

Mirvac Real Estate Pty Ltd

Confined Spaces Assessment

28 Barrack Street, Perth, Western Australia 6000

13 October 2022 Project Ref: 754-SYDEN228268-28 Barrack St, Perth This page has been left intentionally blank

CONFINED SPACES ASSESSMENT

Prepared for Mirvac Real Estate Pty Ltd

Prepared by **Tetra Tech Coffey Pty Ltd** Level 1, 235 St Georges Terrace Perth WA 6000 Australia t: +61 8 6218 2100 f: +61 8 6218 2222 ABN: 55 139 460 521

13 October 2022

754-SYDEN228268 - 28 Barrack St, Perth

Quality information

Revision history

| Revision | Description | Date | Originator | Reviewer | Approver |
|----------|-------------|------------|------------|--------------|--------------|
| R01 | Final | 13/10/2022 | Brad Erceg | Dean Gleeson | Dean Gleeson |

Distribution

| Report Status | No. of copies | Format | Distributed to | Date |
|---------------|---------------|--------|----------------------------|------------|
| R01 Final | 1 | PDF | Mirvac Real Estate Pty Ltd | 13/10/2022 |

CONTENTS

| Exe | cutive | summary | . 4 | | |
|-----|--|---------------------------------------|-----|--|--|
| 1. | Introd | luction | . 6 | | |
| | 1.1 | Site Description | . 6 | | |
| 2. | Scope | e | . 6 | | |
| | 2.1 | Inaccessible Areas | . 6 | | |
| 3. | What | is a Confined space? | . 6 | | |
| 4. | Risk / | Assessment | . 7 | | |
| 5. | Findir | ngs | . 8 | | |
| 6. | Reco | mmended Actions | . 9 | | |
| 7. | Refer | ences | 10 | | |
| 8. | Limita | ations | 10 | | |
| App | endix / | A: Confined Spaces Register | 11 | | |
| App | Appendix B: Confined Space Risk Assessments 14 | | | | |
| App | endix | C: Photographs | 27 | | |
| Арр | Appendix D: Confined Space Signage | | | | |
| App | endix | E: Mirvac Confined Space Entry Permit | 35 | | |

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 the David Malcolm Justice Centre, located at 28 Barrack Street, Perth, Western Australia 6000. Brad Erceg of TTC carried out the audit on 30th August 2022. For the purpose of this audit, the principal definition of a confined space is that described in the *Work Health and Safety (General) Regulations 2022 (WA).*

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 space and 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 twenty (20) confined spaces were identified at the site. One additional space (a diesel generator day tank in the Generator Room on Level 18) was identified that was not included in the previous assessment report.
- The majority of the identified confined spaces were appropriately signposted, however the diesel generator day tank in the Generator Room on Level 18 was not signposted.
- All confined spaces appeared to be appropriately secured from unauthorised access at the time of the assessment.
- A confined space entry permit system was available for the site (Refer to **Appendix E** for Mirvac Confined Space Entry Permit).
- A documented procedure for the isolation and tag out of plant and services associated with confined spaces was available for the site. This was detailed in the confined space entry permit.
- TTC was advised that no recent confined space entries have occurred at the site.

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 prior to commencing any works within a confined space.
- Ensure the diesel generator day tank in the Generator Room on Level 18 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 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 (General) Regulations, 2022 (WA), the Code of Practice: Confined Spaces 2022 (WA) 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 the David Malcolm Justice Centre, located at 28 Barrack Street, Perth, Western Australia 6000. Brad Erceg of TTC carried out the audit on 29th August 2022. For the purpose of this audit, the principal definition of a confined space is that described in the *Work Health and Safety (General) Regulations 2022 (WA).*

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 space and task specific risk assessment is required prior to entering any confined spaces identified in this report.

1.1 Site Description

The site consisted of a 32 level (approximately 32,000m²) office building, with construction completed in 2015. 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.

3. WHAT IS A CONFINED SPACE?

The Work Health and Safety (General) Regulations 2022 (WA) defines a confined space as being 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 anything specified below:
 - (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 level, or
 - (iii) harmful concentrations of any airborne contaminants; or
 - (iv) engulfment.

Note: The above definition does not include a space in which excavation work is carried out in an underground mine.

Regulation 66 (1) of the Work Health and Safety (General) Regulations 2022 (WA) states that 'A person conducting business or undertaking 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 the risk of someone inadvertently entering the confined space)'.

Regulation 66 (2) of the Regulations also states that 'A person conducting a business or undertaking must ensure that a risk assessment is conducted by a competent person for the purposes of sub regulation (1)'.

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



Source: Code of Practice: Confined Spaces 2022 (WA)

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 | | | | | | |
| | 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 | Law | Madium | Llink | Vendlich | | |
| (Not likely to occur) | LOW | LOW | Wealum | 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 twenty (20) confined spaces were identified at the site. One additional confined space (a diesel generator day tank in the Generator Room on Level 18) was identified that was not included in the previous assessment report.

Tetra Tech Coffey SYDEN228268 - 28 Barrack St, Perth 13 October 2022

- The majority of the identified confined spaces were appropriately signposted, however the diesel generator day tank in the Generator Room on Level 18 was not signposted.
- All confined spaces appeared to be appropriately secured from unauthorised access at the time of the assessment.
- A confined space entry permit system was available for the site (Refer to **Appendix E** for Mirvac Confined Space Entry Permit).
- A documented procedure for the isolation and tag out of plant and services associated with confined spaces was available for the site. This was detailed in the confined space entry permit.
- TTC was advised that no recent confined space entries have occurred at the site.

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

6. RECOMMENDED ACTIONS

- Ensure a task specific risk assessment is conducted prior to commencing any works within a confined space.
- Ensure the diesel generator day tank in the Generator Room on Level 18 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 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 (General) Regulations, 2022 (WA), the Code of Practice: Confined Spaces 2022 (WA) and AS 2865:2009 Confined Spaces.
- TTC is able to assist the client to implement the above recommended actions.

7. REFERENCES

- Work Health and Safety Act, 2020 (WA).
- Work Health and Safety (General) Regulations, 2022 (WA).
- Code of Practice: Confined Spaces 2022 (WA).
- 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.

Confined Spaces Assessment

APPENDIX A: CONFINED SPACES REGISTER

Tetra Tech Coffey SYDEN228268-28 Barrack St, Perth 13 October 2022

11

| Confined Spaces Register | | | | | | | | |
|--------------------------|---------------------|-------|--|--------|---------|-------------------|--------------------|--------|
| Space ID | Туре | Level | Location / Comments | Secure | Signage | Dimensions | Risk Assessment | Photo |
| 001 | Sewer pit | В | Basement, adjacent to car parking bay 17 | Yes | Yes | Unknown | С | 1 |
| 002 | Unknown pit | В | Basement, adjacent to car parking bay 12 | Yes | Yes | Unknown | F | 2 |
| 003 | Sewer pit | В | Basement, adjacent to car parking bay 12 | Yes | Yes | Unknown | С | 2 |
| 004 & 005 | Storm water pit x 2 | В | Basement, adjacent to car parking bay 12 | Yes | Yes | Unknown | D | 2 |
| 006 | Unknown pit | В | Basement, adjacent to Tower Store | Yes | Yes | Unknown | F | 3 |
| 007 & 008 | Grease trap x 2 | В | Basement, adjacent to Security Office | Yes | Yes | Unknown | E | 4 |
| 009 - 011 | Grease trap x 3 | В | Basement, adjacent to car parking bay 27 | Yes | Yes | Unknown | E | 5 |
| 012 | Water tank | В | Basement, stormwater tank | Yes | Yes | 40m ³ | A | 6 |
| 013 | Water tank | В | Basement, Fire Pump Room | Yes | Yes | 40m ³ | A | 7 |
| 014 | Fuel tank | В | Basement, Diesel Store Room | Yes | Yes | 6.5m ³ | В | 8 |
| 015 | Sewer pit | В | Basement, Sewer Pump Room | Yes | Yes | Unknown | С | 9 |
| 016 | Unknown pit | В | Basement, Driveway entry to basement | Yes | Yes | Unknown | F | 10 |
| 017 | Water tank x 2 | L1 | Level 1, Plant Room | Yes | Yes | 10m ³ | А | 11 |
| 018 | Fuel tank | L18 | Level 18, Generator Room | Yes | No | 1m ³ | В | 12, 13 |

Confined Spaces Assessment

| Space ID | Туре | Level | Location / Comments | Secure | Signage | Dimensions | Risk Assessment | Photo |
|-------------|----------------|-------|---------------------|--------|---------|------------------|--------------------|-------|
| 019 | Water tank x 2 | L32 | Level 32, Roof | Yes | Yes | 30m ³ | А | 14 |
| 020 | Water tank x 2 | L32 | Level 32, Roof | Yes | Yes | 10m ³ | А | 15 |

Confined Spaces Assessment

APPENDIX B: CONFINED SPACE RISK ASSESSMENTS

Tetra Tech Coffey SYDEN228268-28 Barrack St, Perth 13 October 2022

| Risk Assessment A: | Water 1 | lank land land land land land land land land | |
|--|-----------------------|--|-------------|
| Does the space meet the | requiren | nents of a Confined Space? | YES |
| (If the answer to A, B, and space and requires a risk a | at least o ssessme | ne part of C, is yes, then the space is a confined nt). | |
| A. Is the space not design | ed or inte | ended primarily to be occupied by a person? | YES |
| B. Is the space at, or is de any person is in the space | esigned o ace? | r intended to be at normal atmospheric pressure while | YES |
| C. Is the space likely to be | e a risk to | health and safety from: | |
| an atmosphere | that doe | s not have a safe oxygen level? | YES |
| contaminants, | including | airborne gases, vapours and dusts, that may cause | NO |
| injury from fire | or explos | ion level? | |
| narmful concer engulfment? | itrations (| or any airborne contaminants? | YES |
| Works to be completed: | Cleanin | g and maintenance activities. | |
| Comments: | Access | to space is restricted. No access gained during assessi | ment. |
| Hazard Types | Risk Rating | Recommended Actions | |
| Restricted entry and | VH | Wear a safety harness and remain connected to a life | line at all |
| egress in an emergency | | times. Ensure the standby person remains in constant conta | ct with |
| | | person(s) entering the space. | |
| Oxygen deficiency whilst | Е | Monitor the atmosphere within the space prior to ente | ring. |
| work in progress | | (19.5% to 23.5%). | ite range |
| | | Ventilate the space if required. | |
| | | Continually monitor the atmosphere within the space of entry | during |
| Build-up or excess of | L | No action required. | |
| vapours such as | | | |
| or carbon monoxide (H2S) | | | |
| to concentrations above | | | |
| the workplace exposure | | | |
| Build-up of organic | L | No action required. | |
| vapours to within | | | |
| explosive limits | 1 | No action required | |
| concentrations above the | Ľ | | |
| WES | | | |
| Radiation (non-ionising and ionising) | L | No action required. | |
| Noise generated at levels | М | Wear appropriate hearing protection PPE when acces | sing |
| above 85 dB(A) | νн | plant rooms (required for access to the space). | |
| of substances (e.g. | | | |
| steam, water, gases etc.) | _ | | |
| ⊏nguirment | E | Usolate all inflow pipes into the space. Wear a safety harness and remain connected to a life | line at all |
| | | times. | |
| Manual handling of | М | Use a winch or rope pulley system to lower equipmen | t into the |
| equipment into pits | | tank. | |
| Mechanical hazards (e.g. | L | No action required. | |
| entanglement, crushing, | | | |

| Hazard Types | Risk Rating | Recommended Actions | | |
|---|----------------|--|--|--|
| Skin contact with hazardous substances | L | No action required. | | |
| contaminants | | | | |
| Slips and trips | М | Wear slip resistant boots. | | |
| Falls from height | VH | Wear a safety harness and remain connected to a lifeline at all times. | | |
| Electrical hazards | М | Portable electrical equipment should be protected through an RCD, located outside of the space. | | |
| Biological hazards (e.g. E-coli) | М | 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. | | |
| Conoral Recommondations | | | | |

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 B: Fuel Tank | | | | | |
|--|---|--|----------|--|--|
| Does the space meet the | requireme | ents of a Confined Space? | YES | | |
| (If the answer to A, B, and a space and requires a risk as | at least on ssessmen | e part of C, is yes, then the space is a confined t). | | | |
| A. Is the space not designed | ed or inter | nded primarily to be occupied by a person? | YES | | |
| B. Is the space at, or is de any person is in the spa | B. Is the space at, or is designed or intended to be at normal atmospheric pressure while any person is in the space? | | | | |
| C. Is the space likely to be | a risk to h | nealth 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 YES | | | | | |
| from fire or explosion | from fire or explosion level? | | | | |
| namulfment? | ons of any | | YES | | |
| Works to be completed: | Cleaning | and maintenance activities. | | | |
| Comments: | Access t | to space is restricted. No access gained during assess | ment. | | |
| Hazard Types | Risk | Recommended Actions | | | |
| | Rating | | | | |
| Restricted entry and | VH | Wear a safety harness and remain connected to a lif | eline at | | |
| egress in an emergency | | Ensure the standby person remains in constant conta | act with | | |
| | | person(s) entering the space. | | | |
| Oxygen deficiency whilst | E | Monitor the atmosphere within the space prior to enter Only enter the space if oxygen levels are within the s | ering. | | |
| work in progress | | range (19.5% to 23.5%). | | | |
| | | Ventilate the space if required. | during | | |
| | | entry. | aunng | | |
| Build-up or excess of | L | No action required. | | | |
| vapours such as hydrogen sulphide (H ₂ S) | | | | | |
| or carbon monoxide (CO) | | | | | |
| to concentrations above | | | | | |
| standards (WES) | | | | | |
| Build-up of organic | Е | Monitor the atmosphere within the space prior to enter | ering. | | |
| vapours to within | | Purge and ventilate the space if required. | mable | | |
| | | vapours is less than 5% of its lower explosive limit. | mable | | |
| | | Continually monitor the atmosphere within the space | during | | |
| | | entry. Ensure no ignition sources are located within or intro | duced | | |
| | | into the space. | | | |
| Airborne dust | L | No action required. | | | |
| WES | | | | | |
| Radiation (non-ionising | L | No action required. | | | |
| and ionising) | M | Wear appropriate bearing protection PPF when acce | esina | | |
| above 85 dB(A) | 101 | plant rooms (required for access to the space). | ,song | | |
| Uncontrolled introduction | VH | Isolate all inflow pipes into the space. | | | |
| of substances (e.g. steam, water, gases etc.) | | | | | |
| , <u></u> , <u></u> , <u></u> , <u></u> , | | | | | |
| Hazard Types | Risk Rating | Recommended Actions | | | |
| | Natiliy | | | | |

| 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 | М | 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 | М | Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). |
| Slips and trips | М | Wear slip resistant boots. |
| Falls from height | VH | Wear a safety harness and remain connected to a lifeline at all times. |
| Electrical hazards | М | 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 Recommendation | IS | |

- 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 r | requireme | ents of a Confined Space? | YES | | | |
| (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). | | | | | | |
| A. Is the space not designed | ed or inter | nded primarily to be occupied by a person? | YES | | | |
| B. Is the space at, or is deal any person is in the space | B. Is the space at, or is designed or intended to be at normal atmospheric pressure while YES any person is in the space? | | | | | |
| C. Is the space likely to be a risk to health and safety from: | | | | | | |
| | | | | | | |
| an atmosphere that contaminants, inclusion | an atmosphere that does not have a safe oxygen level? contaminants, including airborne gases, vanours and dusts, that may cause injury | | | | | |
| from fire or explosic | on level? | ····· 5-····, ···· -···· -···· -·····, ······· ······ ······ | YES | | | |
| harmful concentration | ons of any | v airborne contaminants? | YES | | | |
| engulfment? | | | YES | | | |
| Works to be completed: | Mainten | ance and inspection activities. | mont | | | |
| Hazard Types | Risk | Recommended Actions | ment. | | | |
| | Rating | Actions | | | | |
| Restricted entry and | VH | Wear a safety harness and remain connected to a life | eline at | | | |
| egress in an emergency | | all times. Ensure the standby person remains in constant cont | act with | | | |
| | | person(s) entering the space. | | | | |
| Oxygen deficiency whilst | E | Monitor the atmosphere within the space prior to enter | ering. | | | |
| work in progress | | Only enter the space if oxygen levels are within the s range (19.5% to 23.5%) | sare | | | |
| | | Ventilate the space if required. | | | | |
| | | Continually monitor the atmosphere within the space | during | | | |
| Build-up or excess of | Е | Monitor the atmosphere within the space prior to enter | ering. | | | |
| vapours such as | | Purge and ventilate the space if required. | | | | |
| hydrogen sulphide (H ₂ S) or carbon monoxide (CO) | | Continually monitor the atmosphere within the space | during | | | |
| to concentrations above | | onay. | | | | |
| the workplace exposure | | | | | | |
| Build-up of organic | Е | Monitor the atmosphere within the space prior to enter | erina. | | | |
| vapours to within | | Purge and ventilate the space if required. | 5g. | | | |
| explosive limits | | Only enter the space if the concentration of any flam | mable | | | |
| | | Continually monitor the atmosphere within the space | during | | | |
| | | entry. | duced | | | |
| | | into the space. | duced | | | |
| Airborne dust | L | No action required. | | | | |
| concentrations above the WES | | | | | | |
| Radiation (non-ionising | L | No action required. | | | | |
| and ionising) | | | | | | |
| Noise generated at levels above 85 dB(A) | L | No action required. | | | | |
| Oncontrolled introduction of substances (e.g. | E | Isolate all services within the space. Ensure no vehicles operate in the vicinity of the entry | 1. | | | |
| steam, water, gases etc.) | | Ensure the standby person is monitoring external we | ather | | | |
| | | conditions and any other factors that could impact th | е | | | |
| 1 | | commed 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 | М | 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 | М | 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 | М | Portable electrical equipment should be protected through an RCD, located outside of the space. | | |
| Biological hazards (e.g. E-coli) | н | 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. | | |
| General Recommendations | | | | |

- 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 requirements of a Confined Space? YES | | | | | | | | |
| (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). | | | | | | | | |
| A. Is the space not designed or intended primarily to be occupied by a person? YES | | | | | | | | |
| B. Is the space at, or is deal any person is in the spa | B. Is the space at, or is designed or intended to be at normal atmospheric pressure while YES any person is in the space? | | | | | | | |
| C. Is the space likely to be a risk to health and safety from: | | | | | | | | |
| • an atmosphere that does not have a safe oxygen level? | | | | | | | | |
| an atmosphere that does not have a safe oxygen level? contaminants, including airborne gases, vapours and dusts, that may cause injury | | | | | | | | |
| from fire or explosic | on level? | | TES VEO | | | | | |
| harmful concentration ongulfmont2 | ons of any | airborne contaminants? | YES VES | | | | | |
| Works to be completed: | Mainton | ance and inspection activities | TES | | | | | |
| Comments: | Access t | to space is restricted. No access gained during assess | ment | | | | | |
| Hazard Types | Risk | Recommended Actions | | | | | | |
| | Rating | | | | | | | |
| Restricted entry and | VH | Wear a safety harness and remain connected to a life | eline at | | | | | |
| egress in an emergency | | all times. Ensure the standby person remains in constant cont | act with | | | | | |
| | | person(s) entering the space. | | | | | | |
| Oxygen deficiency whilst | deficiency whilst E Monitor the atmosphere within the space prior to entering. | | | | | | | |
| work in progress | | range (19.5% to 23.5%). | ale | | | | | |
| | | Ventilate the space if required. | | | | | | |
| | Continually monitor the atmosphere within the space during | | | | | | | |
| Build-up or excess of | Н | Monitor the atmosphere within the space prior to entering. | | | | | | |
| vapours such as | | Purge and ventilate the space if required. | | | | | | |
| hydrogen sulphide (H_2S) or carbon monoxide (CO) | | Continually monitor the atmosphere within the space | during | | | | | |
| to concentrations above | | Sin yi | | | | | | |
| the workplace exposure | | | | | | | | |
| Build-up of organic | Н | Monitor the atmosphere within the space prior to ent | erina. | | | | | |
| vapours to within | | Purge and ventilate the space if required. | 5 | | | | | |
| explosive limits | | Only enter the space if the concentration of any flam | mable | | | | | |
| | | Continually monitor the atmosphere within the space | during | | | | | |
| | | entry. | | | | | | |
| | | Ensure no ignition sources are located within or intro into the space | duced | | | | | |
| Airborne dust | L | No action required. | | | | | | |
| concentrations above the | | | | | | | | |
| Radiation (non-ionising | L | No action required. | | | | | | |
| and ionising) | | | | | | | | |
| Noise generated at levels above 85 dB(A) | L | No action required. | | | | | | |
| Uncontrolled introduction | E | Isolate all services within the space. | / | | | | | |
| steam, water, gases etc.) | | Ensure the standby person is monitoring external we | ather | | | | | |
| | | conditions and any other factors that could impact th | е | | | | | |
| | | commed 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 | М | 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 | М | 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 | М | Portable electrical equipment should be protected through an RCD, located outside of the space. |
| Biological hazards (e.g. E-coli) | Н | 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. |
| General Recommendation | IS | |

- 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: Grease Trap | | | | | | | | |
|---|---|---|-------------|--|--|--|--|--|
| Does the space meet the | requirem | ents of a Confined Space? | YES | | | | | |
| (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). | | | | | | | | |
| A. Is the space not designed or intended primarily to be occupied by a person? YES | | | | | | | | |
| B. Is the space at, or is designed or intended to be at normal atmospheric pressure while YES any person is in the space? | | | | | | | | |
| 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 explosi | on level? | | NO VEO | | | | | |
| harmful concentrat | ions of an | y airborne contaminants? | YES | | | | | |
| enguiment? | Cleaning | and maintananaa activitian | TES | | | | | |
| Comments: | |) and maintenance activities. | nont | | | | | |
| Hazard Types | Rick | Becommended Actions | nent. | | | | | |
| Tiazaru Types | Rating | Recommended Actions | | | | | | |
| Restricted entry and | VH | Wear a safety harness and remain connected to a life | line at all | | | | | |
| egress in an emergency | | times. | ot with | | | | | |
| | | person(s) entering the space. | | | | | | |
| Oxygen deficiency whilst | E | Monitor the atmosphere within the space prior to ente | ring. | | | | | |
| work in progress | | 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 | | | | | | |
| Build up or evenes of | | entry. | | | | | | |
| vapours such as | п | Purge and ventilate the space if required. | ing. | | | | | |
| hydrogen sulphide (H ₂ S) | | Continually monitor the atmosphere within the space | during | | | | | |
| or carbon monoxide | | entry. | | | | | | |
| above the workplace | | | | | | | | |
| exposure standards | | | | | | | | |
| (WES) Build-up of organic | н | Monitor the atmosphere within the space prior to enter | ring | | | | | |
| vapours to within | | Purge and ventilate the space if required. | inig. | | | | | |
| explosive limits | | Only enter the space if the concentration of any flamm | nable | | | | | |
| | | Continually monitor the atmosphere within the space | durina | | | | | |
| | | entry. | uug | | | | | |
| | | Ensure no ignition sources are located within or introc | Juced into | | | | | |
| Airborne dust | L | No action required. | | | | | | |
| concentrations above the | | | | | | | | |
| WES | | | | | | | | |
| and ionising | L | no action required. | | | | | | |
| Noise generated at | М | Wear appropriate hearing protection PPE when acces | ssing | | | | | |
| levels above 85 dB(A) | | plant rooms (required for access to the space). | | | | | | |
| of substances (e.g. | VH | Isolate all services within the space. | ather | | | | | |
| steam, water, gases etc.) | steam, water, gases etc.) 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 | М | 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 | М | Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). |
| Slips and trips | М | Wear slip resistant boots. |
| Falls from height | VH | 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) | М | 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. |
| General Recommendatio | ns | |

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: | Unknow | n Pit | | | | | | |
|---|----------------|---|--------------|--|--|--|--|--|
| Does the space meet the | requirem | ents of a Confined Space? | YES | | | | | |
| (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). | | | | | | | | |
| A. Is the space not designed or intended primarily to be occupied by a person? YES | | | | | | | | |
| B. Is the space at, or is designed or intended to be at normal atmospheric pressure while YES any person is in the space? | | | | | | | | |
| C. Is the space likely to be a risk to health and safety from: | | | | | | | | |
| • an atmosphere that does not have a safe oxygen level? | | | | | | | | |
| an autosphere that does not have a sale oxygen level? contaminants, including airborne gases, vapours and dusts, that may cause iniury | | | | | | | | |
| from fire or explosi | on level? | | YES | | | | | |
| harmful concentrat | ions of an | y airborne contaminants? | YES | | | | | |
| engulfment? | | | YES | | | | | |
| Works to be completed: | Cleaning | and maintenance activities. | | | | | | |
| Comments: | Access t | o space is restricted. No access gained during assess | ment. | | | | | |
| Hazard Types | Risk Rating | Recommended Actions | | | | | | |
| Restricted entry and | VH | Wear a safety harness and remain connected to a life | eline at all | | | | | |
| egress in an emergency | | Ensure the standby person remains in constant conta | act with | | | | | |
| | | person(s) entering the space. | | | | | | |
| Oxygen deficiency whilst | E | Monitor the atmosphere within the space prior to entering. | | | | | | |
| work in progress | | 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 | | | | | | |
| Build-up or excess of | | entry. Monitor the atmosphere within the space prior to entry | vring | | | | | |
| vapours such as | VII | Purge and ventilate the space if required. | ang. | | | | | |
| hydrogen sulphide (H ₂ S) | | Continually monitor the atmosphere within the space | during | | | | | |
| or carbon monoxide | | entry. | | | | | | |
| above the workplace | | | | | | | | |
| exposure standards | | | | | | | | |
| (WES) | | | | | | | | |
| Build-up of organic | VH | Monitor the atmosphere within the space prior to enter Burge and ventilete the space if required | ering. | | | | | |
| explosive limits | | Only enter the space if the concentration of any flam | nable | | | | | |
| | | 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 introd | duced into | | | | | |
| | | the space. | | | | | | |
| Airborne dust | L | No action required. | | | | | | |
| concentrations above the | | | | | | | | |
| Radiation (non-ionising | L | No action required. | | | | | | |
| and ionising) | | - | | | | | | |
| Noise generated at | М | Wear appropriate hearing protection PPE when access | ssing | | | | | |
| Hazard Types | Rick | plant rooms (required for access to the space). | | | | | | |
| Rating | | | | | | | | |
| Uncontrolled introduction VH Isolate all services within the space. | | | | | | | | |
| or substances (e.g. | | | | | | | | |
| sicalli, walel, yases elc.) | | | | | | | | |

| | | 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 | М | Ensure a two-person lift or lifting device is used when lifting or |
| covers, lowering | | removing covers. |
| equipment into pits | | Use a winch to lower equipment into the space. |
| Mechanical hazards (e.g. | L | No action required. |
| entanglement, crushing, | | |
| cutting, etc.) | | |
| Skin contact with | М | Wear appropriate PPE (e.g. gloves, long sleeve shirt and |
| hazardous substances | | pants, boots and eye wear). |
| and surface | | |
| contaminants | | |
| Slips and trips | М | Wear slip resistant boots. |
| Falls from height | VH | 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. | М | Wear appropriate PPE (e.g. gloves, long sleeve shirt and |
| E-coli) | | 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. |
| General Recommendatio | ns | |

- 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









hatch view





Photo 15. Level 32 (Roof), water tank (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.

| CONFIN | ED SPACE |
|---|--|
| HAZARDOUS ATMOSP | PHERE ENTRY BY PERMIT ONLY |
| Entering This Confined S | pace IS NOT A ROUTINE Operation. |
| DO IT | SAFELY! |
| 1. Permission Get a written permit from your certified supervisor Cock out power feeds Shut off heating systems if needed Drain if needed Vent vapors if needed Post "WORKER IN CONFINED SPACE" signs Isolation Disconnect fill and drain lince if needed Space and vent to cutside | 6. Check air inside Confined Space At least 19.5% oxygen Check for Explosive limit 0% LEL Toxic vapors if needed 6. Protect yourself Weer gloves, and other safety ciolthing Put on harness and lifeline Continuously monitor the air 7. Rescue backup Observer with suxiliary air supply standing by before you enter and until you exit, <u>SAFELY.</u> 8. In case of Emergency call Plant Protection. |

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



APPENDIX E: MIRVAC CONFINED SPACE ENTRY PERMIT

Mirvac HSE CFA 6 Worker Health & Welfare | Work in Confined Spaces Confined Space Entry Permit



| To be completed by competent persons | |
|--|--|
| 1. Workplace: | |
| Permit Issue Date: Pe | ermit No. |
| Permit valid from (Reviewed each shift) Date: Time: to Date: | Time: |
| 2. Confined Space Covered by this Permit (Type & I.D): | |
| | |
| Description of location of Confined Space: | |
| 3. Service Provider Company Name (SP): | |
| SP Supervisor Name: Mo | obile Phone: |
| SP Assessor/Competent Person Name: Mo | obile Phone: |
| 4. Description of work to be undertaken: | |
| 5. Isolation and Preparation of Confined Space for Entry | |
| A Risk Assessment /Job Safety Environment Analysis (JSEA) or equivalent must signed by team members and a copy attached to this permit; | be developed, read, agreed, |
| All details of this permit are to be completed, implemented, checked and signed v | where indicated (|
| Service Provider Competent Person (identified in section 3) before work comment Check (Confined Spaces Register for Special Precautions (section 8) & Confined | nces; Space Identification (section |
| 2) | |
| Only the work listed in section 4 may be carried out. | |
| The following isolations & preparations have been made: YES or N/A | lestions must be answered (Not |
| Applicable) | Y N/A |
| a) Pipelines identified, and isolated (e.g. water, steam, gas) using <u>Isolation Lockout</u> | Tagout |
| b) Mechanical/Electrical Drives - isolated using <u>Isolation Lockout Tagout MMR</u> | |
| c) Sludges/deposits/waste identified as non-toxic - removed/flushed without putting personnel at risk | |
| d) Harmful materials (e.g. dusts, fumes, gases, chemicals) - removed/flushed withou | ut putting |
| e) Electrical services relevant to the confined space - isolated using <u>Isolation Lockou</u> | ut Tagout |
| f) External activities/tasks/operations which may have an effect on the confined spa | ice are |
| g) All personnel have undertaken Confined Space training & current certificates have | e been |
| sighted and copied h) Entry points are controlled/fenced/barricaded and signage in place (e.g. Confined | |
| No Smoking) | |
| | |
| j) No Smoking permitted within the Confined Space, signs in place, and control mea included in JSEA | |
| k) | |
| | |
| Service Provider Competent Person – Signature: | Date: |
| 6 ATMOSPHERIC TESTING | |

WORK SAFE stay safe

Document Owned by: Group HSE Document Maintained by: MC Last Revised Date: 09.07.18 Version: V1 Document Number: HSE:GR:MC:3.1.6:PE:0140

Printed versions of this document are UNCONTROLLED. Please refer to the Mirvac HSE SharePoint library before use.

Mirvac HSE CFA 6 Worker Health & Welfare | Work in Confined Spaces Confined Space Entry Permit



| 1. Workplace: | | | | | | | | | | | |
|--|--|----------------|---|-----------|-----------------------|------------|-----------|---------------|-----------------------|-------------|--------------|
| Permit Issue Date: | | | | | | | | Pern | nit N | lo. | |
| Equipment make: Model No. Serial No. | | | | | | | | | | | |
| Date of test: Time of test Date of | | | | | of last calibration : | | | | | | |
| GAS TESTED | | Accept Limi | Acceptable RESULT GAS TESTED Accep | | | | | | Acceptab le Limits | RESULT | |
| Oxygen | O ² | 19.5% - | 19.5% - 23.5% Lower Explosive Limit gases LEI | | | | | | L | <5% | |
| Carbon Monoxide | CO | TWA - 3 | 0ppm | | | • | | | | | |
| Hydrogen Sulphide | H ² S | TWA – 1 | l0ppm | | | | | | | | |
| CONTINUED MONIT | CONTINUED MONITORING of the Confined Space atmosphere is / is not required (tick) | | | | | | | | | | |
| HOT WORK within th | e Confi | ned Space | is 🗆 / | is not | _ perm | itted (tio | ck) – ref | er Hot | Wor | k Permit P | rocedure |
| Comments: | | • | | | | , | , | | | | |
| | | | | | | | | | | | |
| ➔ Service Provider | Compe | etent Perso | on – Sig | nature: | | | | [| Date |): | |
| 7. USE OF HAZARD | OUS SI | JBSTANCE | ES | | | | | | | | |
| All Hazardous Substa workplace. | inces (e | e.g. chemica | als, aero | sols, pai | nts, sol | vents) n | nust hav | e a MS | SDS | (or SDS) a | at the |
| No Hazardous Subs | tances | other than | those l | isted be | low ma | iy be ta | ken inte | o the c | onfi | ined space | 9: |
| a) d) | | | <u>e)</u> | | | | () (f) |) | | | |
| Service Provider | Service Provider Competent Person – Signature: Date: | | | | | | | | | | |
| 8. SPECIAL PRECAU | JTIONS | (include it | ems liste | d in the | Confine | ed Spac | es Reai | ster) | | | |
| a) | | | b) | | | | c) |) | | | |
| d) | | | e) | | | | f) | | - | | |
| Service Provider | Compe | etent Perso | on – Sig | nature: | | | | | Da | ate: | |
| 9. PERSONAL PROT | ECTIV | E EQUIPM | ENT/RE | SCUE E | QUIPM | ENT – I | | | NS 1 | | PLACE |
| Self-Contained Bre | athing | Apparatus | SCBA | | Che | mical C |)xvaen T | echno | loav | Self-Resc | ue unit |
| Air Purifying Filter | respirat | ory protecti | ive devic | е | Par | icle Res | spiratory | Prote | ctive | edevice | |
| Personal Motion M | onitor | | 🗆 Fall A | rrest ha | rness | | |] Lifelir | ne/ F | Rescue line | • |
| Safety Helmet | | | □ Safet | y Eyewe | ar | | | l Safet | y Fo | otwear | |
| Hand Protection | | | 🗆 Heari | ng Prote | ection | | |] Prote | ctive | e Clothing | |
| Other: | | | | | | | | | | | |
| → Service Provider Competent Person – Signature: Date: | | | | | | | | | | | |
| 10. STAND-BY PERS | 10. STAND-BY PERSONNEL - to be completed by each stand-by person during confined space occupancy | | | | | | | | | | |
| Confined Space Standby Person (PRINT name)DATETime ON 1st. dutyTime OFF OFF 1st. dutyTime ON 2nd. dutyTime OFF 2nd. duty | | | | | | | | | | | |
| | | | | | | | | | | | |
| The Stand-by person Space: | nnel lis | ted above | have be | en train | ed in tl | ne Eme | rgency | Respo | onse | Plan for t | his Confined |

Mirvac HSE CFA 6 Worker Health & Welfare | Work in Confined Spaces Confined Space Entry Permit



| 1. Workplace: | | | | | | | | |
|--|---------------------|---------------------------------------|---|---------------------------|---------------------------|-----------------------------|--|--|
| Permit Issue Date: | | | | Perm | nit No. | | | |
| ➔ Service Provider Competent Pers | Date: | | | | | | | |
| 11. RECORD OF UNDERSTANDING | THE P | ROCEDURES | FOR CONFINED | SPACE | ENTRY | | | |
| I/We understand the procedures requir and equipment to be used (evidence o | ed for f confi | entry and work ned space traini | in the confined sp ng must be provid | bace and ded befor | the protect e entering | ive measures the space). | | |
| Name: | | Signature: | | Time: | | Date: | | |
| Name: | | Signature: | Time: | | Date: | | | |
| Name: | | Signature: | | Time: | | Date: | | |
| 12. METHOD OF COMMUNICATION | - Star | nd-by person to | work crew | | | | | |
| Radio | | oice | | | | | | |
| Service Provider Competent Pers | son – | Signature: | | | Date: | | | |
| 13. AUTHORISATION | | | | | | | | |
| Based on the information provided abo condition for entry and the work to be o | ove, the done, p | e confined space provided that all | e described above the precautions a | e is, in m tre fully o | y opinion, i bserved: | n a safe | | |
| Service Provider Competent Person | S | Signature: | | Time: | | Date: | | |
| 14. CONFINED SPACE ENTRY RECO | ORD | | | | | | | |
| Entrant Name | E | ntry Time | Signature | Exit T | ime | Signature | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 14. SIGN OUT - tick all applicable bo | oxes | | | | | | | |
| a) All persons have left the confined sp | ace - | further entry not | permitted unless | a new e | ntry permit | is completed. 🗵 | | |
| b) All equipment has D / has not D b | been w | vithdrawn c) | The work has | / has no | t 🔲 been d | completed. | | |
| d) Equipment/ plant/ machinery is / | is no | t 🔲 fit for use N | I/A 🗆 | | | | | |
| e) The work has been suspended and observations of unsatisfactory aspects of the operation in the confined space are noted for attention prior to undertaking similar operations (attach separate sheet if necessary) Notes: | | | | | | | | |
| Service Provider Competent Pers | Signature: | Time: | | | Date: | | | |
| 15. ACCEPTANCE OF COMPLETED | WOR | K – To be comp | leted by MIRVA | C Repre | sentative | | | |
| I accept the work as defined in Sect | ion 4 d | of this permit ha | as been comple [:] | ted: | | | | |
| Name: | Signature: | Time: | | | Date: | | | |

