



University of
South Australia

Confined Space Register 2012

Original assessment by AECOM Australia Pty Ltd



Mawson Lakes

Tunnel

Version 1

Note: document links in blue underline text
Symbols on plans are also links

| Version No. | Date | Amendment details | Approved by |
|-------------|------------|---|-------------|
| 1 | 13/09/2012 | Original version as assessed by AECOM Australia Pty Ltd | - |
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**This Confined Space Register does not remove the requirement for
contractors to complete their own work-based risk assessment.**

Please [refer to Appendix](#) for other spaces assessed.

AECOM

Declassifying Statement

AECOM's assessment of a confined space was based on the information provided by the University of South Australia (UniSA) site representative and visual observation on the day. Risk assessment and hazard identification of a confined space was classified in accordance with:

- Work Health and Safety Regulations 2012 (SA);
- AS2865-2009.

Should UniSA wish to declassify a space which AECOM has deemed to be a 'Confined Space', *section 2.4.6 of AS 2865-2009* must be adhered to as stated below.

"For a space which has previously been classified as a confined space to be reclassified as a non-confined space, it needs to have undergone sufficient changes in structure or usages to eliminate (without the need for risk control measures) all possible sources of inherent hazard that define a confined space. Any changes to a confined space would have to be such that a subsequent risk assessment would determine that it no longer meets the criteria for a confined space".

Sufficient evidence to show that the statement above has been met must be provided to the University of South Australia Facilities Management Unit who has the appropriate privilege to alter the Confined Space Register.

| Space ID | Space description | Location | Confined Space according to Work Health and Safety Regulations 2012 (SA)? | Confined Space according to AS 2865-2009? | UniSA deemed Confined Space? | Comments | Link to details | Link to Plan |
|-----------|-------------------|----------|---|---|------------------------------|----------|---------------------------|------------------------|
| ML-TUN-01 | Sump | T1/A1 | Yes | Yes | Confined Space | | ML-TUN-01 | TUNNEL |
| ML-TUN-02 | Sump | T2/F1 | Yes | Yes | Confined Space | | ML-TUN-02 | TUNNEL |
| ML-TUN-03 | Sump | T3/H1 | Yes | Yes | Confined Space | | ML-TUN-03 | TUNNEL |
| ML-TUN-04 | Sump | T4/J1 | Yes | Yes | Confined Space | | ML-TUN-04 | TUNNEL |
| ML-TUN-05 | Sump | T5/PH2 | Yes | Yes | Confined Space | | ML-TUN-05 | TUNNEL |
| ML-TUN-06 | Sump #1 | T6/M1 | Yes | Yes | Confined Space | | ML-TUN-06 | TUNNEL |
| ML-TUN-07 | Sump #2 | T6 | Yes | Yes | Confined Space | | ML-TUN-07 | TUNNEL |
| ML-TUN-08 | Sump | T6 | Yes | Yes | Confined Space | | ML-TUN-08 | TUNNEL |
| ML-TUN-09 | Sump | T6/N1 | Yes | Yes | Confined Space | | ML-TUN-09 | TUNNEL |
| ML-TUN-10 | Sump | T9 | Yes | Yes | Confined Space | | ML-TUN-10 | TUNNEL |
| ML-TUN-11 | Sump | T8 | Yes | Yes | Confined Space | | ML-TUN-11 | TUNNEL |
| ML-TUN-12 | Sump | T2/C1 | Yes | Yes | Confined Space | | ML-TUN-12 | TUNNEL |
| ML-TUN-13 | Pit | T7 | Yes | Yes | Confined Space | | ML-TUN-13 | TUNNEL |

University of South Australia Confined Space Register 2012

Assessed by: AECOM Australia Pty Ltd

Date Assessed: 13/09/2012

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-01 |
| Description: | Sump |
| Location: | T1/A1 |

UniSA deemed: Confined Space

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|----------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Grate over pit |
| Access type: | Requires manoeuvring |
| | |

| | |
|---------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

[View on plan](#)

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| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



| Date | Amendment details | Approved by |
|------|-------------------|-------------|
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University of South Australia Confined Space Register 2012

Assessed by: AECOM Australia Pty Ltd

Date Assessed: 13/09/2012

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-02 |
| Description: | Sump |
| Location: | T2/F1 |

| | |
|----------------------|-----------------------|
| UniSA deemed: | Confined Space |
|----------------------|-----------------------|

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

| | |
|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

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| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



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Assessed by: AECOM Australia Pty Ltd

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Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-03 |
| Description: | Sump |
| Location: | T3/H1 |

| | |
|----------------------|-----------------------|
| UniSA deemed: | Confined Space |
|----------------------|-----------------------|

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

| | |
|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

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| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



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Date Assessed: 13/09/2012

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-04 |
| Description: | Sump |
| Location: | T4/J1 |

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|----------------------|-----------------------|
| UniSA deemed: | Confined Space |
|----------------------|-----------------------|

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

| | |
|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

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| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



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Date Assessed: 13/09/2012

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-05 |
| Description: | Sump |
| Location: | T5/PH2 |

| | |
|----------------------|-----------------------|
| UniSA deemed: | Confined Space |
|----------------------|-----------------------|

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

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|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

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| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



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Assessed by: AECOM Australia Pty Ltd

Date Assessed: 13/09/2012

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-06 |
| Description: | Sump #1 |
| Location: | T6/M1 |

| | |
|----------------------|-----------------------|
| UniSA deemed: | Confined Space |
|----------------------|-----------------------|

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

| | |
|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

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| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



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Assessed by: AECOM Australia Pty Ltd

Date Assessed: 13/09/2012

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-07 |
| Description: | Sump #2 |
| Location: | T6 |

| | |
|----------------------|-----------------------|
| UniSA deemed: | Confined Space |
|----------------------|-----------------------|

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

| | |
|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

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| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



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University of South Australia Confined Space Register 2012

Assessed by: AECOM Australia Pty Ltd

Date Assessed: 13/09/2012

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-08 |
| Description: | Sump |
| Location: | T6 |

| | |
|----------------------|-----------------------|
| UniSA deemed: | Confined Space |
|----------------------|-----------------------|

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

| | |
|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

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| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



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Assessed by: AECOM Australia Pty Ltd

Date Assessed: 13/09/2012

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-09 |
| Description: | Sump |
| Location: | T6/N1 |

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|----------------------|-----------------------|
| UniSA deemed: | Confined Space |
|----------------------|-----------------------|

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

| | |
|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

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| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



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University of South Australia Confined Space Register 2012

Assessed by: AECOM Australia Pty Ltd

Date Assessed: 24/12/2013

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-10 |
| Description: | Sump |
| Location: | T9 |

| | |
|----------------------|-----------------------|
| UniSA deemed: | Confined Space |
|----------------------|-----------------------|

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

| | |
|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

[View on plan](#)

[Return to Register](#)

| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



| Date | Amendment details | Approved by |
|------|-------------------|-------------|
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Assessed by: AECOM Australia Pty Ltd

Date Assessed: 24/12/2013

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-11 |
| Description: | Sump |
| Location: | T8 |

| | |
|----------------------|-----------------------|
| UniSA deemed: | Confined Space |
|----------------------|-----------------------|

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

| | |
|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

[View on plan](#)

[Return to Register](#)

| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



| Date | Amendment details | Approved by |
|------|-------------------|-------------|
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University of South Australia Confined Space Register 2012

Assessed by: AECOM Australia Pty Ltd

Date Assessed: 24/12/2013

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-12 |
| Description: | Sump |
| Location: | T2/C1 |

UniSA deemed: Confined Space

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|----------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Open top |
| Access type: | Requires manoeuvring |
| | |

| | |
|---------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphixiant, Head impact, Slips trips and falls, Manual handling, Constrained movement, Atmospheric contaminants |

[View on plan](#)

[Return to Register](#)

| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | Yes |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |



| Date | Amendment details | Approved by |
|------|-------------------|-------------|
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University of South Australia Confined Space Register 2012

Assessed by: AECOM Australia Pty Ltd

Date Assessed: 11/09/2012

Assessors: Daniel Alexander

| | |
|--------------|------------------|
| Campus: | Mawson Lakes |
| Building: | Tunnel |
| Space ID: | ML-TUN-13 |
| Description: | Pit |
| Location: | T7 |

UniSA deemed: Confined Space

UniSA deems a space Confined Space if either assessment criteria (shown below) results in Yes.

| | |
|-----------------------------|----------------------|
| Number of Entrances: | 1 |
| Entry type: | Floor hatch |
| Access type: | Requires manoeuvring |
| | |

| | |
|----------------------------|---|
| Comments: | |
| Additional Hazards: | Low oxygen, Asphyxiant, Head impact, Slips trips and falls, Engulfment, Manual handling, Constrained movement |

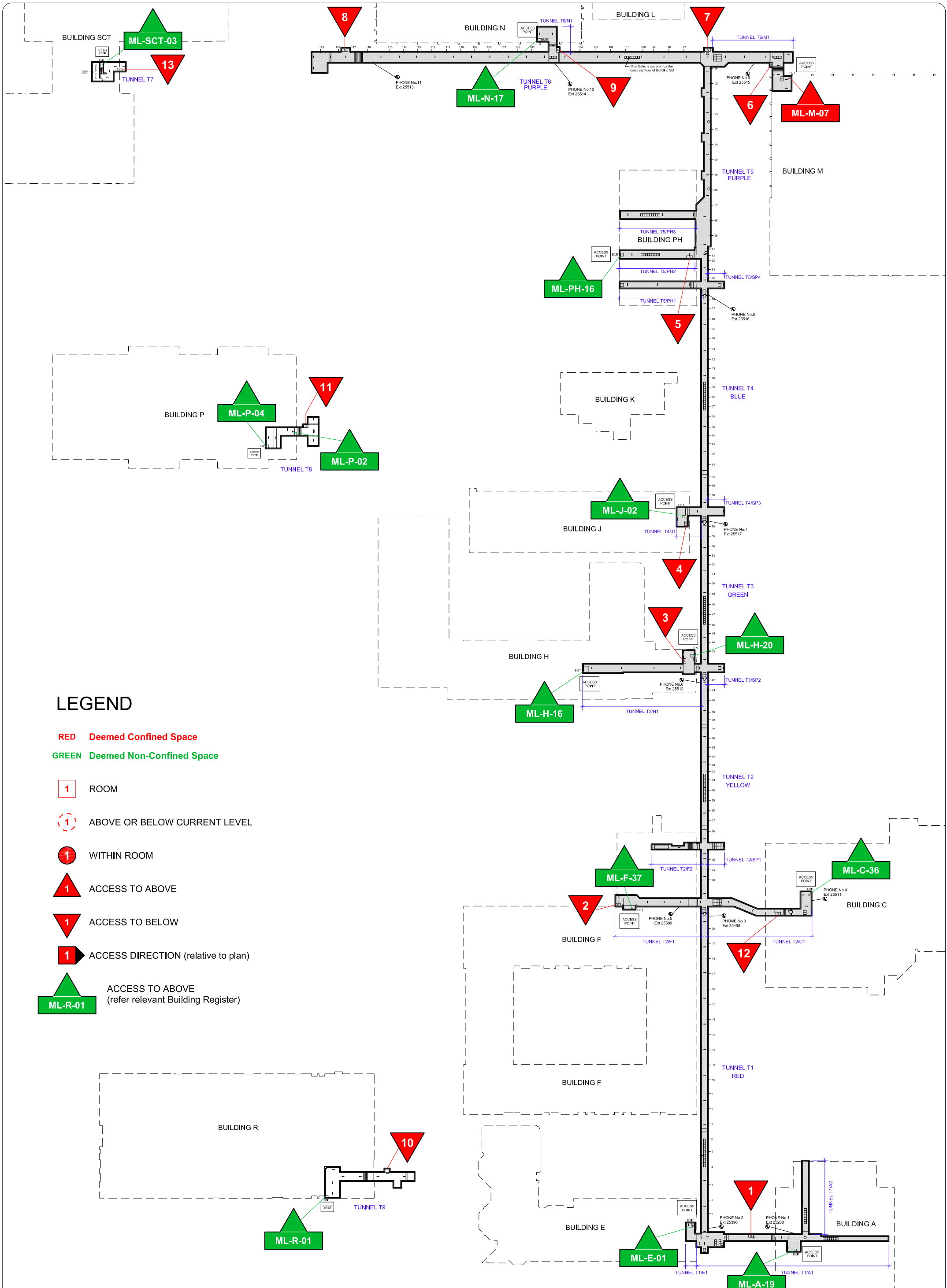
[View on plan](#)

[Return to Register](#)

| Category | Criteria: Work Health and Safety Regulations 2012 (SA) | Result |
|-----------------------|--|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not designed or intended primarily to be occupied by a person? | Yes |
| C | Is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space? | Yes |
| D | Is or is likely to be a risk to health and safety from: | |
| i) | an atmosphere that does not have a safe oxygen level? | Yes |
| ii) | contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? | Yes |
| iii) | harmful concentrations of any airborne contaminants? | Yes |
| iv) | engulfment? | Yes |
| Confined Space | If the answer to A and B and C and at least one of D i), ii), iii) or iv) is Yes, then the space is a Confined Space. | Yes |

| Category | Criteria: AS2865-2009 | Result |
|-----------------------|---|------------|
| A | Is the space enclosed or partially enclosed? | Yes |
| B | Is not intended or designed primarily for human occupancy? | Yes |
| C | Has an oxygen concentration outside the safe oxygen range? | Yes |
| D | Has a concentration of airborne contaminant that may cause impairment, loss of consciousness or asphyxiation? | Yes |
| E | Has a concentration of flammable airborne contaminant that may cause injury from fire or explosion? | No |
| F | Has a risk of engulfment in a stored free flowing solid or a rising level of liquid that may cause suffocation or drowning? | Yes |
| Confined Space | If the answer to A and B and at least one of C, D, E or F is Yes, then the space is a Confined Space. | Yes |

| Date | Amendment details | Approved by |
|------|-------------------|-------------|
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LEGEND

- **RED Deemed Confined Space**
- **GREEN Deemed Non-Confined Space**
- 1 ROOM
- 1 ABOVE OR BELOW CURRENT LEVEL
- 1 WITHIN ROOM
- ▲ ACCESS TO ABOVE
- ▼ ACCESS TO BELOW
- ▶ ACCESS DIRECTION (relative to plan)
- ▲ **ML-R-01** ACCESS TO ABOVE (refer relevant Building Register)

| | |
|-------------------------------|---|
| Date February 2014 | Scale(s): Not to scale |
| Drawn by: jh | |
| Plot date 13/05/2014 15:58 | CAD file name: G:\Mawson\Hazard\H590PL00.dwg |
| Drawing number H590CS00 | Revision A |

CONFINED SPACE
MAWSON LAKES CAMPUS
SERVICE TUNNELS

FACILITIES MANAGEMENT UNIT
 Level 2,
 101 Curle Street,
 Adelaide, SA 5000
 Phone 8302 2762
 Fax 8302 2708



UNIVERSITY OF SOUTH AUSTRALIA

Appendix
Register of other spaces assessed

Mawson Lakes
Tunnel

**This Register does not remove the requirement for
contractors to complete their own work-based risk assessment.**

| Space ID | Space description | Location | Confined Space according to Work Health and Safety Regulations 2012 (SA)? | Confined Space according to AS 2865-2009? | UniSA deemed Confined Space? | Comments | Link to details | Link to Plan |
|----------|-------------------|----------|---|---|------------------------------|----------|-----------------|--------------|
|----------|-------------------|----------|---|---|------------------------------|----------|-----------------|--------------|

No other spaces assessed