwater Tank 100kL	**Photo 08.** Mezzanine Level, Plant Room, Sprinkler Tank 120kL

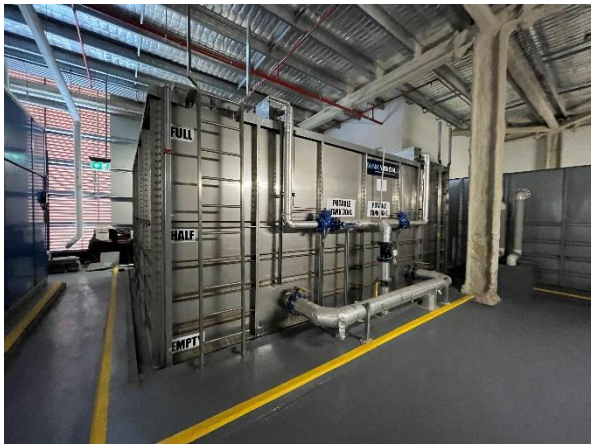



Photo 09. Level 8, Plant Room, Potable Water Tank 30kL	**Photo 10.** Level 8, Plant Room, Hydrant Water Tank 12.5kL

Building 2	

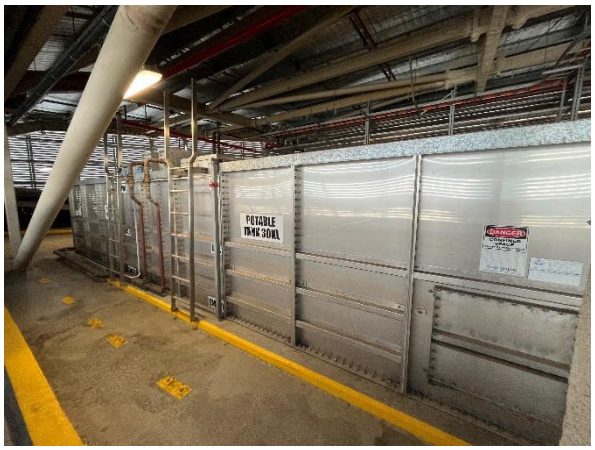
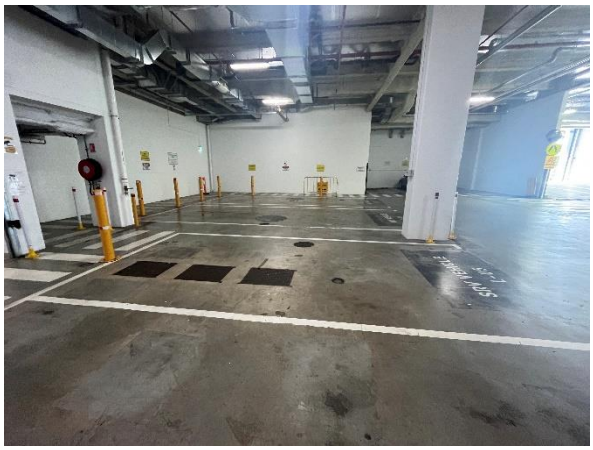



Photo 11. Level 6, Plant Room, Potable Water Tank 30kL	**Photo 12.** Level 6 Generator Plant Room, Diesel Fuel Tank x 3
	
Photo 13. Lower Ground, Loading Dock, Parking Bay L-05, Sewer Pit	**Photo 14.** Lower Ground, Loading Dock, Parking Bay L-05, Unknown Pit x 3

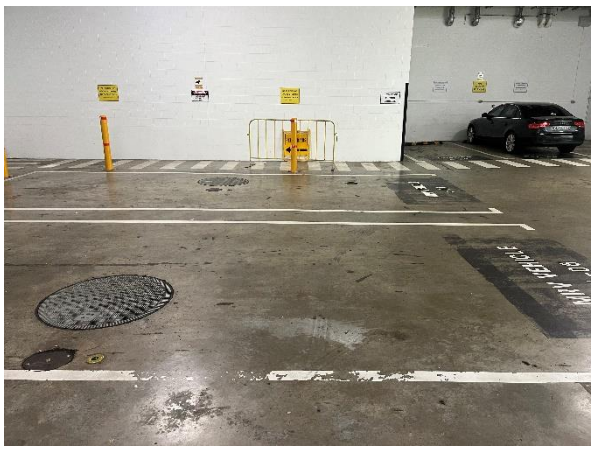
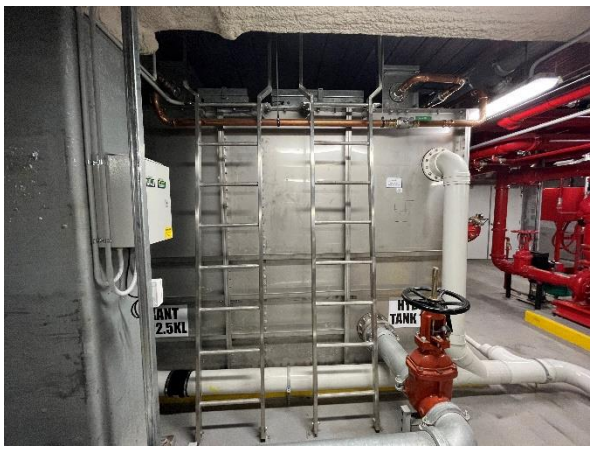

	

Photo 15. Lower Ground, Loading Dock, Parking Bay L-06, Underground Diesel Fuel tank	**Photo 16.** Lower Ground, Sprinkler Tank and Pump Room, Hydrant Water Tank 12.5kL

Photo 17. Lower Ground, Sprinkler Tank and Pump Room, Unknown Pit

Photo 18. Lower Ground, Rainwater Tank Room, Rainwater Tank 8kL.

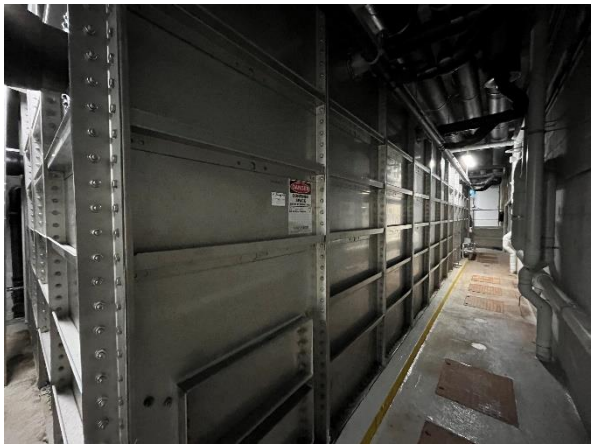


Photo 19. Lower Ground, Rainwater Tank Room, Rainwater Tank 92kL

Photo 20. Lower Ground, Rainwater Tank Room, Underground Grease Traps x 3

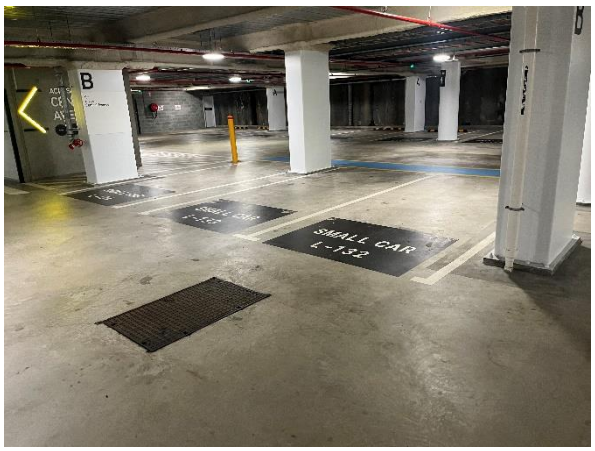


Photo 21. Lower Ground, adjacent parking bay L-132, Unknown Pit x 2

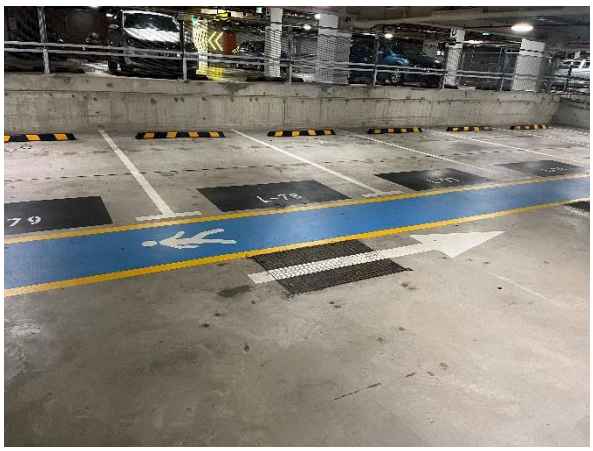


Photo 22. Lower Ground, adjacent parking bay L-78, Unknown Pit

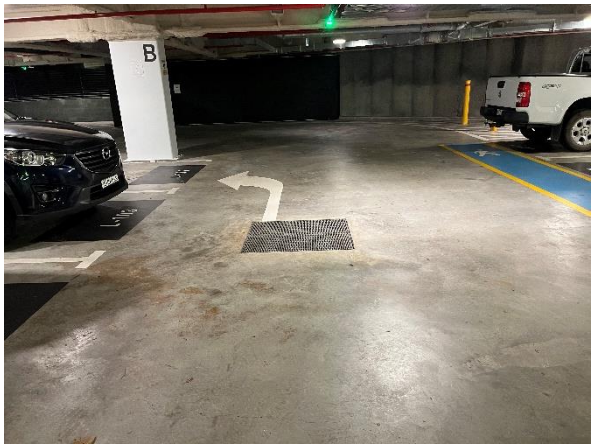


Photo 23. Lower Ground, adjacent parking bay, 103, 121 & 132, Stormwater Pit x 3	**Photo 24.** Lower Ground, adjacent Foyer AHU Room, Humeceptor Pit x 2 – not located at the time of insepction, presumed still present.

Building 3	

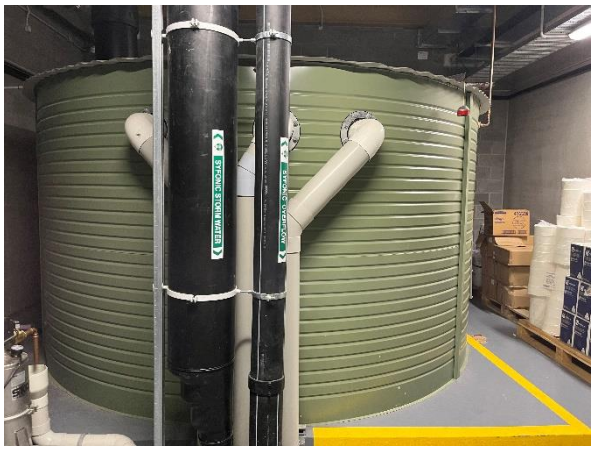



Photo 25. Ground Level, Rainwater Tank Room, Harvest Water Tank	**Photo 26.** Fire Hydrant & Sprinkler Pump Room, Domestic Portable Water Tank x 2

Building 4	
	
Photo 27. Bay 15, Generator Room, diesel tank	**Photo 28.** Bay 15 Ground Level Generator Room, diesel tank
	
Photo 29. Exterior Bay 2, Decomissoned Water Tanks x 3	**Photo 30.** Exterior Bay 2, Decomissoned Boilers x 4
	
Photo 31 Exterior Bay 2, Decomissoned Water Tanks x 2	**Photo 32.** Exterior Bay 2, Decomissoned Water Tanks x 2

	
Photo 33 Exterior Bay 2, Decomissoned Water Tank	**Photo 33.** Exterior, rear of Bay 1 and Bay 2, unknown pit x 2

External	
	
Photo 35. Locomotive Street, Bay 15, Unknown Pit x 2	**Photo 36.** Locomotive Street, Bay 14, Sewer Pit
	
Photo 37. Locomotive Street, on road adjacent Bay 14, Unknown Pit x 2	**Photo 38.** Locomotive Street, Bay 14, Stormwater Pit
	
Photo 39 Locomotive Street, Bay 13, Unknown Pit	**Photo 40.** Locomotive Street, Bay 12, Sewer Pit

	
Photo 41 Locomotive Street, on road adjacent Bay 10, Unknown Pit x 2	**Photo 42.** Locomotive Street, Bay 10, Stormwater Pit x 2
	
Photo 43 Locomotive Street, between Bay 9 and 10, Unknown Pit x 2	**Photo 44.** Locomotive Street, On road adjacent Bay 9 and 10, Unknown Pit x 2
	
Photo 45 Locomotive Street, Bay 9, adjacent car space, Unknown Pit	**Photo 46.** Locomotive Street, Bay 9, Stormwater Pit and unknown pit

	
Photo 47. Locomotive Street, Bay 6, Unknown Pit x 2	**Photo 48.** Locomotive Street, Bay 6, Stormwater Pit
	
Photo 49. Locomotive Street, on road adjacent Bay 6, Sewer Pit	**Photo 50.** Locomotive Street, on road adjacent Bay 6, Unknown Pit x 2
	
Photo 51 Locomotive Street, Bay 4a, Unknown Pit x 2	**Photo 52.** Locomotive Street, Bay 4a, Stormwater Pit

	
Photo 53 Locomotive Street, on road adjacent Bay 4a, Unknown Pit	**Photo 54.** Locomotive Street, on road adjacent Bay 4, Unknown Pit
	
Photo 55 Locomotive Street, between Bay 3 and 4, Unknown Pit x 4	**Photo 56.** Locomotive Street, Bay 2, Unknown Pit
	
Photo 57 Locomotive Street, on road adjacent Bay 2, Unknown Pit	**Photo 58.** Locomotive Street, on road adjacent Bay 1, Unknown Pit

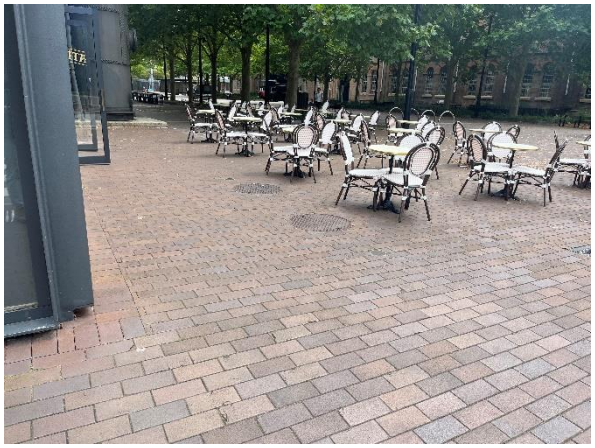


Photo 59. Locomotive Street, Bay 1, gelato shop seating area, Unknown Pit x 4

Photo 60. Locomotive Street, Bay 1, adjacent IGA loading dock, Unknown Pit x 2

Photo 61. Locomotive Street, on road adjacent Bay 14, Unknown Pit x 2

Photo 62. Locomotive Street, Bay 14, Stormwater Pit

Photo 63 Locomotive Street, Bay 13, Unknown Pit

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.