

CHILDCARE CENTRE PLANTINGS (LEVEL 1)

TURF



Artificial turf
Artificial turf is suitable for frequently trafficked play areas (which tend to become muddy and compact over time). Artificial turf product must be cool when in full sun.

TREES AND SHRUBS



Lagerstroemia indica x L. fauriei 'Zuni' - Crepe Myrtle
Full sun, tough specimen with year round interest.
Young branches are heavily pigmented red, lavender flowers late summer/ early autumn.
Non-climbable multi-stem planting.



Citrus x meyeri - Meyer Lemon
Full sun, protect from westerly winter winds
Edible, colourful fruit, evergreen.
Select Flying Dragons root stock.



Calamondin. X Citrofortunella microcarpa - Calamondin
Frost hardy. Small edible, colourful fruit, evergreen.



Correa glabra
Full sun/part shade
Useful for screening, dust suppression and capture, carbon sequestration, and aesthetics. Beneficial if used at boundary of recreational areas.



Correa decumbens - spreading Correa
Full sun/part shade.
Useful for screening, dust suppression and capture, carbon sequestration, and aesthetics. Beneficial if used at boundary of recreational areas.



Trachelospermum jasminoides - Star Jasmine
Grows up cables or trellis. Use to minimise visible vertical hard surfaces.

INTERACTIVE PLAY/SENSORY GARDENS SHRUBS AND PERENNIALS



Chrysocephalum apiculatum - Yellow Buttons
Full sun



Lavendula spp. - Lavender
Full sun, well drained soil



Stachys byzantina - Lamb's Ear
Full sun, well-drained soil
Soft and fuzzy tactile plant



Dietes grandiflora - Wild Iris
Full sun/part shade
Long flowering period



Thymus serpyllum - Creeping Thyme
Full sun
Scented herbal groundcover



Rosmarinus officinalis - Rosemary
Full sun



Atriplex nummularia - Salt Bush
Full sun



Veggies and herbs
Full sun

GROUND FLOOR AND FRONTAGES

SHRUBS AND PERENNIALS



Dicksonia antarctica
Feature plant for building undercroft ground floor/carpark.
Hardy to frost and tolerant of drought.



Acanthus mollis
Adaptable to heavy shade. Good for building undercroft ground floor/carpark.

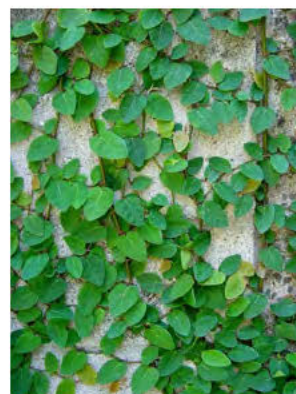


Westringia fruticosa 'Grey Box' - Grey Box Native Rosemary
Full sun
Hardy cultivar of native species, drought tolerant, compact form, and year round interest.



Iris unguicularis - Algerian Iris
Part shade
Winter flowering

VINES AND CLIMBING PLANTS (TRELLISES AND WALLS)



Ficus pumila - Creeping Fig
Adheres directly to wall. Use to minimise visible vertical hard surfaces for adjacent sites.

STREETSCAPE (OUTSIDE OF BOUNDARY PLANTINGS)

VERGE PLANTINGS



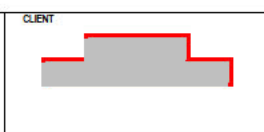
Melaleuca linariifolia
Moderate frost and drought tolerant street tree suitable for most soils. Relatively slow growth rate especially if not irrigated.
Lower branches to be pruned to ensure sight and pedestrian traffic clearance.
To be sourced from good quality local tree stock to meet Australian Standards 2303: Tree Street Stock for Landscape Use having a single trunk of sufficient calliper to be self-supporting).
Subject to a minimum 12 months consolidation maintenance period prior to formal handover to TCCS Development Review and Coordination.

NOTE
Preliminary works by others shown on these drawings are for site context only and are indicative. Subject to change based on this assessment.

NOT FOR CONSTRUCTION

REVISION	REASON FOR ISSUE	DATE	DESIGN	DRAWN	CHECKED	APPROVED FOR ISSUE
A	FOR REVIEW	14.07.2021				

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PROJECT
**MITCHELL CHILDCARE CENTRE
BLOCK 18 SECTION 11
MITCHELL, ACT**

DRAWING		REVISION
PLANTING PALETTE		
PROJECT No J21-00826	DRAWING No L502.1	ISSUE DA REVISION A

From: [Brookes, Clare](#)
To: [Chand, Avinesh](#); [Moysey, Sean](#)
Subject: FW: Mitchell Childcare - Proposed Amendment to DA201733198
Date: Monday, 20 September 2021 4:51:48 PM
Attachments: [image001.jpg](#)
[image002.png](#)

OFFICIAL

fyi

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au**From:** Brookes, Clare**Sent:** Monday, 19 April 2021 1:53 PM**To:** Groeschel, Kate (Health) <Kate.Groeschel@act.gov.au>**Cc:** Kneipp, Jason (Health) <Jason.Kneipp@act.gov.au>**Subject:** RE: Mitchell Childcare - Proposed Amendment to DA201733198

OFFICIAL

Hi Kate

Yes the meeting did go ahead. We reviewed the original decision, which included two conditions from EPA and Health Protection regarding the monitoring of air pollution. The revised decision removed these conditions but made reference to the CECA approval process and that CECA would need to take into consideration of the original objections raised by EPA and Health Protection.

We initially believed that the DA would expire in April, but due to COVID provisions the timeframe was extended to five years from the decision date.

As CECA cannot give prejudicial advice in relation to consideration of a future application for service approval, we determined that the best course of action would be for the developer to make an application for an amendment to the DA. CECA can then give feedback through that review process, referring back to the original considerations of EPA and Health Protection.

I hope this makes sense.

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

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www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au**From:** Groeschel, Kate (Health) <Kate.Groeschel@act.gov.au>**Sent:** Friday, 16 April 2021 5:01 PM**To:** Brookes, Clare <Clare.Brookes@act.gov.au>**Cc:** Kneipp, Jason (Health) <Jason.Kneipp@act.gov.au>**Subject:** FW: Mitchell Childcare - Proposed Amendment to DA201733198

OFFICIAL

Good afternoon Clare,

I just wanted to check with you if the meeting scheduled for last week in regards to this DA went

ahead? Unfortunately Jason and Andrew couldn't attend but would it please be possible to get a copy of the minutes?

Many thanks,

Kate Groeschel | Public Health Officer

Ph: 5124 9092 Mob: 0409 277 818 | Email: kate.groeschel@act.gov.au

Environmental Health, Health Protection Service, Public Health Protection and Regulation | ACT Health Directorate

25 Mulley Street, Holder ACT 2611

health.act.gov.au

ACTH Email signature Values

From: [REDACTED]

Sent: Wednesday, 14 April 2021 1:03 PM

To: andrew.stedman@act.gov.au; Leah.Partridge@act.gov.au; clare.brookes@act.gov.au; Narelle.Sargent@act.gov.au

Cc: [REDACTED]

Subject: Mitchell Childcare - Proposed Amendment to DA201733198

Good afternoon

Proposed Amendment to DA201733198 – Block 18 Section 11 Mitchell.

With reference to the approval of DA201733198 (20/2/2020 that comprised a 3-storey Childcare Centre. [REDACTED] has been engaged by the Lessee to progress an amendment to the approved proposal. The amendment seeks to reduce the scale of the centre to 2 storeys (a predominantly single level centre over undercroft parking) and a reduction in childcare places. For your convenience we attach artefacts detailing the approved proposal and proposed amendment scheme to this correspondence.

We believe the amendments is in keeping with the demand for this service in Mitchell and provide a reduced exposure and risk profile to the centre being of lesser scale. We further believe that this goes some way limiting impacts relating to the centre in as far as the matters that was conditioned in the Notice of Decision set out. We would also note that the new adjustments provides improved outdoor play area and natural lighting to the new single floor, as opposed to the original option.

We are seeking your consideration and support for progressing this amendment. WE are available and happy to meet with you to discuss these matters in more detail should that be beneficial to you.

We would appreciate your timely consideration and response to support the progression of this amendment and development of the centre.

Please feel free to contact me should you have any questions regarding the above.

Regards



From: [Brookes, Clare](#)
To: [Partridge, Leah](#)
Subject: FW: Preliminary Enquiry Regarding Development Applcat on Amendment
Date: Monday, 8 November 2021 1:45:38 PM
Attachments: [mags301.pdf](#)
[M100011018 Preliminary Enquiry to CECA.pdf](#)

OFFICIAL

Sorry Leah

Not for today but I couldn't find a response to this one.

Kind Regards

Clare Brookes

Senior Director, Education and Care Regulation and Support | Education | ACT Government

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From: Brookes, Clare

Sent: Thursday, 30 September 2021 12:02 PM

To: Partridge, Leah <Leah.Partridge@act.gov.au>

Subject: FW: Preliminary Enquiry Regarding Development Application Amendment

OFFICIAL

Hi Leah

I'd appreciate it if you could review this before I send it.

Dear [REDACTED]

Please find below Children's Education and Care Assurance's (CECA) preliminary view of the plans.

Ground Floor

Concerns regarding the lack of natural light, particularly in relation to the kitchen, waiting area, office and stairwell.

Floor One

Would suggest swapping rooms 4 and 5 with 6 and 7 so that younger children are grouped together and age appropriate outdoor space is immediately accessible to each group.

Full dimensions for each room will be required. Sleeping areas (quiet space), storage and door swings cannot be included in the calculations for unencumbered space.

Full dimension for cot rooms required to establish if the required number of cots can be accommodated. The number of nursery places will be limited to the number of cots.

Concerns about lack of natural light in 45m² Toddler Room and the quiet area in Group 4 Room. (Skylights?)

Concerns about proximity of existing building with outdoor area, further details required.

Outdoor area – reduce the amount of pathing and replace with natural elements and surfaces. Consider dividing the outdoor space and introducing age appropriate features. Shading will also be required.

Overall

CECA welcomes the proposal to reduce the development to two floors. However, any application for an education and care service approval would be contingent on advice from ACT Fire and Rescue, ACT Health Protection and ACT Environment Protection Authority.

This is CECA's preliminary view. It should not be taken as an endorsement that any subsequent service approval application is bound to be granted. Any service approval application will be determined by the decision maker at the time it is made and in consideration of all of the matters that the National Law and National Regulations require to be considered at that time.

Kind Regards

Clare Brookes

Senior Director, Education and Care Regulation and Support | Education | ACT Government

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From: CECA <CECA@act.gov.au>

Sent: Tuesday, 14 September 2021 11:44 AM

To: Brookes, Clare <Clare.Brookes@act.gov.au>; Partridge, Leah <Leah.Partridge@act.gov.au>

Subject: FW: Preliminary Enquiry Regarding Development Application Amendment

OFFICIAL

From: [REDACTED]

Sent: Tuesday, 14 September 2021 11:20 AM

To: CECA <CECA@act.gov.au>

Cc: [REDACTED]

Subject: Preliminary Enquiry Regarding Development Application Amendment

CAUTION: This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe.

Good morning

[REDACTED] have been engaged by the lessee of Block 18 Section 11 Mitchell for planning services in relation to proposed amendments to an approved Development Application (DA201733198) for the construction of a new 3 storey childcare centre on the site. As legislative framework has changed since the approval of this DA in 2018, the advice of CECA is sought prior to the submission of an amendment application. Attached please find our enquiry, including supporting documentation. Should you have any queries, please do not hesitate to contact our office.

We appreciate your assistance.

Kind regards

Masterman, Tanya

From: Moysey, Sean
Sent: Tuesday, 9 November 2021 12:14 PM
To: Brookes, Clare
Subject: FW: FOR ACTION: ECRS MWB Input
Attachments: RE: TOMORROW (AM) FOR CLEARANCE: MWB in Teams

Importance: High

Hi Clare

As requested by Deb. Is it possible to provide a new version of the item below for MWB? Deb has asked for lines that include a 'way forward'.

Regards
 Sean

Sean Moysey

Executive Branch Manager, Education and Care Regulation and Support
 Education | ACT Government
 P 02 6207 2143 M 0478 301 650

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 GPO Box 158 Canberra ACT 2601
www.det.act.gov.au



From: System Policy and Reform Office <SPROffice@act.gov.au>
Sent: Tuesday, 9 November 2021 10:57 AM
To: Moysey, Sean <Sean.Moysey@act.gov.au>
Cc: System Policy and Reform Office <SPROffice@act.gov.au>
Subject: FOR ACTION: ECRS MWB Input
Importance: High

Hi Sean,

A couple of week's ago ERS provided the below content for inclusion in the MWB. Deb returned the content to you stating that there were issues raised, but no way forward (email attached)

Deb has asked me to follow this up with you to find out if there is an update for this input and whether it can be included in this week's brief.

If you could please let me know whether an update on the below input can be included this week by 2pm today that would be appreciated.

Masterman, Tanya

From: Moysey, Sean
Sent: Tuesday, 12 October 2021 1:11 PM
To: Efthymiades, Deb
Cc: System Policy and Reform Office
Subject: RE: TOMORROW (AM) FOR CLEARANCE: MWB in Teams

Hi Deb

Understood, will do.

Regards
 Sean

Sean Moysey

Executive Branch Manager, Education and Care Regulation and Support
 Education | ACT Government
 P 02 6207 2143 M 0478 301 650

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 GPO Box 158 Canberra ACT 2601
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From: Efthymiades, Deb <Deb.Efthymiades@act.gov.au>
Sent: Tuesday, 12 October 2021 1:03 PM
To: Moysey, Sean <Sean.Moysey@act.gov.au>
Cc: System Policy and Reform Office <SPROffice@act.gov.au>
Subject: FW: TOMORROW (AM) FOR CLEARANCE: MWB in Teams
Importance: High

Thanks for the inclusions in the MWB Sean – these two aspects leave significant issues as flagged with no way forward. Could we add a line about next steps please?

Taa

D

Mitchell proposed ECEC

CECA has received revised plans for a proposed service in Mitchell, which would be in close proximity to industrial operations including landscape gardening supplies and a car repair workshop. The Development Application for this site was granted under the condition that air quality be monitored during and after construction. The conditions were appealed by the Developer [REDACTED] at ACAT and subsequently removed. CECA has concerns that

From: [Brookes Clare](#)
To: [Partridge Leah](#)
Subject: RE: Preliminary Enquiry Regarding Development Application Amendment
Date: Friday 3 December 2021 8:26:20 AM
Attachments: [image002.jpg](#)
[image003.pdf](#)

OFFICIAL

This is an amazing response thank you Leah. Lots of words I can use for standard responses too.

Kind Regards
 Clare Brookes
 Senior Director Education and Care Regulation and Support | Education | ACT Government
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From: Partridge Leah <Leah.Partridge@act.gov.au>
Sent: Thursday 2 December 2021 10 21 PM
To: Brookes Clare <Clare.Brookes@act.gov.au>
Subject: RE: Preliminary Enquiry Regarding Development Application Amendment

OFFICIAL

Hi Clare

I am so sorry that this has taken so long to get a response back to. I hope my comments make sense. These are my few additions on top on your notes below. I used the measure tool and you are correct that all floor areas include door swings allocated quite spaces etc. For this reason I do not believe the cot rooms are sufficient for 12 children nor is there adequate storage for bed resources etc.

CECA holds concern regarding the two storey nature of this building particular when non-ambulant children are cared for above the ground floor. It is widely accepted that the risk to children's health and safety are greatly increased the higher an education and care service is from the ground floor this includes the second storey. This is further increased by having all auxiliary staff and educators not working directly with children located in either the office kitchen or staff room on the lower floor. It is unrealistic for these staff to be available to assist non-ambulant children when they are moving against the flow of children and educators evacuating during an emergency.

It is noted that the service has three rooms with the inclusion of cot rooms. Given that cots are provided for children under 2 years of age it is likely that the provider would attempt to have as many under two children as cots available which as per the building plan is 30 cots. There are a further six children allocated to Group 3 as per the unencumbered space. Given that there is a 1:4 ratio for these age groups it is greatly concerning how 9 educators are to safely evacuate 36 under 2 year-olds from a first floor building. It is possible that CECA would likely need to increase the number of educators per group and reduce the number of children in the three rooms so that the level of risk is appropriately managed.

Further consideration of the cot rooms indicates that only five cots would fit in each cot room given the size of cots and needs for 30 cm gaps between each cot for access and hygiene. CECA would require a cot allocation for all children under 2 years-of age. Sharing of cots is not supported by CECA as it does not meet the sleeping needs of children and is an increased risk given the current COVID-19 pandemic.

It is suggested that children toilet 1 and the cot room closet to the outdoor play area are switched in order to ensure appropriate supervision and support is provided to educators when nappy changing. Being within sight and sound of the main cohort of children means that the educators can communicate and support each other during busy times.

Kind regards

Leah Partridge (she/her) | Assistant Director | Regulatory Policy and Coordination

Phone 6207 8083 | Fax 6207 1128 | Email Leah.Partridge@act.gov.au
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Please note I work Monday, Tuesday, Thursday and Friday.



We acknowledge the traditional custodians of the lands and waters where we live and learn and pay our respects to elders past present and future.

From: Brookes Clare <Clare.Brookes@act.gov.au>
Sent: Monday 8 November 2021 1 45 PM
To: Partridge Leah <Leah.Partridge@act.gov.au>
Subject: FW: Preliminary Enquiry Regarding Development Application Amendment

OFFICIAL

Sorry Leah

Not for today but I couldn't find a response to this one.


Kind Regards
 Clare Brookes
 Senior Director Education and Care Regulation and Support | Education | ACT Government
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From: Brookes Clare
Sent: Thursday 30 September 2021 12 02 PM
To: Partridge Leah <Leah.Partridge@act.gov.au>
Subject: FW: Preliminary Enquiry Regarding Development Application Amendment

OFFICIAL

Hi Leah

I'd appreciate it if you could review this before I send it.

Dear 
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Kind Regards

Clare Brookes
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From: CECA <CECA@act.gov.au>
Sent: Tuesday 14 September 2021 11 44 AM
To: Brookes Clare <Clare.Brookes@act.gov.au>; Partridge Leah <Leah.Partridge@act.gov.au>
Subject: FW: Preliminary Enquiry Regarding Development Application Amendment

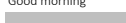
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From: 
Sent: Tuesday 14 September 2021 11 20 AM
To: CECA <CECA@act.gov.au>

Cc: 
Subject: Preliminary Enquiry Regarding Development Application Amendment

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Good morning

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We appreciate your assistance.

Kind regards



From: [Partridge, Leah](#)
To: [Green, Jennifer](#)
Subject: FW: CLEARANCE: MWB 29 November to 3 December 2021
Date: Monday, 6 December 2021 2:33:00 PM
Attachments: [image002.png](#)
[image003.png](#)

OFFICIAL

Hi Jen,
Sean was really slow on this clearance. I have included this item in today's MWB which has been uploaded into MSTEAMS. No actions required!
Kind regards,

Leah Partridge (she/her) | Assistant Director | Regulatory Policy and Coordination

Phone: 6207 8083 | Fax: 6207 1128 | Email: Leah.Partridge@act.gov.au

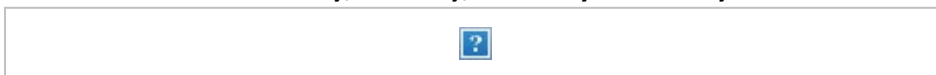
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Please note I work Monday, Tuesday, Thursday and Friday.



We acknowledge the traditional custodians of the lands and waters where we live and learn, and pay our respects to elders past, present, and future.

From: Moysey, Sean <Sean.Moysey@act.gov.au>
Sent: Tuesday, 30 November 2021 8:55 PM
To: Partridge, Leah <Leah.Partridge@act.gov.au>; Brookes, Clare <Clare.Brookes@act.gov.au>
Subject: RE: CLEARANCE: MWB 29 November to 3 December 2021

OFFICIAL

Hi Leah, Clare
Many thanks. [Redacted] The rest is cleared from me,
many thanks.
Regards
Sean

Sean Moysey

Executive Branch Manager, Education and Care Regulation and Support

Education | ACT Government

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From: Partridge, Leah <Leah.Partridge@act.gov.au>
Sent: Monday, 29 November 2021 3:06 PM
To: Moysey, Sean <Sean.Moysey@act.gov.au>
Cc: Brookes, Clare <Clare.Brookes@act.gov.au>; Williams, Jo <Jo.Williams@act.gov.au>; Tooth,

Lynda <Lynda.Tooth@act.gov.au>; Green, Jennifer <Jennifer.Green@act.gov.au>

Subject: RE: CLEARANCE: MWB 29 November to 3 December 2021

OFFICIAL

Hi Sean,

Thank you for your review and edits.

I have added the additional dates as requested and Clare has reviewed [REDACTED]

This is now for your final review and clearance.

<G:\Regulation and Compliance\CECA\2021\ADVICE\6. Ministers Weekly Brief\Cleared MWB\MWB 29 November - 3 December 2021.docx>

Kind regards,

Leah Partridge (she/her) | Assistant Director | Regulatory Policy and Coordination

Phone: 6207 8083 | Fax: 6207 1128 | Email: Leah.Partridge@act.gov.au

Children’s Education and Care Assurance

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From: Moysey, Sean <Sean.Moysey@act.gov.au>

Sent: Monday, 29 November 2021 12:57 PM

To: Partridge, Leah <Leah.Partridge@act.gov.au>

Cc: Brookes, Clare <Clare.Brookes@act.gov.au>; Williams, Jo <Jo.Williams@act.gov.au>; Tooth, Lynda <Lynda.Tooth@act.gov.au>; Green, Jennifer <Jennifer.Green@act.gov.au>

Subject: RE: CLEARANCE: MWB 29 November to 3 December 2021

OFFICIAL

Hi Leah

I’ve made some edits. In the Mitchell item could you please put the dates in the spaces I’ve highlighted.

[REDACTED]

Regards

Sean

[REDACTED]

Sean Moysey

Executive Branch Manager, Education and Care Regulation and Support

Education | ACT Government

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Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.det.act.gov.au**From:** Partridge, Leah <Leah.Partridge@act.gov.au>**Sent:** Friday, 26 November 2021 4:37 PM**To:** Moysey, Sean <Sean.Moysey@act.gov.au>**Cc:** Brookes, Clare <Clare.Brookes@act.gov.au>; Williams, Jo <Jo.Williams@act.gov.au>; Tooth, Lynda <Lynda.Tooth@act.gov.au>; Green, Jennifer <Jennifer.Green@act.gov.au>**Subject:** CLEARANCE: MWB 29 November to 3 December 2021**Importance:** High

OFFICIAL

Good afternoon Sean,

Please find attached the MWB 29 November – 3 December 2021 with item regarding development approvals for your review and clearance.

<G:\Regulation and Compliance\CECA\2021\ADVICE\6. Ministers Weekly Brief\Cleared MWB\MWB 29 November - 3 December 2021.docx>

Once cleared, Jen will provided to DDG SPR for clearance.

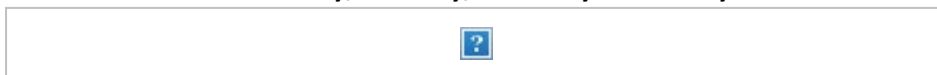
Kind regards,

Leah Partridge (she/her) | Assistant Director | Regulatory Policy and CoordinationPhone: 6207 8083 | Fax: 6207 1128 | Email: Leah.Partridge@act.gov.au

Children's Education and Care Assurance

Education and Care Regulation and Support | Education | ACT Government

Level 3, HBCTL, 51 Fremantle Drive, STIRLING ACT 2611 | GPO Box 158 Canberra ACT 2601

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Education Directorate

To: Minister for Early Childhood Development
Minister for Education and Youth Affairs

Tracking No.: **FILE2021/33**

Date: 15/08/2021

From: Director-General

Subject: Minister's Weekly Brief

Recommendation

That you note the information in this brief and attachments

Noted / Please Discuss

Yvette Berry MLA /...../.....

Minister's Office Feedback

Key Topics/Emerging Issues

- 1. CECA Infrastructure and Planning Advice



Mitchell proposed ECEC

CECA has received revised plans for a proposed service in Mitchell, which would be in close proximity to industrial operations, including bulk landscape gardening supplies and a car repair workshop. The Development Application for this site was granted under the condition that air quality be monitored during and after construction. The conditions were appealed by the Developer [REDACTED] at ACAT, 15 April 2019 and subsequently removed.

At the time of the ACAT hearing in 2019 CECA advised Government Solicitor's Office that the site is not suitable for an ECEC service, due to its location in Mitchell, the sites proximity to industries and the risk to children posed by air, soil and noise pollution.

On 29 November 2021, CECA re-iterated this advice to the developer including concerns that non-ambulant children are proposed to be located above ground floor with limited support available to assist during emergency evacuation by auxiliary staff located on the ground floor.

From: [Brookes, Clare](#)
To: [Partridge, Leah](#)
Subject: MWB Mitchell Planning Application
Date: Friday, 8 April 2022 2:41:45 PM

OFFICIAL

Hi Leah

Another item if not too late.

Development Application for amendment to proposed Mitchell ECEC

On 6 April 2022, CECA received an application for an amendment to the Development Application for a three storey ECEC service at Mitchell. The original Development Application from [REDACTED] was granted conditional approval in May 2018, due to concerns from Environment Protection Authority (EPA) and the Health Protection Service (HPS). The concerns raised related to soil and air contamination, associated with surrounding industrial activities. In particular the proposed site is opposite a gardening wholesale that has a large open composte mound. The conditions on the Development Approval were subsequently appealed and overturned at ACAT.

The application for amendment seeks to decrease the service to a single storey and reduce the number of approved places for children. Although the conditions have been removed, CECA has maintained the position that an industrial zone is not a safe or appropriate site for an education and care service. Advice will be sought from the EPA and HPS on receipt of any application for approval of an education and care service on this site.

Should the Environment and Sustainable Planning and Development Directorate (EPSDD) impose further conditions on the Development Approval or an application for an education and care service approval is subsequently be refused, it is highly likely that this matter will be subject to further litigation.

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

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From: [Brookes, Clare](#)
To: [Partridge, Leah](#)
Subject: RE: REFERRAL-EDUCATION-201733198-S197D-18/11 MITCHELL-01
Date: Monday, 11 April 2022 4:50:47 PM
Attachments: [image001.png](#)
[image002.png](#)

OFFICIAL

Yes, [REDACTED].

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au**From:** Partridge, Leah <Leah.Partridge@act.gov.au>**Sent:** Monday, 11 April 2022 4:09 PM**To:** Brookes, Clare <Clare.Brookes@act.gov.au>**Subject:** RE: REFERRAL-EDUCATION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

Thanks Clare. I don't think they have changed this design too much except removed the word play room 1 and 2 with the label toddlers. Very disappointing.

Kind regards,

Leah Partridge (she/her) | Assistant Director | Regulatory Policy and CoordinationPhone: 6207 8083 | Fax: 6207 1128 | Email: Leah.Partridge@act.gov.au

Children's Education and Care Assurance

Education and Care Regulation and Support | Education | ACT Government

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We acknowledge the traditional custodians of the lands and waters where we live and learn, and pay our respects to elders past, present, and future.

From: Brookes, Clare <Clare.Brookes@act.gov.au>**Sent:** Monday, 11 April 2022 3:18 PM**To:** AC, EPD Customer Services <ACEPDCustomerServices@act.gov.au>**Cc:** Partridge, Leah <Leah.Partridge@act.gov.au>**Subject:** RE: REFERRAL-EDUCATION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

Dear Hannah

Thank you for the opportunity to provide feedback on this application. Children's Education and Care Assurance (CECA) has considered the above development application and has the following comments in accordance with the *Education and Care Services National Law Act (ACT) 2010* (National Law) and the *Education and Care Services National Regulations* (National Regulations):

- In order to provide education and care to children under the National Quality Framework there are two aspects to be considered – compliance with the legislation and, meeting the level of quality in the National Quality Standard.

1. <http://acecqa.gov.au/national-quality-framework/national-law-and-regulations>

2. <http://acecqa.gov.au/national-quality-framework/the-national-quality-standard>

- It is important to note that there is a very rigorous approvals process for both Provider Approval and Service Approval under the National Law. It is not an automatic approval on receipt of an application; an interview and written test regarding knowledge of the National Quality Framework must be attended. There is also a rigorous process for approval to claim Child Care Subsidy from the Australian Government under the Family Assistance Law.

Children's Education and Care Assurance (CECA) has considered the amendment of approval at 18/11 MITCHELL. CECA holds serious concerns about the potential environmental risks associated with any education and care service on this site. However, as requested, we have provided preliminary feedback on the building plans and design below. This feedback should not be taken as an endorsement of any subsequent application for an education and care service approval at this site.

Ground Floor

- CECA would have concerns regarding the lack of natural light, particularly in relation to the kitchen, waiting area, office and stairwell.

Floor One

- Full dimensions for each room would be required. Sleeping areas (quiet space), storage and door swings could not be included in the calculations for unencumbered space. The requirement is 3.25 meters square unencumbered indoor space per child.
- Full dimension for cot rooms would be required to establish if the required number of cots can be accommodated. An initial review indicates that the cot rooms would only accommodate five cots each, given the size of cots (min 1100mm x 495mm) and needs for 30 cm gaps between each cot for access and hygiene.
- CECA would require a cot to be allocated for each infant. Sharing of cots is not supported by CECA as it does not meet the sleeping needs of children and increases the risk of the spread of infectious diseases, particularly given the current COVID-19 pandemic. The number of nursery places would be limited to the number of cots.
- CECA would have concerns about educators' ability to safely evacuation of the proposed number of infants from the first floor in the event of an emergency.
- It would be recommended that children toilet 1 and the cot room closet to the outdoor play area were switched in order to ensure appropriate supervision and support is provided to educators when nappy changing. Being within sight and sound of the main cohort of children means that the educators can communicate and support each other during busy times.
- Concerns about lack of natural light in 45m² Toddler Room and the quiet area in Group 4 Room. Skylights would increase the natural light.
- It would be recommended swapping rooms 4 and 5 with 6 and 7 so that younger children are grouped together and age appropriate outdoor space is immediately accessible to each group.
- Outdoor area – it would be recommended to reduce the amount of pathing and replace with natural elements and surfaces. It would be recommended to divide the outdoor space and introduce age appropriate features in each area. Shading would also be required in each area.
- CECA has particular concerns about the proximity of existing building to the proposed service, and particularly the outdoor area. Further details of these premises and their operations would be required in order to assess any environmental considerations.

Overall

CECA is aware of concerns from both the Environment Protection Authority and Health Protection Service, regarding potential risks of harm to children from soil and air contamination at this site, relating to industrial activities in the surrounding area. As a result CECA has serious

concerns about Block 18, Section 11 Mitchell's suitability as a site and location for the development of an education and care service.

CECA also holds concern regarding the risk associated with the two storey nature of this building, particular when non-ambulant children are cared for above the ground floor. Education and care services situated above ground floor pose an inherent risk to children's health and safety during emergency evacuations. This is further increased by having all auxiliary staff and educators not working directly with children located in either the office, kitchen or staff room on the lower floor. It is unrealistic for these staff to be available to assist non-ambulant children to negotiate stairs and evacuate safely, when they are moving against the flow of children and educators evacuating during an emergency.

It is noted that the plans have three rooms with the inclusion of cot rooms. Given that cots are provided for children under 2 years of age it is likely that the provider would attempt to have as many under two children as cots available, which as per the building plan is 30 cots. There are a further six children allocated to Group 3 as per the identified space. Given that there is a 1:4 ratio for these age groups it is greatly concerning how 9 educators could safely evacuate 36 under 2 year-old children from a first floor building. A provider would need to increase the number of educators per group and reduce the number of children under 2 years old to reduce the level of risk.

This is CECA's preliminary view of the plans and design. It should not be taken as an endorsement that any subsequent service approval application would be granted. Any service approval application would be determined by the decision maker at the time it is made and in consideration of all of the matters that the National Law and National Regulations require to be considered at that time. Any application for an education and care service approval would be contingent on advice from ACT Fire and Rescue, ACT Health Protection and ACT Environment Protection Authority.

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

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From: AC, EPD Customer Services <ACEPDCustomerServices@act.gov.au>

Sent: Wednesday, 6 April 2022 9:43 AM

To: EDU, School Planning <EDUSchoolPlanning@act.gov.au>; Brookes, Clare <Clare.Brookes@act.gov.au>; Partridge, Leah <Leah.Partridge@act.gov.au>; Williams, Jo <Jo.Williams@act.gov.au>; King, Meg <Meg.King@act.gov.au>

Subject: REFERRAL-EDUCATION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

Please accept the invitation to join Objective Connect to view the proposed plans & supporting documents for this development application.

DEVELOPMENT APPLICATION NO: 201733198-S197D

BLOCK: 18 **SECTION:** 11 **DIVISION:** MITCHELL

S197 Amendment - Proposed amendment to DA approval – AMENDMENT TO APPROVED DA201733198 (S197D) . Amendment to the development application for PROPOSAL FOR CHILDCARE CENTRE - the amendment is to; childcare places reduced, car park modified, reconfiguration of ground floor internal space, first floor layout changed, deletion of second floor, alteration of total gross floor area and associated works.

Pursuant to Section 148(1) of the Planning and Development Act 2007 the ACT Planning and Land Authority requests that you consider the above mentioned development application and provide any written advice no later than 15 working days after the date of this notice **(02/05/2022)**.

In accordance with Section 150 of the Planning and Development Act 2007 If advice is not received within the prescribed time it will be taken that you have supported the application.

Please forward any written advice via email to Customer Services

EPDcustomerservices@act.gov.au

Please use the following format in the subject line of the email when providing advice:

COMM-Agency Name-20080XXXX-Block XX Section XX SuburbXXXXX-01

Example: COMM-Heritage-200801234-Block 10 Section 10 Dickson-01

Best Regards,

Hannah Bui | Notification | Phone: (02) 620 71923

EPDCustomerService@act.gov.au

www.act.gov.au/accesscbr

Access Canberra | ACT Government

8 Darling Street, Mitchell | GPO Box 158 Canberra ACT 2601



I acknowledge and pay my respects to Elders and Traditional Custodians of this land, the Ngunnawal people - past and present, and acknowledge their continuing culture and connection to Country and community.

From: [Efthymiades, Deb](#)
To: [Brookes, Clare](#); [System Policy and Reform Office](#)
Subject: RE: WEDNESDAY AM - FOR CLEARANCE: MWB
Date: Wednesday, 13 April 2022 9:07:11 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

Thanks for such a speedy response Clare – Rach could you make this change and pop into the cleared folder please?

taa

From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Wednesday, 13 April 2022 9:00 AM
To: Efthymiades, Deb <Deb.Efthymiades@act.gov.au>; System Policy and Reform Office <SPROffice@act.gov.au>
Subject: RE: WEDNESDAY AM - FOR CLEARANCE: MWB

Thanks Deb

Hi Rachel

It was 15 April 2019.

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

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From: Efthymiades, Deb <Deb.Efthymiades@act.gov.au>

Sent: Wednesday, 13 April 2022 8:34 AM

To: System Policy and Reform Office <SPROffice@act.gov.au>

Cc: Brookes, Clare <Clare.Brookes@act.gov.au>

Subject: RE: WEDNESDAY AM - FOR CLEARANCE: MWB

Hey Rach – just need someone in CECA to add the date that ACAT overturned the conditions on the Mitchell DA – then good to be moved into the cleared folder.

Taa

d

From: System Policy and Reform Office <SPROffice@act.gov.au>

Sent: Tuesday, 12 April 2022 8:08 PM

To: Efthymiades, Deb <Deb.Efthymiades@act.gov.au>

Subject: WEDNESDAY AM - FOR CLEARANCE: MWB

Hi Deb,

SPR MWB input is ready for your clearance in the below link.

Clearance due by 10am for MCR.

[CLOSED - NO FURTHER INPUT - SPR MWB Input 11-17 April.docx](#)

SP have also provided an attachment as part of their contribution.

[Village march newsletter.pdf](#)

Rach

Rachel Burton | System Policy and Reform Business Manager and

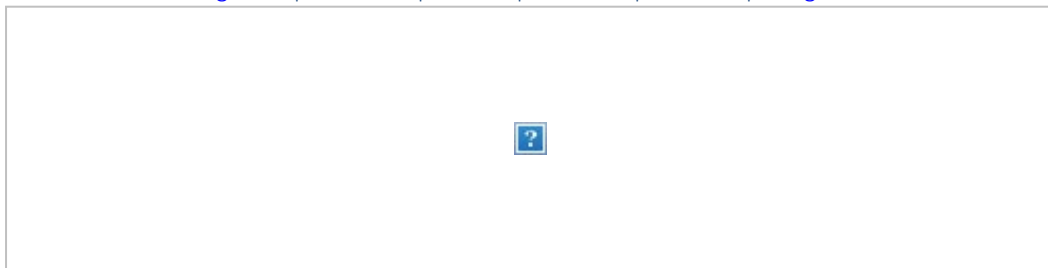
Executive Support Officer to Nicole Moore, Executive Branch Manager, Strategic Policy

Education Directorate | ACT Government

Email: rachel.burton@act.gov.au | Phone +61 2 6205 3227

Level 4, 220 London Circuit, Canberra ACT 2601 | GPO Box 158 Canberra ACT 2601

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From: [AC, EPD Customer Services](#)
To: "devapp@actewagl.com.au"; "[Building Approvals - Icon Water](#)"; [BASubmission_Electricity](#); evoenergyconnections@jemen.com.au; [TCCS_PC DA](#); [EmergencyManagement](#); [EPAPlanningLiaison](#); [Brookes, Clare](#); [Partridge, Leah](#); [Williams, Jo](#); [King, Meg](#); [EDU, School Planning](#)
Subject: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01
Date: Tuesday, 9 August 2022 12:08:31 PM
Attachments: [image001.png](#)
[DISPATCHADVICECHECKLIST-201733198-S197D-01.obr](#)
[NOTICE OF DECISION-201733198-S197D-SIGNED.obr](#)
[DISPATCHADVICECHECKLIST-201733198-S197D-01.doc](#)
[NOTICE OF DECISION-201733198-S197D-SIGNED.pdf](#)

OFFICIAL

Good morning,

Please see attached Notice of Decision for Block 18 Section 11 Suburb MITCHELL Development Application No: **201733198-S197D**

For further information please contact: 6207 6383.

Online Form: https://www.accesscanberra.act.gov.au/app/forms/epd_feedback

Best Regards,

Hannah Bui | DA Notification | Phone: (02) 620 71923
EPDCustomerServices@act.gov.au
www.act.gov.au/accesscbr
Access Canberra | ACT Government
8 Darling Street, Mitchell | GPO Box 158 Canberra ACT 2601



I acknowledge and pay my respects to Elders and Traditional Custodians of this land, the Ngunnawal people - past and present, and acknowledge their continuing culture and connection to Country and community.



ACT
Government

Environment, Planning and
Sustainable Development

CHECKLIST

Dispatch Advice Checklist

DA Number: 201733198 S197D

Unit(s): Block(s): 18 Section: 11 District/Division: MITCHELL

Case Officer: JESMIN ABDULLAH Contact Number: 62052235 Decision Date: 8-Aug-22

Application Type: **S197 AMENDMENT TO DA**

Dispatch Plans: **NO** Dispatch by: **E-MAIL**

Plans have been moved to the sub-folder in the approved plans folder however have not been stamped as relevant conditions are yet to be satisfied. The plans are not to be dispatched.

Dispatch Entity Referral Advice: **YES**

An Objective alias for the relevant mandatory entity referral advice received from ActewAGL, Actew Corporation, Environment Protection Agency and/or Asset Acceptance, as per S149 of the *Planning and Development Act 2007*, has been moved to the approved plans folder.

Type of Decision: **APPROVED WITH CONDITIONS** Decision By:
DELEGATE OF THE AUTHORITY

Representations: **YES**

Appeal Rights

Applicant: **YES**

Person who made Representation: **NO**

Encroachment

Is an application for encroachment (minor) to be dispatched to the applicant? **NOT APPLICABLE**
(If yes, create application for encroachment (minor) document from Intelledox and attach to Notice of decision)

Draft crown leases/Instruments of Variations

Does the NOD require the draft crown leases or Instruments of Variation put with the NOD?

NOT APPLICABLE

(If yes, DA officer to include any attachments with the NOD where the DA includes a Lease Variation)

Checklist
Dispatch Advice Checklist



ACT
Government

Environment, Planning and
Sustainable Development

NOTICE OF DECISION

Made under part 7 of the *Planning and Development Act 2007*

S197 Amendment

Pursuant to section 197 of the *Planning and Development Act 2007*, approval is sought to amend development approval No. 201733198 dated 21 May 2018 and thereafter

Reconsideration Decision dated 31 January 2019 by:

- 1 reducing childcare places from 130 to 110;
- 2 reducing car parking spaces from 28 to 25;
- 3 reconfiguration of ground floor internal layout;
- 4 first floor layout reconfiguration and increase in gross floor area, and associated alteration to building envelope;
- 5 deletion of second floor and associated alteration to building envelope and roof form; and
- 6 reduction of total gross floor area of development from 1087m² to 1006m².

I, George Cilliers, delegate of the planning and land authority, pursuant to section 198 of the *Planning and Development Act 2007 (Act)*, **approve subject to conditions**, to amend the development approval only for the amendments nominated above, in accordance with the application made under section 197 of the Act, in accordance with the plans, drawings and other documentation approved and endorsed as forming part of this approval.

DA Number: 201733198/S197D
 Block: 18
 Section: 11
 Suburb: Mitchel
 Application lodged: 5 April 2022
 Assessment track: Merit

This decision contains the following information:

Part A – Conditions of Approval
 Part B – reasons for the Decision
 Part C – public notification & entity advice
 Attachment 1 – Administrative information

A copy of the development application and this approval may be inspected at the planning and land authority's office from 9:00 am to 4:00 pm, Monday to Friday at 480 Northbourne Avenue, Dickson, ACT 2602

CONTACT / ENQUIRIES

Phone: (02) 6207 6383

Online Form:

https://www.accesscanberra.act.gov.au/app/forms/epd_feedback

George Cilliers

Delegate of the Planning
and Land Authority

8 August 2022

NOTICE OF DECISION

DA 201733198 / D

- Jemena (Gas);
- Emergency Services Authority (ESA);
- Children's Education and Care Assurance (CECA).

Copies of advice from the relevant entities are attached to the Notice of Decision and are relevant to this condition.

6. ENVIRONMENT PROTECTION

All works must be carried out in accordance with "*Environment Protection Guidelines for Construction and Land Development in the ACT, March 2011*", available at www.environment.act.gov.au or by calling 132281.

ADVISORY NOTES

This application is approved with the following advisory notes. It is recommended that careful consideration be given to advisory notes prior to commencing work.

1. EDUCATION AND CARE SERVICES

The applicant is advised that an approved provider must obtain service approval in order to operate an education and/or care service on the subject site under the *Education and Care Services National Law 2010* (the National Law). The applicant is advised that any proposed provider should contact the relevant Regulatory Authority for the ACT (Director-General, Education Directorate) as soon as possible.

The applicant is advised that s 49(1)(a) of the National Law provides that "the Regulatory Authority must refuse to grant a service approval if - (a) the Regulatory Authority is satisfied that the service, if permitted to operate, would constitute an unacceptable risk to the safety, health or wellbeing of children who would be educated or cared for by the education and care service." The statements from the Environment Protection Authority and Health Protection Service mentioned at E6 and E7 of the Original decision dated 21 May 2018, appear to raise issues about risks to the safety, health or wellbeing of children.

2. SIGNAGE

- a) This development application does not include an assessment of any proposed signage.

Any proposed signage at the site must be the subject of a separate DA for approval by planning and land authority, unless exempt in accordance with the *Planning and Development Regulations 2008*.

- b) All signage installed at the site, including advertising signage and hoarding, should comply with the Australian Association of National Advertisers (AANA) Code of Ethics and the ACT Government's Hoarding Signage Advertising Guidelines available online at <https://www.planning.act.gov.au/build-buy-renovate/for-industry/industry-resources/hoarding-signage-guidelines>

3. ENVIRONMENT PROTECTION – NOISE

Noise from equipment which may be installed or used at the site, including air conditioning units, must comply with the noise standard at the block boundary at all times as per the *Environment Protection Regulation 2005*. Please consider the type and location of noise generating equipment prior to installation. Written assurance should be sought from the supplier/installer of the equipment that it complies with the Noise Zone Standard as per the *Environment Protection Regulation, 2005*.

NOTICE OF DECISION

DA 201733198 / D

PART C – PUBLIC NOTIFICATION AND ENTITY ADVICE

PUBLIC NOTIFICATION

Pursuant to Division 7.3.4 of the Act, the application was publicly notified from 12 April 2022 to 5 May 2022. Two written representations were received during public notification period.

The issues raised in the representations were considered in the assessment and making of the decision for this development application. Please refer to 'Reasons for the Decision' in **PART B** for further clarification.

ENTITY ADVICE and REQUIREMENTS

Pursuant to Division 7.3.3 of the *Planning and Development Act*, the application was referred to the below entities. Where an entity requested conditions to be imposed on this development, those conditions have been incorporated into **PART A** of this Decision.

A summary of entity comments can be found below.

1. CHILDREN'S EDUCATION AND CARE ASSURANCE (CECA)
 CECA provided advice stating that the proposal is not supported.
 A copy of the CECA's advice is attached to this Notice of Decision.
 Please refer to **PART A** for conditions consistent with the CECA advice.
2. ACT EMERGENCY SERVICES AGENCY (ESA)
 ESA provided advice stating that previous advice on the original approval still valid on this amendment application.
3. ENVIRONMENTAL PROTECTION AUTHORITY (EPA)
 EPA provided advice stating that the proposal is not supported.
 A copy of the EPA's advice is attached to this Notice of Decision.
 The advice is not incorporate in this decision as the consent decision of the ACT Civil and Administrative Tribunal (ACAT) (AT14/2019) revoked condition A1 of the original decision regarding compliance with the requirements of EPA.
4. TRANSPORT CANBERRA AND CITY SERVICES (TCCS)
 TCCS provided advice stating that the proposal is supported.
5. ICON WATER
 Icon Water provided advice stating that the proposal is supported subject to conditions.
 A condition requiring the development to satisfy relevant entity requirements has been imposed in **PART A**.
 A copy of the Icon Water advice is attached to this Notice of Decision.
6. EVOENERGY (ELECTRICITY)
 EvoEnergy (Electricity) provided advice stating that the proposal is not supported.
 A condition requiring the development to satisfy relevant entity requirements has been imposed in **PART A**.
 A copy of the Evoenergy advice is attached to this Notice of Decision.

NOTICE OF DECISION

DA 201733198 / D

ADMINISTRATIVE INFORMATION RELATING TO NOTICE OF DECISION

DATE THAT THIS APPROVAL TAKES EFFECT

Unless a condition of approval provides for otherwise, this approval does not impact on the date the original decision and approval takes effect.

Inspection of the Application and Decision

A copy of the application and the decision can be inspected between 8:30am and 4:30pm weekdays at the Environment, Planning and Sustainable Development Directorate Dickson Customer Service Centre at 480 Northbourne Avenue, Dickson, ACT.

Submission of revised drawings or documentation

If a condition of approval requires the applicant to lodge revised drawings and / or documentation with the planning and land authority for approval pursuant to section 165 of the Act, the submission must be made by completing an application in e-development.

Reconsideration of the Decision

If the DA applicant is not satisfied with the decision made by the planning and land authority, they are entitled to apply to the planning and land authority for reconsideration within 20 working days of being told of this decision pursuant to section 191 of the Act. A longer timeframe may apply only if granted in writing by the planning and land authority pursuant to section 184 of the Act.

More information is available online at [https://www.planning.act.gov.au/build-buy-
renovate/build-buy-or-renovate/approvals/development-applications/appeal-a-da-decision](https://www.planning.act.gov.au/build-buy-renovate/build-buy-or-renovate/approvals/development-applications/appeal-a-da-decision).

Please contact Access Canberra Customer Services if you wish to lodge a reconsideration application.

Review by the ACT Civil and Administrative Tribunal (ACAT)

1. Decisions that are reviewable (sometimes referred to as appeals) by the ACAT are identified in Schedule 1 of the Act, except for matters that are exempted under Schedule 3 of the Planning and Development Regulation 2008 (matters exempt from third party review).
2. The notice of decision and this advice have been sent to all people who made a representation in relation to the application.
3. The ACAT is an independent body. It can review a large number of decisions made by ACT Government ministers, officials and statutory authorities on their merits. The ACAT can agree with, change or reject the original decision, substitute its own decision or send the matter back to the decision maker for reconsideration in accordance with ACAT recommendations.
4. More information on appeal rights is available online at [https://www.planning.act.gov.au/build-buy-
renovate/build-buy-or-renovate/approvals/development-applications/appeal-a-da-decision](https://www.planning.act.gov.au/build-buy-renovate/build-buy-or-renovate/approvals/development-applications/appeal-a-da-decision).
5. The ability to review the Authority's decision is a matter of law. **If** you think you have a right of review, you may apply to the ACAT for a review of the decision. Application forms can be obtained from the ACAT at the website listed below. You can also download the form from the ACT Legislation Register. It is recommended you seek independent advice in regards to such reviews eg a legal practitioner.

NOTICE OF DECISION

DA 201733198 / D

3. An *eligible person* must demonstrate that their interests are adversely affected by the decision and that the application raises a significant issue of public importance.
4. Section 5 of the ADJR Act sets out the grounds on which a decision can be reviewed.
5. The time limit to make an application for review is 28 days from the date the Notice of Decision is provided to the applicant and those people who made a representation.
6. The ACT Supreme Court is a costs jurisdiction where costs generally follow the event. This means that the unsuccessful party is required to pay the costs of the successful party.
7. For more information on ACT Supreme Court processes and fees, please visit <https://courts.act.gov.au/home>.

Other approvals

A notice of decision under the *Planning and Development Act 2007* grants development approval only. Other approvals may be required, including:

1. Building Approval

Most building work requires building approval under the *Building Act 2004* to ensure it complies with building laws such as the *Building Code of Australia*. The lessee should engage a private building certifier to determine whether building approval is required and assess and approve the building plans before construction commences. A list of certifiers can be obtained from the Environment, Planning and Sustainable Development Directorate.

2. Tree damaging activity approval

A Tree Management Plan under the *Tree Protection Act 2005* is required for approval where it is proposed to undertake groundwork within the tree protection zone of a protected tree or likely to cause damage to, or remove, any trees defined as protected trees by that Act. More information is available from the Transport Canberra and City Services Directorate at <https://www.tccs.act.gov.au/city-living/trees>.

3. Use of verges or other unleased Territory Land

In accordance with the *Public Unleased Land Act 2013*, road verges and other unleased Territory land must not be used for the carrying out of works, including the storage of materials or waste, without prior approval of the Territory. More information is available from the Transport Canberra and City Services Directorate at https://www.tccs.act.gov.au/city-living/public_land_use.

4. Works on unleased Territory Land

In accordance with the *Public Unleased Land Act 2013*, no work can be undertaken on unleased Territory land without the approval of the Territory. Such approval must be obtained from the Senior Manager, Place Coordination and Planning, Transport Canberra and City Services Directorate by way of:

- (a) a certificate of design acceptance prior to the commencement of any work; and
- (b) a certificate of operational acceptance on completion of all works to be handed over to TCCS.

Works on unleased Territory land may include the construction or upgrading of driveway verge crossings, public footpaths, roads, street lighting, stormwater works, waste collection amenities, street signs and line marking, road furniture and landscaping.

NOTICE OF DECISION

DA 201733198 / D

Education Directorate	www.education.act.gov.au 02 6205 5429
Utilities	

Translation and interpretation services

The ACT Government's translation and interpreter service runs 24 hours a day, every day of the week by calling 131 450.

ENGLISH	If you need interpreting help, telephone:
ARABIC	: إذا احتجت لمساعدة في الترجمة الشفوية ، إتصل برقم الهاتف :
CHINESE	如果你需要传译员的帮助，请打电话：
CROATIAN	Ako trebate pomoć tumača telefonirajte:
GREEK	Αν χρειάζεστε διερμηνέα τηλεφωνήσετε στο
ITALIAN	Se avete bisogno di un interprete, telefonate al numero:
MALTESE	Jekk għandek bżonn l-għajjuna t'interpretu, ċempel:
PERSIAN	: اگر به ترجمه شفاهی احتیاج دارید به این شماره تلفن کنید:
PORTUGUESE	Se você precisar da ajuda de um intérprete, telefone:
SERBIAN	Ако вам је потребна помоћ преводиоца телефонирајте:
SPANISH	Si necesita la asistencia de un intérprete, llame al:
TURKISH	Tercümana ihtiyacınız varsa lütfen telefon ediniz:
VIETNAMESE	Nếu bạn cần một người thông-ngôn-hãy gọi điện-thoại:
TRANSLATING AND INTERPRETING SERVICE	
131 450	
Canberra and District - 24 hours a day, seven days a week	

DA Number: 201733198 S197D

Unit(s): Block(s): 18 Section: 11 District/Division: MITCHELL

Case Officer: JESMIN ABDULLAH Contact Number: 62052235 Decision Date: 8-Aug-22

Application Type: **S197 AMENDMENT TO DA**

Dispatch Plans: **NO** Dispatch by: **E-MAIL**

Plans have been moved to the sub-folder in the approved plans folder however have not been stamped as relevant conditions are yet to be satisfied. The plans are not to be dispatched.

Dispatch Entity Referral Advice: **YES**

An Objective alias for the relevant mandatory entity referral advice received from ActewAGL, Actew Corporation, Environment Protection Agency and/or Asset Acceptance, as per S149 of the *Planning and Development Act 2007*, has been moved to the approved plans folder.

Type of Decision: **APPROVED WITH CONDITIONS** Decision By:
DELEGATE OF THE AUTHORITY

Representations: **YES**

Appeal Rights

Applicant: **YES**

Person who made Representation: **NO**

Encroachment

Is an application for encroachment (minor) to be dispatched to the applicant? **NOT APPLICABLE**
(If yes, create application for encroachment (minor) document from Intelledox and attach to Notice of decision)

Draft crown leases/Instruments of Variations

Does the NOD require the draft crown leases or Instruments of Variation put with the NOD?

NOT APPLICABLE

(If yes, DA officer to include any attachments with the NOD where the DA includes a Lease Variation)

Entities to be advisedReferral Required: **YES**

NB: Section 174 of the Act states that "The planning and land authority must give a copy of the decision on the development application to each entity to which the application was referred".

<input type="checkbox"/>	DA Leasing Referral Required – ACTPLADALeasing@act.gov.au
<input type="checkbox"/>	Deed Mgt. Referral Required
<input type="checkbox"/>	Land Reg. Referral Required
<input type="checkbox"/>	Action Buses (refer to Asset Acceptance)
<input checked="" type="checkbox"/>	ICON Water (formerly ActewAGL Water)
<input checked="" type="checkbox"/>	ActewAGL (All other entities)
<input type="checkbox"/>	ACT Health
<input type="checkbox"/>	ACT Heritage Council
<input type="checkbox"/>	ACT Valuation Office
<input checked="" type="checkbox"/>	Asset Acceptance
<input type="checkbox"/>	Australian Communications and Media Authority
<input type="checkbox"/>	Australian National University
<input type="checkbox"/>	City Renewal Authority
<input type="checkbox"/>	Conservator of Flora and Fauna (Referred under S147A or S148)
<input type="checkbox"/>	Commonwealth Department of the Environment (Only Applicable to Impact Track Applications Referred Under S127A.
<input type="checkbox"/>	Custodian of the land -
<input checked="" type="checkbox"/>	Emergency Services (Fire or Ambulance)
<input checked="" type="checkbox"/>	Environment Protection Agency
<input type="checkbox"/>	Gambling and Racing Commission
<input type="checkbox"/>	Gateway Team
<input type="checkbox"/>	Heritage
<input type="checkbox"/>	Housing and Community Services
<input type="checkbox"/>	Land Development Agency
<input type="checkbox"/>	Land and Property Services
<input type="checkbox"/>	Leasing – General Leasing Encroachments and Licences
<input type="checkbox"/>	Megan Corrigan-Access Canberra All Multi-Dwelling decisions and any that relate to permanent structures, on unleased Territory land, associated with permits for outdoor eating.
<input type="checkbox"/>	Owners Corporation Lease variation for single units – please use relevant letter template
<input type="checkbox"/>	National Capital Authority
<input type="checkbox"/>	Police
<input type="checkbox"/>	Queanbeyan City Council
<input type="checkbox"/>	Register General's Office
<input type="checkbox"/>	Surveying and Spatial Data
<input type="checkbox"/>	Territory Plan Variation Unit
<input type="checkbox"/>	Transport Planning
<input type="checkbox"/>	Tree Protection
<input type="checkbox"/>	WorkCover
<input type="checkbox"/>	Yass City Council
<input type="checkbox"/>	ACT Place Names - Placenames@act.gov.au
<input checked="" type="checkbox"/>	Other – Education - CECA

Comments

Masterman, Tanya

From: Brookes, Clare
Sent: Wednesday, 14 September 2022 3:39 PM
To: Moysey, Sean
Cc: Partridge, Leah
Subject: FW: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01
Attachments: DISPATCHADVICECHECKLIST-201733198-S197D-01.obr; NOTICE OF DECISION-201733198-S197D-SIGNED.obr; DISPATCHADVICECHECKLIST-201733198-S197D-01.doc; NOTICE OF DECISION-201733198-S197D-SIGNED.pdf

OFFICIAL

Good Afternoon Sean

Please see attached decision on the Mitchel Development Application. EPSDD have included the following condition. This pre-empts the AIP amendment and there is no current approval under the National Law. This is the second such condition that I have seen since [REDACTED]. Would you like me to contact George Cilliers to discuss this.

1. CHILDREN'S EDUCATION AND CARE ASSURANCE (CECA) – WORKS NOT TO COMMENCE

a) No construction works, with the exception of demolition and excavation, in relation to this development approval is to commence until the lessee/applicant has obtained approval from CECA in accordance with the *Education and Care Services National Law Act (ACT) 2010* (National Law) and the *Education and Care Services National Regulations* (National Regulations).

b) The lessee/applicant must address and comply with any additional conditions imposed by CECA.

Note: Any substantial changes to the development required for compliance with CECA will need to be submitted for the consideration of the planning and land authority with an application to amend the approval under Section 197 of the Planning and Development Act 2007.

Kind Regards

Clare Brookes
 Senior Director, Education and Care, Regulation and Support | Education | ACT Government
 P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
 GPO Box 158 Canberra ACT 2601
www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au

From: Partridge, Leah <Leah.Partridge@act.gov.au>
Sent: Friday, 9 September 2022 3:25 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Subject: FW: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

From: AC, EPD Customer Services <ACEPDCustomerServices@act.gov.au>
Sent: Tuesday, 9 August 2022 12:08 PM

To: 'devapp@actewagl.com.au' <devapp@actewagl.com.au>; 'Building Approvals - Icon Water' <BAsubmission_watersewer@iconwater.com.au>; BAsubmission_Electricity <BAsubmission_Electricity@evoenergy.com.au>; evoenergyconnections@jemena.com.au; TCCS_PC DA <TCCS.DA@act.gov.au>; EmergencyManagement <EmergencyManagement@act.gov.au>; EPAPanningLiaison <EPAPanningLiaison@act.gov.au>; Brookes, Clare <Clare.Brookes@act.gov.au>; Partridge, Leah <Leah.Partridge@act.gov.au>; Williams, Jo <Jo.Williams@act.gov.au>; King, Meg <Meg.King@act.gov.au>; EDU, School Planning <EDUSchoolPlanning@act.gov.au>
Subject: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

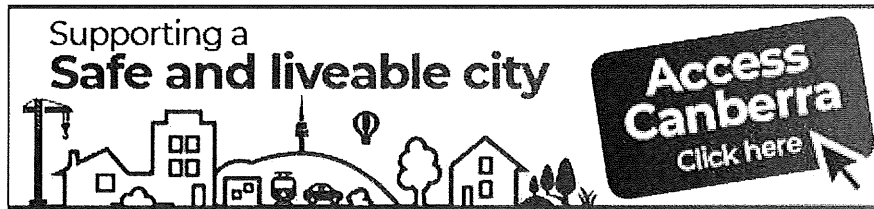
Good morning,

Please see attached Notice of Decision for Block 18 Section 11 Suburb MITCHELL Development Application No: **201733198-S197D**

For further information please contact: 6207 6383.
Online Form: https://www.accesscanberra.act.gov.au/app/forms/epd_feedback

Best Regards,

Hannah Bui | DA Notification | Phone: (02) 620 71923
EPDCustomerServices@act.gov.au
www.act.gov.au/accesscbr
Access Canberra | ACT Government
8 Darling Street, Mitchell | GPO Box 158 Canberra ACT 2601



I acknowledge and pay my respects to Elders and Traditional Custodians of this land, the Ngunnawal people - past and present, and acknowledge their continuing culture and connection to Country and community.

From: [Moysey, Sean](#)
To: [Brookes, Clare](#)
Cc: [Partridge, Leah](#)
Subject: RE: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01
Date: Thursday, 15 September 2022 10:21:31 AM
Attachments: [image002.png](#)
[image003.png](#)

OFFICIAL

Hi Clare

Yes please. Could you please write to him so we have a record of it and don't have to document later. In fact, we should ask that the condition be amended as we cannot comply with it as there is no legal basis for us to give approval or not.

Regards
Sean

Sean Moysey

Executive Branch Manager, Education and Care Regulation and Support
Education | ACT Government
P 02 6207 2143 M 0478 301 650

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au



Ngunnawal Country

From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Wednesday, 14 September 2022 3:39 PM
To: Moysey, Sean <Sean.Moysey@act.gov.au>
Cc: Partridge, Leah <Leah.Partridge@act.gov.au>
Subject: FW: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

Good Afternoon Sean

Please see attached decision on the Mitchel Development Application. EPSDD have included the following condition. This pre-empts the AIP amendment and there is no current approval under the National Law. This is the second such condition that I have seen since [REDACTED]
Would you like me to contact George Cilliers to discuss this.

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b) The lessee/applicant must address and comply with any additional conditions imposed by CECA.

Note: Any substantial changes to the development required for compliance with CECA will need to be submitted for the consideration of the planning and land authority with an application to amend the approval under Section 197 of the Planning and Development Act 2007.

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au

From: Partridge, Leah <Leah.Partridge@act.gov.au>

Sent: Friday, 9 September 2022 3:25 PM

To: Brookes, Clare <Clare.Brookes@act.gov.au>

Subject: FW: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

From: AC, EPD Customer Services <ACEPDCustomerServices@act.gov.au>

Sent: Tuesday, 9 August 2022 12:08 PM

To: 'devapp@actewagl.com.au' <devapp@actewagl.com.au>; 'Building Approvals - Icon Water'

<BAsubmission_watersewer@iconwater.com.au>; BAsubmission_Electricity

<BAsubmission_Electricity@evoenergy.com.au>; evoenergyconnections@jemena.com.au;

TCCS_PC DA <TCCS.DA@act.gov.au>; EmergencyManagement

<EmergencyManagement@act.gov.au>; EPAPanningLiaison <EPAPanningLiaison@act.gov.au>;

Brookes, Clare <Clare.Brookes@act.gov.au>; Partridge, Leah <Leah.Partridge@act.gov.au>;

Williams, Jo <Jo.Williams@act.gov.au>; King, Meg <Meg.King@act.gov.au>; EDU, School Planning

<EDUSchoolPlanning@act.gov.au>

Subject: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

Good morning,

Please see attached Notice of Decision for Block 18 Section 11 Suburb MITCHELL

Development Application No: **201733198-S197D**

For further information please contact: 6207 6383.

Online Form: https://www.accesscanberra.act.gov.au/app/forms/epd_feedback

Best Regards,

Hannah Bui | DA Notification | Phone: (02) 620 71923

EPDCustomerServices@act.gov.au

www.act.gov.au/accesscbr

Access Canberra | ACT Government

8 Darling Street, Mitchell | GPO Box 158 Canberra ACT 2601



I acknowledge and pay my respects to Elders and Traditional Custodians of this land, the Ngunnawal people - past and present, and acknowledge their continuing culture and connection to Country and community.

From: [Brookes, Clare](#)
To: [Moysey, Sean](#)
Subject: RE: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01
Date: Thursday, 15 September 2022 5:41:00 PM
Attachments: [image001.png](#)
[image002.png](#)

OFFICIAL

Good Afternoon Sean

Please find draft response to EPSDD below.

[\\act.gov.au\education\decs\Regulation and Compliance\CECA\CHILDREN'S PROGRAMS\Infrastructure and Planning\DA Referrals\MITCHELL\Block 18 Section 11 \[REDACTED\].Ltd\)\20220915 Draft Letter CECA to EPSDD V2.docx](#)

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au

From: Moysey, Sean <Sean.Moysey@act.gov.au>

Sent: Thursday, 15 September 2022 10:21 AM

To: Brookes, Clare <Clare.Brookes@act.gov.au>

Cc: Partridge, Leah <Leah.Partridge@act.gov.au>

Subject: RE: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

Hi Clare

Yes please. Could you please write to him so we have a record of it and don't have to document later. In fact, we should ask that the condition be amended as we cannot comply with it as there is no legal basis for us to give approval or not.

Regards

Sean

Sean Moysey

Executive Branch Manager, Education and Care Regulation and Support

Education | ACT Government

P 02 6207 2143 **M** 0478 301 650

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.det.act.gov.au



Ngunnawal Country

From: Brookes, Clare <Clare.Brookes@act.gov.au>

Sent: Wednesday, 14 September 2022 3:39 PM

To: Moysey, Sean <Sean.Moysey@act.gov.au>

Cc: Partridge, Leah <Leah.Partridge@act.gov.au>

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OFFICIAL

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Note: Any substantial changes to the development required for compliance with CECA will need to be submitted for the consideration of the planning and land authority with an application to amend the approval under Section 197 of the Planning and Development Act 2007.

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 M 0481 003 833

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GPO Box 158 Canberra ACT 2601

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From: Partridge, Leah <Leah.Partridge@act.gov.au>

Sent: Friday, 9 September 2022 3:25 PM

To: Brookes, Clare <Clare.Brookes@act.gov.au>

Subject: FW: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

From: AC, EPD Customer Services <ACEPDCustomerServices@act.gov.au>

Sent: Tuesday, 9 August 2022 12:08 PM

To: 'devapp@actewagl.com.au' <devapp@actewagl.com.au>; 'Building Approvals - Icon Water' <BAsubmission_watersewer@iconwater.com.au>; BAsubmission_Electricity <BAsubmission_Electricity@evoenergy.com.au>; evoenergyconnections@jemena.com.au; TCCS_PC DA <TCCS.DA@act.gov.au>; EmergencyManagement <EmergencyManagement@act.gov.au>; EPAPanningLiaison <EPAPanningLiaison@act.gov.au>; Brookes, Clare <Clare.Brookes@act.gov.au>; Partridge, Leah <Leah.Partridge@act.gov.au>; Williams, Jo <Jo.Williams@act.gov.au>; King, Meg <Meg.King@act.gov.au>; EDU, School Planning <EDUSchoolPlanning@act.gov.au>

Subject: NOTICE OF DECISION-201733198-S197D-18/11 MITCHELL-01

OFFICIAL

Good morning,

Please see attached Notice of Decision for Block 18 Section 11 Suburb MITCHELL

Development Application No: **201733198-S197D**

For further information please contact: 6207 6383.

Online Form: https://www.accesscanberra.act.gov.au/app/forms/epd_feedback

Best Regards,

Hannah Bui | DA Notification | Phone: (02) 620 71923

EPDCustomerServices@act.gov.au

www.act.gov.au/accesscbr

Access Canberra | ACT Government
8 Darling Street, Mitchell | GPO Box 158 Canberra ACT 2601



I acknowledge and pay my respects to Elders and Traditional Custodians of this land, the Ngunnawal people - past and present, and acknowledge their continuing culture and connection to Country and community.

From: [Moysey, Sean](#)
To: [Brookes, Clare](#)
Cc: [Partridge, Leah](#)
Subject: RE: Letter to George Cilliers re DA Conditions
Date: Tuesday, 20 September 2022 3:52:20 PM
Attachments: [20220915 Letter CECA to EPSDD.pdf](#)
[image001.png](#)

OFFICIAL

Hi Clare

I made some amendments. Here's the letter. Could you ask Meri to send to George please.

Regards

Sean

Sean Moysey

Executive Branch Manager, Education and Care Regulation and Support

Education | ACT Government

P 02 6207 2143 M 0478 301 650

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.det.act.gov.au



Ngunnawal Country

From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Monday, 19 September 2022 2:05 PM
To: Moysey, Sean <Sean.Moysey@act.gov.au>
Cc: Partridge, Leah <Leah.Partridge@act.gov.au>
Subject: Letter to George Cilliers re DA Conditions

OFFICIAL

Dear Sean

Please see below link to the draft letter to George Cilliers regarding the DA conditions for Mitchell and other recent services.

[G:\Regulation and Compliance\CECA\CHILDREN'S PROGRAMS\Infrastructure and Planning\DA Referrals\MITCHELL\Block 18 Section 11\20220915 Draft Letter CECA to EPSDD V2.docx](#)

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au

From: [Damjanovska, Meri](#)
To: [Cilliers, George](#)
Subject: Letter to George Cilliers re DA Conditions
Date: Wednesday, 21 September 2022 9:06:00 AM
Attachments: [20220915 Letter CECA to EPSDD.pdf](#)

OFFICIAL

Good morning George,

Please find attached a letter from CECA to EPSDD.

Kind Regards

Meri Damjanovska

On behalf of Sean Moysey | Executive Branch Manager

Phone: +61 2 6207 1114 | Email: Meri.Damjanovska@act.gov.au

Children's Education and Care Assurance

Education and Care Regulation and Support | Education | ACT Government

51 Fremantle Drive, Stirling- Hedley Beare Centre for Teaching and Learning

GPO Box 158 Canberra ACT 2601

www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) .|

This email message and any attached files may contain information that is confidential and subject of legal privilege intended only for use by the individual or entity to whom they are addressed. If you are not the intended recipient or the person responsible for delivering the message to the intended recipient be advised that you have received this message in error and that any use, copying, circulation, forwarding, printing or publication of this message or attached files is strictly forbidden, as is the disclosure of the information contained therein. If you have received this message in error, please notify the sender immediately and delete it from your inbox.



Mr George Cilliers
Executive Group Manager
Environmental Planning and Sustainable Development Directorate

Email: George.Cilliers@act.gov.au

Dear Mr Cilliers

Thank you for forwarding the Notice of Decision for Block 18 Section 11 Mitchell, DA No 201733198-S197D (Mitchell DA).

I note that the approval is subject to the following conditions:

1. CHILDREN'S EDUCATION AND CARE ASSURANCE (CECA) – WORKS NOT TO COMMENCE
 - a) No construction works, with the exception of demolition and excavation, in relation to this development approval is to commence until the lessee/applicant has obtained approval from CECA in accordance with the *Education and Care Services National Law Act (ACT) 2010* (National Law) and the *Education and Care Services National Regulations* (National Regulations).
 - b) The lessee/applicant must address and comply with any additional conditions imposed by CECA.

As you are aware, Children's Education and Care Assurance (CECA) performs the ACT Regulatory Authority's functions under the *Education and Care Services National Law (ACT)* (National Law).

One of the Regulatory Authority's functions is the assessment and determination of education and care service approval applications.

There are multiple matters which must or may be considered by CECA under the National Law and Regulations prior to issuing a service approval. These are set out in regulation 24 and regulation 25(1) which prescribe information and matters that must be included in an application for service approval, and section 47 of the National Law and regulation 27 which sets out matters CECA must or may have regard to in determining an application.

In particular, CECA must be provided with a certificate of occupancy for the premises and conduct a physical inspection of the completed service, including fixtures, fittings, furnishing and equipment.

A COU is required to assess whether the premises are suitable for education and care and meet requirements set by the National Law and Regulations. It is not possible for CECA to give approval for a service under the National Law prior to its construction.

I appreciate the intent of imposing the condition on the Mitchell DA was to address the concerns raised by CECA and other agencies about the suitability of this site for education and care.

However, it is not possible for CECA to comply with this condition. CECA cannot consider a service approval prior to the COU. CECA is restricted to providing information on proposed plans and advice on compliance with the National Law and Regulations.

I suggest that the intent could perhaps be met by a condition to the effect of:

- a) The approval of an education and care service on this site is separate and independent from this Notice of Decision on Development Application. This requires an service approval application, from an education and care approved provider, to be assessed by Children's Education and Care Assurance (CECA) under the *Education and Care Services National Law (ACT)*. An approval can only be granted if CECA is satisfied that a Certificate of Occupancy and Use is issued and the service meets all the requirements under the *Education and Care Services National Law (ACT) and Education and Care Services National Regulations*.
- b) Children's Education and Care Assurance's assessment of any application for an education and care service approval, would include consideration of matters raised by other regulatory entities, including the Environment Protection Authority and ACT Health Protection Services in response to this and previous Development Applications for this site.

The first condition would be suitable on any Development Application Decision involving the inclusion of an early childhood education and care service.

Please feel free to contact me if you would like to discuss this further.

Yours sincerely

Sean Moyse
Executive Branch Manager
Education and Care Regulation and Support
Education Directorate

20 September 2022

From: [Brookes, Clare](#)
To: [Chand, Avinesh](#)
Subject: Mitchell Development Application for an Education and Care Service
Date: Monday, 21 November 2022 5:26:00 PM
Attachments: [Request for Legal Advice Mitchell DA.docx](#)

OFFICIAL: Sensitive - Legal Privilege

Previous Reference 636146

Dear Avinesh

I hope you are well. I am contacting you in relation to a development application that has been made for an education and care service to be constructed in an industrial zone – Mitchell. This matter has been ongoing for some time and has been subject to a previous ACAT hearing.

[Redacted]

Katherine Law-Jamieson and Christopher Phillipson have had previous dealings with this development application.

I look forward to your response.

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au

From: CECA
To: [redacted] CECA
Cc: Brookes, Clare
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Thursday, 24 November 2022 1:45:40 PM
Attachments: image006.png
 image007.png
 image008.gif
 image009.png
 image011.jpg
 image001.jpg
 image002.jpg

OFFICIAL

Good afternoon [redacted]
 Apologies for the delay [redacted]
 We currently have a high number of development plans sitting with CECA and will respond in time
 Kind regards,

Leah Partridge (she/her) | Assistant Director | Regulatory Policy and Coordination

Phone 6207 8083 | Fax 6207 1128 | Email Leah.Partridge@act.gov.au
 Children's Education and Care Assurance
 Education and Care Regulation and Support | Education | ACT Government
 Level 3 HBCTL 51 Fremantle Drive STIRLING ACT 2611 | GPO Box 158 Canberra ACT 2601
www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Pinterest](#) | [LinkedIn](#) | [Google+](#)

Please note I work Monday, Tuesday, Thursday and Friday.

Hybrid work locations this week for me are:

Mon	Tues	Wed	Thurs	Fri
■	■	Do not work	■	■

[redacted]
 We acknowledge the traditional custodians of the lands and waters where we live and learn, and pay our respects to elders past, present, and future.

From: [redacted]
Sent: Thursday, 10 November 2022 9:40 AM
To: CECA <CECA@act.gov.au>
Cc: Brookes, Clare <Clare.Brookes@act.gov.au>; [redacted]
Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Good morning,
 [redacted] have been engaged by the lessee of Block 18 Section 11 Mitchell to progress an amendment application – made under section 197 of the *Planning and Development Act 2007* – to an approved childcare centre development proposal (DA201733198)
 In summary, the following amendments were proposed to address legislative changes made since the original approval:

- reduction number of childcare places;
- reduction of car parking spaces;
- reconfiguration of the ground floor internal layout;
- first floor layout reconfiguration;
- deletion of the second floor; and
- reduction of gross floor area

The amended proposal (DA201733198-S197D) was approved on 8 August 2022, subject to conditions. One of these conditions require the attainment of written support from CECA in relation to the development. To this end, please find attached our request for the endorsement of CECA in accordance with the *Education and Care Services National Law Act 2010* (ACT) and the *Education and Care Services National Regulations*
 Should you require any additional information or wish to discuss further, please do not hesitate to contact me
 We appreciate your consideration
 Kind regards,

From: [Chand, Avinesh](#)
To: [Brookes, Clare](#)
Cc: [Phillipson, Christopher](#); [Atkinson, Carys](#)
Subject: FW: Request for Legal Advice - DA for Education and Care Services
Date: Monday, 28 November 2022 12:43:35 PM
Attachments: [Request for Legal Advice Mitchell DA 2.docx](#)

Importance: High

OFFICIAL

Dear Clare

Thank you for your instructions. My colleague Christopher Phillipson will respond to this request with assistance from me.

Christopher will be in touch but you can contact him by email or Microsoft Teams if you wish to discuss this matter in the meantime.

Regards

Avinesh

Avinesh Chand | Practice Leader, Regulation and Employment | ACT Government Solicitor
☎ 02 6205 3481 | 📠 02 6207 0630 | DX 5602 Canberra | 📧 PO Box 260 Civic Square ACT 2608
www.actgs.act.gov.au

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From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Thursday, 24 November 2022 2:03 PM
To: ACTGSO <ACTGSO@act.gov.au>
Cc: Chand, Avinesh <Avinesh.Chand@act.gov.au>
Subject: Request for Legal Advice
Importance: High

OFFICIAL

Please find attached request for advice regarding a development application for an education and care service (childcare) in an industrial zone.

Please note this has been subject to previous requests for advice and discussed with Avinesh Chand.

Kind Regards

Clare Brookes (she/her)

Senior Director, Education and Care Regulation and Support | Education | ACT Government

P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.det.act.gov.au

From: [Brookes, Clare](#)
To: [Damjanovska, Meri](#)
Subject: FW: Letter to George Cilliers re DA Conditions
Date: Friday, 9 December 2022 3:22:39 PM
Attachments: [20220915 Letter CECA to EPSDD.pdf](#)
[image001.png](#)

OFFICIAL

Hi Meri

We haven't received a response to this letter. Could you please send me the original email, so that I can chase it up.

Many thanks

Kind Regards

Clare Brookes
Senior Director, Education and Care, Regulation and Support | Education | ACT Government
P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au

From: Brookes, Clare
Sent: Tuesday, 20 September 2022 4:58 PM
To: Damjanovska, Meri <Meri.Damjanovska@act.gov.au>
Subject: FW: Letter to George Cilliers re DA Conditions

OFFICIAL

Hi Meri

Could you please send the attached letter to George.Cilliers@act.gov.au on Sean's behalf.

Kind Regards

Clare Brookes
Senior Director, Education and Care, Regulation and Support | Education | ACT Government
P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au

From: Moysey, Sean <Sean.Moysey@act.gov.au>
Sent: Tuesday, 20 September 2022 3:52 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: Partridge, Leah <Leah.Partridge@act.gov.au>

Subject: RE: Letter to George Cilliers re DA Conditions

OFFICIAL

Hi Clare

I made some amendments. Here's the letter. Could you ask Meri to send to George please.

Regards

Sean

Sean Moysey

Executive Branch Manager, Education and Care Regulation and Support

Education | ACT Government

P 02 6207 2143 **M** 0478 301 650

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.det.act.gov.au



Ngunnawal Country

From: Brookes, Clare <Clare.Brookes@act.gov.au>

Sent: Monday, 19 September 2022 2:05 PM

To: Moysey, Sean <Sean.Moysey@act.gov.au>

Cc: Partridge, Leah <Leah.Partridge@act.gov.au>

Subject: Letter to George Cilliers re DA Conditions

OFFICIAL

Dear Sean

Please see below link to the draft letter to George Cilliers regarding the DA conditions for Mitchell and other recent services.

<G:\Regulation and Compliance\CECA\CHILDREN'S PROGRAMS\Infrastructure and Planning\DA Referrals\MITCHELL\Block 18 Section 11\20220915 Draft Letter CECA to EPSDD V2.docx>

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government

P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601

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From: [Moysey, Sean](#)
To: [Brookes, Clare](#)
Subject: RE: Letter to George Cilliers re DA Conditions
Date: Wednesday, 14 December 2022 2:39:45 PM

OFFICIAL

Hi Clare
Many thanks, approved.
Regards
Sean

Sean Moysey

Executive Branch Manager, Education and Care Regulation and Support
Education | ACT Government
P 02 6207 2143 M 0478 301 650
Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Friday, 9 December 2022 3:54 PM
To: Moysey, Sean <Sean.Moysey@act.gov.au>
Subject: FW: Letter to George Cilliers re DA Conditions

OFFICIAL

For your review please Sean
Good Afternoon George
I'm writing to you in connection to the attached correspondence from Sean Moysey regarding the inclusion of conditions on Development Applications requiring CECA's approval prior to construction commencing.
One such application relating to a proposed Early Childhood Education and Care Service in Mitchell Block 18 Section 11 has recently been returned to CECA for review.
As explained in the attached letter, CECA is unable to issue a service approval, under the Education and Care Services National Law Act, prior the completion of the build and the fit out of a service. Whilst CECA can provide comment on the proposed plans, service approval is not possible at this stage.
CECA greatly values the support that your Department provides in consulting with us on Development Applications incorporating Early Childhood Education and Care services. We would welcome the opportunity to discuss an alternative form of words that could be appropriate in these circumstances.

Kind Regards

Clare Brookes

Senior Director, Education and Care, Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833
Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au

From: Damjanovska, Meri <Meri.Damjanovska@act.gov.au>
Sent: Friday, 9 December 2022 3:26 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Subject: FW: Letter to George Cilliers re DA Conditions

OFFICIAL

From: Damjanovska, Meri
Sent: Wednesday, 21 September 2022 9:07 AM
To: Cilliers, George <George.Cilliers@act.gov.au>
Subject: Letter to George Cilliers re DA Conditions

OFFICIAL

Good morning George,
Please find attached a letter from CECA to EPSDD.
Kind Regards

Meri Damjanovska

On behalf of Sean Moysey | Executive Branch Manager

Phone: +61 2 6207 1114 | Email: Meri.Damjanovska@act.gov.au

Children's Education and Care Assurance

Education and Care Regulation and Support | Education | ACT Government

51 Fremantle Drive, Stirling- Hedley Beare Centre for Teaching and Learning

GPO Box 158 Canberra ACT 2601

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From: [Brookes, Clare](#)
To: [Phillipson, Christopher](#)
Cc: [Charis, Avinesh](#)
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Wednesday, 4 January 2023 9:30:00 AM
Attachments: [image001.gif](#)
[image002.png](#)
[image007.jpg](#)
[image005.jpg](#)
[image006.jpg](#)

OFFICIAL: Sensitive - Legal Privilege

Good Morning Christopher

Happy New Year, I hope you had a good break

Just following up as I'm conscious we still haven't responded to [REDACTED]

Kind Regards

Clare Brookes (she/her)

A/g Executive Branch Manager Education and Care Regulation and Support | Education | ACT Government

P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.det.act.gov.au

From: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>

Sent: Friday, 16 December 2022 1:25 PM

To: Brookes, Clare <Clare.Brookes@act.gov.au>

Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL: Sensitive - Legal Privilege

Hi Clare

[REDACTED]

Sincerely,

Christopher

Christopher Phillipson | A/g Senior Solicitor | ACT Government Solicitor

☎ 02 6205 0964 | 📠 02 6207 0630 | 📍 DX 5602 Canberra | 📮 PO Box 260 Civic Square ACT 2608

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From: Brookes, Clare <Clare.Brookes@act.gov.au>

Sent: Thursday, 15 December 2022 11:41 AM

To: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>

Subject: FW: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL: Sensitive - Legal Privilege

Good Afternoon Christopher

We contacted George Cillier [REDACTED]

Kind Regards

Clare Brookes (she/her)

Senior Director Education and Care Regulation and Support | Education | ACT Government

P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.det.act.gov.au

From: [REDACTED]

Sent: Thursday, 10 November 2022 9:40 AM

To: CECA <CECA@act.gov.au>

Cc: Brookes, Clare <Clare.Brookes@act.gov.au>; [REDACTED]

Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Good morning,

[REDACTED] have been engaged by the lessee of Block 18 Section 11 Mitchell to progress an amendment application – made under section 197 of the *Planning and Development Act 2007* – to an approved childcare centre development proposal (DA201733198)

In summary, the following amendments were proposed to address legislative changes made since the original approval:

- reduction number of childcare places;
- reduction of car parking spaces;
- reconfiguration of the ground floor internal layout;
- first floor layout reconfiguration;
- deletion of the second floor; and
- reduction of gross floor area

The amended proposal (DA201733198-S197D) was approved on 8 August 2022, subject to conditions. One of these conditions require the attainment of written support from CECA in relation to the development. To this end, please find attached our request for the endorsement of CECA in accordance with the *Education and Care Services National Law Act 2010* (ACT) and the *Education and Care Services National Regulations*

Should you require any additional information or wish to discuss further, please do not hesitate to contact me

We appreciate your consideration

Kind regards,

From: [Phillipson, Christopher](#)
To: [Brookes, Clare](#)
Cc: [Chand, Avinesh](#)
Subject: RE: Mitchell DA Application
Date: Thursday, 12 January 2023 4:33:41 PM
Attachments: [2023.01.12 Letter CECA to \[REDACTED\].docx](#)

OFFICIAL

Dear Clare

[REDACTED] for your consideration.
[REDACTED]
[REDACTED]
[REDACTED]

Sincerely,
Christopher

Christopher Phillipson | Senior Solicitor | ACT Government Solicitor
☎ 02 6205 0964 | 📠 02 6207 0630 | DX 5602 Canberra | 📧 PO Box 260 Civic Square ACT 2608
www.actgs.act.gov.au

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641997

From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Wednesday, 11 January 2023 5:17 PM
To: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>
Cc: Chand, Avinesh <Avinesh.Chand@act.gov.au>
Subject: RE: Mitchell DA Application

OFFICIAL

Thanks you Christopher

I look forward to hearing from you after you have [REDACTED]

Best Regards

Kind Regards

Clare Brookes (she/her)

A/g Executive Branch Manager, Education and Care Regulation and Support | Education | ACT Government

P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.det.act.gov.au

From: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>
Sent: Wednesday, 11 January 2023 5:15 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: Chand, Avinesh <Avinesh.Chand@act.gov.au>
Subject: RE: Mitchell DA Application

OFFICIAL

Apologies, Clare.

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Sincerely,

Christopher Phillipson | Senior Solicitor | ACT Government Solicitor

☎ 02 6205 0964 | 📠 02 6207 0630 | DX 5602 Canberra | 📧 PO Box 260 Civic Square ACT 2608

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641997

From: Brookes, Clare <Clare.Brookes@act.gov.au>

Sent: Wednesday, 11 January 2023 4:50 PM

To: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>

Cc: Chand, Avinesh <Avinesh.Chand@act.gov.au>

Subject: Mitchell DA Application

OFFICIAL

Good Afternoon Christopher

Just following up on [REDACTED]. We would appreciate your advice.

Kind Regards

Clare Brookes (she/her)

A/g Executive Branch Manager, Education and Care Regulation and Support | Education | ACT Government

P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.det.act.gov.au



By email: [REDACTED]

Dear [REDACTED]

Thank you for your letter of 10 November 2022 about the development application for Block 18 Section 11 Mitchell (DA201733198). Your letter seeks the 'support' of the Childrens Education and Care Authority (**CECA**) and 'confirmation that CECA is prepared to provide approval for the plans for the purposes of satisfying the development application and allowing the development to proceed'.

I note that the Notice of Decision (dated 8 August 2022) to approve the Development Application subject to conditions includes that condition that:

No construction works, with the exception of demolition and excavation, in relation to this development approval is to commence until the lessee/applicant has obtained approval from CECA in accordance with the *Education and Care Services National Law Act (ACT) 2010 (National Law)* and the *Education and Care Services National Regulations (National Regulations)*.

CECA is not able to consider an application for service approval (made by an approved provider under Part 3 of the National Law) nor otherwise indicate that such an application, if made, might be approved, other than in accordance with Part 2.2 ('Service approvals') of the *Education and Care Services National Regulations*. In addition, CECA does not approve an education and care service, or indicate possible approval, without inspecting the completed and fitted-out building. In the case of a multi-storey building, inspection of the proposed premises by ACT Fire and Rescue may also be required. I appreciate the difficulty this may cause and have today written to George Cilliers, Delegate of the ACT Planning and Land Authority, to raise this issue with him. I understand Mr Cilliers may be in touch with you.

For completeness, your letter otherwise confirms that the proponent is not making an application under section 43 of the *Education and Care Services National Law Act (ACT) 2010 (National Law)* and anticipates that such an application will be a separate and subsequent process, undertaken by the future Lessee or operator once the childcare premises have been constructed.

Yours sincerely

Clare Brookes
Senior Director Education Care Regulation and Support
Clare.brookes@act.gov.au
January 2023

From: [Brookes, Clare](#)
To: [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Thursday, 12 January 2023 4:57:00 PM
Attachments: [2023_01_12 Letter CECA to \[REDACTED\].pdf](#)
[image001.gif](#)
[image002.png](#)
[image007.jpg](#)
[image005.jpg](#)
[image006.jpg](#)

OFFICIAL

Dear [REDACTED]

Please find attached response to your enquiry

Kind Regards

Clare Brookes (she/her)
 A/g Executive Branch Manager Education and Care Regulation and Support | Education | ACT Government
 P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
 GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Thursday, 10 November 2022 9:40 AM
To: CECA <CECA@act.gov.au>
Cc: Brookes, Clare <Clare.Brookes@act.gov.au> [REDACTED]
Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Good morning,

[REDACTED] have been engaged by the lessee of Block 18 Section 11 Mitchell to progress an amendment application – made under section 197 of the *Planning and Development Act 2007* – to an approved childcare centre development proposal (DA201733198)

In summary, the following amendments were proposed to address legislative changes made since the original approval:

- reduction number of childcare places;
- reduction of car parking spaces;
- reconfiguration of the ground floor internal layout;
- first floor layout reconfiguration;
- deletion of the second floor; and
- reduction of gross floor area

The amended proposal (DA201733198-S197D) was approved on 8 August 2022, subject to conditions. One of these conditions require the attainment of written support from CECA in relation to the development. To this end, please find attached our request for the endorsement of CECA in accordance with the *Education and Care Services National Law Act 2010* (ACT) and the *Education and Care Services National Regulations*

Should you require any additional information or wish to discuss further, please do not hesitate to contact me

We appreciate your consideration

Kind regards,



By email: [REDACTED]

Dear [REDACTED]

Thank you for your letter of 10 November 2022 about the development application for Block 18 Section 11 Mitchell (DA201733198). Your letter seeks the 'support' of the Children's Education and Care Authority (CECA) and 'confirmation that CECA is prepared to provide approval for the plans for the purposes of satisfying the development application and allowing the development to proceed'.

I note that the Notice of Decision (dated 8 August 2022) to approve the Development Application subject to conditions includes that condition that:

No construction works, with the exception of demolition and excavation, in relation to this development approval is to commence until the lessee/applicant has obtained approval from CECA in accordance with the *Education and Care Services National Law Act (ACT) 2010 (National Law)* and the *Education and Care Services National Regulations (National Regulations)*.

CECA is not able to consider an application for service approval (made by an approved provider under Part 3 of the National Law) nor otherwise indicate that such an application, if made, might be approved, other than in accordance with Part 2.2 ('Service approvals') of the *Education and Care Services National Regulations*. In addition, CECA does not approve an education and care service, or indicate possible approval, without inspecting the completed and fitted-out building. In the case of a multi-storey building, inspection of the proposed premises by ACT Fire and Rescue may also be required. I appreciate the difficulty this may cause and have written to George Cilliers, Delegate of the ACT Planning and Land Authority, to raise this issue with him. I understand Mr Cilliers may be in touch with you.

For completeness, your letter otherwise confirms that the proponent is not making an application under section 43 of the *Education and Care Services National Law Act (ACT) 2010 (National Law)* and anticipates that such an application will be a separate and subsequent process, undertaken by the approved provider once the education and care premises have been constructed.

Yours sincerely



Clare Brookes
Senior Director Education Care Regulation and Support
Clare.brookes@act.gov.au
12 January 2023

Masterman, Tanya

From: Brookes, Clare
Sent: Friday, 27 January 2023 3:59 PM
To: Phillipson, Christopher
Subject: RE: Mitchell DA Application

Follow Up Flag: Follow up
Flag Status: Completed

OFFICIAL

Thank you Christopher

I'll suggest this.

Have a good weekend.

Kind Regards

Clare Brookes (she/her)
Senior Director, Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>
Sent: Friday, 27 January 2023 1:39 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Subject: RE: Mitchell DA Application

OFFICIAL

Christopher Phillipson | Senior Solicitor | ACT Government Solicitor
☎ 02 6205 0964 | 📠 02 6207 0650 | DX 5602 Canberra | 📧 PO Box 260 Civic Square ACT 2608
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From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Friday, 27 January 2023 12:59 PM
To: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>
Subject: RE: Mitchell DA Application

OFFICIAL

Thanks Christopher

I had already written to George, but haven't received any reply yet. I could now send him the letter and follow up again. Sean is back today, so I will discuss how best to approach this with him.

Kind Regards

Clare Brookes (she/her)
Senior Director, Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>
Sent: Friday, 27 January 2023 11:30 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Subject: RE: Mitchell DA Application

OFFICIAL

Hi there

Any reply from

Sincerely,

Christopher

Christopher Phillipson | Senior Solicitor | ACT Government Solicitor
☎ 02 6205 0964 | 📠 02 6207 0650 | DX 5602 Canberra | 📧 PO Box 260 Civic Square ACT 2608
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641997

From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Friday, 27 January 2023 11:23 AM
To: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>
Subject: RE: Mitchell DA Application

OFFICIAL

Good Morning Christopher

Yes I sent it on 12 January.

[Redacted]

Kind Regards

Clare Brookes (she/her)
A/g Executive Branch Manager, Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>
Sent: Friday, 27 January 2023 9:40 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Subject: FW: Mitchell DA Application

OFFICIAL

Dear Clare

Could you please let me know if the attached letter was sent to

[Redacted]

[Redacted]

Sincerely,

Christopher Phillipson | Senior Solicitor | ACT Government Solicitor
☎ 02 6205 0964 | 📠 02 6207 0630 | DX 5602 Canberra | 📧 PO Box 260 Civic Square ACT 2608
www.actgs.act.gov.au

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641997

From: Phillipson, Christopher
Sent: Thursday, 12 January 2023 4:34 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>

Cc: Chand, Avinesh <Avinesh.Chand@act.gov.au>
Subject: RE: Mitchell DA Application

OFFICIAL

Dear Clare

[REDACTED] for your consideration.

Sincerely,

Christopher

Christopher Phillipson | Senior Solicitor | ACT Government Solicitor
☎ 02 6205 0964 | 📠 02 6207 0630 | DX 5602 Canberra | 📧 PO Box 260 Civic Square ACT 2608
www.actgs.act.gov.au

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641997

From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Wednesday, 11 January 2023 5:17 PM
To: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>
Cc: Chand, Avinesh <Avinesh.Chand@act.gov.au>
Subject: RE: Mitchell DA Application

OFFICIAL

Thanks you Christopher

I look forward to hearing from you after you have [REDACTED]

Best Regards

Kind Regards

Clare Brookes (she/her)
A/g Executive Branch Manager, Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>
Sent: Wednesday, 11 January 2023 5:15 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>

Cc: Chand, Avinesh <Avinesh.Chand@act.gov.au>
Subject: RE: Mitchell DA Application

OFFICIAL

Apologies, Clare.

Sincerely,

Christopher Phillipson | Senior Solicitor | ACT Government Solicitor
☎ 02 6205 0964 | 📠 02 6207 0630 | DX 5602 Canberra | 📮 PO Box 260 Civic Square ACT 2608
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641997

From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Wednesday, 11 January 2023 4:50 PM
To: Phillipson, Christopher <Christopher.Phillipson@act.gov.au>
Cc: Chand, Avinesh <Avinesh.Chand@act.gov.au>
Subject: Mitchell DA Application

OFFICIAL

Good Afternoon Christopher

Just following up on our proposed response to [REDACTED] We would appreciate your advice.

Kind Regards

Clare Brookes (she/her)
A/g Executive Branch Manager, Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [Brookes, Clare](#)
To: [Power, David](#); [Hudson, Lyndell \(Health\)](#)
Subject: FW: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Wednesday, 29 March 2023 5:36:00 PM
Attachments: [image005.gif](#)
[image006.png](#)
[image008.png](#)
[image009.jpg](#)
[image010.gif](#)
[image011.png](#)
[image013.jpg](#)
[MITC011018 Letter to CECA - March 2023.pdf](#)
[image001.jpg](#)
[image002.jpg](#)

OFFICIAL

Good Afternoon David/Lyndell

I am writing to request your assistance with a Development Application we have received for an early childhood education and care service in Mitchell

We have previously discussed our concerns about this proposal with your teams and the potential environmental/health risks which may be posed to children attending a service in this location, particularly as quality early childhood programs involve extensive periods of outdoor play Robin Brown and Andrew Stedman have both been involved in previous discussions

I would very much appreciate your advice on the response to these issues provided by [redacted] (attached) Our concerns relate not only to the risk posed by the current surrounding businesses, but for the potential for future industrial operations in this area

Please let me know if it would be helpful to meet to discuss our concerns I have good availability on Friday if that would be convenient

Kind Regards

Clare Brookes (she/her)
Senior Director Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [redacted]
Sent: Friday, 24 March 2023 11:58 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: CECA <CECA@act.gov.au>; [redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Hi Clare,

Further to your correspondence below and as discussed recently, the Notice of Decision for DA201733198-S197D has been corrected by EPSDD so as to enable the proponent to satisfy the condition of approval related to CECA approval The proponent is now required to “provide an endorsement from Children s Education & Care Assurance (CECA) addressing CECA requirements”, similarly to the recent project at Block 5 Section 120 Holt (DA202139485) Please find the Formal Correction Notice, dated 1 March 2023, attached

To progress the attainment of CECA support, please find attached our formal request for endorsement

Many thanks for your assistance

Warm regards,



From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Thursday, 12 January 2023 4 57 PM
To: [redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Dear [redacted]

Please find attached response to your enquiry

Kind Regards

Clare Brookes (she/her)
A/g Executive Branch Manager Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Thursday, 10 November 2022 9:40 AM
To: CECA <CECA@act.gov.au>
Cc: Brookes, Clare <Clare.Brookes@act.gov.au> [REDACTED]
Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Good morning,

[REDACTED] have been engaged by the lessee of Block 18 Section 11 Mitchell to progress an amendment application – made under section 197 of the *Planning and Development Act 2007* – to an approved childcare centre development proposal (DA201733198)

In summary, the following amendments were proposed to address legislative changes made since the original approval:


- reduction number of childcare places;
- reduction of car parking spaces;
- reconfiguration of the ground floor internal layout;
- first floor layout reconfiguration;
- deletion of the second floor; and
- reduction of gross floor area

The amended proposal (DA201733198-S197D) was approved on 8 August 2022, subject to conditions. One of these conditions require the attainment of written support from CECA in relation to the development. To this end, please find attached our request for the endorsement of CECA in accordance with the *Education and Care Services National Law Act 2010* (ACT) and the *Education and Care Services National Regulations*

Should you require any additional information or wish to discuss further, please do not hesitate to contact me

We appreciate your consideration

Kind regards,



24 March 2023

Early Childhood Policy and Regulation
Children's Education and Care Assurance
25 Mulley Street
Holder ACT 2611

via email: CECA@act.gov.au

Dear Sir/Madam,

RE: DA201733198 – CHILDREN'S EDUCATION AND CARE ENDORSEMENT TO ADDRESS CONDITION OF DEVELOPMENT APPROVAL FOR CHILDCARE CENTRE ON BLOCK 18 SECTION 11 MITCHELL

This letter has been prepared by [REDACTED] on behalf of the proponent, [REDACTED], regarding approved amendments to DA201733198. The proponent is required to obtain written support from Children's Education and Care Assurance as a condition of development approval.

[REDACTED] have been assisting the Lessee for several years in relation to the development of the land at the corner of Darling and Heffernan Streets, Mitchell – formally identified as Block 18 Section 11. DA201733198 was approved in May 2018 for the construction of a new 3 storey childcare centre; new driveways; car park and drop off area; landscaping; and associated site works.

Since this approval, legislative framework has changed, and it is unlikely that accreditation and service approval could be attained for a 3 storey centre. Furthermore, the National Construction Code was recently amended and there were changes to the fire safety measures for multistorey childcare centres. Accordingly, the proponent sought approval for amendments to development as approved.

To this end, DA201733198-S197D was lodged for assessment by the Environment, Planning and Sustainable Development Directorate (EPSDD) on 5 April 2022. Conditional approval was granted by way of Notice of Decision (NOD) dated 8 August 2022. This NOD approved, subject to conditions the:

- o reduction of childcare places from 130 to 110;
- o reduction of car parking spaces from 28 to 25;
- o reconfiguration of the ground floor internal layout;
- o first floor layout reconfiguration and increase in gross floor area, and associated alteration to building envelope;
- o deletion of the second floor and associated alteration to building envelope and roof form; and
- o 6 reduction of total gross floor area of development from 1,087m² to 1,006m².

During assessment of DA201733198-S197D, the proposal was referred to Children's Education and Care Assurance

(CECA) for comment. Advice was received from CECA stating that the proposal was not supported. As such, EPSDD has imposed a condition of approval requiring the proponent to obtain the support of CECA in relation to the proposal.

This correspondence is further to our previous letter, dated, 10 November 2022, in relation to which the following advice was received from CECA on 12 January 2023:

CECA is not able to consider an application for service approval (made by an approved provider under Part 3 of the National Law) nor otherwise indicate that such an application, if made, might be approved, other than in accordance with Part 2.2 ('Service approvals') of the Education and Care Services National Regulations. In addition, CECA does not approve an education and care service, or indicate possible approval, without inspecting the completed and fitted-out building. In the case of a multi-storey building, inspection of the proposed premises by ACT Fire and Rescue may also be required.

As a consequence of this advice, the relevant condition of approval has been amended by way of a Formal Correction Notice, dated 1 March 2023.

The pertinent development approval condition; advisory note; and advice, as formally corrected, are reproduced in **Table 1**, along with consideration towards each matter, to advance CECA endorsement of the facility.

The condition of development approval states that:

1. CHILDREN'S EDUCATION AND CARE ASSURANCE (CECA) – WORKS NOT TO COMMENCE

- a) *No construction works, with the exception of demolition and excavation, in relation to this development approval is to commence until the lessee/applicant has provided an endorsement from Children's Education & Care Assurance (CECA) addressing CECA requirements.*
- b) *The lessee/applicant must address and comply with any additional conditions imposed by CECA.*

Note: Any substantial changes to the development required for compliance with CECA will need to be submitted for the consideration of the planning and land authority with an application to amend the approval under Section 197 of the Planning and Development Act 2007.

We therefore write to you seek your confirmation as to what matters are required so that construction can be commenced. Please note that the proponent is not making an application under section 43 of the *National Law* at this time. Such an application will be a separate and subsequent process, undertaken by the future Lessee or operator once the childcare premises have been constructed. Instead, confirmation is sought that CECA it is prepared to provide approval for the plans for the purposes of satisfying the development application condition and allowing the development to proceed.

In the first instance, please advise in writing (as soon as possible or within 7 days) if you are prepared to provide approval on this basis. If you are not prepared to provide such approval, it is necessary to outline why and state the reasons, so the proponent may consider its position, including any appeal action.

Table 1: CECA matters incorporated into the NOD for DA201733198-S197D

Condition	Response
NOD dated 5 August 2022	
Part A – Conditions of Approval	
A1. Children’s Education and Care Assurance (CECA) – Works Not to Commence	
<p><u>A1a).</u> No construction works, with the exception of demolition and excavation, in relation to this development approval is to commence until the lessee/applicant has provided an endorsement from Children’s Education & Care Assurance (CECA) addressing CECA requirements.</p>	<p>The proponent is unable to undertake any work on the site, aside from demolition and excavation, until written support from CECA has been attained. Please refer to the following commentary which addresses the comments and advice received from CECA during the referral of DA201733198-S197D.</p>
<p><u>A1b).</u> The lessee/applicant must address and comply with any additional conditions imposed by CECA.</p>	<p>It is appreciated that the Lessee and future operator must make a subsequent application under section 43 of the <i>National Law</i> for the premises, which this document is not.</p>
Part A – Advisory Notes	
1. Education and Care Services	
<p>The applicant is advised that an approved provider must obtain service approval in order to operate an education and/or care service on the subject site under the Education and Care Services National Law 2010 (the National Law).</p> <p>The applicant is advised that any proposed provider should contact the relevant Regulatory Authority for the ACT (Director General, Education Directorate) as soon as possible.</p> <p>The applicant is advised that s 49(1)(a) of the National Law provides that "the Regulatory Authority must refuse to grant a service approval if - (a) the Regulatory Authority is satisfied that the service, if permitted to operate, would constitute an unacceptable risk to the safety, health or wellbeing of children who would be educated or cared for by the education and care service."</p> <p>The statements from the Environment Protection Authority and Health Protection Service mentioned at E6 and E7 of the Original decision dated 21 May 2018, appear to raise issues about risks to the safety, health or wellbeing of children.</p>	<p>On 30 April 2018, the Health Protection Service provided the following comments related to health, safety and wellbeing risks:</p> <ul style="list-style-type: none"> ○ The provided Report 'Ambient Air Quality Monitoring Report — Mitchell, ACT (Pacific Environment, 2018)' references a report undertaken on behalf of the Government Solicitors Office in relation to the refusal of DA 201528763 titled 'Review of Health Issues — Proposed Childcare Centre, Block 18 Section 11 Mitchell ACT ([redacted] 2017)'. The Pacific Environment, 2018 report specifies the [redacted] 2017 report as the basis for its investigation. The HPS was not provided the report and is unable to assess whether cumulatively a comprehensive air quality assessment has been undertaken. The HPS requests the EnRisk, 2017 report be provided to the HPS for assessment. ○ The HPS considers that the provided 'Ambient Air Quality Monitoring Report — Mitchell, ACT (Pacific Environment, 2018)' report does not adequately discuss the potential expansion of permitted activities by surrounding businesses, and future land uses in the surrounding area, which may pose a health risk to vulnerable populations such as children. The HPS requests this report be amended to discuss the above.

Condition**Response**

- The HPS considers that the protection of vulnerable populations from known and unknown pollutants from current and future neighbouring industrial uses cannot be assured whilst the development is proposed within an industrial zone. Therefore the HPS does not support the proposed development on this basis.

On 27 April 2018, the Environment Protection Authority provided the following comments related to potential risks to health, safety and wellbeing:

- The air quality monitoring report titled "Ambient Air Quality Monitoring Report – Mitchell, ACT", dated 9 February 2018, is not sufficient to demonstrate the site is suitable for the proposed use from an air quality perspective. The Report provides limited commentary on the surrounding activities, does not assess uses permitted by the zoning and failed to identify existing risks in the immediate area that have the potential to adversely impact the health of occupants including children at the centre.
- An Air Quality Impact Assessment (AQIA) report should be prepared that includes an assessment of the permitted uses in the zone and potential sources of pollution impacting the subject site. The air quality monitoring report does not adequately refer to activities and potential pollutants and odours from neighbouring sites such as the landscape supply business to the north on block 44 section 7 Mitchell. The business supplies potting mix and other landscape supplies which are likely at times to emit odours and human pathogens such as Legionella Longbeachae which could be present in dust that can be released into the surrounding environment when handling these products is carried out on a scale that utilises large loaders and dump trucks. The landscape supply block is 17 metres from the subject site.
- The DA and AQIA report should be referred to the Health Protection Service for their consideration

Condition	Response
	<p>It is noted that consideration of surrounding land use is a matter reflected in planning controls applicable to the proposal. The approval of the amended proposal by EPSDD is deemed to evidence compliance with the relevant planning provisions and suitability of the development with those uses permissible on industrial lands.</p> <p>With reference to the above concerns, please see the Human Health Risk Assessment prepared by [REDACTED] included in Attachment 2. This document includes an Air Quality Monitoring Report, prepared by [REDACTED]. In summary, it is concluded that “air quality in the vicinity of the site would not be significantly different ... to other areas of Canberra”.</p>

Part C – Entity Advice

C1. Children’s Education and Care Assurance (CECA)

<p>In order to provide education and care to children under the National Quality Framework there are two aspects to be considered – compliance with the legislation and, meeting the level of quality in the National Quality Standard.</p> <ol style="list-style-type: none"> 1. http://acecqa.gov.au/national-quality-framework/national-law-and-regulations 2. http://acecqa.gov.au/national-quality-framework/the-national-quality-standard 	<p>This advice is noted.</p> <p>Being a property developer, the proponent is not party to the CECA approval process, which is typically undertaken by the Lessee or future operator.</p>
<p>It is important to note that there is a very rigorous approvals process for both Provider Approval and Service Approval under the National Law. It is not an automatic approval on receipt of an application; an interview and written test regarding knowledge of the National Quality Framework must be attended. There is also a rigorous process for approval to claim Child Care Subsidy from the Australian Government under the Family Assistance Law.</p>	<p>This advice is noted.</p>
<p>CECA holds serious concerns about the potential environmental risks associated with any education and care service on this site.</p>	<p>Further to the response provided above, it is noted that DA201733198-S197D was referred to the ACT Health Protection Service (HPS); and the Environment Protection Authority (EPA) during assessment. Per the Notice of Decision dated 8 August 2022, a condition has been imposed obliging compliance with ACT HPS requirements. Despite the receipt of advice from the EPA that the proposal was not supported, this information is not incorporated into the decision of 8 August 2022, due to inconsistency with the determination of the ACT Civil and Administrative Tribunal (ACAT) in matter AT14/2019.</p>

Condition	Response
	<p>In AT63/2016, ACAT found that “with appropriate steps being taken in design and construction of a facility built on the land a safe environment can be provided. It is unlikely ... that any permitted ... use of the land in the immediate area will ... have a deleterious effect on the proposed use”. Additionally, “there was no indication of air quality issues at the site although further testing should be carried out to provide further data”.</p> <p>Please refer to the Human Health Risk Assessment prepared by EnRisks included in Attachment 2. This document includes an Air Quality Monitoring Report, prepared by [REDACTED]. Summarily, it is concluded that “air quality in the vicinity of the site would not be significantly ... worse than other areas of Canberra”.</p>
<p>CECA would have concerns regarding the lack of natural light, particularly in relation to the kitchen, waiting area, office and stairwell.</p>	<p>It is noted that fenestration is present in the Kitchen and Waiting Area, facing west, which overlook the development car parking and entrance to the building; thereby allowing for surveillance of the surrounding area, pursuant to the Crime Prevention Through Environmental Design General Code.</p> <p>Notwithstanding, additional windows have been incorporated into the design of the childcare centre – in particular, the Office and Stairwell – to deliver more significant solar penetration.</p> <p>Please refer to the architectural plans included in Attachment 1.</p>
<p>Full dimensions for each room would be required. Sleeping areas (quiet space), storage and door swings could not be included in the calculations for unencumbered space. The requirement is 3.25 meters square unencumbered indoor space per child.</p>	<p>Please refer to the architectural plans included in Attachment 1.</p> <p>Dimensions are now identified for the primary areas of the approved centre. Further information is to be incorporated into these plans at the detailed design stage. However, 3.25 square metres of unencumbered indoor space is to be allowed for each child.</p>
<p>Full dimension for cot rooms would be required to establish if the required number of cots can be accommodated. An initial review indicates that the cot rooms would only accommodate five cots each, given the size of cots (min 1100mm x 495mm) and needs for 30cm gaps between each cot for access and hygiene.</p>	<p>Please refer to the architectural plans included in Attachment 1.</p> <p>The area of each proposed cot room has been slightly increased to ensure the necessary spacing can be achieved. Additional information is to be incorporated into these plans at the detailed design stage.</p>
<p>CECA would require a cot to be allocated for each infant. Sharing of cots is not supported by CECA as it does not meet the sleeping needs of children and increases the risk of the spread of infectious diseases, particularly given the current COVID-19 pandemic. The number of nursery places would be limited to the number of cots.</p>	<p>This advice is noted.</p>

Condition	Response
CECA would have concerns about educators' ability to safely evacuation of the proposed number of infants from the first floor in the event of an emergency.	It is understood that the preparation of suitable emergency procedures is required as part of the CECA approval process, in accordance with National Regulations 97 and 168.
It would be recommended that children toilet 1 and the cot room closet to the outdoor play area were switched in order to ensure appropriate supervision and support is provided to educators when nappy changing. Being within sight and sound of the main cohort of children means that the educators can communicate and support each other during busy times	Please refer to the architectural plans included in Attachment 1 . The Level 1 internal configuration has been updated to address this matter, ensuring adequate supervision of children and support for occupied educators.
Concerns about lack of natural light in 45m ² Toddler Room and the quiet area in Group 4 Room. Skylights would increase the natural light.	Please refer to the architectural plans included in Attachment 1 . Internal layout revisions have been made to deliver a wider Toddler Room. This amendment, in conjunction with increased fenestration, is considered to support adequate access to natural light.
It would be recommended swapping rooms 4 and 5 with 6 and 7 so that younger children are grouped together and age appropriate outdoor space is immediately accessible to each group.	Please refer to the architectural plans included in Attachment 1 . The first floor internal configuration has been updated to address this matter.
It would be recommended to reduce the amount of pathing and replace with natural elements and surfaces. It would be recommended to divide the outdoor space and introduce age appropriate features in each area. Shading would also be required in each area.	This advice is noted. The proponent will engage with potential operators in relation to this matter.
CECA has particular concerns about the proximity of existing building to the proposed service, and particularly the outdoor area. Further details of these premises and their operations would be required in order to assess any environmental considerations.	In AT63/2016, ACAT determined that, for the purposes of section 120 of the <i>Planning and Development Act 2007</i> , the site is suitable for the development proposed. Please refer to the Human Health Risk Assessment prepared by [redacted] included in Attachment 2 .
CECA is aware of concerns from both the Environment Protection Authority and Health Protection Service, regarding potential risks of harm to children from soil and air contamination at this site, relating to industrial activities in the surrounding area. As a result CECA has serious concerns about Block 18, Section 11 Mitchell's suitability as a site and location for the development of an education and care service.	Please see the commentary provided above , as well as Attachment 2 .

Condition	Response
<p>CECA also holds concern regarding the risk associated with the two storey nature of this building, particular when non-ambulant children are cared for above the ground floor. Education and care services situated above ground floor pose an inherent risk to children’s health and safety during emergency evacuations. This is further increased by having all auxiliary staff and educators not working directly with children located in either the office, kitchen or staff room on the lower floor. It is unrealistic for these staff to be available to assist non-ambulant children to negotiate stairs and evacuate safety, when they are moving against the flow of children and educators evacuating during an emergency.</p>	<p>Please note, the amended development proposal sought a reduction in building height from three storeys to two storeys. It is understood that the preparation of suitable emergency procedures is required as part of the CECA approval process, in accordance with <i>National Regulations 97 and 168</i>.</p>
<p>It is noted that the plans have three rooms with the inclusion of cot rooms. Given that cots are provided for children under 2 years of age it is likely that the provider would attempt to have as many under two children as cots available, which as per the building plan is 30 cots. There are a further six children allocated to Group 3 as per the identified space. Given that there is a 1:4 ratio for these age groups it is greatly concerning how 9 educators could safely evacuate 36 under 2 year-old children from a first floor building. A provider would need to increase the number of educators per group and reduce the number of children under 2 years old to reduce the level of risk.</p>	<p>It is likely that only a portion of the cots proposed will be utilised by non-ambulant children. It is further appreciated that the preparation of suitable emergency procedures is required as part of the CECA approval process, in accordance with <i>National Regulations 97 and 168</i>.</p>

We look forward to receipt of your written support in due course (or in any case within 14 days of receipt) in respect to the condition under DA201733198-S197D. We are available to meet with CECA at any time should you wish to discuss these matters in any additional detail. Should you have any questions or require anything further, please contact our office on [redacted].

This letter is for the use only of the party to whom it is addressed and for no other parties. No responsibility is accepted to any third party who may use or rely on the whole, or any part, of the content of this letter.

Yours sincerely,

[Redacted signature block]

List of Attachments

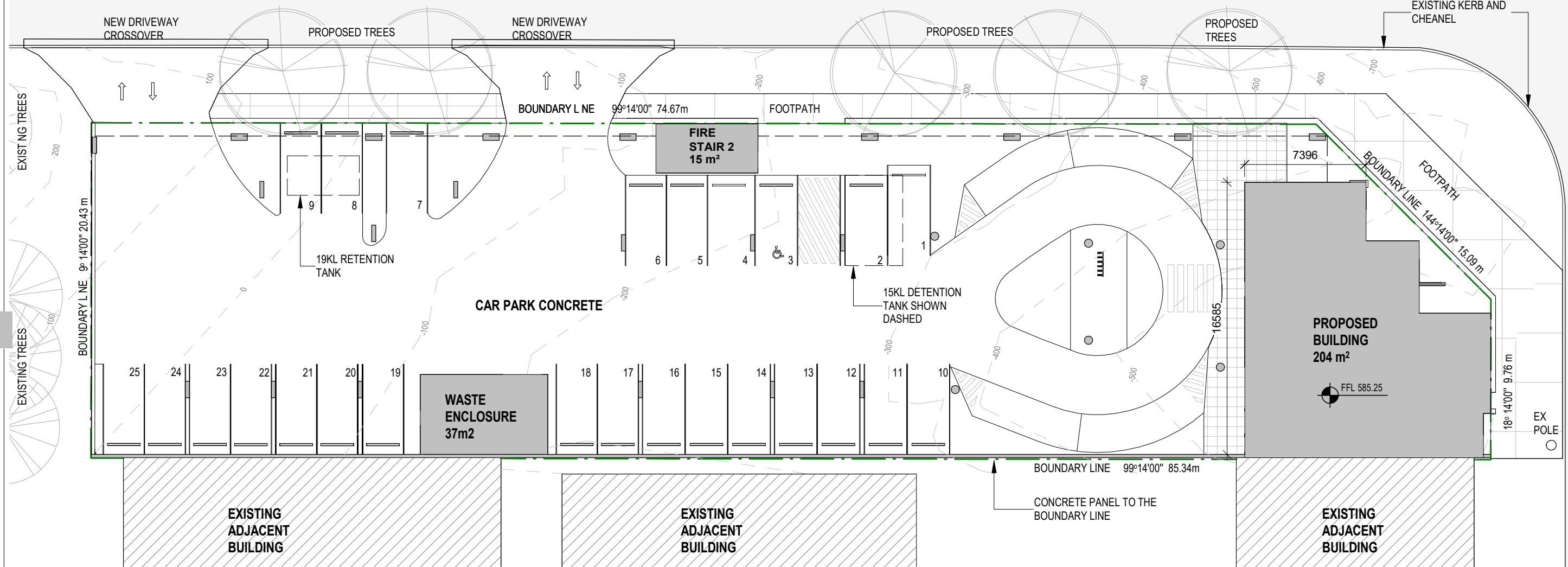
- Attachment 1:** Architectural Plan Set prepared by [REDACTED]
Attachment 2: Human Health Risk Assessment, prepared by [REDACTED]
Attachment 3: Formal Correction Notice for DA201733198 S197D

Attachment 1: Architectural Plan Set prepared by

The subsequent pages of Attachment 1 include the following plans:

- SK101[D] SITE PLAN
- SK102[D] GROUND FLOOR PLAN
- SK103[E] FIRST FLOOR PLAN
- SK155[E] ROOF PLAN
- SK200[D] ELEVATIONS
- SK201[D] ELEVATIONS
- SK300[E] SECTION A
- SK301[E] SECTION B
- SK302[E] SECTION C
- SK800[D] PERSPECTIVES
- SK801[D] PERSPECTIVES

HEFFERNAN STREET



1 SITE PLAN
1 : 250

D	PLAN REVIEW	20/09/22
C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

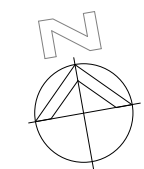
SITE NOTES:

- ALL LANDSCAPING (INCLUDING ROOT SYSTEM), PAVING, FENCING ETC TO BE ALLOW FOR NEW CARPARK AND BUILDING WORKS AS INDICATE ON THE SITE PLAN.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH CIVIL ENGINEER'S DOCUMENTATION
 - REFER TO SERVICES DOCUMENTS FOR LOCATION AND CO-ORDINATION OF KNOWN EXISTING IN GROUND SERVICES
 - REFER TO SPECIFICATION FOR DEMOLITION WORK.
- CARPARKING**
- SET OUT AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATION, NT PLANNING SCHEME AND AS2890.1-2004
 - PROVIDE WHITE PAINTED LINEMARKING BETWEEN PARKING SPACES AS SHOWN, SINGLE LINE 80 - 100mm WIDE
 - PROVIDE PRECAST CONCRETE WHEELSTOPS TO ALL CARPARKS
 - ACCESSIBLE CARPARKING SPACE SYMBOL 800 - 1000mm HEIGHT
 - DEMARCATION FOR SHARED SPACE ADJACENT ACCESSIBLE CARPARK PROVIDE LINEMARKING AS SHOWN, WHITE DIAGONAL STRIPES 150 - 200mm WIDE, 200 - 300mm WIDE BETWEEN

BUILDING AREA	
GROUND FLOOR BUILT AREA	256 m²
FIRST FLOOR BUILT AREA	747 m²
OUTDOOR AREA	
FIRST FLOOR BUILT AREA	817 m²
SITE AREA	
SITE AREA	1686 m²

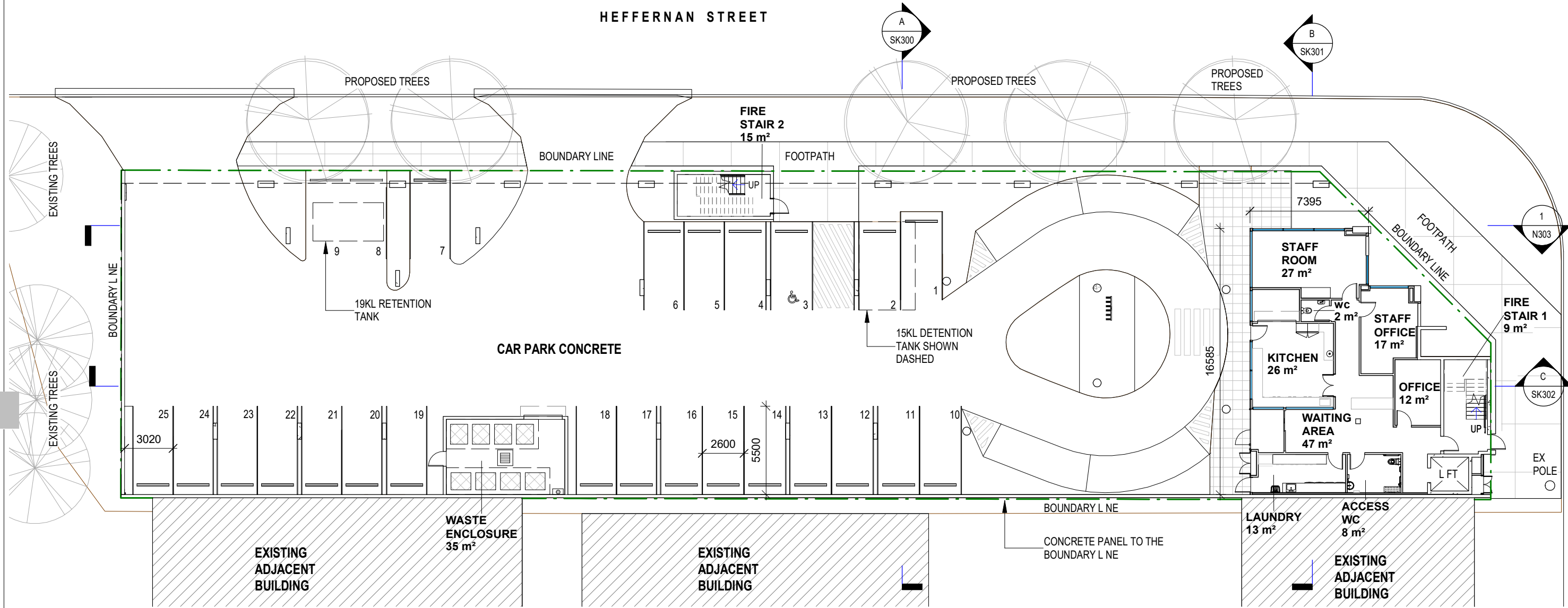
MITCHELL CHILDCARE CENTRE
BLOCK 18, SECTION 11 CORNER DARLING & HEFFERNAN STREET, MITCHELL, ACT

SITE PLAN			
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		1 : 250	A3
Review	Date	Project Leader	Date
PRELIMINARY		Drawing Number	Amtd
		SK101	D



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HEFFERNAN STREET



1 GROUND FLOOR PLAN
1 : 250

D	REVISION CLOUDS	10/02/22
C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

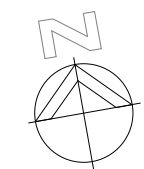
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GROUND FLOOR PLAN

Drawn	Date	Scale	Project Number
Review	Date	Project Leader	Date
PREL MINARY		Drawing Number	Amtd
		SK102	D



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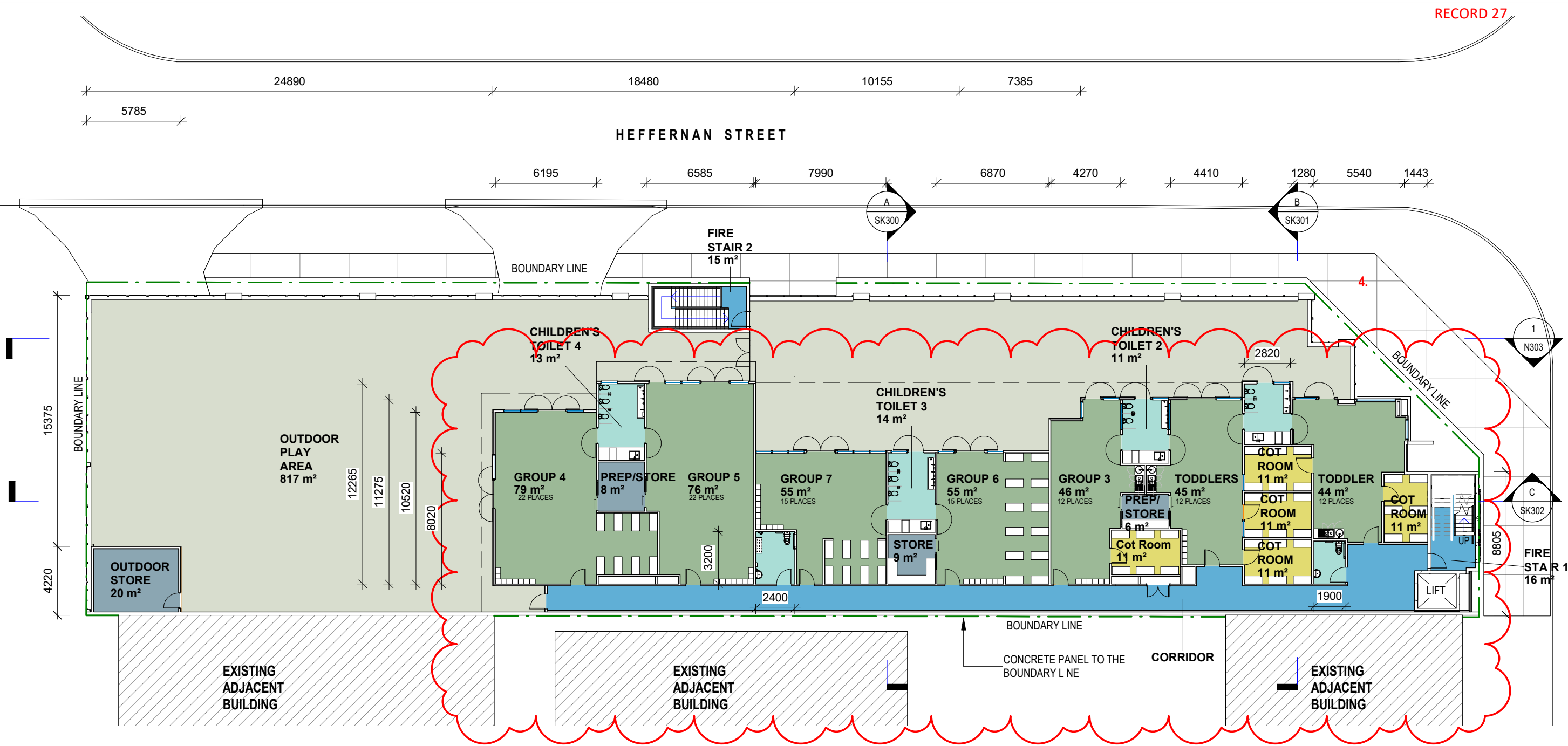
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HEFFERNAN STREET



3 FIRST FLOOR PLAN
1 : 250

- circulation
- cot room
- group
- outdoor
- store
- toilet

The service premises must have at least seven (7) square metres of unencumbered outdoor space for each child being educated and cared for at the service.

The service premises must have at least 3.25 square metres of unencumbered indoor space for each child being educated and cared for at the service.

E	PLAN REVIEW	13/09/22
D	REVISION CLOUDS	10/02/22
C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

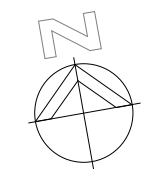
Rev	Amendment	Date	Init

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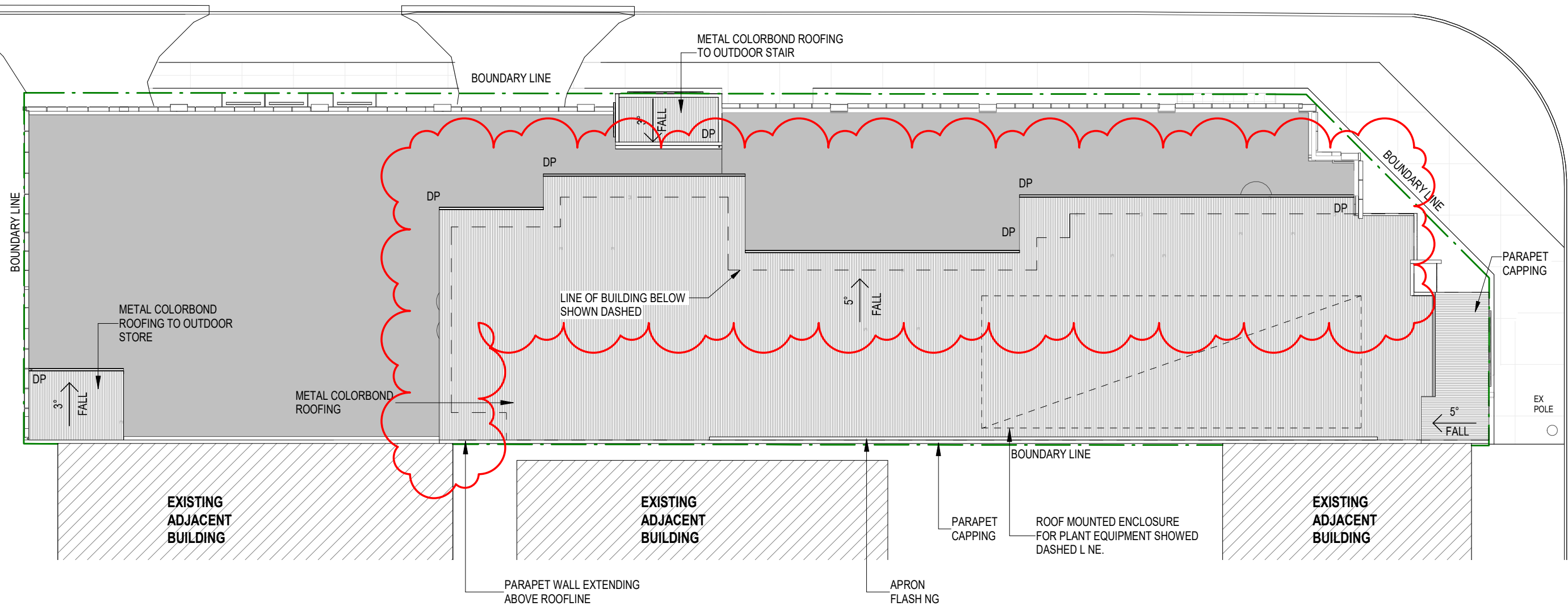
FIRST FLOOR PLAN

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Review	Date	Project Leader	Date
PREL MINARY		Drawing Number	Amtd
		SK103	E



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HEFFERNAN STREET



1 ROOF PLAN
1 : 250

E	PLAN REVIEW	20/09/22
D	REVISION CLOUDS	10/02/22
C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

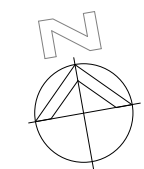
Rev	Amendment	Date	Init

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ROOF PLAN

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Review	Date	Project Leader	Date
PRELIMINARY		Drawing Number	Amnt
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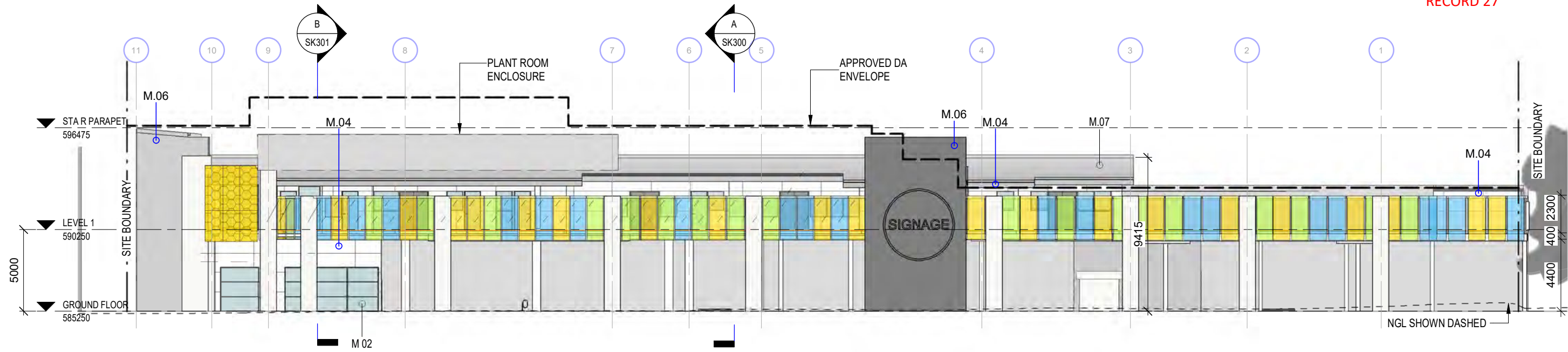
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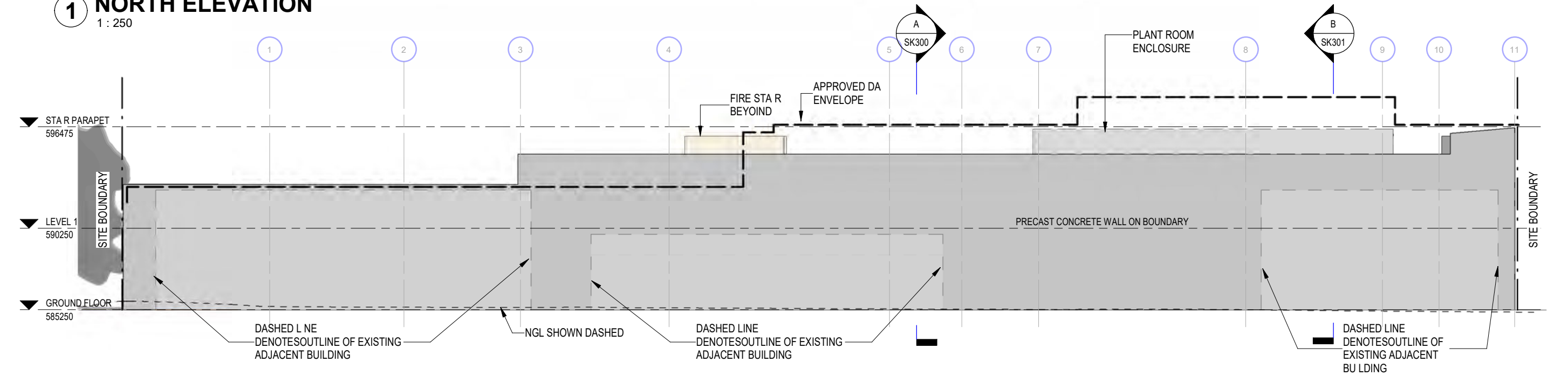
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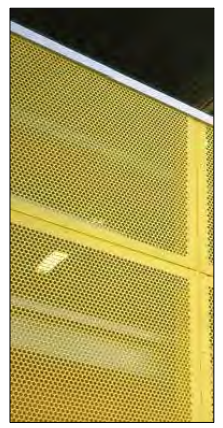
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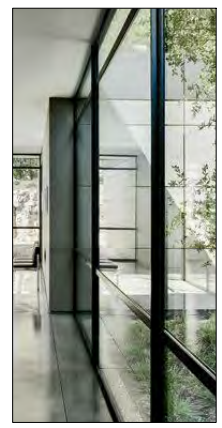
1 NORTH ELEVATION
1 : 250



2 SOUTH ELEVATION
1 : 250



M 01 PERFORATED STEEL SCREEN. COLOUR - TO MATCH TRANSPARENT CLADDING (M05)



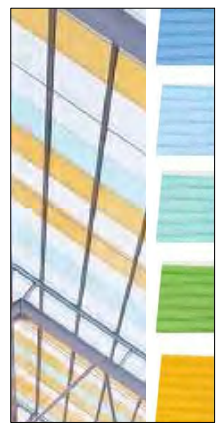
M 02 CLEAR GLAZING IN POWDERCOATED ALUMINUM FRAMES COLOUR - COLORBOND MONUMENT



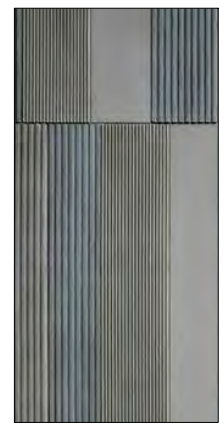
M.03 HEKA HOOD HH900 MM WIDE COLOUR - COLORBOND MONUMENT



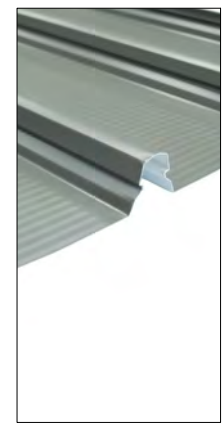
M.04 CEMINTEL BARESTONE EXTERNAL CLADDING COLOUR - CARESTONE



M 05 TRANSPARENT COLOURED EXTERNAL CLADDING COLOUR - AS SHOWN INDICATIVELY ON ELEVATIONS



M 06 TEXTURED PRECAST CONCRETE PANELS



M.07 KLIP LOK STEEL ROOFING COLOUR - SHALE GREY

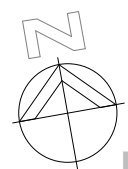
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C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

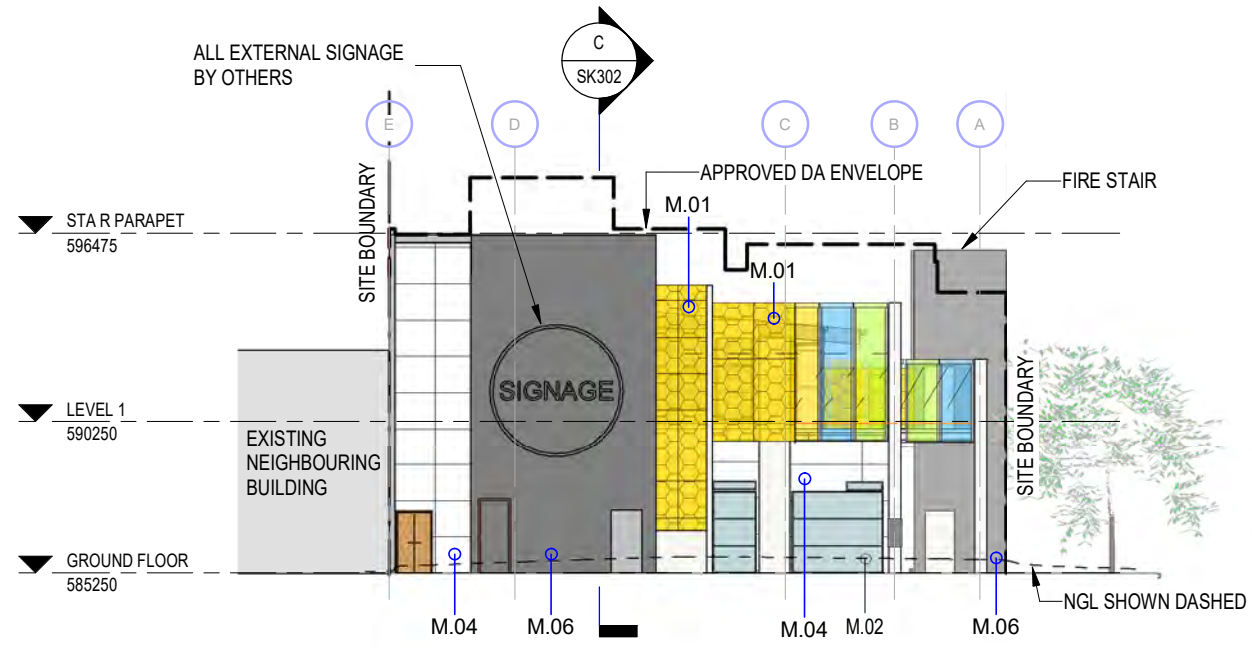
Rev	Amendment	Date	Init

MITCHELL CHILDCARE CENTRE
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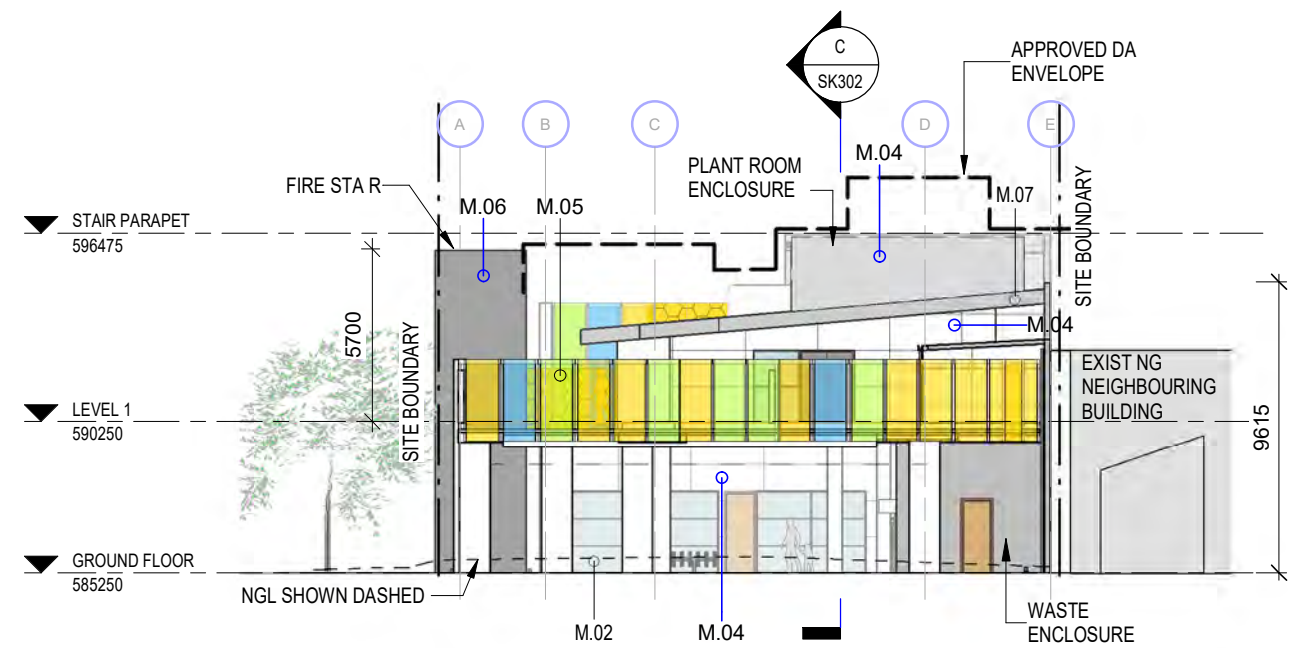
ELEVATIONS

Drawn	Date	Scale	Project Number
		As indicated	A3
Review	Date	Project Leader	Date
PRELIMINARY		Drawing Number	Amtd
		SK200	D





1 EAST ELEVATION
1 : 250



2 WEST ELEVATION
1 : 250

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M.01 PERFORATED STEEL SCREEN. COLOUR - TO MATCH TRANSPARENT CLADDING (M05)



M.02 CLEAR GLAZING POWDERCOATED ALUMINIUM FRAMES COLOUR - COLORBOND MONUMENT



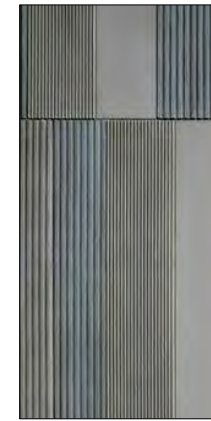
M.03 HEKA HOOD HH900 MM W DE COLOUR - COLORBOND MONUMENT



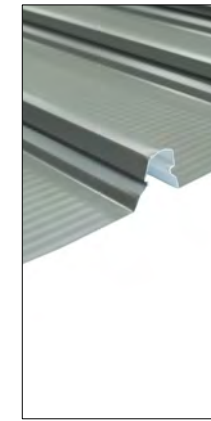
M.04 CEMENTED BARESTONE EXTERNAL CLADDING COLOUR - CARESTONE



M.05 TRANSPARENT COLOURED EXTERNAL CLADDING COLOUR - AS SHOWN INDICATIVELY ON ELEVATIONS



M.06 TEXTURED PRECAST CONCRETE PANELS



M.07 KLIP LOK STEEL ROOFING COLOUR - SHALE GREY

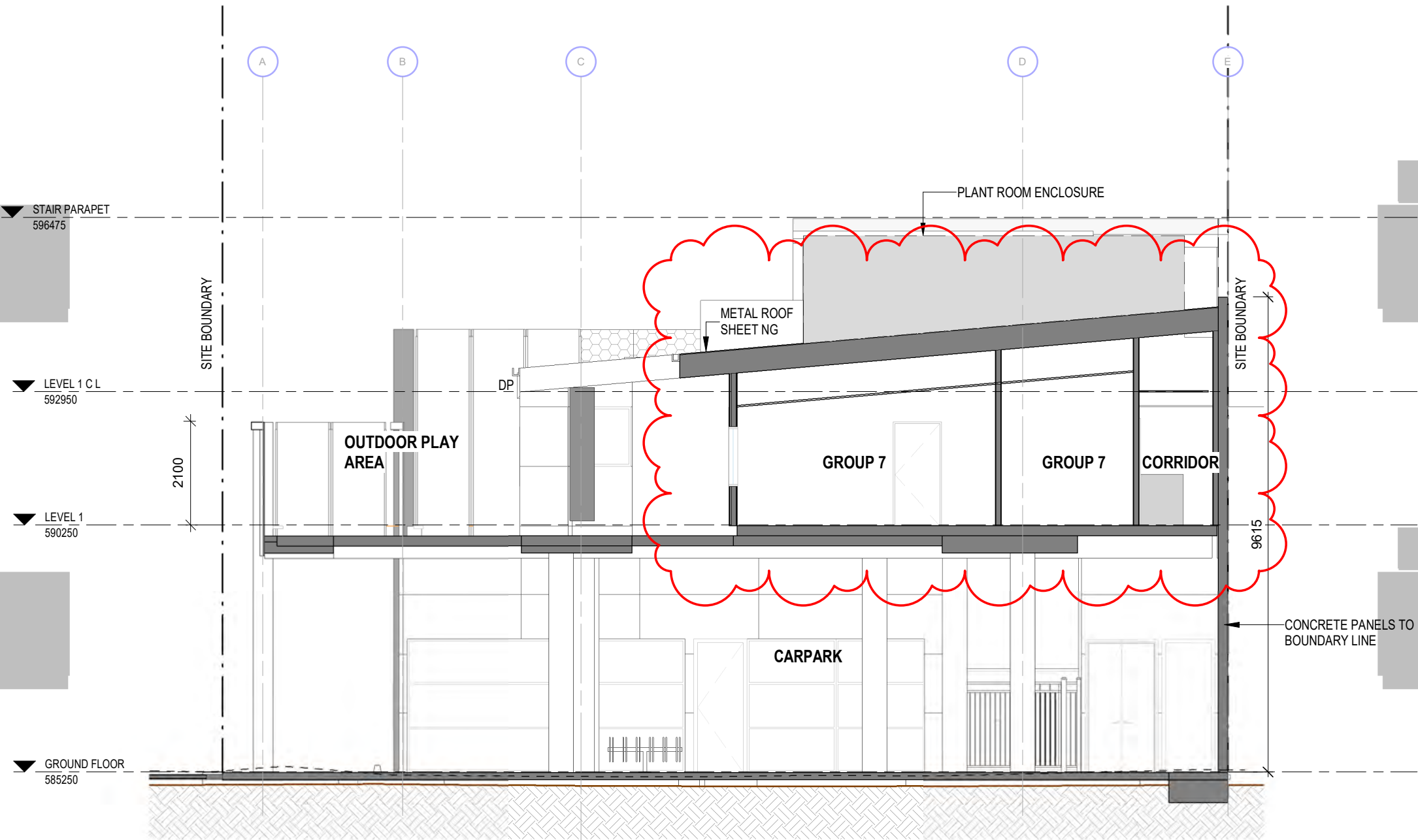
D	REVISION CLOUDS	10/02/22
C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

Rev	Amendment	Date	Init
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ELEVATIONS			
Drawn	Date	Scale	Project Number
		As indicated	A3
Review	Date	Project Leader	Date
PRELIMINARY		Drawing Number	Amtd
		SK201	D



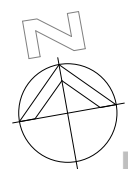
A SECTION A
1 : 100

E	PLAN REVIEW	20/09/22
D	REVISION CLOUDS	10/02/22
C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

Rev	Amendment	Date	Init

MITCHELL CHILDCARE CENTRE
BLOCK 18, SECTION 11 CORNER DARLING &
HEFFERNAN STREET, MITCHELL, ACT

SECTION A			
Drawn	Date	Scale	Project Number
		1 : 100	A3 A17041
Review	Date	Project Leader	Date
PREL MINARY		Drawing Number	Amtd
		SK300	E



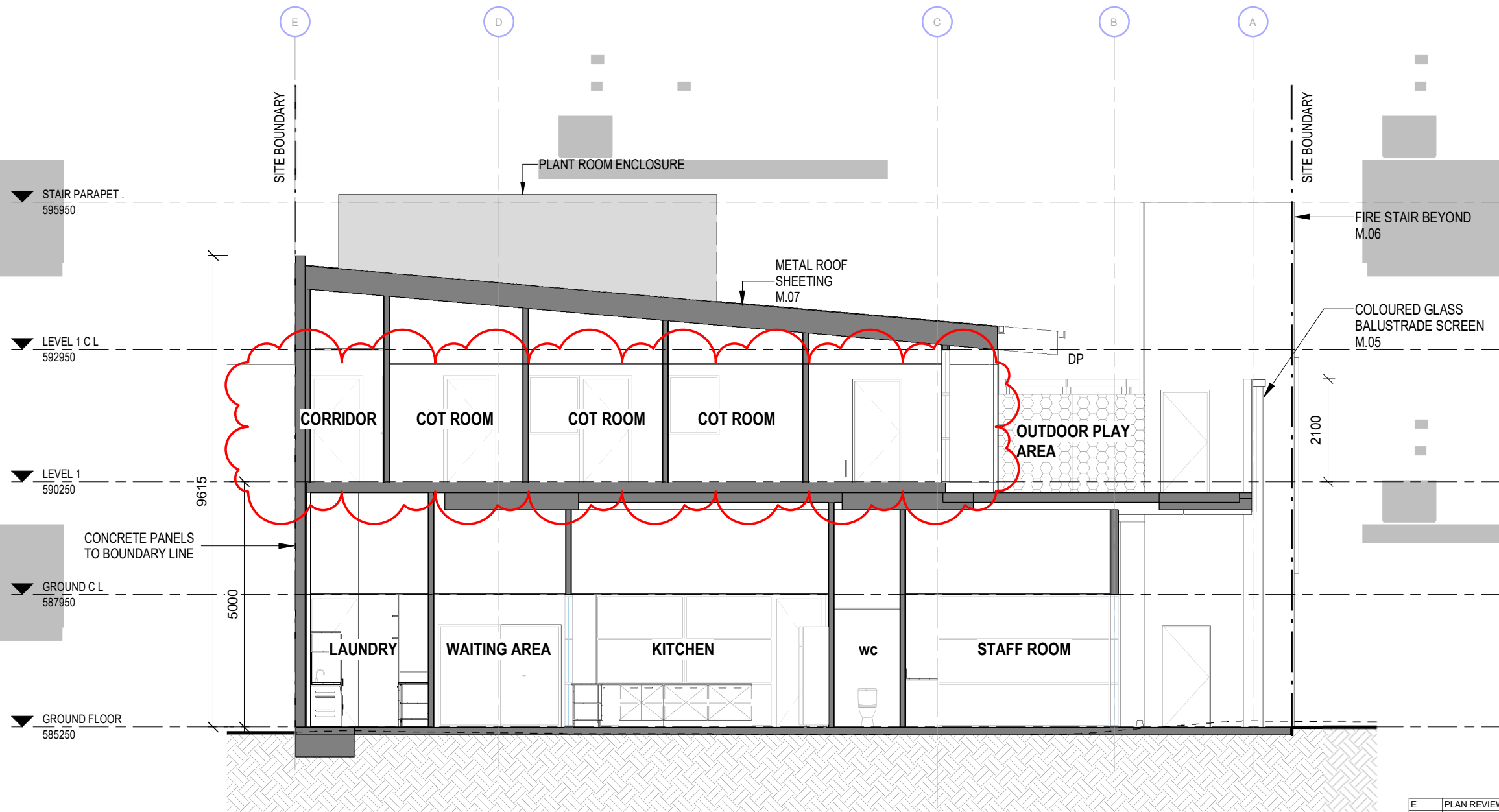
Contractor shall check and report any discrepancies to the Superintendent before undertaking any work or shop drawings

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B SECTION B
1 : 100

E	PLAN REVIEW	20/09/22
D	REVISION CLOUDS	10/02/22
C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

Rev	Amendment	Date	Init
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MITCHELL CHILDCARE CENTRE
BLOCK 18, SECTION 11 CORNER DARLING &
HEFFERNAN STREET, MITCHELL, ACT

SECTION B			
Drawn	Date	Scale	Project Number
		1 : 100	A3
Review	Date	Project Leader	Date
PREL MINARY		Drawing Number	Amtd
		SK301	E



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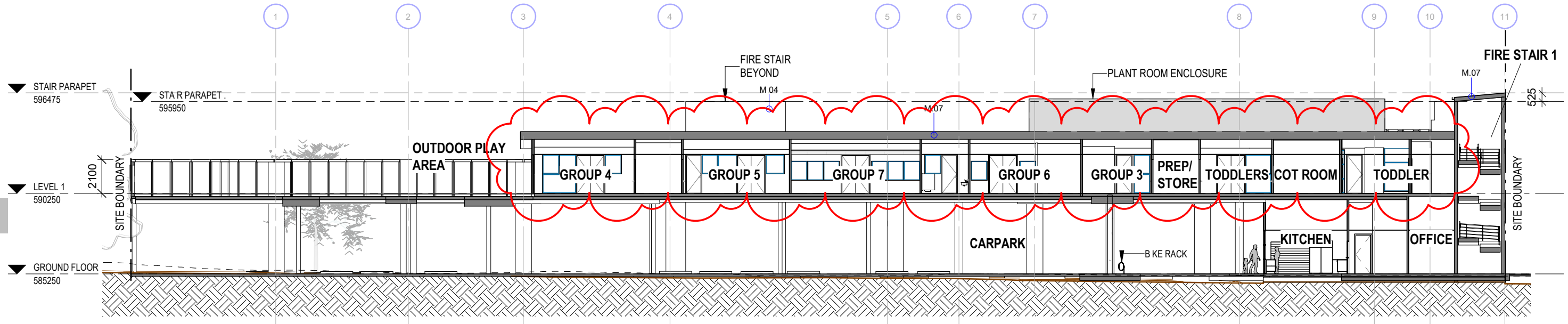
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C SECTION C
1 : 250

E	PLAN REVIEW	20/09/22
D	REVISION CLOUDS	10/02/22
C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

Rev	Amendment	Date	Init

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MITCHELL CHILDCARE CENTRE
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SECTION C

Drawn	Date	Scale	Project Number
		1 : 250	A3
Review	Date	Project Leader	Date
PREL MINARY		Drawing Number	Amtd
		SK302	E



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D	PLAN REVIEW	20/09/22
C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

Rev	Amendment	Date	Init

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MITCHELL CHILDCARE CENTRE
BLOCK 18, SECTION 11 CORNER DARLING &
HEFFERNAN STREET, MITCHELL, ACT

PERSPECTIVES

Drawn	Date	Scale	A3	Project Number
Review	Date	Project Leader	Date	A17041
PREL MINARY				Drawing Number
PREL MINARY				SK800
PREL MINARY				Amtd
PREL MINARY				D





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D	PLAN REVIEW	20/09/22
C	AMENDED DA - REVISION CLOUD	19/07/21
B	AMENDED DA	15/07/21
A	DA APPLICATION	

Rev	Amendment	Date	Init

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PERSPECTIVES

Drawn	Date	Scale	A3	Project Number
Review	Date	Project Leader	Date	A17041
PREL MINARY				Drawing Number
				SK801
				Amtd
				D

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Attachment 2: Human Health Risk Assessment, prepared by [redacted]

The following pages of Attachment 2 encompass the Human Health Risk Assessment, prepared by [redacted]

9 November 2022

[Redacted]
[Redacted]
[Redacted]



Attention: [Redacted]

Re: Corner Darling and Heffernan Streets, Mitchell, ACT

[Redacted]) has been engaged by [Redacted] to undertake a human health risk assessment in relation to air quality at a site being proposed for construction of a childcare centre – the corner of Darling and Heffernan Streets in Mitchell ACT (“the site”).

The site is currently vacant but has been proposed for this purpose for some time.

An original DA for the childcare centre was referred to the ACT Government Health Protection Service (HPS). In their referral letter dated 11 December 2018, the HPS concluded that the submitted documentation did not meet the requirements, as follows:

- *“...have not demonstrated that an unacceptable risk to the health and safety of and safety of children and vulnerable users thereof will not be created by the use of the site as a childcare centre”;*
- *“...the air quality sampling undertaken to date has not covered a sufficient period of time to determine seasonal variations and to determine if the results are minimum, average or maximum concentrations that would typically be found at this site for a variety of analytes”;* and
- *“This has resulted in the Human Health Risk Assessment being limited in its insight into any potential health risks posed”.*

[Redacted] has undertaken an air quality sampling program to meet the requirements of the second dot point above. That program has been described in the following report:

- [Redacted], Air quality monitoring report. Dated 30 June 2022 (included at **Attachment A**).

The HHRA provided in this letter report provides the assessment of that information to meet the requirements for the other 2 dot points listed.

1 Objective

The objectives of this HHRA are:

- Review the available data for air quality for this site
- Undertake an assessment of the air quality at this site to assess potential health risks to staff and children at the proposed childcare centre and to compare the data provided to regional air quality in this part of Canberra.

This HHRA had not addressed environmental issues nor potential for off-site risks at surrounding properties.

2 Methodology

The methodology adopted for this HHRA has been in accordance with the relevant National protocols/guidelines including:

- enHealth, Environmental Health Risk Assessment, Guidelines for Assessing Human Health Risks from Environmental Hazards (enHealth 2012a)
- enHealth, Australian Exposure Factor Guide (enHealth 2012b)
- ASC NEPM National Environmental Protection Measure – Assessment of Site Contamination including:
 - Schedule B4 Guideline on Site-Specific Health Risk Assessment Methodology (NEPC 1999 amended 2013a)
 - Schedule B7 Guideline on Derivation of Health-Based Investigation Levels (NEPC 1999 amended 2013b)
- Environment ACT, Air Environment Protection Policy (Environment ACT 1999).

Where required, additional guidance will be obtained from relevant Australian and International guidance consistent with current industry best practice, such as that available from the USEPA and the World Health Organisation (WHO).

3 Background

A childcare centre is proposed for the site. The plans for the site are provided in **Figures 1** and **2**. The proposed play area is on the first floor.

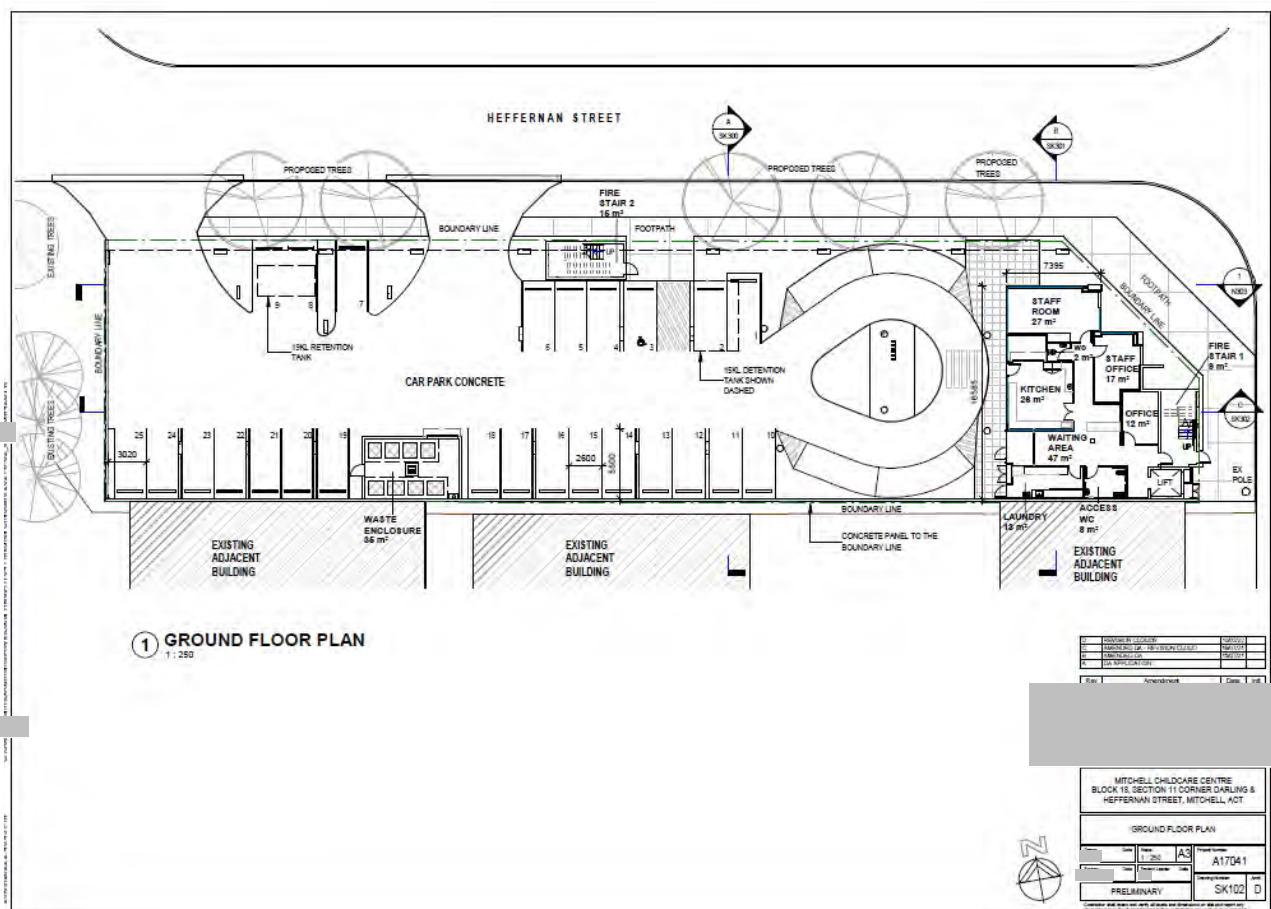


Figure 1: Ground floor plan (proposed)

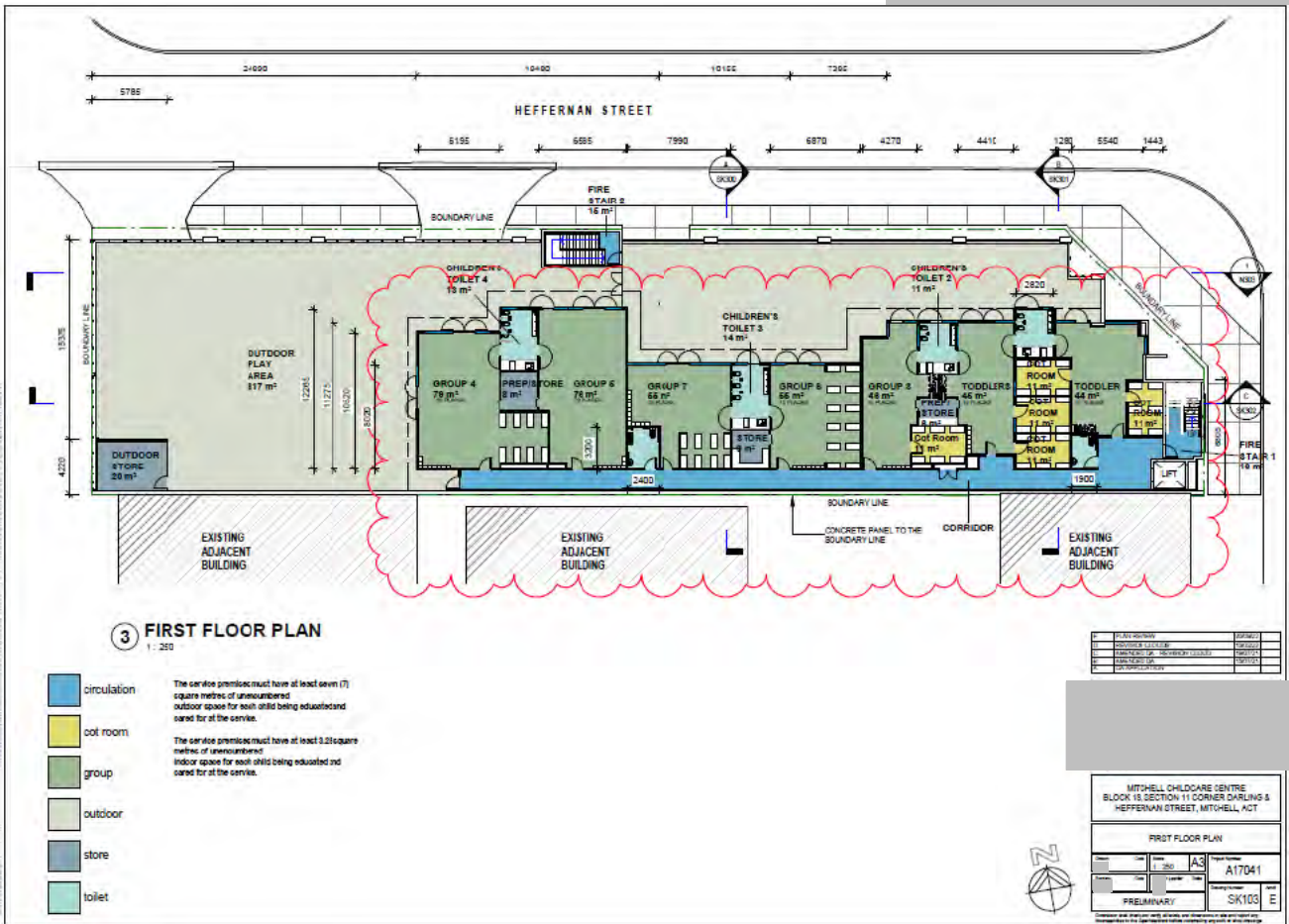


Figure 2: First floor plan (proposed)

This site is in a generally industrialised area in Mitchell. This is shown in Figure 3.



Figure 3: Site context

Site of interest

4 Sampling program

undertook sampling at the site. They placed appropriate monitoring equipment in the western part of the site where the outdoor play area will be located.

They used:

- FDS PM monitoring system for PM₁₀ and PM_{2.5}
- Polludrone multi parameter sensor for NO₂, SO₂, O₃ and CO
- Summa canister sampling for volatile organic compounds (VOCs).

The program involved continuous sampling for all parameters apart from VOCs for 6 weeks. Sampling commenced on 1 April and was completed on 16 May 2022. For VOCs, spot samples were collected over 12 hours (approx.) on 12 April, 21 April, 3 May, 9 May and 1 June 2022 (a duplicate sample was collected on the final sampling event).

The data collected were compared to data from the Florey Air Quality Station operated by the ACT Government¹. This station is one of 3 operated by the ACT Government. It is located around 8 km to the west of the site of interest. The next closest station is Civic Air Quality Station which is located around 8 km to the south of the site of interest close to the Canberra CBD.

Previous ambient air quality monitoring was undertaken by in 2017 in a report:

- , Ambient Air Quality Monitoring Report – Mitchell, ACT. DRAFT. Dated 24 January 2018.

The air quality monitoring undertaken in this program covered a 2 week period in December 2017. This was considered insufficient for this proposal by regulators but these results have also been discussed in this report to provide additional information about air quality at this site.

5 Results

5.1 Criteria pollutants

Criteria air pollutants are those that are targeted by the National Environment Protection (Ambient Air Quality) Measure (NEPC 2021a). They are common air pollutants that need to be managed well to maintain acceptable air quality in any urban area.

There are many sources of these criteria air pollutants including all combustion sources – fires, bushfires, cooking, vehicles, wood fired heaters, open fireplaces, ship engines, power stations etc – and non-combustion sources like windblown dust or salt spray.

The pollutants included are PM₁₀, PM_{2.5}, NO₂, SO₂, CO and ozone (O₃). The most recent published version of the National Environment Protection (Ambient Air Quality) Measure was published in 2021 (NEPC 2021a).

The following matters are important to note to put this assessment in appropriate context:

- these national guidelines are actually not intended for application as regulatory standards at a single facility. They are designed for assessment of regional air quality within air sheds (i.e. across Sydney or Canberra as a whole, for example) (NEPC 2021b).
- a childcare centre is not an activity that results in additional emissions to air. This assessment covers the acceptability of the existing air quality in and around this site in relation to the development of a childcare centre. The area is already used for commercial/industrial purposes, so a wide range of people are already exposed to the air in this location.

¹ <https://www.health.act.gov.au/about-our-health-system/population-health/environmental-monitoring/air-quality/air-quality>

5.1.1 Sulfur oxides (SO₂)

Sulfur oxides are formed during combustion when chemicals present in fuels (such as coal, gas, petrol etc) containing sulfur react with oxygen to form sulfur oxides. Burning of coal in power stations in Europe resulted in acid rain affecting forests. The acid rain was primarily a result of the formation of sulfur oxides as the coal was burnt. Sulfur oxides are also released from volcanos. Wildfires and other types of fires are also sources to the atmosphere of these chemicals (USEPA 2018a).

Sulfur dioxide (SO₂) is the main sulfur oxide that can have impacts on people. Exposure to elevated levels can result in irritation of the respiratory system and can make breathing difficult. The most affected by exposure to these chemicals are people with asthma. This impact on asthma means this pollutant is important to assess in regard to potential for children to be exposed (USEPA 2018a).

Guidelines for SO₂ are available from NEPC (NEPC 2021a) as well as state based supporting information such as that available from NSW EPA (NSW EPA 2017). Guidelines listed in these documents indicate concentrations of sulfur dioxide considered to be acceptable by national health authorities (i.e. based on protecting health for the entire population (including sensitive sub-populations) if they are present at a location 24 hours a day, 7 days a week for a lifetime). These guidelines are based on protection from adverse health effects following both short term (acute) and longer term (chronic) exposure for all members of the population including sensitive populations like asthmatics, children and the elderly.

Table 1 lists the results for this monitoring program for sulfur dioxide and Figure 4 shows the monitoring of SO₂ over the monitoring period. This parameter is not assessed at the Florey air monitoring station (or any of the monitoring stations operated by ACT Government) and it was not assessed in the previous monitoring program from 2017.

Table 1: SO₂ levels in this area

Parameter	SO ₂ (µg/m ³)	
	On-site monitoring	Florey Air Monitoring Station
	1-hour average	1-hour average
Guideline (NEPM 2021)	262	262
Average over the 6 week monitoring period	6.2	Not a parameter measured by ACT Government at any station (Florey, Civic or Monash)
Maximum 1 hour average	170	

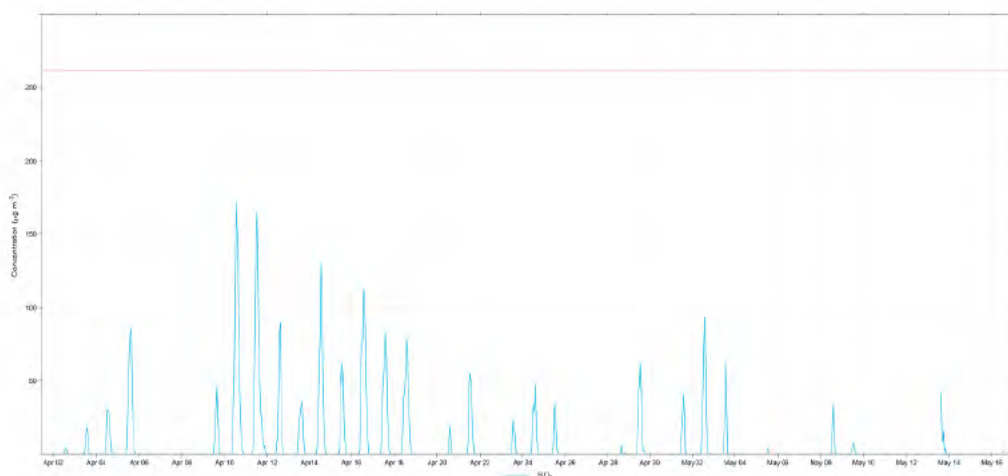


Figure 4: Hourly average SO₂ concentrations (2 April-15 May 2022) – Mitchell ACT (Figure 3.9 from EMM report)

This assessment shows that the levels of SO₂ are often quite low and all measurements across the entire monitoring period are well below the NEPM guideline (shown by the red line on the Figure), so risks to children due to the presence of SO₂, should they spend time at this location, are considered to be negligible.

5.1.2 Nitrogen Oxides (NO₂)

Nitrogen oxides (NO_x) refer to a collection of highly reactive gases containing nitrogen and oxygen, most of which are colourless and odourless. Nitrogen oxide gases form whenever materials are burnt (i.e. petrol, gas, wood etc). Motor vehicles, along with industrial, commercial and residential (e.g. gas heating or cooking) combustion sources, are all primary producers of nitrogen oxides.

In terms of health effects, nitrogen dioxide is the only oxide of nitrogen that may be of concern (WHO 2000). Nitrogen dioxide is a colourless and tasteless gas with a sharp odour. Nitrogen dioxide can cause inflammation of the respiratory system and increase susceptibility to respiratory infection. Exposure to elevated levels of nitrogen dioxide has also been associated with increased mortality, particularly related to respiratory disease, and with increased hospital admissions for asthma and heart disease patients (WHO 2013a). Asthmatics, the elderly and people with existing cardiovascular and respiratory disease are particularly susceptible to the effects of elevated nitrogen dioxide (Morgan et al. 2013; NEPC 2010). The health effects associated with exposure to nitrogen dioxide depend on the duration of exposure as well as the concentration.

Guidelines for NO₂ are available from NEPC (NEPC 2021a) as well as state based supporting information such as that available from NSW EPA (NSW EPA 2017). They indicate concentrations of nitrogen dioxide considered to be acceptable by national health authorities (i.e. based on protecting health for the entire population (including sensitive sub-populations) if they are present at a location 24 hours a day, 7 days a week for a lifetime). These guidelines are based on protection from adverse health effects following both short term (acute) and longer term (chronic) exposure for all members of the population including sensitive populations like asthmatics, children and the elderly.

Table 2 lists the results for this monitoring program for nitrogen dioxide and Figure 5 shows the monitoring for NO₂ over the monitoring period.

Table 2: NO₂ levels in this area

Parameter	NO ₂ (µg/m ³)			
	On-site monitoring		Floreys Air Monitoring Station	
	1-hour average	Annual average ¹	1-hour average	Annual average ¹
Guideline (NEPM 2021)	150	28	150	28
Average over the 6 week monitoring period	NA	3.9	NA	7.5
Maximum 1 hour average	37.8	NA	37.2	NA

Notes:

- 1 The average concentration over the 6 week monitoring period has been compared to the annual average NEPM guideline. This is a conservative approach because an average over a shorter time period will be the same or higher than the average over a whole year. If the average over 6 weeks is lower than the annual average guideline this is a good indicator that the annual average at the site will definitely be in compliance.

[redacted] (2022) also notes that the annual average for NO₂ ranged from 7.6 to 9.7 µg/m³ for the years 2014 to 2021 at the government monitoring stations. The results for the 6 week monitoring period in 2022 are lower than (and consistent with) these longer term results. In addition, the results for on-site monitoring and the closest government station for 1 hour and longer average concentrations were quite similar. It is expected that the annual average for NO₂ at the site will be less than the guideline of 28 µg/m³. The maximum 1 hour average at both locations during this monitoring period was 25% of the relevant guideline value – i.e. in compliance.

The previous on-site monitoring undertaken by [redacted] in 2017 reported a maximum 1 hour average concentration of 90 $\mu\text{g}/\text{m}^3$ and a mean 1 hour average concentration of 30.5 $\mu\text{g}/\text{m}^3$. These results are higher than those found in the 2022 monitoring event but these concentrations were also in compliance with the most recent NEPM guidelines from 2021 (NEPC 2021a).

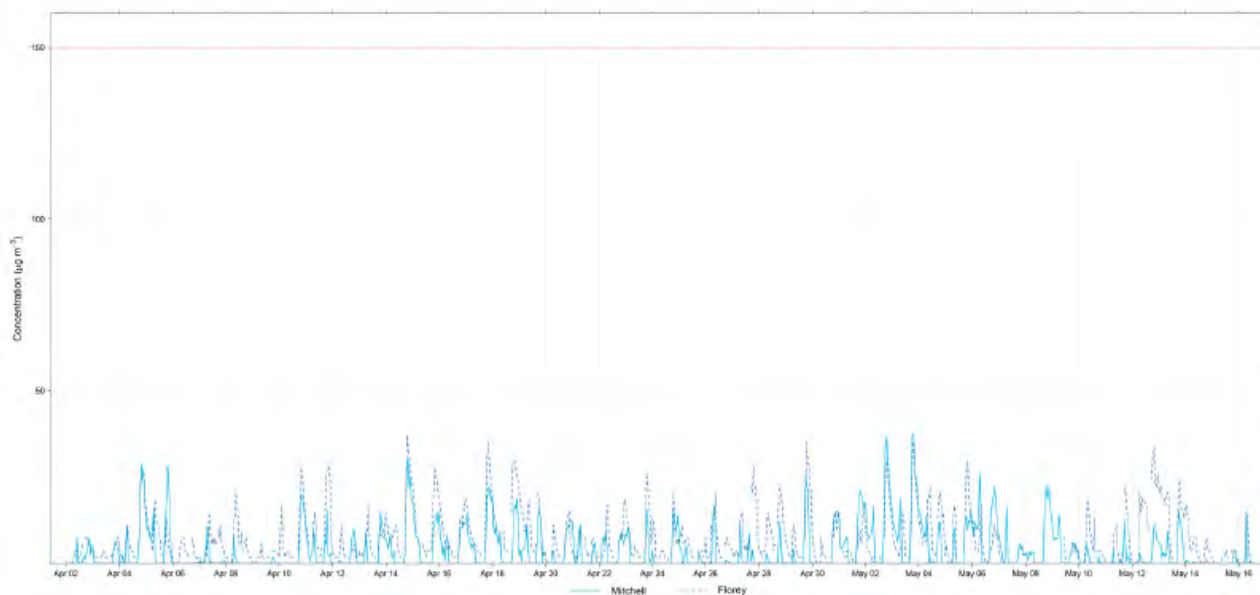


Figure 5: Hourly average NO₂ concentrations (2 April-15 May 2022) – Mitchell ACT (Figure 3.7 from EMM report)

This assessment shows that the levels of NO₂ are:

- quite low across the entire period
- very similar to the levels at Florey station across the entire period
- all measurements across the entire monitoring period are well below the NEPM guideline (shown by the red line on the Figure).

Therefore, risks to children due to the presence of NO₂, should they spend time at this location, are considered to be negligible.

5.1.3 Particles

Particles (or particulate matter (PM)) are a widespread air pollutant with a mixture of physical and chemical characteristics that vary by location (and source). Unlike many other pollutants, particulates comprise a broad class of diverse materials and substances, with varying shape, chemical, physical and thermodynamic properties, with sizes that vary from less than 0.005 microns or micrometres² (μm) to greater than 100 microns (μm).

Particles are always present in the air.

Sources of particles include bushfires, other types of fires, cooking (gas and wood fired), BBQs (gas and wood fired), vehicle emissions, wood fired heaters (and gas fired), windblown dust, salt spray (when near ocean) as well as large facilities using combustion like power stations.

² Micrometres or microns refers to 0.000001 m (i.e. 1 millionth of a metre).

The main focus of studies about health effects due to particles in air is the smaller particles. These fine particles are small enough to reach deep into the lungs, so they are the most relevant for assessing potential health effects.

Particles are measured in 2 size categories – PM₁₀ (particles less than 10 microns in size) (PM₁₀)³ and PM_{2.5} (particles less than 2.5 microns in size).

However, it is important to note that the measurement of PM₁₀ includes:

- Particles sized between 2.5 microns⁴ but less than 10 microns
- Particles less than 2.5 microns (i.e. fine and ultrafine particles)

The measurement of PM_{2.5} includes:

- ultrafine particles (those less than 1 microns⁵ or 0.1 microns)
- fine particles between 1 and 2.5 microns.

Numerous epidemiological studies⁶ have reported significant positive associations between particulate air pollution measured as PM₁₀ or PM_{2.5} and adverse health outcomes. Effects noted in large studies undertaken in cities in Europe and the US include mortality as well as a range of adverse cardiovascular and respiratory effects (USEPA 2012, 2018b; WHO 2013b). In particular, the links between levels of PM_{2.5} and health effects have been shown to be clear and robust. The health effects for both PM₁₀ and PM_{2.5} were considered in the derivation of the NEPM air guidelines for particles.

Guidelines for particles are available from NEPC (NEPC 2021a) as well as state based supporting information such as that available from NSW EPA (NSW EPA 2017). They indicate concentrations considered to be acceptable by national health authorities (i.e. based on protecting health for the entire population (including sensitive sub-populations) if they are present at a location 24 hours a day, 7 days a week for a lifetime). These guidelines are based on protection from adverse health effects following both short term (acute) and longer term (chronic) exposure for all members of the population including sensitive populations like asthmatics, children and the elderly.

PM_{2.5}

Table 3 (PM_{2.5}) lists the results for this monitoring program for PM_{2.5} and **Figure 5** shows the monitoring for PM_{2.5} over the monitoring period (24 hour averages).

³ Micrometres or microns refers to 0.000001 m (i.e. 1 millionth of a metre).

⁴ Micrometres or microns refers to 0.000001 m (i.e. 1 millionth of a metre).

⁵ Micrometres or microns refers to 0.000001 m (i.e. 1 millionth of a metre).

⁶ Epidemiology is the study of diseases in populations. Epidemiological evidence can only show that this risk factor is associated (correlated) with a higher incidence of disease in the population exposed to that risk factor. The higher the correlation the more certain the association. Causation (ie that a specific risk factor actually causes a disease) cannot be proven with only epidemiological studies. For causation to be determined a range of other studies need to be considered in conjunction with the epidemiology studies.

Table 3: PM_{2.5} levels for this site

Parameter	PM _{2.5} (µg/m ³)			
	On-site monitoring		Florey Air Monitoring Station	
	24-hour average	Annual average ¹	24-hour average	Annual average ¹
Guideline (NEPM 2021)	25 (current)/ 20 (2025)	8 (current)/ 7 (2025)	25 (current)/ 20 (2025)	8 (current)/ 7 (2025)
Average over the 6 week monitoring period	NA	3.9	NA	5.3
Maximum 24 hour average	9.6	NA	16.8	NA

Notes:

- The average concentration over the 6 week monitoring period has been compared to the annual average NEPM guideline. This is a conservative approach because an average over a shorter time period will be the same or higher than the average over a whole year. If the average over 6 weeks is lower than the annual average guideline, this is a good indicator that the annual average at the site will definitely be in compliance.

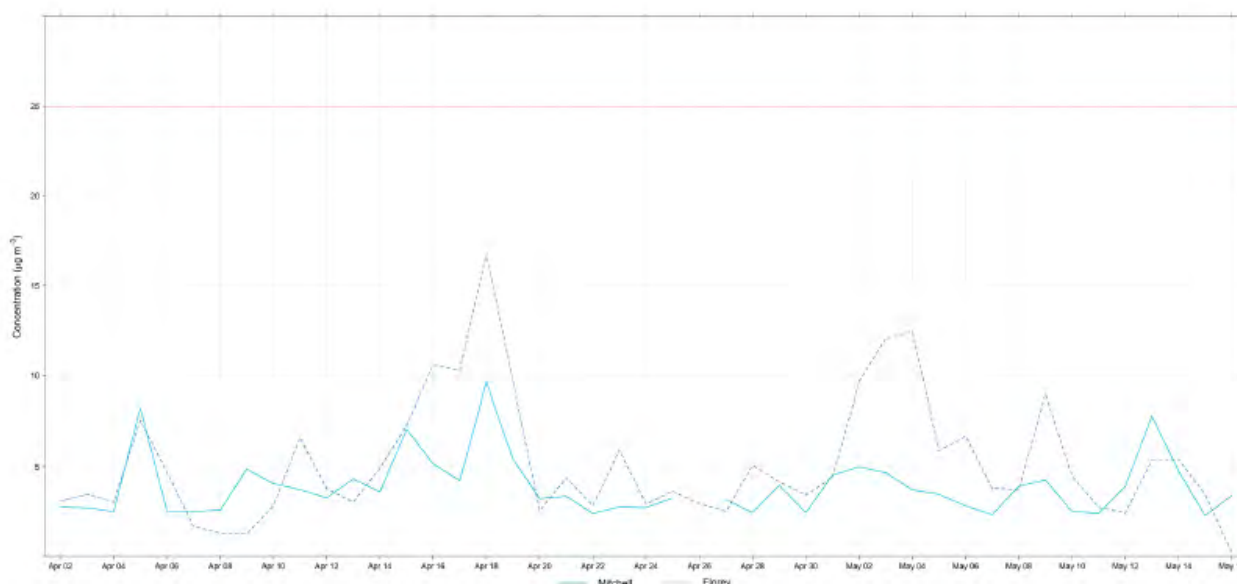


Figure 6: 24 hour average PM_{2.5} concentrations (2 April-15 May 2022) – Mitchell ACT (Figure 3.5 from EMM report)

(2022) also notes that the annual average for PM_{2.5} at the government monitoring stations ranged from 5.5 to 7.2 µg/m³ for the years 2014 to 2021 which were not dominated by bushfires and 14.5 to 18.5 µg/m³ in 2019 and 2020 (i.e. when bushfires in summer made a significant impact on levels of particles). The results for the 6 week monitoring period in 2022 are lower than (and consistent with) these longer term results. In addition, the results for on-site monitoring and the closest government station for 24 hour and longer average concentrations were quite similar. It is expected that the annual average for PM_{2.5} at the site will be less than the guideline of 8 µg/m³. The maximum 24 hour average at both locations during this monitoring period was 40-60% of the relevant guideline value – i.e. in compliance.

The previous on-site monitoring undertaken by Pacific Environment in 2017 did not report results for PM_{2.5} but did monitor for PM₁₀ which is discussed below.

This assessment shows that the levels of PM_{2.5} are:

- relatively low across the entire period
- usually lower than the values reported at the Florey station across the entire period

- all measurements across the entire monitoring period are well below the NEPM guideline (shown by the red line on the Figure).

Therefore, risks to children due to the presence of PM_{2.5}, should they spend time at this location, are considered to be negligible.

PM₁₀

Table 4 (PM₁₀) lists the results for this monitoring program for PM₁₀ and Figure 7 shows the monitoring for PM₁₀ over the monitoring period (24 hour averages).

Table 4: PM₁₀ levels for this site

Parameter	PM ₁₀ (µg/m ³)			
	On-site monitoring		Florey Air Monitoring Station	
	24-hour average	Annual average ¹	24-hour average	Annual average ¹
Guideline (NEPM 2021)	50	25	50	25
Average over the 6 week monitoring period	NA	3.9	NA	5.3
Maximum 24 hour average	9.6	NA	16.8	NA

Notes:

- 1 The average concentration over the 6 week monitoring period has been compared to the annual average NEPM guideline. This is a conservative approach because an average over a shorter time period will be the same or higher than the average over a whole year. If the average over 6 weeks is lower than the annual average guideline, this is a good indicator that the annual average at the site will definitely be in compliance.

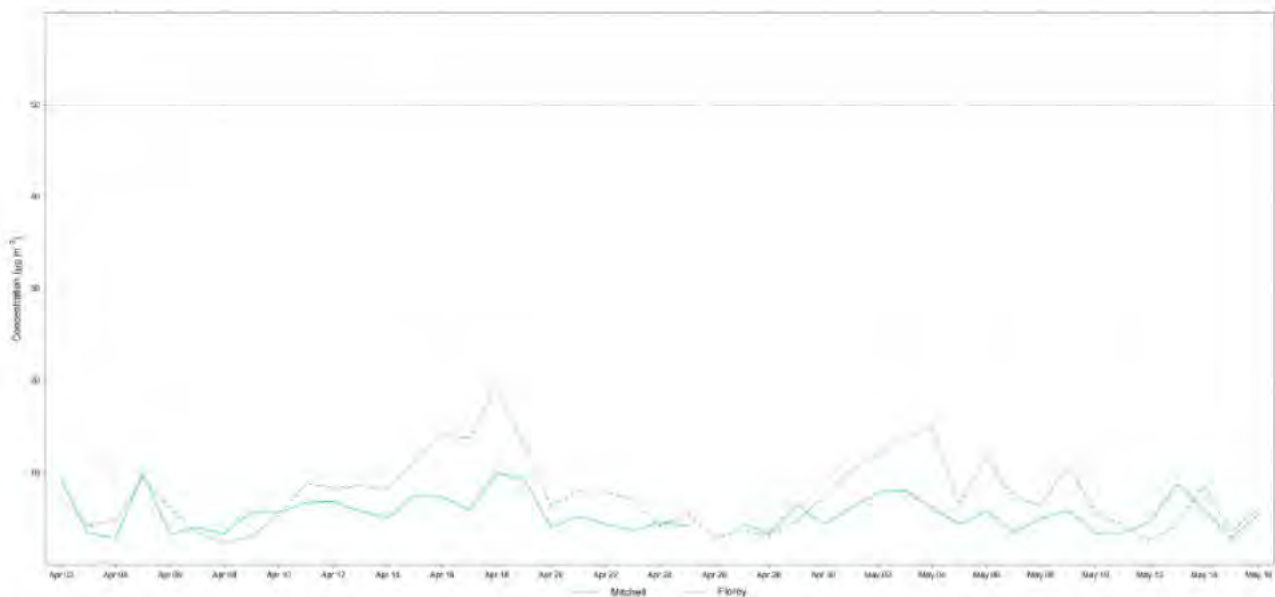


Figure 7: 24 hour average PM₁₀ concentrations (2 April-15 May 2022) – Mitchell ACT (Figure 3.2 from EMM report)

(2022) also notes that the annual average for PM₁₀ at the government monitoring stations ranged from 9.7 to 12.1 µg/m³ for the years 2014 to 2021 which were not dominated by bushfire smoke and 22.9 to 24.7 µg/m³ in 2019 and 2020 (i.e. when bushfires in summer made a significant impact on levels of particles). The results for the 6 week monitoring period in 2022 are lower than (and consistent with) these longer term results. In addition, the results for on-site monitoring and the closest government station for 24 hour and longer average concentrations were quite similar. It is expected that the annual average for PM₁₀ at the site will be less than the guideline of 25 µg/m³. The maximum 24 hour average concentration for PM₁₀

at both locations during this monitoring period was 20-40% of the relevant guideline value – i.e. in compliance.

The previous on-site monitoring undertaken by [redacted] in 2017 reported a maximum 24 hour average concentration of 12 µg/m³ and a mean 24 hour average concentration of 2.8 µg/m³. These results are similar to those found in the 2022 monitoring event. All concentrations from 2017 and 2022 were in compliance with the most recent NEPM guidelines from 2021 (NEPC 2021a).

This assessment shows that the levels of PM₁₀ are:

- low across the entire period
- usually lower than the values reported at the Florey station across the entire period
- all measurements across the entire monitoring period are well below the NEPM guideline (shown by the red line on the Figure).

Therefore, risks to children due to the presence of PM₁₀, should they spend time at this location, are considered to be negligible.

5.1.4 Carbon monoxide

Motor vehicles are the dominant source of carbon monoxide in air (NSW DECCW 2010). Carbon monoxide is produced during combustion when there is a limited supply of oxygen.

It is well known that excess levels of carbon monoxide in enclosed spaces can cause significant impacts. This may occur when indoor gas or other types of heaters are not operating correctly and are left on overnight.

The sorts of effects that can be expected due to exposure to CO are those linked with carboxyhaemoglobin (COHb) in blood – i.e. where CO replaces oxygen in the blood preventing oxygen from being transported around the body. In addition, association between exposure to carbon monoxide and cardiovascular hospital admissions and mortality, especially in the elderly for cardiac failure, myocardial infarction and ischemic heart disease; and some birth outcomes (such as low birth weights) have been identified (NEPC 2010).

Guidelines for CO are available from NEPC (NEPC 2021a) as well as state based supporting information such as that available from NSW EPA (NSW EPA 2017). They indicate concentrations considered to be acceptable by national health authorities (i.e. based on protecting health for the entire population (including sensitive sub-populations) if they are present at a location 24 hours a day, 7 days a week for a lifetime).

Table 5 lists the results for this monitoring program for CO and Figure 8 shows the monitoring for CO over the monitoring period (8 hour averages).

Table 5: CO levels for this site

Parameter	CO (µg/m ³)	
	On-site monitoring	Florey Air Monitoring Station
	8-hour average	8-hour average
Guideline (NEPM 2021)	10,000	10,000
Average over the 6 week monitoring period	100	300
Maximum 1 hour average	600	1,200

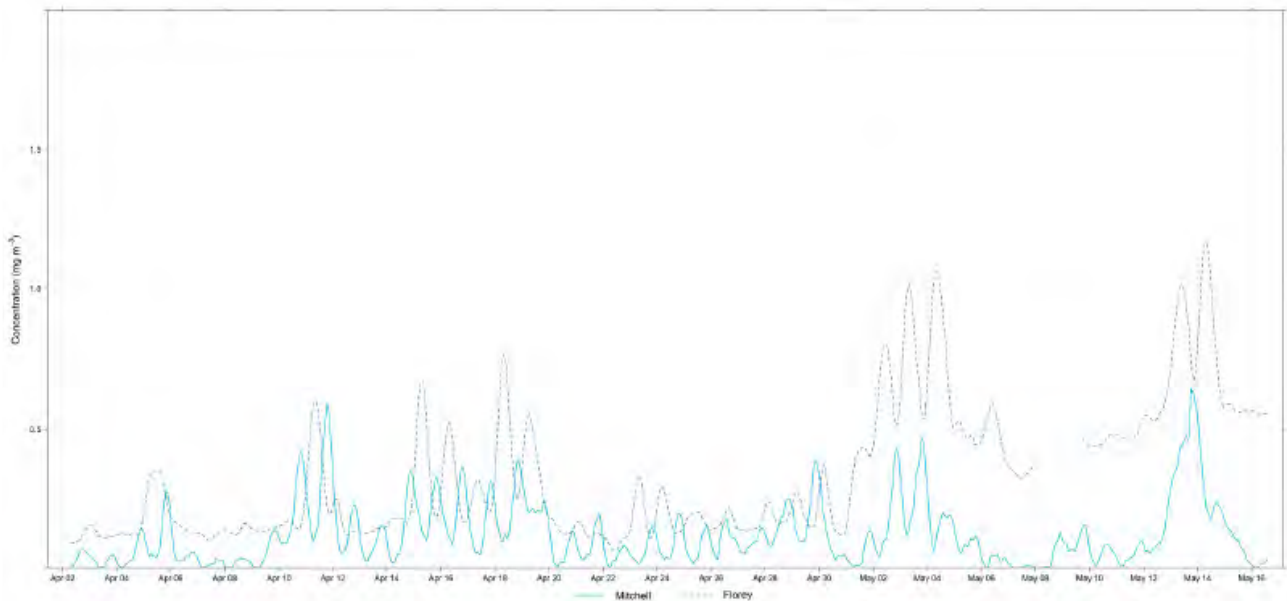


Figure 8: Rolling 8 hour average CO concentrations (2 April-15 May 2022) – Mitchell ACT (Figure 3.10 from EMM report)

This assessment shows that the levels of CO are:

- low across the entire period
- usually lower than the values reported at the Florey station across the entire period
- all measurements across the entire monitoring period are well below the NEPM guideline.

Therefore, risks to children due to the presence of CO, should they spend time at this location, are considered to be negligible.

5.1.5 Summary

All of the criteria pollutants are commonly found in outdoor air in urban areas. There are national guidelines for these major pollutants that are protective of human health in regard to regional air quality – i.e. they are guidelines that are to be applied to ensure that average air quality for people in Australia is appropriate for the entire population including sensitive subpopulations.

All of the levels measured at this site were in compliance with the national guidelines and in line with levels for regional air quality in Canberra as indicated by the measurements at Florey air monitoring station and in line with levels normally found in urban air in Australia. This means risks to human health in regard to criteria pollutants at this site are negligible in relation to this proposed development.

5.2 VOCs

5.2.1 2022

Summa canisters are analysed in accordance with USEPA TO-15 methodology. This method reports results for a wide range of volatile organic compounds including petroleum and chlorinated hydrocarbons which are often the compounds of most interest in urban areas. In this case, the methods listed on the laboratory reports included:

- ASTM – D1945/D1946
- CRC Care TR23 PVI

■ USEPA TO-15

with each method being applied to the relevant sub group of VOCs. The total list of chemicals analysed in this work was in excess of 80 compounds.

The canisters were deployed for approximately 12 hours across daytime hours to ensure appropriate understanding of VOC levels at times when staff or children could be present at the site.

The only chemicals with detections were nitrogen, oxygen and acetone. All other chemicals were not reported above the limit of reporting. The limits of reporting were in line with generally expected levels for use in ambient air sampling provided by Australian laboratories.

Nitrogen and oxygen are the major components of the atmosphere we all breathe. These measurements indicate that they were present at expected levels – 80% nitrogen, 20% oxygen (approx.).

Acetone was measured above the limit of reporting on 1 occasion at a concentration of 68 $\mu\text{g}/\text{m}^3$.

A screening risk assessment involves comparing the measured level of a chemical to a guideline that is based on protecting a person who might be exposed at a location 24 hours a day, 7 days per week for a lifetime. This is considered a conservative first step as it doesn't involve any site specific assumptions about how a site will be operated. If the measured concentration at a site is smaller than such a guideline, then no further assessment is required.

There is no guideline for acetone protective for human health available in Australian guidance documents, but such guidelines are available for acetone from US guidance. Texas Commission for Environmental Quality (TCEQ) provides a guideline of 16,000 $\mu\text{g}/\text{m}^3$ (TCEQ 2013). USEPA regional screening levels provided a residential air guideline of 32,000 $\mu\text{g}/\text{m}^3$ up until November 2021 where a change in the source document (due to data limitations) required that this value be withdrawn (USEPA 2021).

Using the guideline from TCEQ, the measured concentration at this location on a single occasion is more than 200 times lower than the guideline value. This guideline was developed based on a person being exposed 24 hours a day, 7 days per week for a lifetime. Therefore, the risk posed by this level of acetone at this location is negligible.

5.2.2 2017

The previous on-site monitoring undertaken by Pacific Environment in 2017 reported results for sampling using Summa canisters on a single occasion to look for the presence of VOCs. The samples were collected in duplicate over 22 hours (i.e. during the day and night). The sampling in 2017 reported detections for acetone (as occurred during this 2022 monitoring event) as well as ethanol and isopropanol.

Isopropanol is often used to test for leaks in the sampling equipment when taking such samples, so it is possible that the actual sampling procedure may have been the source of the low levels that were detected in these duplicate samples— i.e. 1-2 $\mu\text{g}/\text{m}^3$. The USEPA regional screening levels for air in residential areas provide a guideline of 210 $\mu\text{g}/\text{m}^3$ for isopropanol. As noted previously, this guideline assumes a person spends all day, every day at the site of interest. The measured concentrations of isopropanol during this sampling were around 100 times below the guideline value so, regardless of the source, the levels measured are well in compliance with a health protective guideline.

Ethanol is present in petrol and is regularly detected in urban air. The concentrations reported in these duplicate samples were 2.6-21.5 $\mu\text{g}/\text{m}^3$. Sampling at a university in Melbourne (indoors and outdoors) reported detections for ethanol in all locations sampled (Goodman et al. 2018). Outdoor concentrations of ethanol ranged from 0.5 to 3.8 $\mu\text{g}/\text{m}^3$. Indoor concentrations across a range of locations ranged from 9.8 to 628 $\mu\text{g}/\text{m}^3$. A guideline for ethanol protective for human health is provided by the Californian Office of Environmental Health Hazard Assessment (OEHHA) (OEHHA 1999). The guideline is 100,000 $\mu\text{g}/\text{m}^3$. The

levels measured in air at the site in Mitchell in 2017 were 0.02% of the guideline value and in line with expected concentrations in indoor and outdoor air.

Acetone was measured in 2017 at concentrations around $8 \mu\text{g}/\text{m}^3$ – lower than the measured concentration in 2022. As noted in the Pacific Environment report, it is possible that acetone is in air due to cross contamination issues in a laboratory where this solvent can be widely used. It is also commonly found in urban air (Goodman et al. 2018). The study in Melbourne reported concentrations indoors ranging from 6 to $86 \mu\text{g}/\text{m}^3$ and outdoor concentrations ranging from 0.5 to $3.8 \mu\text{g}/\text{m}^3$. As noted above, the TCEQ guideline for acetone that is protective of human health is $16,000 \mu\text{g}/\text{m}^3$ so the concentrations reported at Mitchell were 0.05% of the guideline (i.e. in compliance) and in line with levels normally found in such locations.

5.2.3 Summary

Low levels of a small number of volatile organic compounds were detected in samples taken at the site of interest in Mitchell, ACT. The only detected chemicals were acetone, ethanol and isopropanol. All of these chemicals are commonly found in outdoor air in urban areas at the concentrations reported for this site. All of the levels measured at this site were well below guidelines protective for human health if a person was to be present at the site 24 hours a day, 7 days a week for a lifetime. This means risks to human health in regard to VOCs at this site are negligible in relation to this proposed development where people will only be present during the day on weekdays.

6 Conclusions

_____ has been engaged by _____ to undertake a human health risk assessment in relation to air quality at a site being proposed for construction of a childcare centre – the corner of Darling and Heffernan Streets in Mitchell ACT (“the site”).

All of the criteria pollutants discussed in this report are commonly found in outdoor air in urban areas. There are national guidelines for these major pollutants that are protective of human health in regard to regional air quality – i.e. they are guidelines that are to be applied to ensure that average air quality for people in Australia is appropriate for the entire population including sensitive subpopulations. All of the levels measured at this site were in compliance with the national guidelines and in line with levels for regional air quality in Canberra (at the same time) as indicated by the measurements at Florey air monitoring station and in line with levels normally found in urban air in Australia. This means risks to human health in regard to criteria pollutants at this site are negligible in relation to this proposed development.

Low levels of a small number of volatile organic compounds were detected in samples taken at the site of interest in Mitchell, ACT. The only detected chemicals were acetone, ethanol and isopropanol. All of these chemicals are commonly found in outdoor air in urban areas at the concentrations reported for this site. All of the levels measured at this site were well below guidelines protective for human health if a person was to be present at the site 24 hours a day, 7 days a week for a lifetime. This means risks to human health in regard to VOCs at this site are negligible in relation to this proposed development where people will only be present during the day on weekdays.

7 Limitations

_____ has prepared this report for the use of _____ in accordance with the usual care and thoroughness of the consulting profession. It is based on generally accepted practices and standards at the time it was prepared. No other warranty, expressed or implied, is made as to the professional advice included in this report.

It is prepared in accordance with the scope of work and for the purpose outlined in this report.

The methodology adopted and sources of information used are outlined in this report. [REDACTED] has made no independent verification of this information beyond the agreed scope of works and assumes no responsibility for any inaccuracies or omissions. No indications were found that information contained in information provided for use in this assessment was false.

This report was prepared in July 2022 and finalised in November 2022 and is based on the information provided and reviewed at that time. Environmental Risk Sciences disclaims responsibility for any changes that may have occurred after this time.

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9 Closure

Thank you for the opportunity to provide a proposal for this work. If you require any additional information or if you wish to discuss any aspect of this proposal, please do not hesitate to contact [REDACTED] on [REDACTED]

Yours sincerely,

[REDACTED]

[REDACTED]



Attachment A:



Air Quality Monitoring Report

Mitchell, ACT

Prepared for 
June 2022





Air Quality Monitoring Report

Mitchell, ACT

Report Number

E220190 RP1

Client

[Redacted]

Date

30 June 2022

Version

v1 Draft

Prepared by

Approved by

[Redacted Signature]

[Redacted Signature]

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1 Introduction

██████████ has been commissioned to manage a short-term ambient air quality monitoring campaign at a vacant block at the corner of Darling and Heffernan Street (Block 18 Section 11) Mitchell ACT (the site). The purpose of the monitoring campaign is to describe the ambient air quality for the area and to inform a Human Health Risk Assessment (HHRA).

The HHRA will be prepared by ██████████ and will support an amended development application (DA) for a Child Care Centre at the site (DA number 201733198-S197D).

██████████ role is to plan the monitoring campaign, review the data collected during the monitoring program and prepare a summary report of results and findings (this report).

1.1 Background

An original DA for the Child Care Centre was referred to the ACT Government Health Protection Service (HPS). In their referral letter dated 11 December 2018, the HPS concluded that the submitted documentation did not meet the requirements, as follows:

1. *“...have not demonstrated that an unacceptable risk to the health and safety of and safety of children and vulnerable users thereof will not be created by the use of the site as a childcare centre”;*
2. *“...the air quality sampling undertaken to date has not covered a sufficient period of time to determine seasonal variations and to determine if the results are minimum, average or maximum concentrations that would typically be found at this site for a variety of analytes”;* and
3. *“This has resulted in the Human Health Risk Assessment being limited in its insight into any potential health risks posed”.*

The purpose of this report is to address point 2 above by providing a monitoring campaign that meets the HPS requirements. A revised HHRA will be prepared using these monitoring data which will address points 1 and 3. It is noted that the air quality monitoring referred to in point 2 above was a monitoring campaign completed for approximately 2 weeks in December 2017 (PEL 2018).

2 Overview of monitoring program

2.1 Monitoring requirements

In their referral letter dated 11 December 2018, HPS proposed a monitoring campaign based on the National Environment Protection Measure (NEPM) and to be completed by a CASANZ registered consultant. The following specific requirements were outlined:

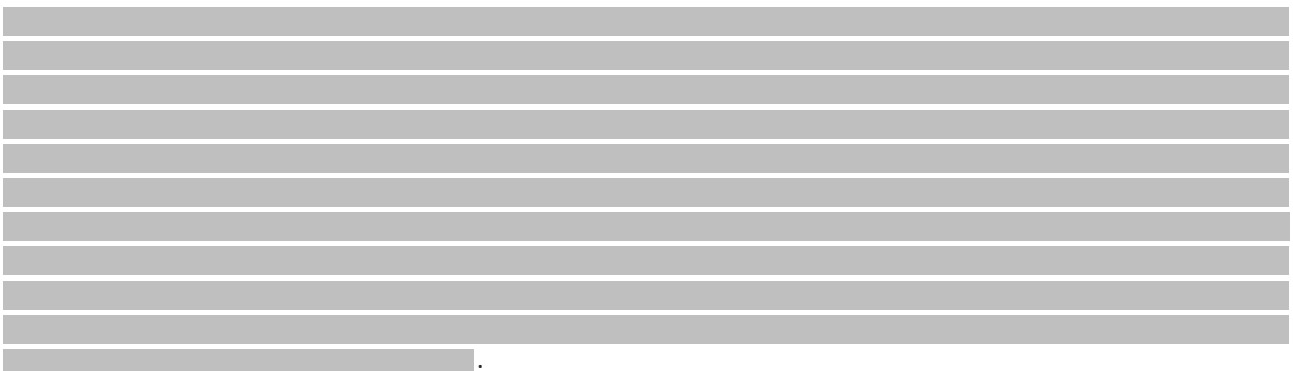
- hourly averaged carbon monoxide (CO) monitoring for a contiguous period of 1 month outside of December and January;
- hourly averaged nitrogen dioxide (NO₂) monitoring for a contiguous period of 1 month outside of December and January;
- hourly averaged ozone (O₃) monitoring for a contiguous period of 1 month outside of December and January;
- hourly averaged PM₁₀ monitoring for a contiguous period of 1 month outside of December and January or a rolling 1 day in 6 gravimetric monitoring over 1 year;
- hourly averaged PM_{2.5} monitoring for a contiguous period of 1 month outside of December and January or a rolling 1 day in 6 gravimetric monitoring over 1 year; and
- air toxics/volatile organic compounds (VOCs) for a rolling 1 day in 6 sampling program over 1 year, for common air toxics associated with motor vehicles and established business in the area.

The health risk assessor (EnRiskS) was asked to review the monitoring requirements of HPS and advise whether the monitoring would be sufficient to inform the HHRA. EnRiskS provided the following advice:

- CO and O₃ monitoring is probably not required but sulfur dioxide (SO₂) monitoring is recommended;
- the monitoring period should be extended to 6 weeks; and
- as a full year air toxics/VOC monitoring is not practical, this should be undertaken for a period of 12 hours, 1-2 days a week over 4 weeks.

2.2 Addressing HPS requirements

2.2.1 Qualifications of the author



The monitoring was completed by [REDACTED]
[REDACTED]
[REDACTED]

2.2.2 NEPM compliant monitoring

As outlined above, the HPS requires monitoring based on the National Environment Protection (Ambient Air Quality (AAQ)) Measure (AAQ NEPM). The AAQ NEPM establishes national ambient air quality standards and a national framework for the monitoring and reporting of six common air pollutants. Schedule 3 of the measure outlines the Australian Standard monitoring methods that can be used for compliance monitoring. It is noted that monitoring for VOCs / air toxics is not performed under the AAQ NEPM.

Australian Standard methods prescribed under the AAQ NEPM are typically reserved for long-term or permanent compliance or performance monitoring sites, rather than short-term monitoring campaigns. Alternative “indicative” or “near-reference” instruments can be used for short-term campaigns, particularly where the objective is to describe an indicative ambient background, rather than report absolute values for compliance assessment.

The approach for this monitoring is therefore to use indicative instruments and verify the data by comparing with reference monitoring data for the same period at the nearby NEPM Florey Air Quality Station.

2.3 Monitoring equipment

A 6-week monitoring programme was completed which includes:

- continuous particulate matter (PM) monitoring for PM₁₀ and PM_{2.5} using a FDS PM monitoring system;
- continuous air quality monitoring for NO₂, SO₂, O₃ and CO using a Polludrone multi-parameter sensor; and
- spot sampling for VOCs using Summa canisters.

2.4 Monitoring location

The monitoring equipment was deployed on the vacant block at the corner of Darling and Heffernan Street, Mitchell ACT (know as Block 18 Section 11, Mitchell ACT), at a location that is representative of the proposed outdoor play area in the western area of the site. The monitoring was conducted at ground level, with the inlet positioned at approximately 1.5 m. It is noted that the proposed outdoor play area is on the first floor of the building, at a height of approximately 5 m, which would be expected to have lower pollutant concentrations than ground level.

The location of the outdoor play area is shown on the site layout plan in Appendix B. The positioning of the monitoring equipment is approximately the location where the outdoor play area is labelled on Figure B.1. A photograph of the installed monitoring equipment is also presented in Appendix B.

2.5 Air quality standards

In 1998, Australia adopted the AAQ NEPM, establishing standards for six criteria pollutants (CO, NO₂, SO₂, lead, O₃, and PM₁₀) (NEPC 1998). The AAQ NEPM was extended in 2003 to include advisory reporting standards for PM_{2.5} (NEPC 2003) and revised in 2015 to adopt these advisory reporting standards as formal standards, and to introduce an annual reporting standard for PM₁₀ (NEPC 2015).

On 15 April 2021, the National Environment Protection Council (NEPC) approved a variation to the AAQ NEPM standards for O₃, NO₂ and SO₂. Relevant to this study, the NO₂ reporting standards for 1-hour and annual average NO₂ have been revised to 80 ppb (0.08 ppm) and 15 ppb (0.015 ppm) respectively (NEPC 2021).

The AAQ NEPM is a monitoring, assessment and reporting framework for ambient air quality, and it is not intended to be used to regulate or assess specific emission sources. Notwithstanding, many states and territories have adopted the AAQ NEPM standards as assessment criteria. The AAQ NEPM standards are presented in Table 2.1.

It is noted that the ACT government's agreed policy position is that compliance for annual average PM₁₀ is assessed against a lower standard of 20 µg/m³ rather than the AAQ NEPM standard of 25 µg/m³.

Table 2.1 NEPM air quality standards (revised 2021)

Pollutant	Averaging period	NEPM standard ¹	
PM ₁₀	24-hour	50 µg/m ³	
	Annual	25 µg/m ³	
PM _{2.5}	24-hour	25 µg/m ³	
	Annual	8 µg/m ³	
NO ₂	1-hour	0.08 ppm	150 µg/m ³
	Annual	0.015 ppm	28 µg/m ³
SO ₂	1-hour	0.1 ppm	262 µg/m ³
	24-hour	0.02 ppm	52 µg/m ³
CO	8-hour	9 ppm	10 mg/m ³
O ₃	8-hour	0.065 ppm	127 µg/m ³

Note: ¹ converted to mass concentration based on a temperature of 25°C

In addition to the AAQ NEPM, the National Environment Protection (Air Toxics) Measure (Air Toxics NEPM) provides a framework for monitoring, assessing and reporting on ambient levels of air toxics. The purpose of this NEPM is to collect information to facilitate the development of standards for ambient air toxics. The Air Toxics NEPM includes monitoring investigation levels for use in assessing the significance of monitored levels of air toxics with respect to human health. The monitoring investigation levels are levels of air pollution below which lifetime exposure, or exposure for a given averaging time, does not constitute a significant health risk. If these limits are exceeded in the short term, it does not mean that adverse health effects automatically occur; rather some form of further investigation by the relevant jurisdiction of the cause of the exceedence is required.

The relevant monitoring investigation levels defined in the Air Toxics NEPM are listed in Table 2

Table 2.2 NEPM monitoring investigation levels for air toxics

Pollutant	Averaging period	NEPM standard ¹	
Benzene	Annual	0.003 ppm	0.01 mg/m ³
PAH (as benzo(a)pyrene)	Annual		0.3 ng/m ³
Formaldehyde	24-hour	0.04 ppm	0.05 mg/m ³
Toluene	24-hour	1 ppm	4.1 mg/m ³
	Annual	0.1 ppm	0.4 mg/m ³
Xylenes	24-hour	0.25 ppm	1.2 mg/m ³
	Annual	0.2 ppm	0.9 mg/m ³

Note: ¹ converted to mass concentration based on a temperature of 25°C

3 Monitoring results

3.1 Data treatment and verification

The ambient monitoring program commenced on 1 April 2022 and continued until 16 May 2022, covering a period of 6 weeks. An initial review of the raw data indicated that very little data validation was required, as there were no obvious data outliers, no erroneous data from instrument error and no periods of negative readings (other than at instrument start-up). It is noted that the first day of data (1 April 2022) was removed, as the instruments require a period to stabilise. Zero values were assumed as valid and therefore retained in the data for gaseous pollutants (period averages presented in the report therefore include the zero values).

Hourly averages were derived from the raw 1-min data for PM and from the raw 10-min data for the gaseous pollutants. The average was considered valid and reported if 75% of the data for the relevant period was available.

The monitoring data was verified by comparing with monitoring data for the same period from the Florey Air Quality Station, operated by the ACT Government for the purpose of reporting under the NEPM. The Florey Air Quality Station is located approximately 9 km west of the monitoring site, in the residential area of Florey. It is located approximately 200 m from Kingsford Smith Drive and 270 m from Ginninderra Drive. The Florey data is converted from a volume concentration (ppm) to a mass concentration ($\mu\text{g}/\text{m}^3$ for NO_2 and O_3 ; mg/m^3 for CO)¹ to allow direct comparison with the Mitchell data.

3.2 PM_{10}

3.2.1 Timeseries analysis

A timeseries of the hourly average PM_{10} concentrations for the monitoring period for is presented in Figure 3.1, showing both the site (Mitchell) and Florey monitoring data. The timeseries plot shows that the hourly data at Mitchell and Florey are comparable; however, the Florey site displays a smoother trend and the Mitchell site displays more short-term fluctuation (spikes) in the data. This may be indicative of the type of instruments used (reference method at Florey and reference-equivalent method at Mitchell), rather than an indication of the ambient environment.

The same data are presented again in Figure 3.2, showing the daily average PM_{10} concentrations for Mitchell and Florey. The daily average is used to compare against the ambient air quality standard and the dotted red line represents the ambient air quality standard for daily average PM_{10} ($50 \mu\text{g}/\text{m}^3$). For the daily averages presented in Figure 3.2, the short-term fluctuation is removed and the trends at Mitchell and Florey are generally similar. The Florey site records higher daily average PM_{10} concentrations for most of the monitoring period.

A time variation plot of the mean hourly PM_{10} concentrations for the monitoring period is presented in Figure 3.3 for the Mitchell site. The plot shows PM_{10} concentrations increasing in the mornings, remaining higher throughout the day with a secondary peak occurring around 6:00 pm.

¹ Conversion assumed at 25°C

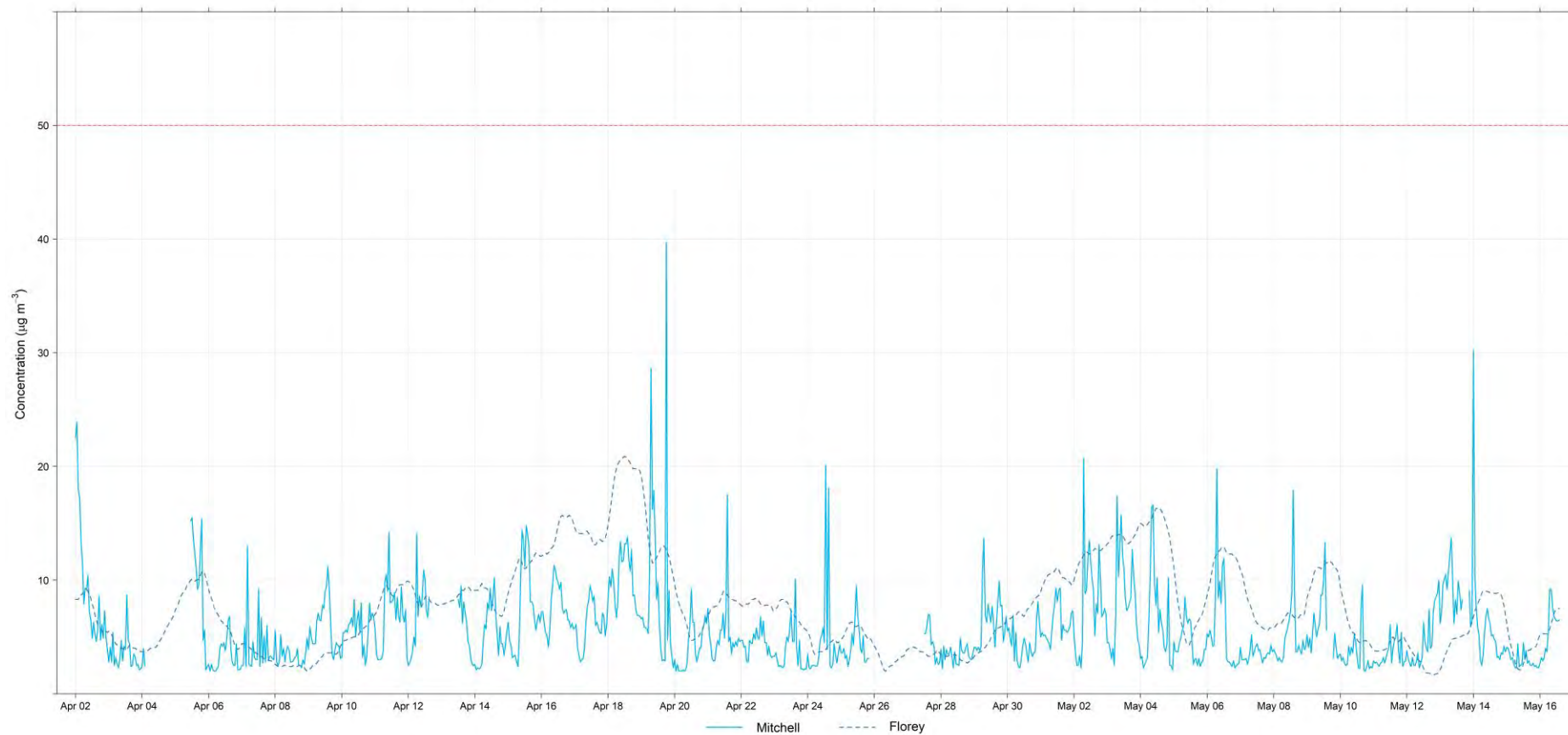


Figure 3.1 Hourly average PM₁₀ concentrations from 2 April 2022 to 15 May 2022 – Mitchell and Florey ACT

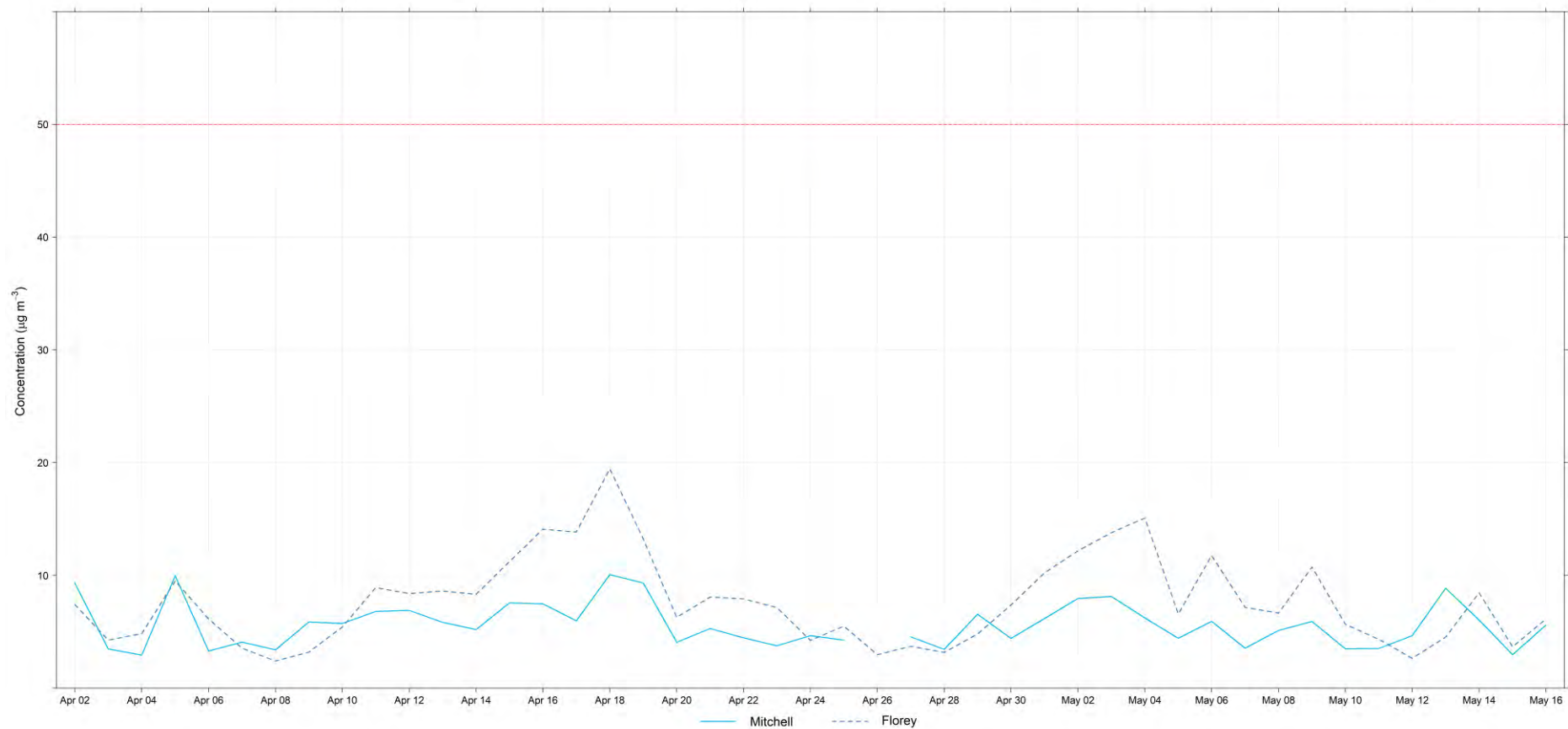


Figure 3.2 24-hour average PM₁₀ concentrations from 2 April 2022 to 15 May 2022 – Mitchell and Florey ACT

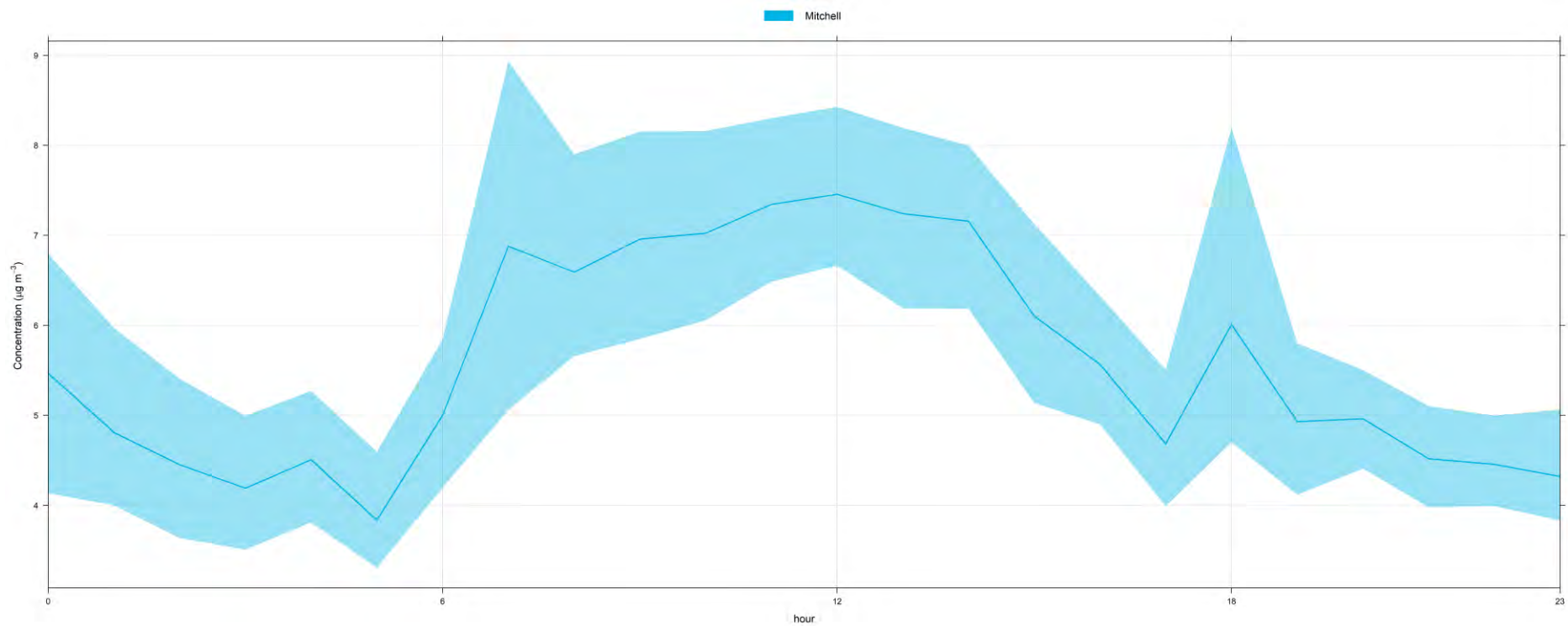


Figure 3.3 Mean PM₁₀ concentrations by hour of the day - 2 April 2022 to 15 May 2022

3.2.2 Summary statistics

Summary statistics for PM₁₀ for the 6-week monitoring period are presented in Table 3.1. As shown in Table 3.1 the Mitchell site recorded a lower period average and lower maximum 24-hour average than at Florey. The maximum 24-hour average for the monitoring period at the site is 20% of the NEPM goal while the period average is 28% of the ACT government's agreed policy position for PM₁₀.

Table 3.1 Summary statistics for monitoring period - PM₁₀ concentration (µg/m³)

Statistic	Mitchell	Florey
Period average (6 weeks)	5.6	7.7
Maximum 24-hour average	10.1	19.4

The 24-hour average PM₁₀ concentrations for the complete period are tabulated in Appendix A.

3.2.3 Longer term monitoring at Florey

If longer term data are required for the HHRA, it is suggested that the Florey Air Quality Monitoring Station could be used as a 'representative' nearby station. Based on the six weeks of data presented above, the Florey Air Quality Monitoring Station may provide a conservative (more protective) ambient background for the HHRA at the Mitchell site location. The observed difference in recorded concentrations between the two monitoring locations may be a combined function of differences in neighbouring emission sources and the types of monitoring equipment installed at either location. Nevertheless, it is considered that the data recorded at the Mitchell site supports the use of data from the Florey Air Quality Monitoring Station for long-term trend analysis.

A summary of air quality statistics for the Florey Air Quality Monitoring Station is provided in Table 3.2. The results indicate that ambient air quality is generally good, with exceedances of the 24-hour average standard occurring infrequently and the annual average concentration generally less than 50% of the NEPM standard (excluding 2019 and 2020). It is noted that the extensive Black Summer bushfire events between November 2019 and February 2020 resulted in elevated levels of PM₁₀ and PM_{2.5} for these years, which are therefore not considered representative of air pollution exposure in a typical year.

Table 3.2 Long-term summary statistics for PM₁₀ – Florey Air Quality Monitoring Station 2014 - 2021

Year	Maximum 24-hour average (µg/m ³)	Number of days above NEPM standard (50 µg/m ³)	Annual average (µg/m ³)
2014	33	0	10.2
2015	76	1	10.6
2016	30	0	10.0
2017	31	0	9.9
2018	163	3	12.1
2019	363	30	22.9
2020	875	22	24.7
2021	38	0	9.7

Note: The results may be slightly different to what is reported by the ACT government in their annual NEPM compliance reports (for example²) due to slight differences in validation and averaging of the data.

3.3 PM_{2.5}

3.3.1 Timeseries analysis

A timeseries of the hourly average PM_{2.5} concentrations for the monitoring period for is presented in Figure 3.4, showing both the site (Mitchell) and Florey monitoring data. The timeseries plot shows that the hourly data at Mitchell and Florey are comparable; however the Florey site displays a smoother trend and the Mitchell site displays more short-term fluctuation (spikes) in the data. This may be indicative of the type of instruments used (reference method at Florey and indicative method at Mitchell), rather than an indication of the ambient environment.

The same data are presented again in Figure 3.5, showing the daily average PM_{2.5} concentrations for Mitchell and Florey. The daily average is used to compare against the ambient air quality standard and the dotted red line represents the ambient air quality standard for daily average PM_{2.5} (25 µg/m³). For the daily averages presented in Figure 3.5, the short-term fluctuation is removed and the trends at Mitchell and Florey are generally similar. The Florey site records higher daily average PM_{2.5} concentrations for most of the monitoring period.

A time variation plot of the mean hourly PM_{2.5} concentrations for the monitoring period is presented in Figure 3.6 for the Mitchell site. The plot shows PM_{2.5} concentrations increasing in the mornings, remaining higher throughout the day with a secondary peak occurring around 6:00 pm.

² <https://www.accesscanberra.act.gov.au/s/article/air-pollution-tab-related-resources>

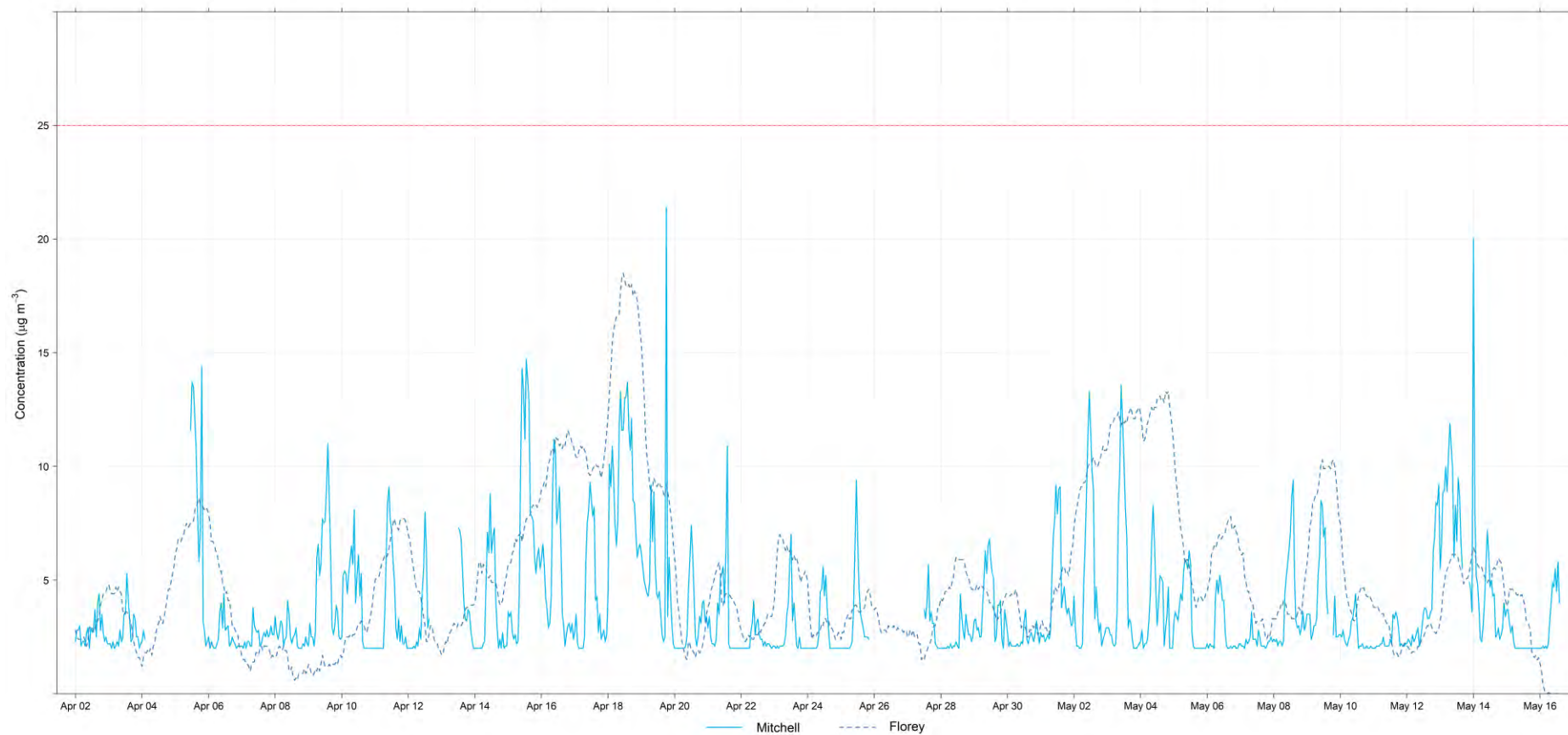


Figure 3.4 Hourly average PM_{2.5} concentrations from 2 April 2022 to 15 May 2022 – Mitchell and Florey ACT

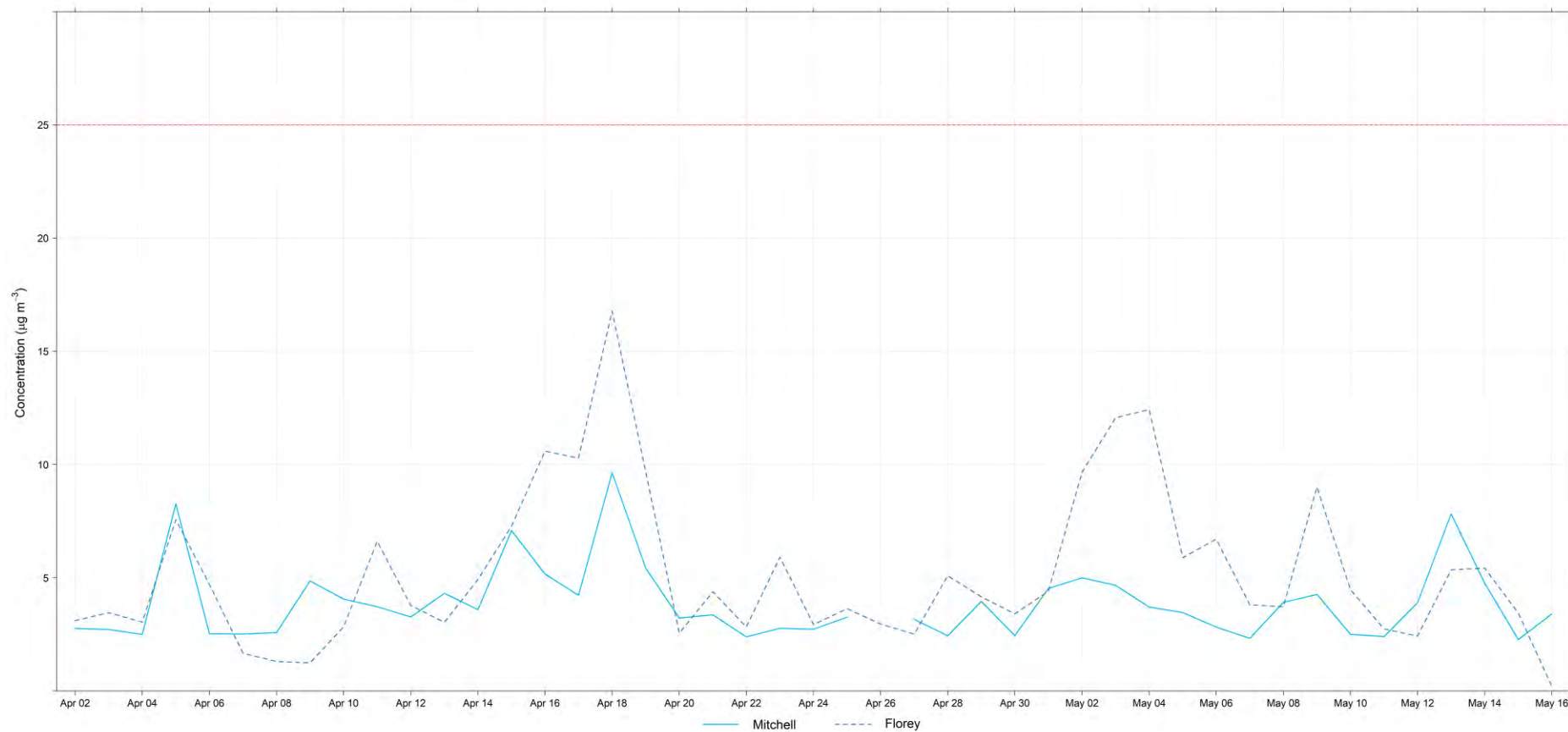


Figure 3.5 24-hour average PM_{2.5} concentrations from 2 April 2022 to 15 May 2022 – Mitchell and Florey ACT

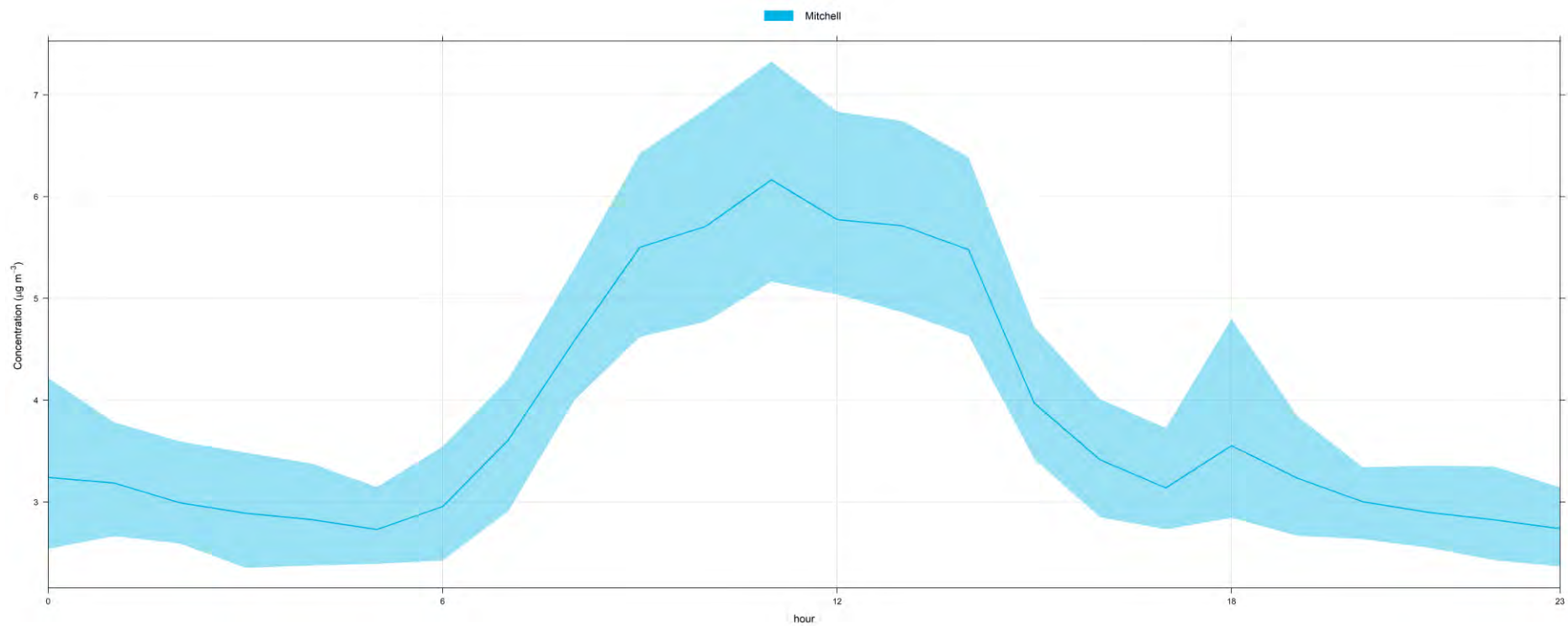


Figure 3.6 Mean PM_{2.5} concentrations by hour of the day - 2 April 2022 to 15 May 2022

3.3.2 Summary statistics

Summary statistics for PM_{2.5} for the 6-week monitoring period are presented in Table 3.3. As shown in Table 3.3 the Mitchell site recorded a lower period average and lower maximum 24-hour average than at Florey. The maximum 24-hour average for the monitoring period at the site is 39% of the NEPM goal while the period average is 49% of the NEPM goal.

Table 3.3 Summary statistics for monitoring period - PM_{2.5} concentration (µg/m³)

Statistic	Mitchell	Florey
Period average (6 weeks)	3.9	5.3
Maximum 24-hour average	9.6	16.8

The 24-hour average PM_{2.5} concentrations for the complete period are tabulated in Appendix A.

3.3.3 Longer term monitoring at Florey

If longer term data are required for the HHRA, it is suggested that the Florey Air Quality Monitoring Station could be used as a 'representative' nearby station. Based on the six weeks of data presented above, the Florey Air Quality Monitoring Station may provide a conservative (more protective) ambient background for the HHRA at the Mitchell site location. The observed difference in recorded concentrations between the two monitoring locations may be a combined function of differences in neighbouring emission sources and the types of monitoring equipment installed at either location. Nevertheless, it is considered that the data recorded at the Mitchell site supports the use of data from the Florey Air Quality Monitoring Station for long-term trend analysis.

A summary of air quality statistics for the Florey Air Quality Monitoring Station is provided in Table 3.4. The results indicate that exceedances of the 24-hour average standard occur during most years, while annual average concentrations are approaching the NEPM standard in most years (excluding 2019 and 2020). Winter time exceedances of the 24-hour average concentration typically occur from wood heaters³. It is noted that the extensive Black Summer bushfire events between November 2019 and February 2020 resulted in elevated levels of PM₁₀ and PM_{2.5} for these years, which are therefore not considered representative of air pollution exposure in a typical year.

Table 3.4 Long-term summary statistics for PM_{2.5} – Florey Air Quality Monitoring Station 2014 - 2021

Year	Maximum 24-hour average (µg/m ³)	Number of days above NEPM standard (25 µg/m ³)	Number of days above policy position (20 µg/m ³)	Annual average (µg/m ³)
2014	20	0	0	5.5
2015	26	2	16	6.6
2016	28	3	8	7.0
2017	25	1	11	7.2
2018	28	1	9	7.2
2019	329	28	37	14.5
2020	762	29	43	18.5
2021	28	3	8	6.1

³ <https://www.accesscanberra.act.gov.au/s/article/air-pollution-tab-related-resources>

Note: The results may be slightly different to what is reported by the ACT government in their annual NEPM compliance reports due to slight differences in validation and averaging of the data.

3.4 NO₂

3.4.1 Timeseries analysis

A timeseries of the hourly average NO₂ concentrations for the monitoring period for is presented in Figure 3.7, showing both the site (Mitchell) and Florey monitoring data. The timeseries plot shows that the hourly data at Mitchell and Florey are comparable. The 1-hour NEPM standard is shown by the dotted red line (150 µg/m³).

A time variation plot of the mean hourly NO₂ concentrations for the monitoring period is presented in Figure 3.8 for the Mitchell site, showing a clear morning and evening peak.

3.4.2 Summary statistics

Summary statistics for NO₂ for the 6-week monitoring period are presented in Table 3.6, showing the Mitchell site recorded a lower period average than Florey but a similar 1-hour maximum concentration. It is noted that the lower period average at Mitchell is a result of more zero values in the data. If these zero values are removed (from both datasets), the period average for Mitchell (7.7 µg/m³) and Florey (8.4 µg/m³) are very similar. The maximum 1-hour average for the monitoring period at the site is 25% of the NEPM goal while the period average is 14% of the NEPM goal.

Table 3.5 Summary statistics for monitoring period - NO₂ concentration (µg/m³)

Statistic	Mitchell	Florey
Period average (6 weeks)	3.9	7.5
Maximum 1-hour average	37.8	37.2

The daily maximum 1-hour average NO₂ concentrations for the complete period are tabulated in Appendix A.

3.4.3 Longer term monitoring at Florey

If longer term data are required for the HHRA, it is suggested that the Florey Air Quality Monitoring Station could be used as a 'representative' nearby station. Based on the six weeks of data presented above, the Florey Air Quality Monitoring Station may provide a conservative (more protective) ambient background for the HHRA at the Mitchell site location. The observed difference in recorded concentrations between the two monitoring locations may be a combined function of differences in neighbouring emission sources and the types of monitoring equipment installed at either location. Nevertheless, it is considered that the data recorded at the Mitchell site supports the use of data from the Florey Air Quality Monitoring Station for long-term trend analysis.

A summary of air quality statistics for the Florey Air Quality Monitoring Station is provided in Table 3.6. The results indicate that ambient air quality is generally good, with exceedances of the 1-hour average NO₂ criterion occurring infrequently and the recorded annual average NO₂ concentration generally less than 20% of the NEPM standard.

It is noted that the extensive Black Summer bushfire events between November 2019 and February 2020 resulted in elevated 1-hour peak NO₂ concentrations which are therefore not considered representative of air pollution exposure in a typical year. These peak 1-hour NO₂ concentrations do not influence the annual mean in the same way as 24-hour average PM concentrations.

Table 3.6 Long-term summary statistics for NO₂ – Florey Air Quality Monitoring Station 2014 - 2021

Year	Maximum 1-hour average (µg/m ³)	Number of hours above NEPM standard (150 µg/m ³)	Annual average (µg/m ³)
2014	94.0	0	9.1
2015	56.4	0	9.4
2016	75.2	0	8.6
2017	75.2	0	9.5
2018	75.2	0	8.9
2019	545.2	10	9.4
2020	319.6	5	7.6
2021	7.0	0	9.7

Note: The results may be slightly different to what is reported by the ACT government in their annual NEPM compliance reports (for example) due to slight differences in validation and averaging of the data.

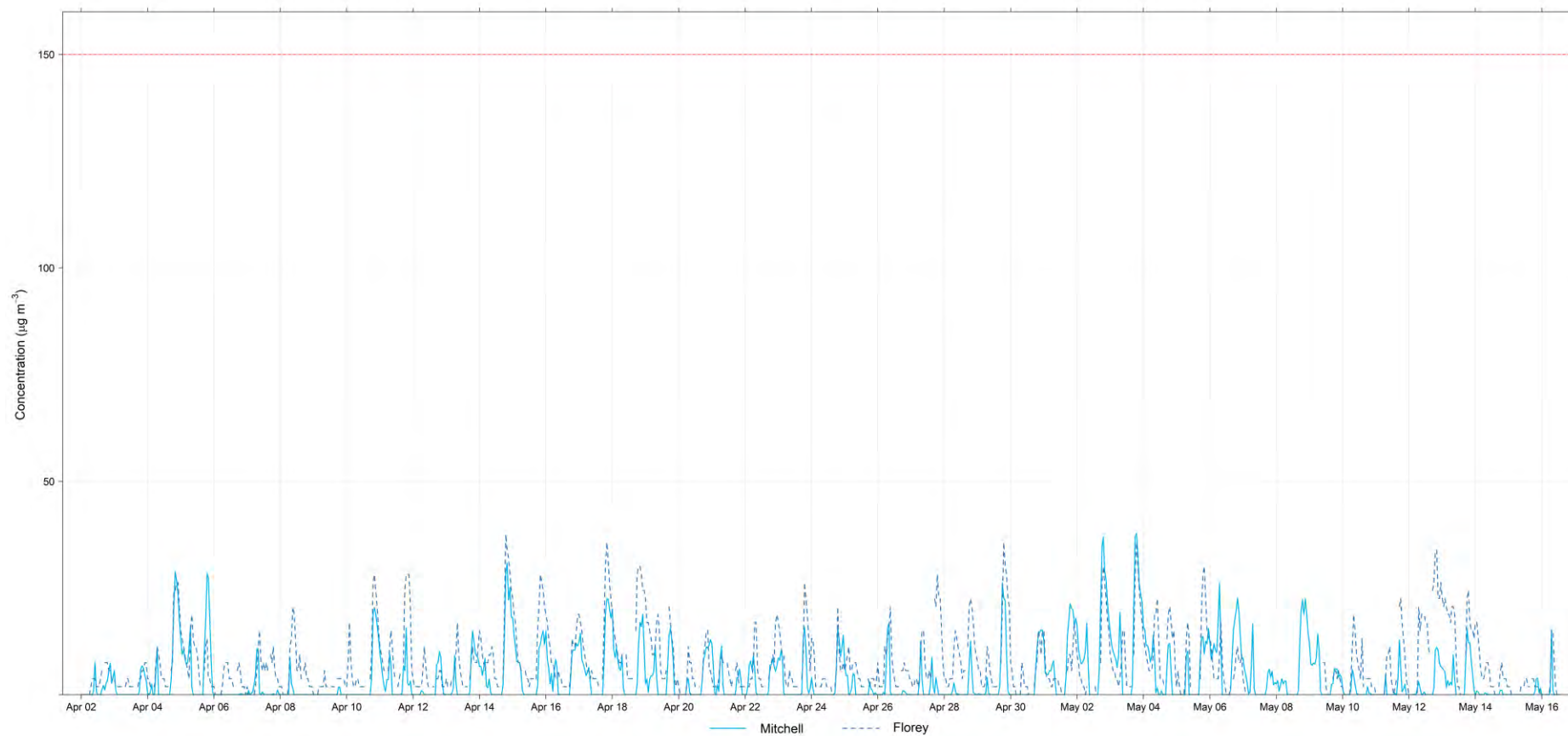


Figure 3.7 Hourly average NO₂ concentrations from 2 April 2022 to 15 May 2022 – Mitchell and Florey ACT

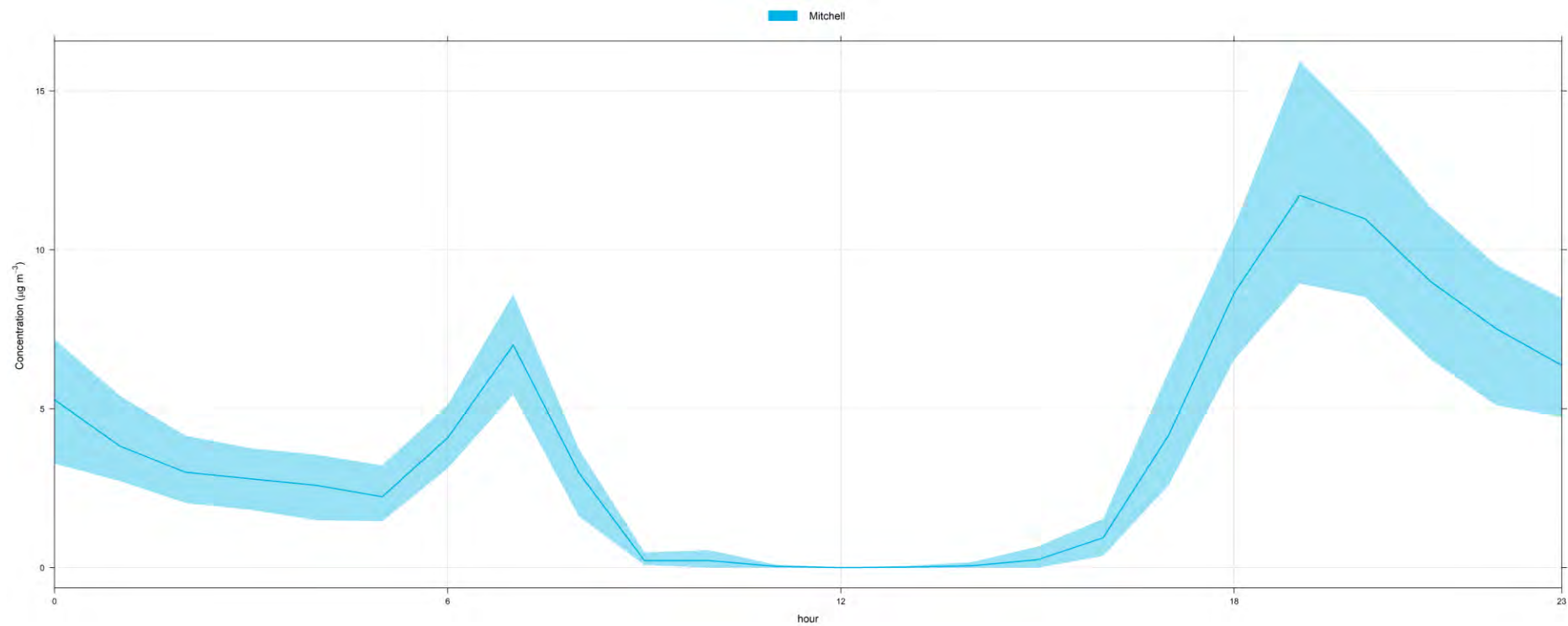


Figure 3.8 Mean NO₂ concentrations by hour of the day - 2 April 2022 to 15 May 2022

3.5 SO₂

3.5.1 Timeseries analysis

A timeseries of the hourly average SO₂ concentrations for the monitoring period for is presented in Figure 3.9 showing the Mitchell site monitoring data. The 1-hour NEPM standard is shown by the dotted red line (262 µg/m³). It is noted that due to a lack of heavy industry in the ACT, the ACT Government does not monitor SO₂ at their NEPM performance monitoring stations⁴, therefore monitoring results are presented for Mitchell only.

3.5.2 Summary statistics

Summary statistics for SO₂ for the 6-week monitoring period are presented in Table 3.7. The maximum 1-hour average for the monitoring period at the site is 66% of the NEPM goal.

Table 3.7 Summary statistics for monitoring period - SO₂ concentration (µg/m³)

Statistic	Mitchell	Florey
Period average (6 weeks)	6.2	NA
Maximum 1-hour average	171.7	NA

The daily maximum 1-hour average SO₂ concentrations for the complete period are tabulated in Appendix A.

⁴ <https://www.health.act.gov.au/about-our-health-system/population-health/environmental-monitoring/air-quality/air-pollutants-and>

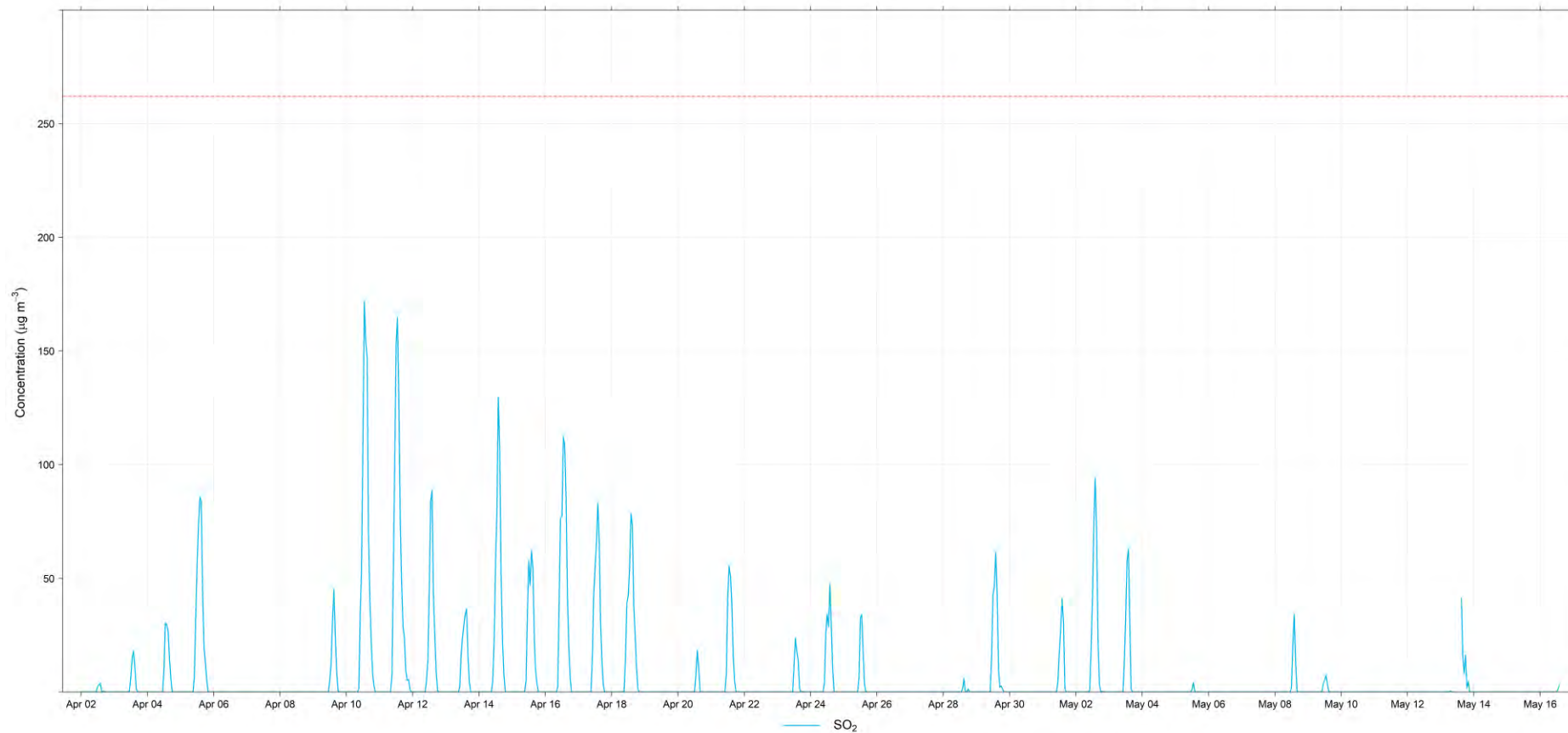


Figure 3.9 Hourly average SO₂ concentrations from 2 April 2022 to 15 May 2022 – Mitchell ACT

3.6 CO

3.6.1 Timeseries analysis

A timeseries of the rolling 8-hour average CO concentrations for the monitoring period for is presented in Figure 3.10, showing both the site (Mitchell) and Florey monitoring data. The timeseries plot shows that the hourly data at Mitchell and Florey are comparable. The 8-hour NEPM standard is not shown ($10 \mu\text{g}/\text{m}^3$), so that the data are presented more clearly.

3.6.2 Summary statistics

Summary statistics for CO for the 6-week monitoring period are presented in Table 3.8, showing the Mitchell site recorded a lower period average and 8-hour maximum concentration than Florey. The maximum 8-hour average for the monitoring period at the site is 6% of the NEPM goal.

Table 3.8 Summary statistics for monitoring period - CO concentration ($\mu\text{g}/\text{m}^3$)

Statistic	Mitchell	Florey
Period average (6 weeks)	0.1	0.3
Maximum 1-hour average	0.6	1.2

The daily maximum 8-hour average CO concentrations for the complete period are tabulated in Appendix A.

3.6.3 Longer term monitoring at Florey

If longer term data are required for the HHRA, it is suggested that the Florey Air Quality Monitoring Station could be used as a 'representative' nearby station. Based on the six weeks of data presented above, the Florey Air Quality Monitoring Station may provide a conservative (more protective) ambient background for the HHRA at the Mitchell site location. The observed difference in recorded concentrations between the two monitoring locations may be a combined function of differences in neighbouring emission sources and the types of monitoring equipment installed at either location. Nevertheless, it is considered that the data recorded at the Mitchell site supports the use of data from the Florey Air Quality Monitoring Station for long-term trend analysis.

A summary of air quality statistics for the Florey Air Quality Monitoring Station is provide in Table 3.9. The results indicate that exceedances of the CO rarely occur.

It is noted that the extensive Black Summer bushfire events between November 2019 and February 2020 resulted in elevated 8-hour peak CO concentrations which are therefore not considered representative of air pollution exposure in a typical year.

Table 3.9 Long-term summary statistics for CO – Florey Air Quality Monitoring Station 2014 - 2021

Year	Maximum 8-hour average ($\mu\text{g}/\text{m}^3$)	Number of hours above goal ($127 \mu\text{g}/\text{m}^3$)
2014	3.7	0
2015	0.9	0
2016	2.3	0
2017	1.9	0
2018	1.6	0
2019	5.7	0
2020	15.4	23
2021	1.8	0

Note: The results may be slightly different to what is reported by the ACT government in their annual NEPM compliance reports (for example) due to slight differences in validation and averaging of the data.

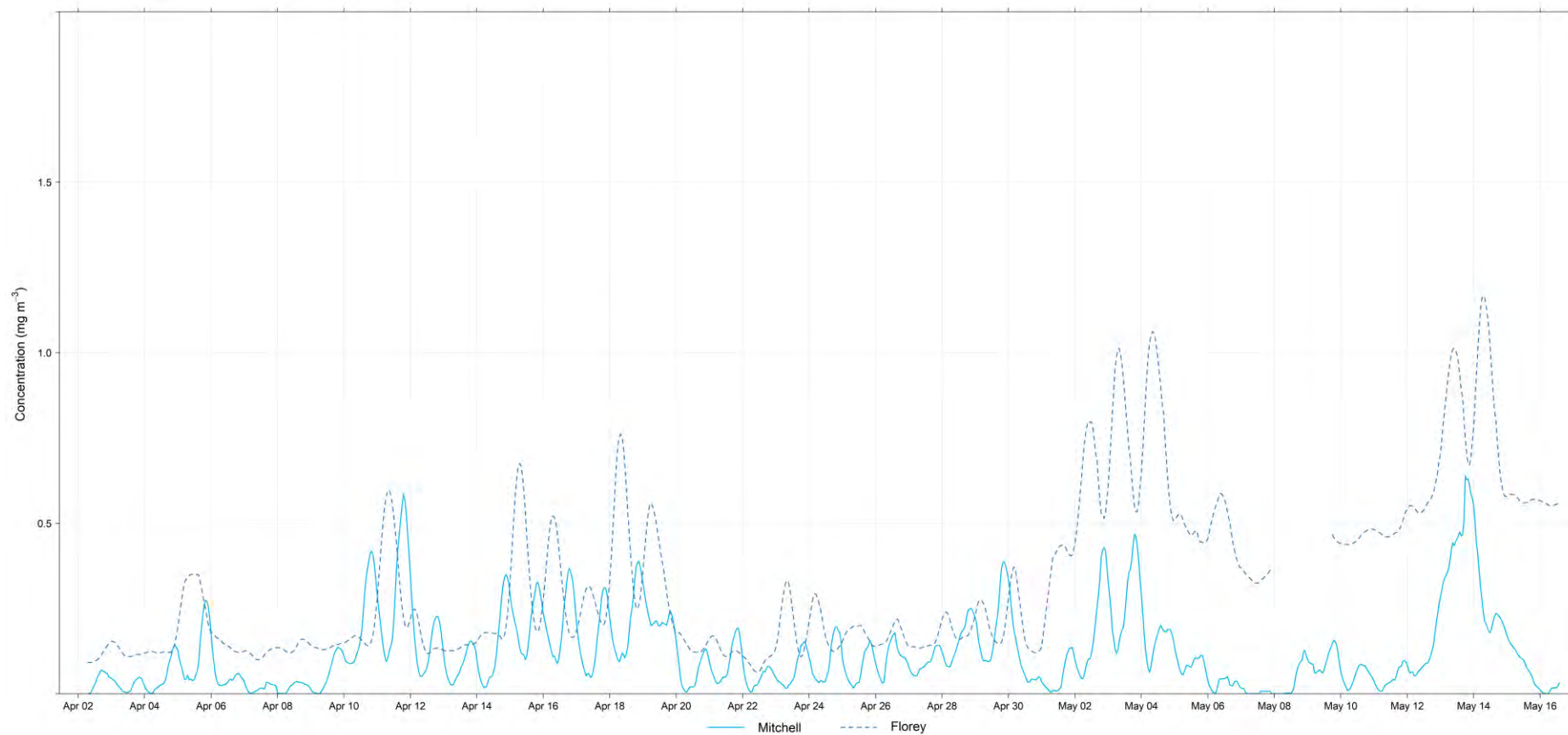


Figure 3.10 Rolling 8-hour average CO concentrations from 2 April 2022 to 15 May 2022 – Mitchell and Florey ACT

3.7 O₃

3.7.1 Timeseries analysis

A timeseries of the rolling 8-hour average O₃ concentrations for the monitoring period is presented in Figure 3.11, showing both the site (Mitchell) and Florey monitoring data. The timeseries plot shows that the rolling 8-hour average data at Mitchell and Florey are comparable, with the peak concentrations aligning in time, with the Florey site generally recording higher peaks. The 8-hour NEPM standard is shown by the dotted red line (127 µg/m³).

3.7.2 Summary statistics

Summary statistics for O₃ for the 6-week monitoring period are presented in Table 3.10, showing the Mitchell site recorded a lower period average than Florey and a higher 8-hour maximum concentration. The maximum 8-hour average for the monitoring period at the site is 70% of the NEPM goal.

Table 3.10 Summary statistics for monitoring period – O₃ concentration (µg/m³)

Statistic	Mitchell	Florey
Period average (6 weeks)	13.6	27.2
Maximum 8-hour average	89.2	64.4

The daily maximum 8-hour average O₃ concentrations for the complete period are tabulated in Appendix A.

3.7.3 Longer term monitoring at Florey

If longer term data are required for the HHRA, it is suggested that the Florey Air Quality Monitoring Station could be used as a 'representative' nearby station. Based on the six weeks of data presented above, the Florey Air Quality Monitoring Station may provide a conservative (more protective) ambient background for the HHRA at the Mitchell site location. The observed difference in recorded concentrations between the two monitoring locations may be a combined function of differences in neighbouring emission sources and the types of monitoring equipment installed at either location. Nevertheless, it is considered that the data recorded at the Mitchell site supports the use of data from the Florey Air Quality Monitoring Station for long-term trend analysis.

A summary of air quality statistics for the Florey Air Quality Monitoring Station is provide in Table 3.11. The results indicate that exceedances of the O₃ rarely occur.

It is noted that the extensive Black Summer bushfire events between November 2019 and February 2020 resulted in elevated 8-hour peak O₃ concentrations which are therefore not considered representative of air pollution exposure in a typical year.

Table 3.11 Long-term summary statistics for O₃ – Florey Air Quality Monitoring Station 2014 - 2021

Year	Maximum 8-hour average (µg/m ³)	Number of hours above goal (127 µg/m ³)
2014	98.0	0
2015	84.0	0
2016	92.4	0
2017	103.6	0
2018	109.2	0
2019	193.2	53
2020	176.4	32
2021	91.6	0

Note: The results may be slightly different to what is reported by the ACT government in their annual NEPM compliance reports (for example) due to slight differences in validation and averaging of the data.

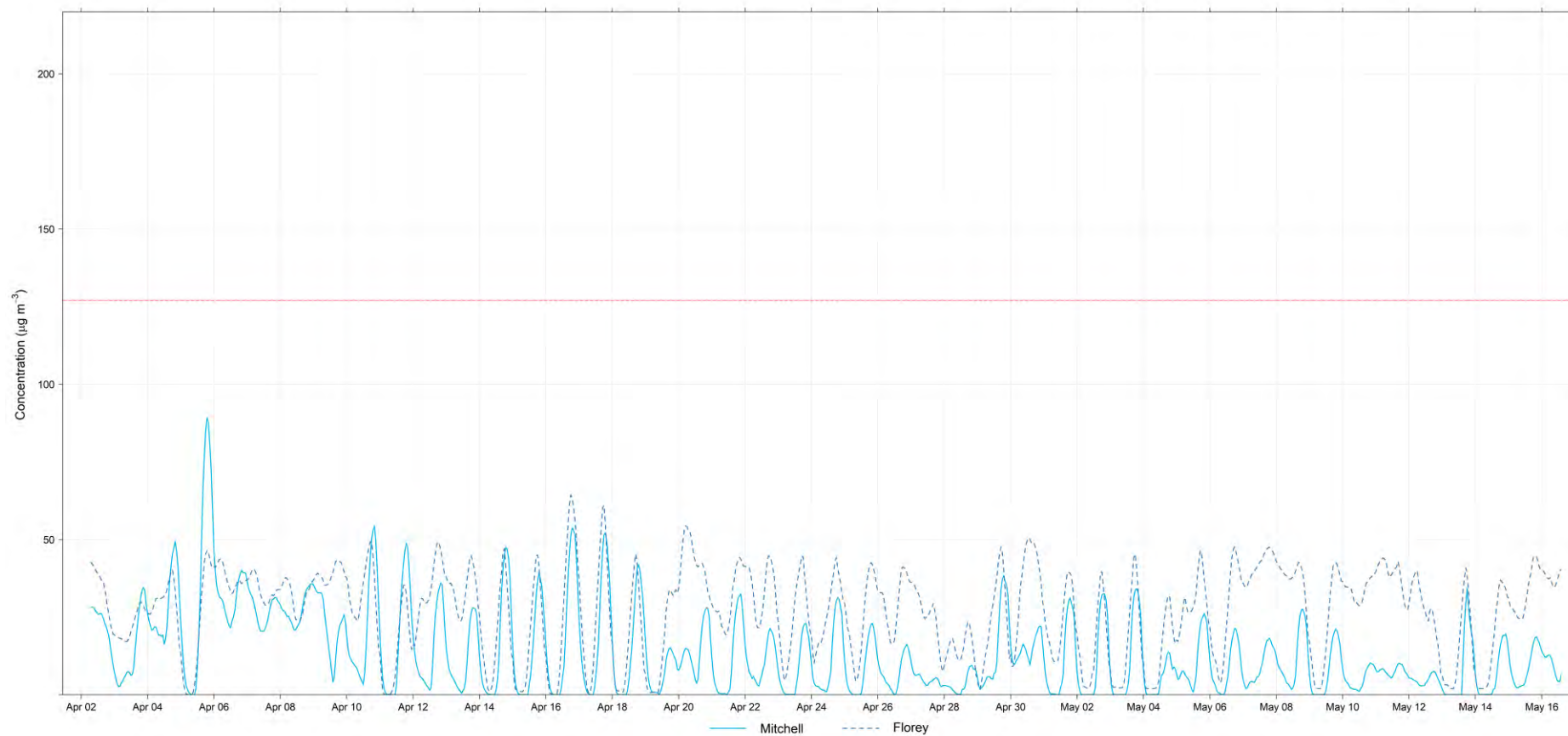


Figure 3.11 Rolling 8-hour average O₃ concentrations from 2 April 2022 to 15 May 2022 – Mitchell and Florey ACT

4 VOC monitoring

4.1 Introduction

To supplement the air quality monitoring dataset, [REDACTED] undertook VOC monitoring using laboratory (Eurofins Airtoxics) supplied summa canisters which were collected as follows:

- Five single day sampling events over a seven week period on alternating day.
- The canisters were calibrated (via a laboratory supplied regulator) for a 12-hour continuous rate sampling period (nominally between 6.00 am to 6.00 pm). The sampling period was established to be representative of air conditions that would be typically encountered during occupancy of the Child Care Centre.
- The canister was placed adjacent to the monitoring equipment (i.e. the approximate location of the outdoor play area) at a height of 1 m to target the hypothetical breathing space of children during occupancy of the Child Care Centre.

In addition, [REDACTED] reviewed a report titled Pacific Environment (2018) Ambient Air Quality Monitoring Report – Mitchell, ACT. 0436136, dated 24 January 2018 for comparison purposes.

4.2 VOC sampling details

A summary of each VOC sampling event and the concurrent meteorological conditions, recorded by the Bureau of Meteorology (BoM) Canberra Airport Automatic Weather Station (AWS), is provided in Table 4.1.

4.3 Analysis Results

Tabulated vapour analysis results are provided Table 1 of Appendix C with corresponding laboratory certificates in Appendix D. In summary all analytes were non-detection with the exception of:

- Sample MITCHELL 21.4.22 reported a detection of Acetone ($68 \mu\text{g}/\text{m}^3$). Given the trace concentration (and non-detection in all other sampling round) it is likely a result of minor laboratory interference.

In summary, VOC analysis were consistent across the seven-week sampling period with no elevated VOCs reported. In addition, the analysis results were consistent with those reported by Pacific Environment (2018) which demonstrate temporal consistency with regards to VOC concentrations at site between 2018 and 2022.

4.4 Quality Assurance / Quality Control (QA/QC)

The laboratory QA/QC (Appendix D) indicated the data to within the acceptable internal range. A single field duplicate (QC101) was collected as part of the fifth monitoring event (1/6/22), Relative Percent Differences (RPDs) could not be calculated (analytes less than the laboratory detection limit). Furthermore, the dataset is consistent with the previous [REDACTED] (2018) report supporting the validity of the VOC results presented in this report.

The data evaluation procedure employed in the assessment of the field and laboratory QA/ QC data indicated that the reported analytical results are representative of air conditions at the sample location and that the overall quality of the analytical data produced is acceptably reliable for the purpose of the assessment.

Table 4.1 VOC sampling period meteorological conditions

Date	Start/Finish Time	Duration	Weather Conditions (9am and 3pm) ^{Note}
12.4.22	06:25 - 18:30	12 Hours	Barometer Pressure (hPa) – 1022.5 / 1019.5 Temperature Range °C – 10.4 / 19.7 Wind Speed (km/h) – 4 / 13 (max 33) Wind Direction – SE to E General - Fine
21.4.22	6:00-18:00	12 Hours	Barometer Pressure (hPa) – 1024.5 / 1023 Temperature Range °C – 4.8 / 20.2 Wind Speed (km/h) – 7 / 7 (max 33) Wind Direction – SE to WSW General - Fine
3.5.22	05:35-17:35	12 Hours	Barometer Pressure (hPa) – 1023.3 / 1019 Temperature Range °C – 1.9 / 20.1 Wind Speed (km/h) – 2 / 19 (max 28) Wind Direction – NW to NNW General - Fine
9.5.22	05:38-16:50	11 Hours	Barometer Pressure (hPa) – 1029.9 / 1028.4 Temperature Range °C – 2.2 / 17.1 Wind Speed (km/h) – 7 / 17 (max 28) Wind Direction – SSW to NE General - Fine
1.6.22	06:10-17:15	11 Hours	Barometer Pressure (hPa) – 1007.3 / 1010.1 Temperature Range °C – 1.4 / 8.3 Wind Speed (km/h) – 24 / 30 (max 57) Wind Direction – N to WNW General - Fine

Note: Data sourced from <http://www.bom.gov.au/>

5 Identifying sources of local air pollution

Canberra's air quality is generally good, with the major causes of poor air quality coming from particle pollution from hazard reduction burns, dust storms and wood heaters⁵.

The previous air quality monitoring report (PEL 2018) identified local sources of emissions, however the referral letter from HPS indicated that while usage of the surrounding blocks was identified, there was no consideration of potential expansion of permitted activities on these blocks and the impact that this would have on local air quality.

There are two facilities in Mitchell that report emissions to the National Pollution Inventory (NPI), as follows:

- [REDACTED]
- [REDACTED]

Due to the separation distances reported above, it is not expected that either of these facilities would directly influence the air quality in the vicinity of the site. As an example, the ACT government provide recommended separation distances for various industries⁶ and although separation distances are not provided for these specific activities, similar types of activities can be referenced. For example, dying or finishing textiles is given a recommended separation distance of 100 m while gas distribution facilities are given a separation distance of 300 m.

There is also a number of small-scale commercial facilities located in the immediate vicinity of the site, with the following identified within 100-200 m of the site. The site is bordered by an auto repairs workshop and some general office space to the immediate south. Immediately opposite the site across Heffernan Street to the north are landscaping facilities, including a 'soil and stuff' landscape supplies facility. Along Darling St to the east there are various general commercial/wholesale premises, including a discount pharmacy, carpet and blinds wholesale shops, wholesale plumbing premises, a gym, type shops, a mechanical and electrical wholesale premises, a scrap metal facility, a retail paint store and tool hire shop. Similarly, various commercial office and retail premises exist along Winchcombe Ct to the southwest, including cafes, gym, tire shop, motorcycle and auto centres.

None of the identified commercial facilities within 100-200 m would emit significant emissions to air, such that local air quality in the vicinity of the site would not be significantly different (worse) than other areas of Canberra. It is expected that the main contributing sources of daytime air pollution would be local traffic, rather than any specific identified commercial premises.

In terms of future changes to air quality for the local area, it doesn't appear likely that the existing uses, both in terms of scale and types of activity, would change significantly into the future. However, the HHRA could consider this by completing some sensitivity analysis to account for future changes in local air quality.

⁵ <https://www.accesscanberra.act.gov.au/s/article/air-pollution-tab-related-resources>

⁶ <https://files.accesscanberra.act.gov.au/files/air-pollution/Separation-Distance-Guidelines-for-Air-Emissions-Nov+2018+-+FINAL.pdf>

6 Conclusion

█ has been commissioned to manage a short-term ambient air quality monitoring campaign on the site. The purpose of the monitoring campaign is to describe the ambient air quality for the area and to inform a HHRA.

A 6-week monitoring programme was completed which includes:

- continuous monitoring for PM₁₀ and PM_{2.5} using a FDS PM monitoring system;
- continuous air quality monitoring for NO₂, SO₂, O₃ and CO using a Polludrone multi-parameter sensor; and
- spot sampling for VOCs using Summa canisters.

The monitoring equipment was deployed at a location that is representative of the proposed outdoor play area in the western area of the site. The ambient monitoring program commenced on 1 April 2022 and continued until 16 May 2022, covering a period of 6 weeks. The monitoring data was verified by comparing with monitoring data for the same period from the Florey Air Quality Station, operated by the ACT Government for the purpose of reporting under the NEPM.

A summary of the monitoring results is as follows:

- The site recorded a lower period average PM₁₀ and lower maximum 24-hour average PM₁₀ than at Florey. The maximum 24-hour average for the monitoring period at the site is 20% of the NEPM goal while the period average is 28% of the ACT government's agreed policy position for PM₁₀.
- The site recorded a lower period average PM_{2.5} and lower maximum 24-hour average PM_{2.5} than at Florey. The maximum 24-hour average for the monitoring period at the site is 39% of the NEPM goal while the period average is 49% of the NEPM goal.
- The site recorded a lower period average NO₂ than Florey but a similar 1-hour maximum NO₂ concentration. The maximum 1-hour average NO₂ for the monitoring period at the site is 25% of the NEPM goal while the period average is 14% of the NEPM goal.
- The maximum 1-hour average SO₂ for the monitoring period at the site is 66% of the NEPM goal. The ACT Government does not monitor SO₂ at their NEPM performance monitoring stations, therefore monitoring results are not compared to Florey.
- The site recorded a lower period average and lower 8-hour maximum CO concentration than Florey. The maximum 8-hour average for the monitoring period at the site is 6% of the NEPM goal.
- The site recorded a lower period average O₃ than Florey and a higher 8-hour maximum O₃ concentration. The maximum 8-hour average for the monitoring period at the site is 70% of the NEPM goal.
- No detectable concentrations of VOCs were recorded during the monitoring period.

None of the identified commercial facilities within 100-200 m of the site would emit significant emissions to air, such that local air quality in the vicinity of the site would not be significantly different (worse) than other areas of Canberra. It is expected that the main contributing sources of daytime air pollution would be local traffic, rather than any specific identified commercial premises.

If longer term data are required for the HHRA, it is suggested that the Florey Air Quality Monitoring Station could be used as a 'representative' nearby station. Based on the six weeks of data presented above, the Florey Air Quality Monitoring Station may provide a conservative (more protective) ambient background for the HHRA at the Mitchell site location. The observed difference in recorded concentrations between the two monitoring locations may be a combined function of differences in neighbouring emission sources and the types of monitoring equipment installed at either location. Nevertheless, it is considered that the data recorded at the Mitchell site supports the use of data from the Florey Air Quality Monitoring Station for long-term trend analysis.

7 References

NEPC (1998). National Environmental Protection Measure for Ambient Air Quality. National Environmental Protection Council.

NEPC (2003). National Environmental Protection Measure (Ambient Air Quality) Measure, as amended, made under the National Environment Protection Act 1994. National Environmental Protection Council, 7 July 2003.

NEPC (2015). Variation to the National Environment Protection (Ambient Air Quality) Measure. National Environment Protection Act 1994. National Environmental Protection Council, 15 December 2015.

NEPC (2021). National Environmental Protection (Ambient Air Quality) Measure (Cth). (2021). Accessed on 28 May 2021.

PEL (2018). Ambient Air Quality Monitoring Report – Mitchell, ACT, Document control number: 0436136, 24 January 2018.

Appendix A

Summary of the 24-hour and hourly data from site

A.1 Daily average PM₁₀ and PM_{2.5} data

Table A.1 Daily average PM₁₀ and PM_{2.5} concentration (µg/m³)

Date	PM ₁₀ concentration (µg/m ³)	PM _{2.5} concentration (µg/m ³)
2/04/2022	9.3	2.8
3/04/2022	3.5	2.7
4/04/2022	2.9	2.5
5/04/2022	10.0	8.3
6/04/2022	3.3	2.5
7/04/2022	4.1	2.5
8/04/2022	3.4	2.6
9/04/2022	5.9	4.9
10/04/2022	5.7	4.1
11/04/2022	6.8	3.7
12/04/2022	6.9	3.3
13/04/2022	5.8	4.3
14/04/2022	5.2	3.6
15/04/2022	7.6	7.1
16/04/2022	7.5	5.2
17/04/2022	6.0	4.2
18/04/2022	10.1	9.6
19/04/2022	9.3	5.4
20/04/2022	4.1	3.2
21/04/2022	5.3	3.4
22/04/2022	4.5	2.4
23/04/2022	3.8	2.8
24/04/2022	4.7	2.7
25/04/2022	4.3	3.3
26/04/2022		
27/04/2022	4.6	3.2
28/04/2022	3.4	2.4
29/04/2022	6.6	4.0
30/04/2022	4.4	2.4
1/05/2022	6.2	4.5
2/05/2022	8.0	5.0
3/05/2022	8.1	4.7
4/05/2022	6.2	3.7

Table A.1 Daily average PM₁₀ and PM_{2.5} concentration (µg/m³)

Date	PM ₁₀ concentration (µg/m ³)	PM _{2.5} concentration (µg/m ³)
5/05/2022	4.4	3.5
6/05/2022	5.9	2.8
7/05/2022	3.5	2.3
8/05/2022	5.1	3.9
9/05/2022	5.9	4.3
10/05/2022	3.5	2.5
11/05/2022	3.5	2.4
12/05/2022	4.7	3.9
13/05/2022	8.9	7.8
14/05/2022	6.0	4.8
15/05/2022	3.0	2.3

A.2 Daily maximum 1-hour average data

Table A.2 Daily maximum 1-hour average NO₂ and SO₂ and 8-hour CO and O₃ concentration (µg/m³)

Date	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)	O ₃ (µg/m ³)	CO (mg/m ³)
2/04/2022	7.7	3.8	28.2	0.1
3/04/2022	6.7	18.1	34.6	0.0
4/04/2022	28.9	30.3	49.4	0.1
5/04/2022	28.4	85.8	89.2	0.3
6/04/2022	0.3	0.0	46.6	0.2
7/04/2022	10.8	0.0	36.7	0.0
8/04/2022	8.7	0.0	35.8	0.0
9/04/2022	1.9	45.1	35.4	0.1
10/04/2022	20.4	171.7	54.4	0.4
11/04/2022	15.7	164.7	48.8	0.6
12/04/2022	10.1	88.8	36.0	0.3
13/04/2022	15.0	36.5	28.0	0.2
14/04/2022	30.8	130.3	47.5	0.3
15/04/2022	18.0	62.1	39.3	0.3
16/04/2022	14.9	112.2	53.8	0.4
17/04/2022	22.6	83.1	52.2	0.3
18/04/2022	20.1	78.4	42.0	0.4
19/04/2022	15.6	0.0	17.0	0.3
20/04/2022	12.9	18.6	28.1	0.2
21/04/2022	12.0	55.3	32.4	0.2
22/04/2022	9.1	0.0	21.4	0.1
23/04/2022	15.9	23.8	23.2	0.2
24/04/2022	15.5	47.4	31.3	0.2
25/04/2022	6.8	34.0	23.0	0.2
26/04/2022	16.8	0.0	16.1	0.2
27/04/2022	12.5	0.0	10.7	0.1
28/04/2022	12.6	5.9	9.5	0.3
29/04/2022	26.2	61.4	38.4	0.4
30/04/2022	15.2	0.0	22.1	0.3
1/05/2022	21.4	41.2	31.1	0.1
2/05/2022	36.9	94.2	32.5	0.4
3/05/2022	37.8	62.8	34.1	0.5
4/05/2022	15.8	0.0	13.8	0.3
5/05/2022	15.5	4.2	26.2	0.1

Table A.2 Daily maximum 1-hour average NO₂ and SO₂ and 8-hour CO and O₃ concentration (µg/m³)

Date	NO ₂ (µg/m ³)	SO ₂ (µg/m ³)	O ₃ (µg/m ³)	CO (mg/m ³)
6/05/2022	26.2	0.0	21.4	0.1
7/05/2022	16.6	0.0	18.2	0.0
8/05/2022	22.5	34.2	27.6	0.1
9/05/2022	14.2	7.3	21.1	0.2
10/05/2022	5.9	0.0	10.3	0.1
11/05/2022	12.9	0.0	10.2	0.1
12/05/2022	11.1	0.0	7.5	0.3
13/05/2022	15.4	41.4	34.2	0.6
14/05/2022	1.1	0.0	19.5	0.6
15/05/2022	3.9	0.0	18.7	0.2
16/05/2022	15.3	3.1	14.0	0.0

Appendix B

Site layout and monitoring location



Figure B.2 Monitoring equipment installed onsite

Appendix C

VOC Analysis Results

Table 1
VOC Analysis Results

Sample ID	MITCHELL 12.4.22	MITCHELL 21.4.22	MITCHELL 3.5.22	MITCHELL 9.5.22	MITCHELL 1/06/22	QC101
Dilution Factor	1.9	2	2.2	2.1	2	2
ASTM D1945/D1946						
1.3-Butadiene	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
1-Butene	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
1-Pentene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2-Methyl-2-Butene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acetylene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Carbon Dioxide	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
Carbon Monoxide	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
cis-2-Pentene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Ethane	< 0.08	< 0.08	< 0.09	< 0.08	< 0.08	< 0.08
Ethene	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Helium	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1
Hydrogen	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
Isobutane	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
Isobutylene	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
Isopentane	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Methane	< 0.1	< 0.1	< 0.11	< 0.1	< 0.1	< 0.1
Methyl Acetylene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
n-Butane	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
Nitrogen	78.00	78.00	82.000	78.00	78.00	78.00
n-Pentane	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Oxygen + Argon	22.00	22.00	18.000	22.00	22.00	22.00
Propadiene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Propane	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Propylene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
trans-2-Butene	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
trans-2-Pentene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
CRC CARE TR 23 PVI						
>C10-C12	< 100	< 100	< 110	< 105	< 100	< 100
>C10-C12 minus Naphthalene (mod F2)	< 100	< 100	< 110	< 105	< 100	< 100
>C6-C10	< 100	< 100	< 110	< 105	< 100	< 100
>C6-C10 TRH minus BTEX (F1)	< 100	< 100	< 110	< 105	< 100	< 100
US EPA Compendium Methods TO-15						
1.1.1-Trichloroethane	< 5	< 6	< 6	< 6	< 5	< 6
1.1.1.2-Tetrachloroethane	< 7	< 7	< 8	< 7	< 7	< 7
1.1.2-Trichloroethane	< 5	< 6	< 6	< 6	< 5	< 6
1.1-Dichloroethane	< 4	< 4	< 4	< 4	< 4	< 4
1.1-Dichloroethene	< 4	< 4	< 4	< 4	< 4	< 4
1.2.4-Trichlorobenzene	< 29	< 30	< 33	< 31	< 30	< 30
1.2.4-Trimethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5
1.2-Dibromoethane (EDB)	< 7	< 7	< 8	< 7	< 7	< 7
1.2-Dichlorobenzene	< 6	< 6	< 7	< 6	< 6	< 6
1.2-Dichloroethane	< 4	< 4	< 4	< 4	< 4	< 4
1.2-Dichloropropane	< 4	< 5	< 5	< 5	< 5	< 5
1.3.5-Trimethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5
1.3-Butadiene	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2
1.3-Dichlorobenzene	< 6	< 6	< 7	< 6	< 6	< 6
1.4-Dichlorobenzene	< 6	< 6	< 7	< 6	< 6	< 6
1.4-Dioxane	< 14	< 15	< 16	< 15	< 14	< 15
2.2.4-Trimethylpentane	< 18	< 19	< 21	< 19	< 19	< 19
2-Butanone (Methyl Ethyl Ketone)	< 11	< 12	< 13	< 12	< 12	< 12
2-Hexanone	< 16	< 17	< 18	< 17	< 16	< 17
3-Chloropropene	< 12	< 13	< 14	< 13	< 13	< 13
4-Ethyltoluene	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-Pentanone (MIBK)	< 4	< 4	< 5	< 4	< 4	< 4
Acetone	< 23	68.00	< 26	< 25	< 24	< 24
Benzene	< 3	< 3	< 4	< 3	< 3	< 3
Bromodichloromethane	< 6	< 7	< 7	< 7	< 7	< 7
Bromoform	< 10	< 10	< 11	< 11	< 10	< 10
Bromomethane	< 37	< 39	< 43	< 40	< 39	< 39
Carbon Disulfide	< 15.6	< 15.6	< 15.6	< 15.6	< 15.6	< 15.6
Carbon Tetrachloride	< 6	< 6	< 7	< 7	< 6	< 6
Chlorobenzene	< 4	< 5	< 5	< 5	< 5	< 5
Chloroethane	< 10	< 11	< 12	< 11	< 11	< 11
Chloroform	< 5	< 5	< 5	< 5	< 5	< 5
Chloromethane	< 20	< 21	< 23	< 21	< 21	< 21
Chlorotoluene (Benzyl Chloride)	< 5	< 5	< 6	< 5	< 5	< 5
cis-1.2-Dichloroethene	< 4	< 4	< 4	< 4	< 4	< 4
cis-1.3-Dichloropropene	< 4	< 5	< 5	< 5	< 5	< 5
Cyclohexane	< 3.5	< 3.5	< 4	< 4	< 3.5	< 3.5
Dibromochloromethane	< 8	< 9	< 9	< 9	< 9	< 9
Ethanol	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4	< 9.4
Ethylbenzene	< 4	< 4	< 5	< 5	< 4	< 4
Freon 11 (Trichlorofluoromethane)	< 5	< 6	< 6	< 6	< 6	< 6
Freon 113 (Trichlorotrifluoroethane)	< 7	< 8	< 9	< 8	< 8	< 8
Freon 114	< 7	< 7	< 8	< 7	< 7	< 7
Freon 12 (Dichlorodifluoromethane)	< 5	< 5	< 5	< 5	< 5	< 5
Heptane	< 4	< 4	< 5	< 4	< 4	< 4
Hexachlorobutadiene	< 41	< 43	< 47	< 44	< 43	< 43
Hexane	< 5	< 5	< 5	< 5	< 5	< 5
Isopropanol	< 95	< 99	< 109	< 102	< 99	< 99

Table 1
VOC Analysis Results

Sample ID	MITCHELL 12.4.22	MITCHELL 21.4.22	MITCHELL 3.5.22	MITCHELL 9.5.22	MITCHELL 1/06/22	QC101
Dilution Factor	1.9	2	2.2	2.1	2	2
ASTM D1945/D1946						
1.3-Butadiene	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
1-Butene	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
1-Pentene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2-Methyl-2-Butene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Acetylene	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Carbon Dioxide	< 0.06	< 0.06	< 0.07	< 0.06	< 0.06	< 0.06
m,p-Xylene	< 8	< 9	< 10	< 9	< 9	< 9
Methyl t-Butyl Ether (MTBE)	< 14	< 15	< 16	< 15	< 14	< 15
Methylene Chloride	< 34	< 35	< 39	< 36	< 35	< 35
Naphthalene	< 21	< 22	< 24	< 22	< 21	< 22
o-Xylene	< 4	< 4	< 5	< 5	< 4	< 4
Propylene	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6	< 8.6
Styrene	< 4	< 4	< 5	< 4	< 4	< 4
Tetrachloroethene	< 7	< 7	< 8	< 7	< 7	< 7
Tetrahydrofuran	< 3	< 3	< 3	< 3	< 3	< 3
Toluene	< 7.5	< 7.5	< 7.5	< 7.5	< 7.5	< 7.5
trans-1.2-Dichloroethene	< 4	< 4	< 4	< 4	< 4	< 4
trans-1.3-Dichloropropene	< 4	< 5	< 5	< 5	< 5	< 5
Trichloroethene	< 5	< 5	< 6	< 6	< 5	< 5
Vinyl Acetate	< 14	< 14	< 16	< 15	< 14	< 14
Vinyl Chloride	< 2.5	< 3	< 3	< 3	< 3	< 3
Xylenes - Total	< 13	< 13	< 14	< 14	< 13	< 13

Appendix D

Laboratory Certificates

CHAIN OF CUSTODY RECORD

AKN55 (20-10572)

Company		Project Name		Project Manager		Sampler(s)	
Address		Agon Michel Vapour #02		EDD Format (ESQid, EQUIS, Custom)		KL	
Contact Name		ATI		ESDAT		Handed over by	
Phone No						J.O	
Special Directions		5 Day TAT		Canister ID		Email for Invoice	
Purchase Order		Quote ID No		Canister Vacuum Pressure - Final		Email for Results	
Quote ID No		Client Sample ID		Canister Vacuum Pressure - Initial		Containers	
NE		Sampled Date/Time (dd/mm/yyyy hh:mm)		Matrix (Solid (S) Water (W))		Turnaround Time (TAT) Requirements (only with 3 day method)	
1		21.4.2022		V		<input type="checkbox"/> Overnight (9am) <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Day* <input checked="" type="checkbox"/> 3 Day* <input checked="" type="checkbox"/> 5 Day* *Surcharges apply	
2						Jar (Glass) Jar (HDPE) Bag 500mL ACM Bag Acid Sulfate Sol Small plastic bottle Vial (headspace) Plastic bottle (Inorganics) Amber bottle	
3						Sample Comments / Dangerous Goods Hazard Warning	
4						6:00-18:00 (12 hours)	
5							
6							
48							
49							
Method of Shipment		Courier: (#) <input type="checkbox"/> Hard Delivered <input type="checkbox"/> Postal <input type="checkbox"/>		Date		Time	
Eurofins Ingt Laboratory Use Only		Received By		21/04/22		10:00	
Eurofins Ingt Laboratory Use Only		Received By		21/04/22		9:40 AM	
Total Counts		1		Date		Report No	
SYD BNE MEL PER ADL NTL DRW		SYD BNE MEL PER ADL NTL DRW		21/04/22		8925	

RECORD 27

Standard samples to this laboratory will be cleaned in accordance with the laboratory's standard terms and conditions. A copy of Eurofins' Ingt Standard Terms and Conditions is available on request.

Sample Receipt Advice

Company name: [REDACTED]
Contact name: [REDACTED]
Project name: [REDACTED]
Project ID: Not provided
Turnaround time: 5 Day
Date/Time received: Apr 22, 2022 10:00 AM
[REDACTED] [REDACTED]

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Results will be delivered electronically via email to [REDACTED]

Note: A copy of these results will also be delivered to the general [REDACTED].

[REDACTED]

Client Sample ID			G01 MITCHELL 21.4.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- Ap0049975
Date Sampled			Apr 21, 2022
Receipt Vac./Pressure (inHg)			9.7
Final Pressure (psi)			5.4
Test/Reference	LOR	Unit	
Dilution Factor	0.1		2.0
US EPA Compendium Methods TO-15			
1.1-Dichloroethane	2	ug/m3	< 4
1.1-Dichloroethene	2	ug/m3	< 4
1.1.1-Trichloroethane	2.7	ug/m3	< 6
1.1.2-Trichloroethane	2.7	ug/m3	< 6
1.1.2.2-Tetrachloroethane	3.4	ug/m3	< 7
1.2-D bromoethane (EDB)	3.6	ug/m3	< 7
1.2-Dichlorobenzene	3	ug/m3	< 6
1.2-Dichloroethane	2	ug/m3	< 4
1.2-Dichloropropane	2.3	ug/m3	< 5
1.2.4-Trichlorobenzene	15	ug/m3	< 30
1.2.4-Trimethy benzene	2.5	ug/m3	< 5
1.3-Butadiene	2.2	ug/m3	< 2.2
1.3-Dichlorobenzene	3	ug/m3	< 6
1.3.5-Trimethy benzene	2.5	ug/m3	< 5
1.4-Dichlorobenzene	3	ug/m3	< 6
1.4-Dioxane	7.2	ug/m3	< 15
2-Butanone (Methyl Ethyl Ketone)	5.9	ug/m3	< 12
2-Hexanone	8.2	ug/m3	< 17
2.2.4-Trimethylpentane	9.3	ug/m3	< 19
3-Chloropropene	1.6	ug/m3	< 13
4-Ethyltoluene	2.5	ug/m3	< 5
4-Methyl-2-Pentanone (MIBK)	2.1	ug/m3	< 4
Acetone	16.6	ug/m3	68
Benzene	1.6	ug/m3	< 3
Bromodichloromethane	3.4	ug/m3	< 7
Bromoform	5.2	ug/m3	< 10
Bromomethane	19.4	ug/m3	< 39
Carbon Disulfide	15.6	ug/m3	< 15.6
Carbon Tetrachloride	3.1	ug/m3	< 6
Chlorobenzene	2.3	ug/m3	< 5

Client Sample ID			G01 MITCHELL 21.4.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- Ap0049975
Date Sampled			Apr 21, 2022
Receipt Vac./Pressure (inHg)			9.7
Final Pressure (psi)			5.4
Test/Reference	LOR	Unit	
US EPA Compendium Methods TO-15			
Chloroethane	5.3	ug/m3	< 11
Chloroform	2.4	ug/m3	< 5
Chloromethane	10.3	ug/m3	< 21
Chlorotoluene (Benzyl Chloride)	2.6	ug/m3	< 5
cis-1.2-Dichloroethene	2	ug/m3	< 4
cis-1.3-Dichloropropene	2.3	ug/m3	< 5
Cyclohexane	3.5	ug/m3	< 3.5
Dibromochloromethane	4.3	ug/m3	< 9
Methylene Chloride	17.4	ug/m3	< 35
Ethanol	9.4	ug/m3	< 9.4
Ethylbenzene	2.2	ug/m3	< 4
Freon 11 (Trichlorofluoromethane)	2.8	ug/m3	< 6
Freon 113 (Trichlorotrifluoroethane)	3.8	ug/m3	< 8
Freon 114	3.5	ug/m3	< 7
Freon 12 (Dichlorodifluoromethane)	2.5	ug/m3	< 5
Heptane	2.1	ug/m3	< 4
Hexachlorobutadiene	21.3	ug/m3	< 43
Hexane	5	ug/m3	< 5
Isopropanol	50	ug/m3	< 99
m.p-Xylene	4.4	ug/m3	< 9
Xylenes - Total	6.6	ug/m3	< 13
Methyl t-Butyl Ether (MTBE)	7.2	ug/m3	< 15
Naphthalene	10.5	ug/m3	< 22
o-Xylene	2.2	ug/m3	< 4
Propylene	8.6	ug/m3	< 8.6
Styrene	2.1	ug/m3	< 4
Tetrachloroethene	3.4	ug/m3	< 7
Tetrahydrofuran	1.5	ug/m3	< 3
Toluene	7.5	ug/m3	< 7.5
trans-1.2-Dichloroethene	2	ug/m3	< 4
trans-1.3-Dichloropropene	2.3	ug/m3	< 5
Trichloroethene	2.7	ug/m3	< 5
Vinyl Acetate	7.0	ug/m3	< 14
Vinyl Chloride	2.5	ug/m3	< 3
4-Bromofluorobenzene (surr.)	1	%	75
ASTM D1945/D1946			
1-Butene	0.03	mol %	< 0.06
1-Pentene	0.01	mol %	< 0.02
1.3-Butadiene	0.03	mol %	< 0.06
2-Methyl-2-Butene	0.01	mol %	< 0.02
Acetylene	0.01	mol %	< 0.02
Carbon Dioxide	0.03	mol %	< 0.06
Carbon Monoxide	0.02	mol %	< 0.04
cis-2-Pentene	0.01	mol %	< 0.02
Ethane	0.04	mol %	< 0.08

Client Sample ID			G01 MITCHELL 21.4.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- Ap0049975
Date Sampled			Apr 21, 2022
Receipt Vac./Pressure (inHg)			9.7
Final Pressure (psi)			5.4
Test/Reference	LOR	Unit	
ASTM D1945/D1946			
Ethene	0.02	mol %	< 0.04
Helium	0.05	mol %	< 0.1
Hydrogen	0.03	mol %	< 0.06
Isobutane	0.03	mol %	< 0.06
Isobutylene	0.03	mol %	< 0.06
Isopentane	0.01	mol %	< 0.02
Methane	0.05	mol %	< 0.1
Methyl Acetylene	0.01	mol %	< 0.02
n-Butane	0.03	mol %	< 0.06
n-Pentane	0.01	mol %	< 0.02
Nitrogen	0.1	mol %	78
Oxygen + Argon	0.1	mol %	22
Propadiene	0.01	mol %	< 0.02
Propane	0.02	mol %	< 0.04
Propylene	0.01	mol %	< 0.02
trans-2-Butene	0.03	mol %	< 0.06
trans-2-Pentene	0.01	mol %	< 0.02
CRC CARE TR 23 PVI			
>C6-C10	100	ug/m3	< 100
>C6-C10 TRH minus BTEX (F1)	100	ug/m3	< 100
>C10-C12 minus Naphthalene (mod F2)	100	ug/m3	< 100
>C10-C12	100	ug/m3	< 100

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
US EPA Compendium Methods TO-15 - Method: SOP #6 Analysis of Volatile Organic Compounds in Passivated Canisters EPA Method TO-15 And Modified EPA Method TO-14A	BrisbaneAir	Apr 26, 2022	30 Days
ASTM D1945/D1946 - Method: SOP #8 Analysis of Oxygen, Nitrogen, Methane, Ethane, Ethene, Carbon Monoxide, Carbon Dioxide, Hydrogen and NMOC by Modified ASTM Method D1946	BrisbaneAir	Apr 26, 2022	30 Days
CRC CARE TR 23 PVI - Method: SOP #111 TPH, NMOC, and TVH Hydrocarbon Fractionation Calculations from EPA Methods TO-14A/TO-15	BrisbaneAir	Apr 26, 2022	30 Days

Sample Detail

Dilution Factor				
Final Pressure (psi)				
Receipt Vac./Pressure (in Hg)				
AirToxics Extended Suite 1: US EPA Compendium Methods TO-14a TO-15/CRC				

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	MITCHELL 21.4.22	Apr 21, 2022	6:00AM	6L Passivated Canister	T22-Ap0049975	X	X	X	X
Test Counts						1	1	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Dilutions are performed on samples due to the presence of high level target species or the presence of high level non-target species.
3. Results are uncorrected for surrogate recoveries.
4. All QC limit exceedances and affected sample results are noted by flags. Each qualifying flag is defined below in section entitled 'Definition of Data Qualifying Flags' and additionally on individual sample results (where relevant).
5. "100% certification" is defined as evaluating the sampling system with humid zero air/N₂ and humid calibration gases that pass through all active components of the sampling system. The system is "100% certified" if no significant additions or deletions (less than 0.2 ppbv each of target compounds) have occurred when challenged with the test gas stream.
6. The conversion equation from ppbv to g/m³ uses a temperature of 25 °C and an ambient sea level atmospheric pressure of 1 atmosphere (101.325 kPa) is assumed.
7. All canister samples are only analysed once temperature equilibrium with the laboratory has been achieved.
8. Safe Sampling Volume (SSV) - calculated by taking two-thirds of the breakthrough volume (direct method) and Appendix 1 of Method T0-17.
9. Samples were analysed on an 'as received' basis.
10. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
11. This report replaces any interim results previously issued.

Definition of Data Qualifying Flags

Qualifiers may have been used on the data analysis sheets and indicates as follows:

- A01 Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- A02 Estimated value.
- A03 Exceeds instrument calibration range.
- A04 Saturated peak.
- A05 Exceeds quality control limits.
- A06 Compound analysed for but not detected above the Limit of Reporting (LOR). See data page for project specific U-flag definition.
- A07 Non-detected compound associated with low bias in the CCV.
- A08 The identification is based on presumptive evidence.
- A09 SSV has been exceeded for this compound. It is likely that this compound has been underestimated.
- A10 LORs cited do not take into account sample dilution due to canister pressurisation.
- A11 Naphthalene elutes outside the >C10-C12 range on the system used for sample analysis. As a result, >C10-C12 TRH value is equivalent to the modified F2 value.

Holding Times

Under conditions of normal usage for sampling ambient air, most Volatile Organic Compounds (VOCs) can be recovered from canisters near their original concentrations after storage times of up to thirty days. For thermal desorption tubes (TDT) samples should be refrigerated at <4°C in a clean environment during storage and analysed within 30 days of sample collection (within one week for limonene, carene, bis-chloromethyl ether and labile sulfur or nitrogen containing volatiles).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

ppbv parts per billion by volume

kPa kilopascal

ug/m³ micrograms per cubic metre

psig pounds per square inch gauge

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
US EPA Compendium Methods TO-15							
1.1-Dichloroethane	ug/m3	< 2			2	Pass	
1.1-Dichloroethene	ug/m3	< 2			2	Pass	
1.1.1-Trichloroethane	ug/m3	< 2.7			2.7	Pass	
1.1.2-Trichloroethane	ug/m3	< 2.7			2.7	Pass	
1.1.2.2-Tetrachloroethane	ug/m3	< 3.4			3.4	Pass	
1.2-D bromoethane (EDB)	ug/m3	< 3.6			3.6	Pass	
1.2-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.2-Dichloroethane	ug/m3	< 2			2	Pass	
1.2-Dichloropropane	ug/m3	< 2.3			2.3	Pass	
1.2.4-Trichlorobenzene	ug/m3	< 15			15	Pass	
1.2.4-Trimethy benzene	ug/m3	< 2.5			2.5	Pass	
1.3-Butadiene	ug/m3	< 2.2			2.2	Pass	
1.3-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.3.5-Trimethy benzene	ug/m3	< 2.5			2.5	Pass	
1.4-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.4-Dioxane	ug/m3	< 7.2			7.2	Pass	
2-Butanone (Methyl Ethyl Ketone)	ug/m3	< 5.9			5.9	Pass	
2-Hexanone	ug/m3	< 8.2			8.2	Pass	
2.2.4-Trimethylpentane	ug/m3	< 9.3			9.3	Pass	
3-Chloropropene	ug/m3	< 1.6			1.6	Pass	
4-Ethyltoluene	ug/m3	< 2.5			2.5	Pass	
4-Methyl-2-Pentanone (MIBK)	ug/m3	< 2.1			2.1	Pass	
Acetone	ug/m3	< 16.6			16.6	Pass	
Benzene	ug/m3	< 1.6			1.6	Pass	
Bromodichloromethane	ug/m3	< 3.4			3.4	Pass	
Bromoform	ug/m3	< 5.2			5.2	Pass	
Bromomethane	ug/m3	< 19.4			19.4	Pass	
Carbon Disulfide	ug/m3	< 15.6			15.6	Pass	
Carbon Tetrachloride	ug/m3	< 3.1			3.1	Pass	
Chlorobenzene	ug/m3	< 2.3			2.3	Pass	
Chloroethane	ug/m3	< 5.3			5.3	Pass	
Chloroform	ug/m3	< 2.4			2.4	Pass	
Chloromethane	ug/m3	< 10.3			10.3	Pass	
Chlorotoluene (Benzyl Chloride)	ug/m3	< 2.6			2.6	Pass	
cis-1.2-Dichloroethene	ug/m3	< 2			2	Pass	
cis-1.3-Dichloropropene	ug/m3	< 2.3			2.3	Pass	
Cyclohexane	ug/m3	< 3.5			3.5	Pass	
Dibromochloromethane	ug/m3	< 4.3			4.3	Pass	
Methylene Chloride	ug/m3	< 17.4			17.4	Pass	
Ethanol	ug/m3	< 9.4			9.4	Pass	
Ethylbenzene	ug/m3	< 2.2			2.2	Pass	
Freon 11 (Trichlorofluoromethane)	ug/m3	< 2.8			2.8	Pass	
Freon 113 (Trichlorotrifluoroethane)	ug/m3	< 3.8			3.8	Pass	
Freon 114	ug/m3	< 3.5			3.5	Pass	
Freon 12 (Dichlorodifluoromethane)	ug/m3	< 2.5			2.5	Pass	
Heptane	ug/m3	< 2.1			2.1	Pass	
Hexachlorobutadiene	ug/m3	< 21.3			21.3	Pass	
Hexane	ug/m3	< 5			5	Pass	
Isopropanol	ug/m3	< 50			50	Pass	
m,p-Xylene	ug/m3	< 4.4			4.4	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total	ug/m3	< 6.6		6.6	Pass	
Methyl t-Butyl Ether (MTBE)	ug/m3	< 7.2		7.2	Pass	
Naphthalene	ug/m3	< 10.5		10.5	Pass	
o-Xylene	ug/m3	< 2.2		2.2	Pass	
Propylene	ug/m3	< 8.6		8.6	Pass	
Styrene	ug/m3	< 2.1		2.1	Pass	
Tetrachloroethene	ug/m3	< 3.4		3.4	Pass	
Tetrahydrofuran	ug/m3	< 1.5		1.5	Pass	
Toluene	ug/m3	< 7.5		7.5	Pass	
trans-1,2-Dichloroethene	ug/m3	< 2		2	Pass	
trans-1,3-Dichloropropene	ug/m3	< 2.3		2.3	Pass	
Trichloroethene	ug/m3	< 2.7		2.7	Pass	
Vinyl Acetate	ug/m3	< 7		7.0	Pass	
Vinyl Chloride	ug/m3	< 2.5		2.5	Pass	
Method Blank						
ASTM D1945/D1946						
1-Butene	mol %	< 0.03		0.03	Pass	
1-Pentene	mol %	< 0.01		0.01	Pass	
1,3-Butadiene	mol %	< 0.03		0.03	Pass	
2-Methyl-2-Butene	mol %	< 0.01		0.01	Pass	
Acetylene	mol %	< 0.01		0.01	Pass	
Carbon Dioxide	mol %	< 0.03		0.03	Pass	
Carbon Monoxide	mol %	< 0.02		0.02	Pass	
cis-2-Pentene	mol %	< 0.01		0.01	Pass	
Ethane	mol %	< 0.04		0.04	Pass	
Ethene	mol %	< 0.02		0.02	Pass	
Helium	mol %	< 0.05		0.05	Pass	
Hydrogen	mol %	< 0.03		0.03	Pass	
Isobutane	mol %	< 0.03		0.03	Pass	
Isobutylene	mol %	< 0.03		0.03	Pass	
Isopentane	mol %	< 0.01		0.01	Pass	
Methane	mol %	< 0.05		0.05	Pass	
Methyl Acetylene	mol %	< 0.01		0.01	Pass	
n-Butane	mol %	< 0.03		0.03	Pass	
n-Pentane	mol %	< 0.01		0.01	Pass	
Oxygen + Argon	mol %	< 0.1		0.1	Pass	
Propadiene	mol %	< 0.01		0.01	Pass	
Propane	mol %	< 0.02		0.02	Pass	
Propylene	mol %	< 0.01		0.01	Pass	
trans-2-Butene	mol %	< 0.03		0.03	Pass	
trans-2-Pentene	mol %	< 0.01		0.01	Pass	
LCS - % Recovery						
US EPA Compendium Methods TO-15						
1,1-Dichloroethane	%	129		70-130	Pass	
1,1-Dichloroethene	%	127		70-130	Pass	
1,1,1-Trichloroethane	%	120		70-130	Pass	
1,1,2-Trichloroethane	%	130		70-130	Pass	
1,1,2,2-Tetrachloroethane	%	97		70-130	Pass	
1,2-D bromoethane (EDB)	%	127		70-130	Pass	
1,2-Dichlorobenzene	%	83		70-130	Pass	
1,2-Dichloroethane	%	124		70-130	Pass	
1,2-Dichloropropane	%	120		70-130	Pass	
1,2,4-Trichlorobenzene	%	78		70-130	Pass	
1,2,4-Trimethy benzene	%	91		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Butadiene	%	129			70-130	Pass	
1.3-Dichlorobenzene	%	88			70-130	Pass	
1.3.5-Trimethy benzene	%	100			70-130	Pass	
1.4-Dichlorobenzene	%	88			70-130	Pass	
1.4-Dioxane	%	97			70-130	Pass	
2-Butanone (Methyl Ethyl Ketone)	%	127			70-130	Pass	
2-Hexanone	%	127			70-130	Pass	
2.2.4-Trimethylpentane	%	127			70-130	Pass	
3-Chloropropene	%	114			70-130	Pass	
4-Ethyltoluene	%	100			70-130	Pass	
4-Methyl-2-Pentanone (MIBK)	%	115			70-130	Pass	
Acetone	%	112			70-130	Pass	
Benzene	%	111			70-130	Pass	
Bromodichloromethane	%	123			70-130	Pass	
Bromoform	%	108			70-130	Pass	
Bromomethane	%	129			70-130	Pass	
Carbon Disulfide	%	113			70-130	Pass	
Carbon Tetrachloride	%	122			70-130	Pass	
Chlorobenzene	%	128			70-130	Pass	
Chloroethane	%	114			70-130	Pass	
Chloroform	%	126			70-130	Pass	
Chloromethane	%	125			70-130	Pass	
Chlorotoluene (Benzyl Chloride)	%	87			70-130	Pass	
cis-1.2-Dichloroethene	%	120			70-130	Pass	
cis-1.3-Dichloropropene	%	116			70-130	Pass	
Cyclohexane	%	130			70-130	Pass	
Dibromochloromethane	%	128			70-130	Pass	
Methylene Chloride	%	124			70-130	Pass	
Ethanol	%	87			70-130	Pass	
Ethylbenzene	%	111			70-130	Pass	
Freon 11 (Trichlorofluoromethane)	%	118			70-130	Pass	
Freon 113 (Trichlorotrifluoroethane)	%	106			70-130	Pass	
Freon 114	%	108			70-130	Pass	
Freon 12 (Dichlorodifluoromethane)	%	124			70-130	Pass	
Heptane	%	122			70-130	Pass	
Hexachlorobutadiene	%	73			70-130	Pass	
Hexane	%	115			70-130	Pass	
Isopropanol	%	91			70-130	Pass	
m,p-Xylene	%	125			70-130	Pass	
Xylenes - Total	%	122			70-130	Pass	
Methyl t-Butyl Ether (MTBE)	%	102			70-130	Pass	
Naphthalene	%	74			70-130	Pass	
o-Xylene	%	116			70-130	Pass	
Propylene	%	112			70-130	Pass	
Styrene	%	111			70-130	Pass	
Tetrachloroethene	%	112			70-130	Pass	
Tetrahydrofuran	%	127			70-130	Pass	
Toluene	%	117			70-130	Pass	
trans-1.2-Dichloroethene	%	126			70-130	Pass	
trans-1.3-Dichloropropene	%	127			70-130	Pass	
Trichloroethene	%	95			70-130	Pass	
Vinyl Acetate	%	124			70-130	Pass	
Vinyl Chloride	%	129			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
ASTM D1945/D1946							
1-Butene	%	94			70-130	Pass	
1-Pentene	%	95			70-130	Pass	
1.3-Butadiene	%	95			70-130	Pass	
2-Methyl-2-Butene	%	91			70-130	Pass	
Acetylene	%	93			70-130	Pass	
Carbon Dioxide	%	109			70-130	Pass	
Carbon Monoxide	%	99			70-130	Pass	
cis-2-Pentene	%	92			70-130	Pass	
Ethane	%	94			70-130	Pass	
Ethene	%	95			70-130	Pass	
Hydrogen	%	103			70-130	Pass	
Isobutane	%	94			70-130	Pass	
Isobutylene	%	93			70-130	Pass	
Isopentane	%	93			70-130	Pass	
Methane	%	94			70-130	Pass	
Methyl Acetylene	%	93			70-130	Pass	
n-Butane	%	94			70-130	Pass	
n-Pentane	%	93			70-130	Pass	
Propadiene	%	93			70-130	Pass	
Propane	%	95			70-130	Pass	
Propylene	%	94			70-130	Pass	
trans-2-Butene	%	92			70-130	Pass	
trans-2-Pentene	%	93			70-130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference

Authorised by:



Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please [click here](#)



Sample Receipt Advice

Company name: [REDACTED]
Contact name: [REDACTED]
Project name: [REDACTED]
Project ID: Not provided
Turnaround time: 5 Day
Date/Time received: Apr 22, 2022 10:00 AM
[REDACTED] reference [REDACTED]

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Results will be delivered electronically via email to [REDACTED].

Note: A copy of these results will also be delivered to the general [REDACTED].

[REDACTED]

Received Date

Apr 22, 2022

Client Sample ID			G01 MITCHELL 12.4.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- Ap0049986
Date Sampled			Apr 12, 2022
Receipt Vac./Pressure (inHg)			8.7
Final Pressure (psi)			5.4
Test/Reference	LOR	Unit	
Dilution Factor	0.1		1.9
US EPA Compendium Methods TO-15			
1.1-Dichloroethane	2	ug/m3	< 4
1.1-Dichloroethene	2	ug/m3	< 4
1.1.1-Trichloroethane	2.7	ug/m3	< 5
1.1.2-Trichloroethane	2.7	ug/m3	< 5
1.1.2.2-Tetrachloroethane	3.4	ug/m3	< 7
1.2-D bromoethane (EDB)	3.6	ug/m3	< 7
1.2-Dichlorobenzene	3	ug/m3	< 6
1.2-Dichloroethane	2	ug/m3	< 4
1.2-Dichloropropane	2.3	ug/m3	< 4
1.2.4-Trichlorobenzene	15	ug/m3	< 29
1.2.4-Trimethy benzene	2.5	ug/m3	< 5
1.3-Butadiene	2.2	ug/m3	< 2.2
1.3-Dichlorobenzene	3	ug/m3	< 6
1.3.5-Trimethy benzene	2.5	ug/m3	< 5
1.4-Dichlorobenzene	3	ug/m3	< 6
1.4-Dioxane	7.2	ug/m3	< 14
2-Butanone (Methyl Ethyl Ketone)	5.9	ug/m3	< 11
2-Hexanone	8.2	ug/m3	< 16
2.2.4-Trimethylpentane	9.3	ug/m3	< 18
3-Chloropropene	1.6	ug/m3	< 12
4-Ethyltoluene	2.5	ug/m3	< 5
4-Methyl-2-Pentanone (MIBK)	2.1	ug/m3	< 4
Acetone	16.6	ug/m3	< 23
Benzene	1.6	ug/m3	< 3
Bromodichloromethane	3.4	ug/m3	< 6
Bromoform	5.2	ug/m3	< 10
Bromomethane	19.4	ug/m3	< 37
Carbon Disulfide	15.6	ug/m3	< 15.6
Carbon Tetrachloride	3.1	ug/m3	< 6
Chlorobenzene	2.3	ug/m3	< 4

Client Sample ID			G01 MITCHELL 12.4.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- Ap0049986
Date Sampled			Apr 12, 2022
Receipt Vac./Pressure (inHg)			8.7
Final Pressure (psi)			5.4
Test/Reference	LOR	Unit	
US EPA Compendium Methods TO-15			
Chloroethane	5.3	ug/m3	< 10
Chloroform	2.4	ug/m3	< 5
Chloromethane	10.3	ug/m3	< 20
Chlorotoluene (Benzyl Chloride)	2.6	ug/m3	< 5
cis-1.2-Dichloroethene	2	ug/m3	< 4
cis-1.3-Dichloropropene	2.3	ug/m3	< 4
Cyclohexane	3.5	ug/m3	< 3.5
Dibromochloromethane	4.3	ug/m3	< 8
Methylene Chloride	17.4	ug/m3	< 34
Ethanol	9.4	ug/m3	< 9.4
Ethylbenzene	2.2	ug/m3	< 4
Freon 11 (Trichlorofluoromethane)	2.8	ug/m3	< 5
Freon 113 (Trichlorotrifluoroethane)	3.8	ug/m3	< 7
Freon 114	3.5	ug/m3	< 7
Freon 12 (Dichlorodifluoromethane)	2.5	ug/m3	< 5
Heptane	2.1	ug/m3	< 4
Hexachlorobutadiene	21.3	ug/m3	< 41
Hexane	5	ug/m3	< 5
Isopropanol	50	ug/m3	< 95
m.p-Xylene	4.4	ug/m3	< 8
Xylenes - Total	6.6	ug/m3	< 13
Methyl t-Butyl Ether (MTBE)	7.2	ug/m3	< 14
Naphthalene	10.5	ug/m3	< 21
o-Xylene	2.2	ug/m3	< 4
Propylene	8.6	ug/m3	< 8.6
Styrene	2.1	ug/m3	< 4
Tetrachloroethene	3.4	ug/m3	< 7
Tetrahydrofuran	1.5	ug/m3	< 3
Toluene	7.5	ug/m3	< 7.5
trans-1.2-Dichloroethene	2	ug/m3	< 4
trans-1.3-Dichloropropene	2.3	ug/m3	< 4
Trichloroethene	2.7	ug/m3	< 5
Vinyl Acetate	7.0	ug/m3	< 14
Vinyl Chloride	2.5	ug/m3	< 2.5
4-Bromofluorobenzene (surr.)	1	%	77
ASTM D1945/D1946			
1-Butene	0.03	mol %	< 0.06
1-Pentene	0.01	mol %	< 0.02
1.3-Butadiene	0.03	mol %	< 0.06
2-Methyl-2-Butene	0.01	mol %	< 0.02
Acetylene	0.01	mol %	< 0.02
Carbon Dioxide	0.03	mol %	< 0.06
Carbon Monoxide	0.02	mol %	< 0.04
cis-2-Pentene	0.01	mol %	< 0.02
Ethane	0.04	mol %	< 0.08

Client Sample ID			G01 MITCHELL 12.4.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- Ap0049986
Date Sampled			Apr 12, 2022
Receipt Vac./Pressure (inHg)			8.7
Final Pressure (psi)			5.4
Test/Reference	LOR	Unit	
ASTM D1945/D1946			
Ethene	0.02	mol %	< 0.04
Helium	0.05	mol %	< 0.1
Hydrogen	0.03	mol %	< 0.06
Isobutane	0.03	mol %	< 0.06
Isobutylene	0.03	mol %	< 0.06
Isopentane	0.01	mol %	< 0.02
Methane	0.05	mol %	< 0.1
Methyl Acetylene	0.01	mol %	< 0.02
n-Butane	0.03	mol %	< 0.06
n-Pentane	0.01	mol %	< 0.02
Nitrogen	0.1	mol %	78
Oxygen + Argon	0.1	mol %	22
Propadiene	0.01	mol %	< 0.02
Propane	0.02	mol %	< 0.04
Propylene	0.01	mol %	< 0.02
trans-2-Butene	0.03	mol %	< 0.06
trans-2-Pentene	0.01	mol %	< 0.02
CRC CARE TR 23 PVI			
>C6-C10	100	ug/m3	< 100
>C6-C10 TRH minus BTEX (F1)	100	ug/m3	< 100
>C10-C12 minus Naphthalene (mod F2)	100	ug/m3	< 100
>C10-C12	100	ug/m3	< 100

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
US EPA Compendium Methods TO-15 - Method: SOP #6 Analysis of Volatile Organic Compounds in Passivated Canisters EPA Method TO-15 And Modified EPA Method TO-14A	BrisbaneAir	Apr 26, 2022	30 Days
ASTM D1945/D1946 - Method: SOP #8 Analysis of Oxygen, Nitrogen, Methane, Ethane, Ethene, Carbon Monoxide, Carbon Dioxide, Hydrogen and NMOC by Modified ASTM Method D1946	BrisbaneAir	Apr 26, 2022	30 Days
CRC CARE TR 23 PVI - Method: SOP #111 TPH, NMOC, and TVH Hydrocarbon Fractionation Calculations from EPA Methods TO-14A/TO-15	BrisbaneAir	Apr 26, 2022	30 Days

Sample Detail						Dilution Factor	Final Pressure (psi)	Receipt Vac./Pressure (in Hg)	AirToxics Extended Suite 1: US EPA Compendium Methods TO-14a TO-15/CRC
[REDACTED]									
[REDACTED]									
[REDACTED]						X	X	X	X
[REDACTED]									
[REDACTED]									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	MITCHELL 12.4.22	Apr 12, 2022	6:25AM	6L Passivated Canister	T22-Ap0049986	X	X	X	X
Test Counts						1	1	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Dilutions are performed on samples due to the presence of high level target species or the presence of high level non-target species.
3. Results are uncorrected for surrogate recoveries.
4. All QC limit exceedances and affected sample results are noted by flags. Each qualifying flag is defined below in section entitled 'Definition of Data Qualifying Flags' and additionally on individual sample results (where relevant).
5. "100% certification" is defined as evaluating the sampling system with humid zero air/N₂ and humid calibration gases that pass through all active components of the sampling system. The system is "100% certified" if no significant additions or deletions (less than 0.2 ppbv each of target compounds) have occurred when challenged with the test gas stream.
6. The conversion equation from ppbv to g/m³ uses a temperature of 25 °C and an ambient sea level atmospheric pressure of 1 atmosphere (101.325 kPa) is assumed.
7. All canister samples are only analysed once temperature equilibrium with the laboratory has been achieved.
8. Safe Sampling Volume (SSV) - calculated by taking two-thirds of the breakthrough volume (direct method) and Appendix 1 of Method T0-17.
9. Samples were analysed on an 'as received' basis.
10. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
11. This report replaces any interim results previously issued.

Definition of Data Qualifying Flags

Qualifiers may have been used on the data analysis sheets and indicates as follows:

- A01 Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- A02 Estimated value.
- A03 Exceeds instrument calibration range.
- A04 Saturated peak.
- A05 Exceeds quality control limits.
- A06 Compound analysed for but not detected above the Limit of Reporting (LOR). See data page for project specific U-flag definition.
- A07 Non-detected compound associated with low bias in the CCV.
- A08 The identification is based on presumptive evidence.
- A09 SSV has been exceeded for this compound. It is likely that this compound has been underestimated.
- A10 LORs cited do not take into account sample dilution due to canister pressurisation.
- A11 Naphthalene elutes outside the >C10-C12 range on the system used for sample analysis. As a result, >C10-C12 TRH value is equivalent to the modified F2 value.

Holding Times

Under conditions of normal usage for sampling ambient air, most Volatile Organic Compounds (VOCs) can be recovered from canisters near their original concentrations after storage times of up to thirty days. For thermal desorption tubes (TDT) samples should be refrigerated at <4°C in a clean environment during storage and analysed within 30 days of sample collection (within one week for limonene, carene, bis-chloromethyl ether and labile sulfur or nitrogen containing volatiles).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

ppbv parts per billion by volume

kPa kilopascal

ug/m³ micrograms per cubic metre

psig pounds per square inch gauge

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
US EPA Compendium Methods TO-15							
1.1-Dichloroethane	ug/m3	< 2			2	Pass	
1.1-Dichloroethene	ug/m3	< 2			2	Pass	
1.1.1-Trichloroethane	ug/m3	< 2.7			2.7	Pass	
1.1.2-Trichloroethane	ug/m3	< 2.7			2.7	Pass	
1.1.2.2-Tetrachloroethane	ug/m3	< 3.4			3.4	Pass	
1.2-D bromoethane (EDB)	ug/m3	< 3.6			3.6	Pass	
1.2-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.2-Dichloroethane	ug/m3	< 2			2	Pass	
1.2-Dichloropropane	ug/m3	< 2.3			2.3	Pass	
1.2.4-Trichlorobenzene	ug/m3	< 15			15	Pass	
1.2.4-Trimethy benzene	ug/m3	< 2.5			2.5	Pass	
1.3-Butadiene	ug/m3	< 2.2			2.2	Pass	
1.3-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.3.5-Trimethy benzene	ug/m3	< 2.5			2.5	Pass	
1.4-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.4-Dioxane	ug/m3	< 7.2			7.2	Pass	
2-Butanone (Methyl Ethyl Ketone)	ug/m3	< 5.9			5.9	Pass	
2-Hexanone	ug/m3	< 8.2			8.2	Pass	
2.2.4-Trimethylpentane	ug/m3	< 9.3			9.3	Pass	
3-Chloropropene	ug/m3	< 1.6			1.6	Pass	
4-Ethyltoluene	ug/m3	< 2.5			2.5	Pass	
4-Methyl-2-Pentanone (MIBK)	ug/m3	< 2.1			2.1	Pass	
Acetone	ug/m3	< 16.6			16.6	Pass	
Benzene	ug/m3	< 1.6			1.6	Pass	
Bromodichloromethane	ug/m3	< 3.4			3.4	Pass	
Bromoform	ug/m3	< 5.2			5.2	Pass	
Bromomethane	ug/m3	< 19.4			19.4	Pass	
Carbon Disulfide	ug/m3	< 15.6			15.6	Pass	
Carbon Tetrachloride	ug/m3	< 3.1			3.1	Pass	
Chlorobenzene	ug/m3	< 2.3			2.3	Pass	
Chloroethane	ug/m3	< 5.3			5.3	Pass	
Chloroform	ug/m3	< 2.4			2.4	Pass	
Chloromethane	ug/m3	< 10.3			10.3	Pass	
Chlorotoluene (Benzyl Chloride)	ug/m3	< 2.6			2.6	Pass	
cis-1.2-Dichloroethene	ug/m3	< 2			2	Pass	
cis-1.3-Dichloropropene	ug/m3	< 2.3			2.3	Pass	
Cyclohexane	ug/m3	< 3.5			3.5	Pass	
Dibromochloromethane	ug/m3	< 4.3			4.3	Pass	
Methylene Chloride	ug/m3	< 17.4			17.4	Pass	
Ethanol	ug/m3	< 9.4			9.4	Pass	
Ethylbenzene	ug/m3	< 2.2			2.2	Pass	
Freon 11 (Trichlorofluoromethane)	ug/m3	< 2.8			2.8	Pass	
Freon 113 (Trichlorotrifluoroethane)	ug/m3	< 3.8			3.8	Pass	
Freon 114	ug/m3	< 3.5			3.5	Pass	
Freon 12 (Dichlorodifluoromethane)	ug/m3	< 2.5			2.5	Pass	
Heptane	ug/m3	< 2.1			2.1	Pass	
Hexachlorobutadiene	ug/m3	< 21.3			21.3	Pass	
Hexane	ug/m3	< 5			5	Pass	
Isopropanol	ug/m3	< 50			50	Pass	
m.p-Xylene	ug/m3	< 4.4			4.4	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total	ug/m3	< 6.6		6.6	Pass	
Methyl t-Butyl Ether (MTBE)	ug/m3	< 7.2		7.2	Pass	
Naphthalene	ug/m3	< 10.5		10.5	Pass	
o-Xylene	ug/m3	< 2.2		2.2	Pass	
Propylene	ug/m3	< 8.6		8.6	Pass	
Styrene	ug/m3	< 2.1		2.1	Pass	
Tetrachloroethene	ug/m3	< 3.4		3.4	Pass	
Tetrahydrofuran	ug/m3	< 1.5		1.5	Pass	
Toluene	ug/m3	< 7.5		7.5	Pass	
trans-1,2-Dichloroethene	ug/m3	< 2		2	Pass	
trans-1,3-Dichloropropene	ug/m3	< 2.3		2.3	Pass	
Trichloroethene	ug/m3	< 2.7		2.7	Pass	
Vinyl Acetate	ug/m3	< 7		7.0	Pass	
Vinyl Chloride	ug/m3	< 2.5		2.5	Pass	
Method Blank						
ASTM D1945/D1946						
1-Butene	mol %	< 0.03		0.03	Pass	
1-Pentene	mol %	< 0.01		0.01	Pass	
1,3-Butadiene	mol %	< 0.03		0.03	Pass	
2-Methyl-2-Butene	mol %	< 0.01		0.01	Pass	
Acetylene	mol %	< 0.01		0.01	Pass	
Carbon Dioxide	mol %	< 0.03		0.03	Pass	
Carbon Monoxide	mol %	< 0.02		0.02	Pass	
cis-2-Pentene	mol %	< 0.01		0.01	Pass	
Ethane	mol %	< 0.04		0.04	Pass	
Ethene	mol %	< 0.02		0.02	Pass	
Helium	mol %	< 0.05		0.05	Pass	
Hydrogen	mol %	< 0.03		0.03	Pass	
Isobutane	mol %	< 0.03		0.03	Pass	
Isobutylene	mol %	< 0.03		0.03	Pass	
Isopentane	mol %	< 0.01		0.01	Pass	
Methane	mol %	< 0.05		0.05	Pass	
Methyl Acetylene	mol %	< 0.01		0.01	Pass	
n-Butane	mol %	< 0.03		0.03	Pass	
n-Pentane	mol %	< 0.01		0.01	Pass	
Oxygen + Argon	mol %	< 0.1		0.1	Pass	
Propadiene	mol %	< 0.01		0.01	Pass	
Propane	mol %	< 0.02		0.02	Pass	
Propylene	mol %	< 0.01		0.01	Pass	
trans-2-Butene	mol %	< 0.03		0.03	Pass	
trans-2-Pentene	mol %	< 0.01		0.01	Pass	
LCS - % Recovery						
US EPA Compendium Methods TO-15						
1,1-Dichloroethane	%	129		70-130	Pass	
1,1-Dichloroethene	%	127		70-130	Pass	
1,1,1-Trichloroethane	%	120		70-130	Pass	
1,1,2-Trichloroethane	%	130		70-130	Pass	
1,1,2,2-Tetrachloroethane	%	97		70-130	Pass	
1,2-D bromoethane (EDB)	%	127		70-130	Pass	
1,2-Dichlorobenzene	%	83		70-130	Pass	
1,2-Dichloroethane	%	124		70-130	Pass	
1,2-Dichloropropane	%	120		70-130	Pass	
1,2,4-Trichlorobenzene	%	78		70-130	Pass	
1,2,4-Trimethy benzene	%	91		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Butadiene	%	129			70-130	Pass	
1.3-Dichlorobenzene	%	88			70-130	Pass	
1.3.5-Trimethy benzene	%	100			70-130	Pass	
1.4-Dichlorobenzene	%	88			70-130	Pass	
1.4-Dioxane	%	97			70-130	Pass	
2-Butanone (Methyl Ethyl Ketone)	%	127			70-130	Pass	
2-Hexanone	%	127			70-130	Pass	
2.2.4-Trimethylpentane	%	127			70-130	Pass	
3-Chloropropene	%	114			70-130	Pass	
4-Ethyltoluene	%	100			70-130	Pass	
4-Methyl-2-Pentanone (MIBK)	%	115			70-130	Pass	
Acetone	%	112			70-130	Pass	
Benzene	%	111			70-130	Pass	
Bromodichloromethane	%	123			70-130	Pass	
Bromoform	%	108			70-130	Pass	
Bromomethane	%	129			70-130	Pass	
Carbon Disulfide	%	113			70-130	Pass	
Carbon Tetrachloride	%	122			70-130	Pass	
Chlorobenzene	%	128			70-130	Pass	
Chloroethane	%	114			70-130	Pass	
Chloroform	%	126			70-130	Pass	
Chloromethane	%	125			70-130	Pass	
Chlorotoluene (Benzyl Chloride)	%	87			70-130	Pass	
cis-1.2-Dichloroethene	%	120			70-130	Pass	
cis-1.3-Dichloropropene	%	116			70-130	Pass	
Cyclohexane	%	130			70-130	Pass	
Dibromochloromethane	%	128			70-130	Pass	
Methylene Chloride	%	124			70-130	Pass	
Ethanol	%	87			70-130	Pass	
Ethylbenzene	%	111			70-130	Pass	
Freon 11 (Trichlorofluoromethane)	%	118			70-130	Pass	
Freon 113 (Trichlorotrifluoroethane)	%	106			70-130	Pass	
Freon 114	%	108			70-130	Pass	
Freon 12 (Dichlorodifluoromethane)	%	124			70-130	Pass	
Heptane	%	122			70-130	Pass	
Hexachlorobutadiene	%	73			70-130	Pass	
Hexane	%	115			70-130	Pass	
Isopropanol	%	91			70-130	Pass	
m,p-Xylene	%	125			70-130	Pass	
Xylenes - Total	%	122			70-130	Pass	
Methyl t-Butyl Ether (MTBE)	%	102			70-130	Pass	
Naphthalene	%	74			70-130	Pass	
o-Xylene	%	116			70-130	Pass	
Propylene	%	112			70-130	Pass	
Styrene	%	111			70-130	Pass	
Tetrachloroethene	%	112			70-130	Pass	
Tetrahydrofuran	%	127			70-130	Pass	
Toluene	%	117			70-130	Pass	
trans-1.2-Dichloroethene	%	126			70-130	Pass	
trans-1.3-Dichloropropene	%	127			70-130	Pass	
Trichloroethene	%	95			70-130	Pass	
Vinyl Acetate	%	124			70-130	Pass	
Vinyl Chloride	%	129			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
ASTM D1945/D1946							
1-Butene	%	94			70-130	Pass	
1-Pentene	%	95			70-130	Pass	
1.3-Butadiene	%	95			70-130	Pass	
2-Methyl-2-Butene	%	91			70-130	Pass	
Acetylene	%	93			70-130	Pass	
Carbon Dioxide	%	109			70-130	Pass	
Carbon Monoxide	%	99			70-130	Pass	
cis-2-Pentene	%	92			70-130	Pass	
Ethane	%	94			70-130	Pass	
Ethene	%	95			70-130	Pass	
Hydrogen	%	103			70-130	Pass	
Isobutane	%	94			70-130	Pass	
Isobutylene	%	93			70-130	Pass	
Isopentane	%	93			70-130	Pass	
Methane	%	94			70-130	Pass	
Methyl Acetylene	%	93			70-130	Pass	
n-Butane	%	94			70-130	Pass	
n-Pentane	%	93			70-130	Pass	
Propadiene	%	93			70-130	Pass	
Propane	%	95			70-130	Pass	
Propylene	%	94			70-130	Pass	
trans-2-Butene	%	92			70-130	Pass	
trans-2-Pentene	%	93			70-130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference

Authorised by:



CHAIN OF CUSTODY RECORD

AN ISO 9005 958 521

Company		Project No		Project Manager		Sampler(s)	
Address		Project Name		EDD Format (ESDAL, EQUIS, Custom)		Handed over by	
Contact Name		MITCHELL - Vapour #03				Email for Invoice	
Phone No		ATI				Email for Results	
Special Directions		5 Day TAT		Canister Vacuum Pressure - Initial		Canister ID	
Purchase Order		Quotation # 190125AEGA		Canister Vacuum Pressure - Final		Flow Controller ID	
Quote ID No		Client Sample ID		Canister ID		ESDAT	
Sampled Date/Time (dd/mm/yy hh:mm)		Matrix (Solid (S) Water (W))		Canister ID		ESDAT	
09.05.22		V		6L0008		ESDAT	
1		Mitchell 3.5.22		9		ESDAT	
2						ESDAT	
3						ESDAT	
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257						ESDAT	

Sample Receipt Advice

Company name: [REDACTED]
Contact name: [REDACTED]
Project name: [REDACTED]
Project ID: Not provided
Turnaround time: 5 Day
Date/Time received: May 10, 2022 3:08 PM
[REDACTED] reference [REDACTED]

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

[REDACTED]

Results will be delivered electronically via email to [REDACTED].

Note: A copy of these results will also be delivered to the general [REDACTED].

[REDACTED]

Attention: - ALL INVOICES

Report 886998-TO
 Project name MITCHELL - VAPOUR #03
 Received Date May 10, 2022

Client Sample ID			G01 MITCHELL 3.5.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- My0022777
Date Sampled			May 03, 2022
Receipt Vac./Pressure (inHg)			12
Final Pressure (psi)			5.3
Test/Reference	LOR	Unit	
Dilution Factor	0.1		2.2
US EPA Compendium Methods TO-15			
1.1-Dichloroethane	2	ug/m3	< 4
1.1-Dichloroethene	2	ug/m3	< 4
1.1.1-Trichloroethane	2.7	ug/m3	< 6
1.1.2-Trichloroethane	2.7	ug/m3	< 6
1.1.2.2-Tetrachloroethane	3.4	ug/m3	< 8
1.2-D bromoethane (EDB)	3.6	ug/m3	< 8
1.2-Dichlorobenzene	3	ug/m3	< 7
1.2-Dichloroethane	2	ug/m3	< 4
1.2-Dichloropropane	2.3	ug/m3	< 5
1.2.4-Trichlorobenzene	15	ug/m3	< 33
1.2.4-Trimethy benzene	2.5	ug/m3	< 5
1.3-Butadiene	2.2	ug/m3	< 2.2
1.3-Dichlorobenzene	3	ug/m3	< 7
1.3.5-Trimethy benzene	2.5	ug/m3	< 5
1.4-Dichlorobenzene	3	ug/m3	< 7
1.4-Dioxane	7.2	ug/m3	< 16
2-Butanone (Methyl Ethyl Ketone)	5.9	ug/m3	< 13
2-Hexanone	8.2	ug/m3	< 18
2.2.4-Trimethylpentane	9.3	ug/m3	< 21
3-Chloropropene	1.6	ug/m3	< 14
4-Ethyltoluene	2.5	ug/m3	< 5
4-Methyl-2-Pentanone (MIBK)	2.1	ug/m3	< 5
Acetone	16.6	ug/m3	< 26
Benzene	1.6	ug/m3	< 4
Bromodichloromethane	3.4	ug/m3	< 7
Bromoform	5.2	ug/m3	< 11
Bromomethane	19.4	ug/m3	< 43
Carbon Disulfide	15.6	ug/m3	< 15.6
Carbon Tetrachloride	3.1	ug/m3	< 7
Chlorobenzene	2.3	ug/m3	< 5

Client Sample ID			G01 MITCHELL 3.5.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- My0022777
Date Sampled			May 03, 2022
Receipt Vac./Pressure (inHg)			12
Final Pressure (psi)			5.3
Test/Reference	LOR	Unit	
US EPA Compendium Methods TO-15			
Chloroethane	5.3	ug/m3	< 12
Chloroform	2.4	ug/m3	< 5
Chloromethane	10.3	ug/m3	< 23
Chlorotoluene (Benzyl Chloride)	2.6	ug/m3	< 6
cis-1.2-Dichloroethene	2	ug/m3	< 4
cis-1.3-Dichloropropene	2.3	ug/m3	< 5
Cyclohexane	3.5	ug/m3	< 4
Dibromochloromethane	4.3	ug/m3	< 9
Methylene Chloride	17.4	ug/m3	< 39
Ethanol	9.4	ug/m3	< 9.4
Ethylbenzene	2.2	ug/m3	< 5
Freon 11 (Trichlorofluoromethane)	2.8	ug/m3	< 6
Freon 113 (Trichlorotrifluoroethane)	3.8	ug/m3	< 9
Freon 114	3.5	ug/m3	< 8
Freon 12 (Dichlorodifluoromethane)	2.5	ug/m3	< 5
Heptane	2.1	ug/m3	< 5
Hexachlorobutadiene	21.3	ug/m3	< 47
Hexane	5	ug/m3	< 5
Isopropanol	50	ug/m3	< 109
m.p-Xylene	4.4	ug/m3	< 10
Xylenes - Total*	6.6	ug/m3	< 14
Methyl t-Butyl Ether (MTBE)	7.2	ug/m3	< 16
Naphthalene	10.5	ug/m3	< 24
o-Xylene	2.2	ug/m3	< 5
Propylene	8.6	ug/m3	< 8.6
Styrene	2.1	ug/m3	< 5
Tetrachloroethene	3.4	ug/m3	< 8
Tetrahydrofuran	1.5	ug/m3	< 3
Toluene	7.5	ug/m3	< 7.5
trans-1.2-Dichloroethene	2	ug/m3	< 4
trans-1.3-Dichloropropene	2.3	ug/m3	< 5
Trichloroethene	2.7	ug/m3	< 6
Vinyl Acetate	7.0	ug/m3	< 16
Vinyl Chloride	2.5	ug/m3	< 3
4-Bromofluorobenzene (surr.)	1	%	85
ASTM D1945/D1946			
1-Butene	0.03	mol %	< 0.07
1-Pentene	0.01	mol %	< 0.02
1.3-Butadiene	0.03	mol %	< 0.07
2-Methyl-2-Butene	0.01	mol %	< 0.02
Acetylene	0.01	mol %	< 0.02
Carbon Dioxide	0.03	mol %	< 0.07
Carbon Monoxide	0.02	mol %	< 0.04
cis-2-Pentene	0.01	mol %	< 0.02
Ethane	0.04	mol %	< 0.09

Client Sample ID			G01 MITCHELL 3.5.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- My0022777
Date Sampled			May 03, 2022
Receipt Vac./Pressure (inHg)			12
Final Pressure (psi)			5.3
Test/Reference	LOR	Unit	
ASTM D1945/D1946			
Ethene	0.02	mol %	< 0.04
Helium	0.05	mol %	< 0.11
Hydrogen	0.03	mol %	< 0.07
Isobutane	0.03	mol %	< 0.07
Isobutylene	0.03	mol %	< 0.07
Isopentane	0.01	mol %	< 0.02
Methane	0.05	mol %	< 0.11
Methyl Acetylene	0.01	mol %	< 0.02
n-Butane	0.03	mol %	< 0.07
n-Pentane	0.01	mol %	< 0.02
Nitrogen	0.1	mol %	82
Oxygen + Argon	0.1	mol %	18
Propadiene	0.01	mol %	< 0.02
Propane	0.02	mol %	< 0.04
Propylene	0.01	mol %	< 0.02
trans-2-Butene	0.03	mol %	< 0.07
trans-2-Pentene	0.01	mol %	< 0.02
CRC CARE TR 23 PVI			
>C6-C10	100	ug/m3	< 110
>C6-C10 TRH minus BTEX (F1)	100	ug/m3	< 110
>C10-C12 minus Naphthalene (mod F2)	100	ug/m3	< 110
>C10-C12	100	ug/m3	< 110

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
US EPA Compendium Methods TO-15 - Method: SOP #6 Analysis of Volatile Organic Compounds in Passivated Canisters EPA Method TO-15 And Modified EPA Method TO-14A	BrisbaneAir	May 10, 2022	30 Days
ASTM D1945/D1946 - Method: SOP #8 Analysis of Oxygen, Nitrogen, Methane, Ethane, Ethene, Carbon Monoxide, Carbon Dioxide, Hydrogen and NMOC by Modified ASTM Method D1946	BrisbaneAir	May 10, 2022	30 Days
CRC CARE TR 23 PVI - Method: SOP #111 TPH, NMOC, and TVH Hydrocarbon Fractionation Calculations from EPA Methods TO-14A/TO-15	BrisbaneAir	May 10, 2022	30 Days

Sample Detail						Dilution Factor	Final Pressure (psi)	Receipt Vac./Pressure (in Hg)	Air toxics Extended Suite 1: US EPA Compendium Methods TO-14a TO-15/CRC
[Redacted]									
[Redacted]									
[Redacted]						X	X	X	X
[Redacted]									
[Redacted]									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	MITCHELL 3.5.22	May 03, 2022		6L Passivated Canister	T22-My0022777	X	X	X	X
Test Counts						1	1	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Dilutions are performed on samples due to the presence of high level target species or the presence of high level non-target species.
3. Results are uncorrected for surrogate recoveries.
4. All QC limit exceedances and affected sample results are noted by flags. Each qualifying flag is defined below in section entitled 'Definition of Data Qualifying Flags' and additionally on individual sample results (where relevant).
5. "100% certification" is defined as evaluating the sampling system with humid zero air/N₂ and humid calibration gases that pass through all active components of the sampling system. The system is "100% certified" if no significant additions or deletions (less than 0.2 ppbv each of target compounds) have occurred when challenged with the test gas stream.
6. The conversion equation from ppbv to g/m³ uses a temperature of 25 °C and an ambient sea level atmospheric pressure of 1 atmosphere (101.325 kPa) is assumed.
7. All canister samples are only analysed once temperature equilibrium with the laboratory has been achieved.
8. Safe Sampling Volume (SSV) - calculated by taking two-thirds of the breakthrough volume (direct method) and Appendix 1 of Method T0-17.
9. Samples were analysed on an 'as received' basis.
10. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
11. This report replaces any interim results previously issued.

Definition of Data Qualifying Flags

Qualifiers may have been used on the data analysis sheets and indicates as follows:

- A01 Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- A02 Estimated value.
- A03 Exceeds instrument calibration range.
- A04 Saturated peak.
- A05 Exceeds quality control limits.
- A06 Compound analysed for but not detected above the Limit of Reporting (LOR). See data page for project specific U-flag definition.
- A07 Non-detected compound associated with low bias in the CCV.
- A08 The identification is based on presumptive evidence.
- A09 SSV has been exceeded for this compound. It is likely that this compound has been underestimated.
- A10 LORs cited do not take into account sample dilution due to canister pressurisation.
- A11 Naphthalene elutes outside the >C10-C12 range on the system used for sample analysis. As a result, >C10-C12 TRH value is equivalent to the modified F2 value.

Holding Times

Under conditions of normal usage for sampling ambient air, most Volatile Organic Compounds (VOCs) can be recovered from canisters near their original concentrations after storage times of up to thirty days. For thermal desorption tubes (TDT) samples should be refrigerated at <4°C in a clean environment during storage and analysed within 30 days of sample collection (within one week for limonene, carene, bis-chloromethyl ether and labile sulfur or nitrogen containing volatiles).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

ppbv parts per billion by volume
ug/m³ micrograms per cubic metre

kPa kilopascal
psig pounds per square inch gauge

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
US EPA Compendium Methods TO-15							
1.1-Dichloroethane	ug/m3	< 2			2	Pass	
1.1-Dichloroethene	ug/m3	< 2			2	Pass	
1.1.1-Trichloroethane	ug/m3	< 2.7			2.7	Pass	
1.1.2-Trichloroethane	ug/m3	< 2.7			2.7	Pass	
1.1.2.2-Tetrachloroethane	ug/m3	< 3.4			3.4	Pass	
1.2-D bromoethane (EDB)	ug/m3	< 3.6			3.6	Pass	
1.2-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.2-Dichloroethane	ug/m3	< 2			2	Pass	
1.2-Dichloropropane	ug/m3	< 2.3			2.3	Pass	
1.2.4-Trichlorobenzene	ug/m3	< 15			15	Pass	
1.2.4-Trimethy benzene	ug/m3	< 2.5			2.5	Pass	
1.3-Butadiene	ug/m3	< 2.2			2.2	Pass	
1.3-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.3.5-Trimethy benzene	ug/m3	< 2.5			2.5	Pass	
1.4-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.4-Dioxane	ug/m3	< 7.2			7.2	Pass	
2-Butanone (Methyl Ethyl Ketone)	ug/m3	< 5.9			5.9	Pass	
2-Hexanone	ug/m3	< 8.2			8.2	Pass	
2.2.4-Trimethylpentane	ug/m3	< 9.3			9.3	Pass	
3-Chloropropene	ug/m3	< 1.6			1.6	Pass	
4-Ethyltoluene	ug/m3	< 2.5			2.5	Pass	
4-Methyl-2-Pentanone (MIBK)	ug/m3	< 2.1			2.1	Pass	
Acetone	ug/m3	< 16.6			16.6	Pass	
Benzene	ug/m3	< 1.6			1.6	Pass	
Bromodichloromethane	ug/m3	< 3.4			3.4	Pass	
Bromoform	ug/m3	< 5.2			5.2	Pass	
Bromomethane	ug/m3	< 19.4			19.4	Pass	
Carbon Disulfide	ug/m3	< 15.6			15.6	Pass	
Carbon Tetrachloride	ug/m3	< 3.1			3.1	Pass	
Chlorobenzene	ug/m3	< 2.3			2.3	Pass	
Chloroethane	ug/m3	< 5.3			5.3	Pass	
Chloroform	ug/m3	< 2.4			2.4	Pass	
Chloromethane	ug/m3	< 10.3			10.3	Pass	
Chlorotoluene (Benzyl Chloride)	ug/m3	< 2.6			2.6	Pass	
cis-1.2-Dichloroethene	ug/m3	< 2			2	Pass	
cis-1.3-Dichloropropene	ug/m3	< 2.3			2.3	Pass	
Cyclohexane	ug/m3	< 3.5			3.5	Pass	
Dibromochloromethane	ug/m3	< 4.3			4.3	Pass	
Methylene Chloride	ug/m3	< 17.4			17.4	Pass	
Ethanol	ug/m3	< 9.4			9.4	Pass	
Ethylbenzene	ug/m3	< 2.2			2.2	Pass	
Freon 11 (Trichlorofluoromethane)	ug/m3	< 2.8			2.8	Pass	
Freon 113 (Trichlorotrifluoroethane)	ug/m3	< 3.8			3.8	Pass	
Freon 114	ug/m3	< 3.5			3.5	Pass	
Freon 12 (Dichlorodifluoromethane)	ug/m3	< 2.5			2.5	Pass	
Heptane	ug/m3	< 2.1			2.1	Pass	
Hexachlorobutadiene	ug/m3	< 21.3			21.3	Pass	
Hexane	ug/m3	< 5			5	Pass	
Isopropanol	ug/m3	< 50			50	Pass	
m.p-Xylene	ug/m3	< 4.4			4.4	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total*	ug/m3	< 6.6		6.6	Pass	
Methyl t-Butyl Ether (MTBE)	ug/m3	< 7.2		7.2	Pass	
Naphthalene	ug/m3	< 10.5		10.5	Pass	
o-Xylene	ug/m3	< 2.2		2.2	Pass	
Propylene	ug/m3	< 8.6		8.6	Pass	
Styrene	ug/m3	< 2.1		2.1	Pass	
Tetrachloroethene	ug/m3	< 3.4		3.4	Pass	
Tetrahydrofuran	ug/m3	< 1.5		1.5	Pass	
Toluene	ug/m3	< 7.5		7.5	Pass	
trans-1,2-Dichloroethene	ug/m3	< 2		2	Pass	
trans-1,3-Dichloropropene	ug/m3	< 2.3		2.3	Pass	
Trichloroethene	ug/m3	< 2.7		2.7	Pass	
Vinyl Acetate	ug/m3	< 7		7.0	Pass	
Vinyl Chloride	ug/m3	< 2.5		2.5	Pass	
Method Blank						
ASTM D1945/D1946						
1-Butene	mol %	< 0.03		0.03	Pass	
1-Pentene	mol %	< 0.01		0.01	Pass	
1,3-Butadiene	mol %	< 0.03		0.03	Pass	
2-Methyl-2-Butene	mol %	< 0.01		0.01	Pass	
Acetylene	mol %	< 0.01		0.01	Pass	
Carbon Dioxide	mol %	< 0.03		0.03	Pass	
Carbon Monoxide	mol %	< 0.02		0.02	Pass	
cis-2-Pentene	mol %	< 0.01		0.01	Pass	
Ethane	mol %	< 0.04		0.04	Pass	
Ethene	mol %	< 0.02		0.02	Pass	
Helium	mol %	< 0.05		0.05	Pass	
Hydrogen	mol %	< 0.03		0.03	Pass	
Isobutane	mol %	< 0.03		0.03	Pass	
Isobutylene	mol %	< 0.03		0.03	Pass	
Isopentane	mol %	< 0.01		0.01	Pass	
Methane	mol %	< 0.05		0.05	Pass	
Methyl Acetylene	mol %	< 0.01		0.01	Pass	
n-Butane	mol %	< 0.03		0.03	Pass	
n-Pentane	mol %	< 0.01		0.01	Pass	
Oxygen + Argon	mol %	< 0.1		0.1	Pass	
Propadiene	mol %	< 0.01		0.01	Pass	
Propane	mol %	< 0.02		0.02	Pass	
Propylene	mol %	< 0.01		0.01	Pass	
trans-2-Butene	mol %	< 0.03		0.03	Pass	
trans-2-Pentene	mol %	< 0.01		0.01	Pass	
LCS - % Recovery						
US EPA Compendium Methods TO-15						
1,1-Dichloroethane	%	116		70-130	Pass	
1,1-Dichloroethene	%	113		70-130	Pass	
1,1,1-Trichloroethane	%	113		70-130	Pass	
1,1,2-Trichloroethane	%	107		70-130	Pass	
1,1,2,2-Tetrachloroethane	%	115		70-130	Pass	
1,2-D bromoethane (EDB)	%	105		70-130	Pass	
1,2-Dichlorobenzene	%	104		70-130	Pass	
1,2-Dichloroethane	%	112		70-130	Pass	
1,2-Dichloropropane	%	112		70-130	Pass	
1,2,4-Trichlorobenzene	%	82		70-130	Pass	
1,2,4-Trimethy benzene	%	95		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Butadiene	%	111			70-130	Pass	
1.3-Dichlorobenzene	%	104			70-130	Pass	
1.3.5-Trimethy benzene	%	107			70-130	Pass	
1.4-Dichlorobenzene	%	103			70-130	Pass	
1.4-Dioxane	%	97			70-130	Pass	
2-Butanone (Methyl Ethyl Ketone)	%	102			70-130	Pass	
2-Hexanone	%	94			70-130	Pass	
2.2.4-Trimethylpentane	%	111			70-130	Pass	
3-Chloropropene	%	102			70-130	Pass	
4-Ethyltoluene	%	85			70-130	Pass	
4-Methyl-2-Pentanone (MIBK)	%	82			70-130	Pass	
Acetone	%	92			70-130	Pass	
Benzene	%	113			70-130	Pass	
Bromodichloromethane	%	111			70-130	Pass	
Bromoform	%	111			70-130	Pass	
Bromomethane	%	117			70-130	Pass	
Carbon Disulfide	%	109			70-130	Pass	
Carbon Tetrachloride	%	113			70-130	Pass	
Chlorobenzene	%	102			70-130	Pass	
Chloroethane	%	114			70-130	Pass	
Chloroform	%	115			70-130	Pass	
Chloromethane	%	98			70-130	Pass	
Chlorotoluene (Benzyl Chloride)	%	98			70-130	Pass	
cis-1.2-Dichloroethene	%	110			70-130	Pass	
cis-1.3-Dichloropropene	%	106			70-130	Pass	
Cyclohexane	%	102			70-130	Pass	
Dibromochloromethane	%	110			70-130	Pass	
Methylene Chloride	%	112			70-130	Pass	
Ethanol	%	71			70-130	Pass	
Ethylbenzene	%	104			70-130	Pass	
Freon 11 (Trichlorofluoromethane)	%	118			70-130	Pass	
Freon 113 (Trichlorotrifluoroethane)	%	106			70-130	Pass	
Freon 114	%	110			70-130	Pass	
Freon 12 (Dichlorodifluoromethane)	%	111			70-130	Pass	
Heptane	%	109			70-130	Pass	
Hexachlorobutadiene	%	96			70-130	Pass	
Hexane	%	99			70-130	Pass	
Isopropanol	%	91			70-130	Pass	
m,p-Xylene	%	110			70-130	Pass	
Xylenes - Total*	%	110			70-130	Pass	
Methyl t-Butyl Ether (MTBE)	%	104			70-130	Pass	
Naphthalene	%	74			70-130	Pass	
o-Xylene	%	108			70-130	Pass	
Propylene	%	107			70-130	Pass	
Styrene	%	103			70-130	Pass	
Tetrachloroethene	%	103			70-130	Pass	
Tetrahydrofuran	%	94			70-130	Pass	
Toluene	%	106			70-130	Pass	
trans-1.2-Dichloroethene	%	114			70-130	Pass	
trans-1.3-Dichloropropene	%	106			70-130	Pass	
Trichloroethene	%	102			70-130	Pass	
Vinyl Acetate	%	105			70-130	Pass	
Vinyl Chloride	%	116			70-130	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
ASTM D1945/D1946							
1-Butene	%	98			70-130	Pass	
1-Pentene	%	100			70-130	Pass	
1.3-Butadiene	%	100			70-130	Pass	
2-Methyl-2-Butene	%	96			70-130	Pass	
Acetylene	%	98			70-130	Pass	
Carbon Dioxide	%	106			70-130	Pass	
Carbon Monoxide	%	104			70-130	Pass	
cis-2-Pentene	%	97			70-130	Pass	
Ethane	%	99			70-130	Pass	
Ethene	%	99			70-130	Pass	
Hydrogen	%	99			70-130	Pass	
Isobutane	%	99			70-130	Pass	
Isobutylene	%	98			70-130	Pass	
Isopentane	%	98			70-130	Pass	
Methane	%	98			70-130	Pass	
Methyl Acetylene	%	99			70-130	Pass	
n-Butane	%	99			70-130	Pass	
n-Pentane	%	98			70-130	Pass	
Propadiene	%	101			70-130	Pass	
Propane	%	99			70-130	Pass	
Propylene	%	99			70-130	Pass	
trans-2-Butene	%	97			70-130	Pass	
trans-2-Pentene	%	98			70-130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference

Authorised by:



Sample Receipt Advice

Company name: [REDACTED]
Contact name: [REDACTED]
Project name: [REDACTED]
Project ID: Not provided
Turnaround time: 5 Day
Date/Time received: May 23, 2022 12:00 AM
[REDACTED] reference [REDACTED]

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- N/A Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- NB Necessary sampling information not provided, the Laboratory will not be responsible for compromised results should testing be performed outside recommended holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Results will be delivered electronically via email to [REDACTED]

Note: A copy of these results will also be delivered to the general [REDACTED].

Report **890708-TO**
 Project name **MITCHELL 9.5.22**
 Received Date **May 23, 2022**

Client Sample ID			G01 MITCHELL 9.5.22
Sample Matrix			6L Passivated Canister
Sample No.			T22-My0053374
Date Sampled			May 09, 2022
Receipt Vac./Pressure (inHg)			10
Final Pressure (psi)			5.3
Test/Reference	LOR	Unit	
Dilution Factor	0.1		2.1
US EPA Compendium Methods TO-15			
1.1-Dichloroethane	2	ug/m3	< 4
1.1-Dichloroethene	2	ug/m3	< 4
1.1.1-Trichloroethane	2.7	ug/m3	< 6
1.1.2-Trichloroethane	2.7	ug/m3	< 6
1.1.2.2-Tetrachloroethane	3.4	ug/m3	< 7
1.2-D bromoethane (EDB)	3.6	ug/m3	< 7
1.2-Dichlorobenzene	3	ug/m3	< 6
1.2-Dichloroethane	2	ug/m3	< 4
1.2-Dichloropropane	2.3	ug/m3	< 5
1.2.4-Trichlorobenzene	15	ug/m3	< 31
1.2.4-Trimethy benzene	2.5	ug/m3	< 5
1.3-Butadiene	2.2	ug/m3	< 2.2
1.3-Dichlorobenzene	3	ug/m3	< 6
1.3.5-Trimethy benzene	2.5	ug/m3	< 5
1.4-Dichlorobenzene	3	ug/m3	< 6
1.4-Dioxane	7.2	ug/m3	< 15
2-Butanone (Methyl Ethyl Ketone)	5.9	ug/m3	< 12
2-Hexanone	8.2	ug/m3	< 17
2.2.4-Trimethylpentane	9.3	ug/m3	< 19
3-Chloropropene	1.6	ug/m3	< 13
4-Ethyltoluene	2.5	ug/m3	< 5
4-Methyl-2-Pentanone (MIBK)	2.1	ug/m3	< 4
Acetone	16.6	ug/m3	< 25
Benzene	1.6	ug/m3	< 3
Bromodichloromethane	3.4	ug/m3	< 7
Bromoform	5.2	ug/m3	< 11
Bromomethane	19.4	ug/m3	< 40
Carbon Disulfide	15.6	ug/m3	< 15.6
Carbon Tetrachloride	3.1	ug/m3	< 7
Chlorobenzene	2.3	ug/m3	< 5

Client Sample ID			G01 MITCHELL 9.5.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- My0053374
Date Sampled			May 09, 2022
Receipt Vac./Pressure (inHg)			10
Final Pressure (psi)			5.3
Test/Reference	LOR	Unit	
US EPA Compendium Methods TO-15			
Chloroethane	5.3	ug/m3	< 11
Chloroform	2.4	ug/m3	< 5
Chloromethane	10.3	ug/m3	< 21
Chlorotoluene (Benzyl Chloride)	2.6	ug/m3	< 5
cis-1.2-Dichloroethene	2	ug/m3	< 4
cis-1.3-Dichloropropene	2.3	ug/m3	< 5
Cyclohexane	3.5	ug/m3	< 4
Dibromochloromethane	4.3	ug/m3	< 9
Methylene Chloride	17.4	ug/m3	< 36
Ethanol	9.4	ug/m3	< 9.4
Ethylbenzene	2.2	ug/m3	< 5
Freon 11 (Trichlorofluoromethane)	2.8	ug/m3	< 6
Freon 113 (Trichlorotrifluoroethane)	3.8	ug/m3	< 8
Freon 114	3.5	ug/m3	< 7
Freon 12 (Dichlorodifluoromethane)	2.5	ug/m3	< 5
Heptane	2.1	ug/m3	< 4
Hexachlorobutadiene	21.3	ug/m3	< 44
Hexane	5	ug/m3	< 5
Isopropanol	50	ug/m3	< 102
m.p-Xylene	4.4	ug/m3	< 9
Xylenes - Total*	6.6	ug/m3	< 14
Methyl t-Butyl Ether (MTBE)	7.2	ug/m3	< 15
Naphthalene	10.5	ug/m3	< 22
o-Xylene	2.2	ug/m3	< 5
Propylene	8.6	ug/m3	< 8.6
Styrene	2.1	ug/m3	< 4
Tetrachloroethene	3.4	ug/m3	< 7
Tetrahydrofuran	1.5	ug/m3	< 3
Toluene	7.5	ug/m3	< 7.5
trans-1.2-Dichloroethene	2	ug/m3	< 4
trans-1.3-Dichloropropene	2.3	ug/m3	< 5
Trichloroethene	2.7	ug/m3	< 6
Vinyl Acetate	7.0	ug/m3	< 15
Vinyl Chloride	2.5	ug/m3	< 3
4-Bromofluorobenzene (surr.)	1	%	86
ASTM D1945/D1946			
1-Butene	0.03	mol %	< 0.06
1-Pentene	0.01	mol %	< 0.02
1.3-Butadiene	0.03	mol %	< 0.06
2-Methyl-2-Butene	0.01	mol %	< 0.02
Acetylene	0.01	mol %	< 0.02
Carbon Dioxide	0.03	mol %	< 0.06
Carbon Monoxide	0.02	mol %	< 0.04
cis-2-Pentene	0.01	mol %	< 0.02
Ethane	0.04	mol %	< 0.08

Client Sample ID			G01 MITCHELL 9.5.22
Sample Matrix			6L Passivated Canister
Sample No.			T22- My0053374
Date Sampled			May 09, 2022
Receipt Vac./Pressure (inHg)			10
Final Pressure (psi)			5.3
Test/Reference	LOR	Unit	
ASTM D1945/D1946			
Ethene	0.02	mol %	< 0.04
Helium	0.05	mol %	< 0.1
Hydrogen	0.03	mol %	< 0.06
Isobutane	0.03	mol %	< 0.06
Isobutylene	0.03	mol %	< 0.06
Isopentane	0.01	mol %	< 0.02
Methane	0.05	mol %	< 0.1
Methyl Acetylene	0.01	mol %	< 0.02
n-Butane	0.03	mol %	< 0.06
n-Pentane	0.01	mol %	< 0.02
Nitrogen	0.1	mol %	78
Oxygen + Argon	0.1	mol %	22
Propadiene	0.01	mol %	< 0.02
Propane	0.02	mol %	< 0.04
Propylene	0.01	mol %	< 0.02
trans-2-Butene	0.03	mol %	< 0.06
trans-2-Pentene	0.01	mol %	< 0.02
CRC CARE TR 23 PVI			
>C6-C10	100	ug/m3	< 105
>C6-C10 TRH minus BTEX (F1)	100	ug/m3	< 105
>C10-C12 minus Naphthalene (mod F2)	100	ug/m3	< 105
>C10-C12	100	ug/m3	< 105

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
US EPA Compendium Methods TO-15 - Method: SOP #6 Analysis of Volatile Organic Compounds in Passivated Canisters EPA Method TO-15 And Modified EPA Method TO-14A	BrisbaneAir	May 23, 2022	30 Days
ASTM D1945/D1946 - Method: SOP #8 Analysis of Oxygen, Nitrogen, Methane, Ethane, Ethene, Carbon Monoxide, Carbon Dioxide, Hydrogen and NMOC by Modified ASTM Method D1946	BrisbaneAir	May 23, 2022	30 Days
CRC CARE TR 23 PVI - Method: SOP #111 TPH, NMOC, and TVH Hydrocarbon Fractionation Calculations from EPA Methods TO-14A/TO-15	BrisbaneAir	May 23, 2022	30 Days

Sample Detail						Dilution Factor	Final Pressure (psi)	Receipt Vac./Pressure (in Hg)	AirT oxics Extended Suite 1: US EPA Compendium Methods TO-14a TO-15/CRC
[Redacted]									
[Redacted]									
[Redacted]						X	X	X	X
[Redacted]									
[Redacted]									
External Laboratory									
No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID				
1	MITCHELL 9.5.22	May 09, 2022	5:38AM	6L Passivated Canister	T22-My0053374	X	X	X	X
Test Counts						1	1	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Dilutions are performed on samples due to the presence of high level target species or the presence of high level non-target species.
3. Results are uncorrected for surrogate recoveries.
4. All QC limit exceedances and affected sample results are noted by flags. Each qualifying flag is defined below in section entitled 'Definition of Data Qualifying Flags' and additionally on individual sample results (where relevant).
5. "100% certification" is defined as evaluating the sampling system with humid zero air/N₂ and humid calibration gases that pass through all active components of the sampling system. The system is "100% certified" if no significant additions or deletions (less than 0.2 ppbv each of target compounds) have occurred when challenged with the test gas stream.
6. The conversion equation from ppbv to g/m³ uses a temperature of 25 °C and an ambient sea level atmospheric pressure of 1 atmosphere (101.325 kPa) is assumed.
7. All canister samples are only analysed once temperature equilibrium with the laboratory has been achieved.
8. Safe Sampling Volume (SSV) - calculated by taking two-thirds of the breakthrough volume (direct method) and Appendix 1 of Method T0-17.
9. Samples were analysed on an 'as received' basis.
10. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
11. This report replaces any interim results previously issued.

Definition of Data Qualifying Flags

Qualifiers may have been used on the data analysis sheets and indicates as follows:

- A01 Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- A02 Estimated value.
- A03 Exceeds instrument calibration range.
- A04 Saturated peak.
- A05 Exceeds quality control limits.
- A06 Compound analysed for but not detected above the Limit of Reporting (LOR). See data page for project specific U-flag definition.
- A07 Non-detected compound associated with low bias in the CCV.
- A08 The identification is based on presumptive evidence.
- A09 SSV has been exceeded for this compound. It is likely that this compound has been underestimated.
- A10 LORs cited do not take into account sample dilution due to canister pressurisation.
- A11 Naphthalene elutes outside the >C10-C12 range on the system used for sample analysis. As a result, >C10-C12 TRH value is equivalent to the modified F2 value.

Holding Times

Under conditions of normal usage for sampling ambient air, most Volatile Organic Compounds (VOCs) can be recovered from canisters near their original concentrations after storage times of up to thirty days. For thermal desorption tubes (TDT) samples should be refrigerated at <4°C in a clean environment during storage and analysed within 30 days of sample collection (within one week for limonene, carene, bis-chloromethyl ether and labile sulfur or nitrogen containing volatiles).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

ppbv parts per billion by volume

kPa kilopascal

ug/m³ micrograms per cubic metre

psig pounds per square inch gauge

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
US EPA Compendium Methods TO-15							
1.1-Dichloroethane	ug/m3	< 2			2	Pass	
1.1-Dichloroethene	ug/m3	< 2			2	Pass	
1.1.1-Trichloroethane	ug/m3	< 2.7			2.7	Pass	
1.1.2-Trichloroethane	ug/m3	< 2.7			2.7	Pass	
1.1.2.2-Tetrachloroethane	ug/m3	< 3.4			3.4	Pass	
1.2-D bromoethane (EDB)	ug/m3	< 3.6			3.6	Pass	
1.2-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.2-Dichloroethane	ug/m3	< 2			2	Pass	
1.2-Dichloropropane	ug/m3	< 2.3			2.3	Pass	
1.2.4-Trichlorobenzene	ug/m3	< 15			15	Pass	
1.2.4-Trimethy benzene	ug/m3	< 2.5			2.5	Pass	
1.3-Butadiene	ug/m3	< 2.2			2.2	Pass	
1.3-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.3.5-Trimethy benzene	ug/m3	< 2.5			2.5	Pass	
1.4-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.4-Dioxane	ug/m3	< 7.2			7.2	Pass	
2-Butanone (Methyl Ethyl Ketone)	ug/m3	< 5.9			5.9	Pass	
2-Hexanone	ug/m3	< 8.2			8.2	Pass	
2.2.4-Trimethylpentane	ug/m3	< 9.3			9.3	Pass	
3-Chloropropene	ug/m3	< 1.6			1.6	Pass	
4-Ethyltoluene	ug/m3	< 2.5			2.5	Pass	
4-Methyl-2-Pentanone (MIBK)	ug/m3	< 2.1			2.1	Pass	
Acetone	ug/m3	< 16.6			16.6	Pass	
Benzene	ug/m3	< 1.6			1.6	Pass	
Bromodichloromethane	ug/m3	< 3.4			3.4	Pass	
Bromoform	ug/m3	< 5.2			5.2	Pass	
Bromomethane	ug/m3	< 19.4			19.4	Pass	
Carbon Disulfide	ug/m3	< 15.6			15.6	Pass	
Carbon Tetrachloride	ug/m3	< 3.1			3.1	Pass	
Chlorobenzene	ug/m3	< 2.3			2.3	Pass	
Chloroethane	ug/m3	< 5.3			5.3	Pass	
Chloroform	ug/m3	< 2.4			2.4	Pass	
Chloromethane	ug/m3	< 10.3			10.3	Pass	
Chlorotoluene (Benzyl Chloride)	ug/m3	< 2.6			2.6	Pass	
cis-1.2-Dichloroethene	ug/m3	< 2			2	Pass	
cis-1.3-Dichloropropene	ug/m3	< 2.3			2.3	Pass	
Cyclohexane	ug/m3	< 3.5			3.5	Pass	
Dibromochloromethane	ug/m3	< 4.3			4.3	Pass	
Methylene Chloride	ug/m3	< 17.4			17.4	Pass	
Ethanol	ug/m3	< 9.4			9.4	Pass	
Ethylbenzene	ug/m3	< 2.2			2.2	Pass	
Freon 11 (Trichlorofluoromethane)	ug/m3	< 2.8			2.8	Pass	
Freon 113 (Trichlorotrifluoroethane)	ug/m3	< 3.8			3.8	Pass	
Freon 114	ug/m3	< 3.5			3.5	Pass	
Freon 12 (Dichlorodifluoromethane)	ug/m3	< 2.5			2.5	Pass	
Heptane	ug/m3	< 2.1			2.1	Pass	
Hexachlorobutadiene	ug/m3	< 21.3			21.3	Pass	
Hexane	ug/m3	< 5			5	Pass	
Isopropanol	ug/m3	< 50			50	Pass	
m.p-Xylene	ug/m3	< 4.4			4.4	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total*	ug/m3	< 6.6		6.6	Pass	
Methyl t-Butyl Ether (MTBE)	ug/m3	< 7.2		7.2	Pass	
Naphthalene	ug/m3	< 10.5		10.5	Pass	
o-Xylene	ug/m3	< 2.2		2.2	Pass	
Propylene	ug/m3	< 8.6		8.6	Pass	
Styrene	ug/m3	< 2.1		2.1	Pass	
Tetrachloroethene	ug/m3	< 3.4		3.4	Pass	
Tetrahydrofuran	ug/m3	< 1.5		1.5	Pass	
Toluene	ug/m3	< 7.5		7.5	Pass	
trans-1,2-Dichloroethene	ug/m3	< 2		2	Pass	
trans-1,3-Dichloropropene	ug/m3	< 2.3		2.3	Pass	
Trichloroethene	ug/m3	< 2.7		2.7	Pass	
Vinyl Acetate	ug/m3	< 7		7.0	Pass	
Vinyl Chloride	ug/m3	< 2.5		2.5	Pass	
Method Blank						
ASTM D1945/D1946						
1-Butene	mol %	< 0.03		0.03	Pass	
1-Pentene	mol %	< 0.01		0.01	Pass	
1,3-Butadiene	mol %	< 0.03		0.03	Pass	
2-Methyl-2-Butene	mol %	< 0.01		0.01	Pass	
Acetylene	mol %	< 0.01		0.01	Pass	
Carbon Dioxide	mol %	< 0.03		0.03	Pass	
Carbon Monoxide	mol %	< 0.02		0.02	Pass	
cis-2-Pentene	mol %	< 0.01		0.01	Pass	
Ethane	mol %	< 0.04		0.04	Pass	
Ethene	mol %	< 0.02		0.02	Pass	
Helium	mol %	< 0.05		0.05	Pass	
Hydrogen	mol %	< 0.03		0.03	Pass	
Isobutane	mol %	< 0.03		0.03	Pass	
Isobutylene	mol %	< 0.03		0.03	Pass	
Isopentane	mol %	< 0.01		0.01	Pass	
Methane	mol %	< 0.05		0.05	Pass	
Methyl Acetylene	mol %	< 0.01		0.01	Pass	
n-Butane	mol %	< 0.03		0.03	Pass	
n-Pentane	mol %	< 0.01		0.01	Pass	
Oxygen + Argon	mol %	< 0.1		0.1	Pass	
Propadiene	mol %	< 0.01		0.01	Pass	
Propane	mol %	< 0.02		0.02	Pass	
Propylene	mol %	< 0.01		0.01	Pass	
trans-2-Butene	mol %	< 0.03		0.03	Pass	
trans-2-Pentene	mol %	< 0.01		0.01	Pass	
LCS - % Recovery						
US EPA Compendium Methods TO-15						
1,1-Dichloroethane	%	92		70-130	Pass	
1,1-Dichloroethene	%	91		70-130	Pass	
1,1,1-Trichloroethane	%	95		70-130	Pass	
1,1,2-Trichloroethane	%	112		70-130	Pass	
1,1,2,2-Tetrachloroethane	%	116		70-130	Pass	
1,2-D bromoethane (EDB)	%	105		70-130	Pass	
1,2-Dichlorobenzene	%	112		70-130	Pass	
1,2-Dichloroethane	%	106		70-130	Pass	
1,2-Dichloropropane	%	103		70-130	Pass	
1,2,4-Trichlorobenzene	%	84		70-130	Pass	
1,2,4-Trimethy benzene	%	96		70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.3-Butadiene	%	88			70-130	Pass	
1.3-Dichlorobenzene	%	110			70-130	Pass	
1.3.5-Trimethy benzene	%	110			70-130	Pass	
1.4-Dichlorobenzene	%	110			70-130	Pass	
1.4-Dioxane	%	95			70-130	Pass	
2-Butanone (Methyl Ethyl Ketone)	%	88			70-130	Pass	
2-Hexanone	%	88			70-130	Pass	
2.2.4-Trimethylpentane	%	91			70-130	Pass	
3-Chloropropene	%	94			70-130	Pass	
4-Ethyltoluene	%	113			70-130	Pass	
4-Methyl-2-Pentanone (MIBK)	%	78			70-130	Pass	
Acetone	%	92			70-130	Pass	
Benzene	%	105			70-130	Pass	
Bromodichloromethane	%	109			70-130	Pass	
Bromoform	%	113			70-130	Pass	
Bromomethane	%	81			70-130	Pass	
Carbon Disulfide	%	98			70-130	Pass	
Carbon Tetrachloride	%	98			70-130	Pass	
Chlorobenzene	%	100			70-130	Pass	
Chloroethane	%	99			70-130	Pass	
Chloroform	%	99			70-130	Pass	
Chloromethane	%	85			70-130	Pass	
Chlorotoluene (Benzyl Chloride)	%	97			70-130	Pass	
cis-1.2-Dichloroethene	%	89			70-130	Pass	
cis-1.3-Dichloropropene	%	94			70-130	Pass	
Cyclohexane	%	83			70-130	Pass	
Dibromochloromethane	%	111			70-130	Pass	
Methylene Chloride	%	96			70-130	Pass	
Ethanol	%	74			70-130	Pass	
Ethylbenzene	%	100			70-130	Pass	
Freon 11 (Trichlorofluoromethane)	%	104			70-130	Pass	
Freon 113 (Trichlorotrifluoroethane)	%	98			70-130	Pass	
Freon 114	%	102			70-130	Pass	
Freon 12 (Dichlorodifluoromethane)	%	91			70-130	Pass	
Heptane	%	101			70-130	Pass	
Hexachlorobutadiene	%	102			70-130	Pass	
Hexane	%	92			70-130	Pass	
Isopropanol	%	95			70-130	Pass	
m,p-Xylene	%	108			70-130	Pass	
Methyl t-Butyl Ether (MTBE)	%	84			70-130	Pass	
Naphthalene	%	76			70-130	Pass	
o-Xylene	%	104			70-130	Pass	
Propylene	%	83			70-130	Pass	
Styrene	%	101			70-130	Pass	
Tetrachloroethene	%	106			70-130	Pass	
Tetrahydrofuran	%	77			70-130	Pass	
Toluene	%	99			70-130	Pass	
trans-1.2-Dichloroethene	%	91			70-130	Pass	
trans-1.3-Dichloropropene	%	99			70-130	Pass	
Trichloroethene	%	99			70-130	Pass	
Vinyl Acetate	%	75			70-130	Pass	
Vinyl Chloride	%	97			70-130	Pass	
LCS - % Recovery							
ASTM D1945/D1946							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1-Butene	%	97			70-130	Pass	
1-Pentene	%	99			70-130	Pass	
1.3-Butadiene	%	99			70-130	Pass	
2-Methyl-2-Butene	%	94			70-130	Pass	
Acetylene	%	97			70-130	Pass	
Carbon Dioxide	%	104			70-130	Pass	
Carbon Monoxide	%	102			70-130	Pass	
cis-2-Pentene	%	96			70-130	Pass	
Ethane	%	98			70-130	Pass	
Ethene	%	99			70-130	Pass	
Hydrogen	%	97			70-130	Pass	
Isobutane	%	99			70-130	Pass	
Isobutylene	%	97			70-130	Pass	
Isopentane	%	97			70-130	Pass	
Methane	%	98			70-130	Pass	
Methyl Acetylene	%	97			70-130	Pass	
n-Butane	%	98			70-130	Pass	
n-Pentane	%	97			70-130	Pass	
Propadiene	%	100			70-130	Pass	
Propane	%	99			70-130	Pass	
Propylene	%	98			70-130	Pass	
trans-2-Butene	%	96			70-130	Pass	
trans-2-Pentene	%	97			70-130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	N/A
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	No
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference

Authorised by:



Sample Receipt Advice

Company name: [REDACTED]
Contact name: [REDACTED]
Project name: Not provided
Project ID: Not provided
Turnaround time: 2 Day
Date/Time received Jun 3, 2022 3:30 PM
[REDACTED] reference [REDACTED]

Sample Information

- ✓ A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✗ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✗ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

[REDACTED]

Results will be delivered electronically via email to [REDACTED].

Note: A copy of these results will also be delivered to the general [REDACTED].

[REDACTED]

Report 894523-TO
 Project name MITCHELL VAPOUR
 Received Date Jun 03, 2022

Client Sample ID			A10 MITCHELL 1/06/22 6L Passivated Canister R22-Jn0007939 Jun 01, 2022 9.4 5.4	A10 QC101 6L Passivated Canister R22-Jn0007940 Jun 01, 2022 9.5 5.4
Sample Matrix				
Sample No.				
Date Sampled				
Receipt Vac./Pressure (inHg)				
Final Pressure (psi)				
Test/Reference	LOR	Unit		
Dilution Factor	0.1		2.0	2.0
US EPA Compendium Methods TO-15				
1.1-Dichloroethane	2	ug/m3	< 4	< 4
1.1-Dichloroethene	2	ug/m3	< 4	< 4
1.1.1-Trichloroethane	2.7	ug/m3	< 5	< 6
1.1.2-Trichloroethane	2.7	ug/m3	< 5	< 6
1.1.2.2-Tetrachloroethane	3.4	ug/m3	< 7	< 7
1.2-D bromoethane (EDB)	3.6	ug/m3	< 7	< 7
1.2-Dichlorobenzene	3	ug/m3	< 6	< 6
1.2-Dichloroethane	2	ug/m3	< 4	< 4
1.2-Dichloropropane	2.3	ug/m3	< 5	< 5
1.2.4-Trichlorobenzene	15	ug/m3	< 30	< 30
1.2.4-Trimethy benzene	2.5	ug/m3	< 5	< 5
1.3-Butadiene	2.2	ug/m3	< 2.2	< 2.2
1.3-Dichlorobenzene	3	ug/m3	< 6	< 6
1.3.5-Trimethy benzene	2.5	ug/m3	< 5	< 5
1.4-Dichlorobenzene	3	ug/m3	< 6	< 6
1.4-Dioxane	7.2	ug/m3	< 14	< 15
2-Butanone (Methyl Ethyl Ketone)	5.9	ug/m3	< 12	< 12
2-Hexanone	8.2	ug/m3	< 16	< 17
2.2.4-Trimethylpentane	9.3	ug/m3	< 19	< 19
3-Chloropropene	1.6	ug/m3	< 13	< 13
4-Ethyltoluene	2.5	ug/m3	< 5	< 5
4-Methyl-2-Pentanone (MIBK)	2.1	ug/m3	< 4	< 4
Acetone	16.6	ug/m3	< 24	< 24
Benzene	1.6	ug/m3	< 3	< 3
Bromodichloromethane	3.4	ug/m3	< 7	< 7
Bromoform	5.2	ug/m3	< 10	< 10
Bromomethane	19.4	ug/m3	< 39	< 39
Carbon Disulfide	15.6	ug/m3	< 15.6	< 15.6
Carbon Tetrachloride	3.1	ug/m3	< 6	< 6
Chlorobenzene	2.3	ug/m3	< 5	< 5
Chloroethane	5.3	ug/m3	< 11	< 11

Client Sample ID			A10 MITCHELL 1/06/22	A10 QC101
Sample Matrix			6L Passivated Canister	6L Passivated Canister
Sample No.			R22-Jn0007939	R22-Jn0007940
Date Sampled			Jun 01, 2022	Jun 01, 2022
Receipt Vac./Pressure (inHg)			9.4	9.5
Final Pressure (psi)			5.4	5.4
Test/Reference	LOR	Unit		
US EPA Compendium Methods TO-15				
Chloroform	2.4	ug/m3	< 5	< 5
Chloromethane	10.3	ug/m3	< 21	< 21
Chlorotoluene (Benzyl Chloride)	2.6	ug/m3	< 5	< 5
cis-1.2-Dichloroethene	2	ug/m3	< 4	< 4
cis-1.3-Dichloropropene	2.3	ug/m3	< 5	< 5
Cyclohexane	3.5	ug/m3	< 3.5	< 3.5
Dibromochloromethane	4.3	ug/m3	< 9	< 9
Methylene Chloride	17.4	ug/m3	< 35	< 35
Ethanol	9.4	ug/m3	< 9.4	< 9.4
Ethylbenzene	2.2	ug/m3	< 4	< 4
Freon 11 (Trichlorofluoromethane)	2.8	ug/m3	< 6	< 6
Freon 113 (Trichlorotrifluoroethane)	3.8	ug/m3	< 8	< 8
Freon 114	3.5	ug/m3	< 7	< 7
Freon 12 (Dichlorodifluoromethane)	2.5	ug/m3	< 5	< 5
Heptane	2.1	ug/m3	< 4	< 4
Hexachlorobutadiene	21.3	ug/m3	< 43	< 43
Hexane	5	ug/m3	< 5	< 5
Isopropanol	50	ug/m3	< 99	< 99
m.p-Xylene	4.4	ug/m3	< 9	< 9
Xylenes - Total*	6.6	ug/m3	< 13	< 13
Methyl t-Butyl Ether (MTBE)	7.2	ug/m3	< 14	< 15
Naphthalene	10.5	ug/m3	< 21	< 22
o-Xylene	2.2	ug/m3	< 4	< 4
Propylene	8.6	ug/m3	< 8.6	< 8.6
Styrene	2.1	ug/m3	< 4	< 4
Tetrachloroethene	3.4	ug/m3	< 7	< 7
Tetrahydrofuran	1.5	ug/m3	< 3	< 3
Toluene	7.5	ug/m3	< 7.5	< 7.5
trans-1.2-Dichloroethene	2	ug/m3	< 4	< 4
trans-1.3-Dichloropropene	2.3	ug/m3	< 5	< 5
Trichloroethene	2.7	ug/m3	< 5	< 5
Vinyl Acetate	7.0	ug/m3	< 14	< 14
Vinyl Chloride	2.5	ug/m3	< 3	< 3
4-Bromofluorobenzene (surr.)	1	%	90	93
ASTM D1945/D1946				
1-Butene	0.03	mol %	< 0.06	< 0.06
1-Pentene	0.01	mol %	< 0.02	< 0.02
1.3-Butadiene	0.03	mol %	< 0.06	< 0.06
2-Methyl-2-Butene	0.01	mol %	< 0.02	< 0.02
Acetylene	0.01	mol %	< 0.02	< 0.02
Carbon Dioxide	0.03	mol %	< 0.06	< 0.06
Carbon Monoxide	0.02	mol %	< 0.04	< 0.04
cis-2-Pentene	0.01	mol %	< 0.02	< 0.02
Ethane	0.04	mol %	< 0.08	< 0.08
Ethene	0.02	mol %	< 0.04	< 0.04
Helium	0.05	mol %	< 0.1	< 0.1

Client Sample ID			A10 MITCHELL 1/06/22	A10 QC101
Sample Matrix			6L Passivated Canister	6L Passivated Canister
Sample No.			R22-Jn0007939	R22-Jn0007940
Date Sampled			Jun 01, 2022	Jun 01, 2022
Receipt Vac./Pressure (inHg)			9.4	9.5
Final Pressure (psi)			5.4	5.4
Test/Reference	LOR	Unit		
ASTM D1945/D1946				
Hydrogen	0.03	mol %	< 0.06	< 0.06
Isobutane	0.03	mol %	< 0.06	< 0.06
Isobutylene	0.03	mol %	< 0.06	< 0.06
Isopentane	0.01	mol %	< 0.02	< 0.02
Methane	0.05	mol %	< 0.1	< 0.1
Methyl Acetylene	0.01	mol %	< 0.02	< 0.02
n-Butane	0.03	mol %	< 0.06	< 0.06
n-Pentane	0.01	mol %	< 0.02	< 0.02
Nitrogen	0.1	mol %	78	78
Oxygen + Argon	0.1	mol %	22	22
Propadiene	0.01	mol %	< 0.02	< 0.02
Propane	0.02	mol %	< 0.04	< 0.04
Propylene	0.01	mol %	< 0.02	< 0.02
trans-2-Butene	0.03	mol %	< 0.06	< 0.06
trans-2-Pentene	0.01	mol %	< 0.02	< 0.02
CRC CARE TR 23 PVI				
>C6-C10	100	ug/m3	< 100	< 100
>C6-C10 TRH minus BTEX (F1)	100	ug/m3	< 100	< 100
>C10-C12 minus Naphthalene (mod F2)	100	ug/m3	< 100	< 100
>C10-C12	100	ug/m3	< 100	< 100

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
US EPA Compendium Methods TO-15 - Method: SOP #6 Analysis of Volatile Organic Compounds in Passivated Canisters EPA Method TO-15 And Modified EPA Method TO-14A	BrisbaneAir	Jun 03, 2022	30 Days
ASTM D1945/D1946 - Method: SOP #8 Analysis of Oxygen, Nitrogen, Methane, Ethane, Ethene, Carbon Monoxide, Carbon Dioxide, Hydrogen and NMOC by Modified ASTM Method D1946	BrisbaneAir	Jun 03, 2022	30 Days
CRC CARE TR 23 PVI - Method: SOP #111 TPH, NMOC, and TVH Hydrocarbon Fractionation Calculations from EPA Methods TO-14A/TO-15	BrisbaneAir	Jun 03, 2022	30 Days

Sample Detail

AirToxics Extended Suite 1: US EPA Compendium Methods TO-14a TO-15/CRC

External Laboratory

No	Sample ID	Sample Date	Sampling Time	Matrix	LAB ID	
1	MITCHELL 1/06/22	Jun 01, 2022		Air	R22- Jn0007939	X
2	QC101	Jun 01, 2022		Air	R22- Jn0007940	X

Test Counts	2
--------------------	---

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples are included in this QC report where applicable. Additional QC data may be available on request.
2. Dilutions are performed on samples due to the presence of high level target species or the presence of high level non-target species.
3. Results are uncorrected for surrogate recoveries.
4. All QC limit exceedances and affected sample results are noted by flags. Each qualifying flag is defined below in section entitled 'Definition of Data Qualifying Flags' and additionally on individual sample results (where relevant).
5. "100% certification" is defined as evaluating the sampling system with humid zero air/N₂ and humid calibration gases that pass through all active components of the sampling system. The system is "100% certified" if no significant additions or deletions (less than 0.2 ppbv each of target compounds) have occurred when challenged with the test gas stream.
6. The conversion equation from ppbv to g/m³ uses a temperature of 25 °C and an ambient sea level atmospheric pressure of 1 atmosphere (101.325 kPa) is assumed.
7. All canister samples are only analysed once temperature equilibrium with the laboratory has been achieved.
8. Safe Sampling Volume (SSV) - calculated by taking two-thirds of the breakthrough volume (direct method) and Appendix 1 of Method T0-17.
9. Samples were analysed on an 'as received' basis.
10. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
11. This report replaces any interim results previously issued.

Definition of Data Qualifying Flags

Qualifiers may have been used on the data analysis sheets and indicates as follows:

- A01 Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- A02 Estimated value.
- A03 Exceeds instrument calibration range.
- A04 Saturated peak.
- A05 Exceeds quality control limits.
- A06 Compound analysed for but not detected above the Limit of Reporting (LOR). See data page for project specific U-flag definition.
- A07 Non-detected compound associated with low bias in the CCV.
- A08 The identification is based on presumptive evidence.
- A09 SSV has been exceeded for this compound. It is likely that this compound has been underestimated.
- A10 LORs cited do not take into account sample dilution due to canister pressurisation.
- A11 Naphthalene elutes outside the >C10-C12 range on the system used for sample analysis. As a result, >C10-C12 TRH value is equivalent to the modified F2 value.

Holding Times

Under conditions of normal usage for sampling ambient air, most Volatile Organic Compounds (VOCs) can be recovered from canisters near their original concentrations after storage times of up to thirty days. For thermal desorption tubes (TDT) samples should be refrigerated at <4°C in a clean environment during storage and analysed within 30 days of sample collection (within one week for limonene, carene, bis-chloromethyl ether and labile sulfur or nitrogen containing volatiles).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

ppbv parts per billion by volume

kPa kilopascal

ug/m³ micrograms per cubic metre

psig pounds per square inch gauge

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
US EPA Compendium Methods TO-15							
1.1-Dichloroethane	ug/m3	< 2			2	Pass	
1.1-Dichloroethene	ug/m3	< 2			2	Pass	
1.1.1-Trichloroethane	ug/m3	< 2.7			2.7	Pass	
1.1.2-Trichloroethane	ug/m3	< 2.7			2.7	Pass	
1.1.2.2-Tetrachloroethane	ug/m3	< 3.4			3.4	Pass	
1.2-D bromoethane (EDB)	ug/m3	< 3.6			3.6	Pass	
1.2-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.2-Dichloroethane	ug/m3	< 2			2	Pass	
1.2-Dichloropropane	ug/m3	< 2.3			2.3	Pass	
1.2.4-Trichlorobenzene	ug/m3	< 15			15	Pass	
1.2.4-Trimethy benzene	ug/m3	< 2.5			2.5	Pass	
1.3-Butadiene	ug/m3	< 2.2			2.2	Pass	
1.3-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.3.5-Trimethy benzene	ug/m3	< 2.5			2.5	Pass	
1.4-Dichlorobenzene	ug/m3	< 3			3	Pass	
1.4-Dioxane	ug/m3	< 7.2			7.2	Pass	
2-Butanone (Methyl Ethyl Ketone)	ug/m3	< 5.9			5.9	Pass	
2-Hexanone	ug/m3	< 8.2			8.2	Pass	
2.2.4-Trimethylpentane	ug/m3	< 9.3			9.3	Pass	
3-Chloropropene	ug/m3	< 1.6			1.6	Pass	
4-Ethyltoluene	ug/m3	< 2.5			2.5	Pass	
4-Methyl-2-Pentanone (MIBK)	ug/m3	< 2.1			2.1	Pass	
Acetone	ug/m3	< 16.6			16.6	Pass	
Benzene	ug/m3	< 1.6			1.6	Pass	
Bromodichloromethane	ug/m3	< 3.4			3.4	Pass	
Bromoform	ug/m3	< 5.2			5.2	Pass	
Bromomethane	ug/m3	< 19.4			19.4	Pass	
Carbon Disulfide	ug/m3	< 15.6			15.6	Pass	
Carbon Tetrachloride	ug/m3	< 3.1			3.1	Pass	
Chlorobenzene	ug/m3	< 2.3			2.3	Pass	
Chloroethane	ug/m3	< 5.3			5.3	Pass	
Chloroform	ug/m3	< 2.4			2.4	Pass	
Chloromethane	ug/m3	< 10.3			10.3	Pass	
Chlorotoluene (Benzyl Chloride)	ug/m3	< 2.6			2.6	Pass	
cis-1.2-Dichloroethene	ug/m3	< 2			2	Pass	
cis-1.3-Dichloropropene	ug/m3	< 2.3			2.3	Pass	
Cyclohexane	ug/m3	< 3.5			3.5	Pass	
Dibromochloromethane	ug/m3	< 4.3			4.3	Pass	
Methylene Chloride	ug/m3	< 17.4			17.4	Pass	
Ethanol	ug/m3	< 9.4			9.4	Pass	
Ethylbenzene	ug/m3	< 2.2			2.2	Pass	
Freon 11 (Trichlorofluoromethane)	ug/m3	< 2.8			2.8	Pass	
Freon 113 (Trichlorotrifluoroethane)	ug/m3	< 3.8			3.8	Pass	
Freon 114	ug/m3	< 3.5			3.5	Pass	
Freon 12 (Dichlorodifluoromethane)	ug/m3	< 2.5			2.5	Pass	
Heptane	ug/m3	< 2.1			2.1	Pass	
Hexachlorobutadiene	ug/m3	< 21.3			21.3	Pass	
Hexane	ug/m3	< 5			5	Pass	
Isopropanol	ug/m3	< 50			50	Pass	
m,p-Xylene	ug/m3	< 4.4			4.4	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
Xylenes - Total*	ug/m3	< 6.6		6.6	Pass	
Methyl t-Butyl Ether (MTBE)	ug/m3	< 7.2		7.2	Pass	
Naphthalene	ug/m3	< 10.5		10.5	Pass	
o-Xylene	ug/m3	< 2.2		2.2	Pass	
Propylene	ug/m3	< 8.6		8.6	Pass	
Styrene	ug/m3	< 2.1		2.1	Pass	
Tetrachloroethene	ug/m3	< 3.4		3.4	Pass	
Tetrahydrofuran	ug/m3	< 1.5		1.5	Pass	
Toluene	ug/m3	< 7.5		7.5	Pass	
trans-1,2-Dichloroethene	ug/m3	< 2		2	Pass	
trans-1,3-Dichloropropene	ug/m3	< 2.3		2.3	Pass	
Trichloroethene	ug/m3	< 2.7		2.7	Pass	
Vinyl Acetate	ug/m3	< 7		7.0	Pass	
Vinyl Chloride	ug/m3	< 2.5		2.5	Pass	
Method Blank						
ASTM D1945/D1946						
1-Butene	mol %	< 0.03		0.03	Pass	
1-Pentene	mol %	< 0.01		0.01	Pass	
1,3-Butadiene	mol %	< 0.03		0.03	Pass	
2-Methyl-2-Butene	mol %	< 0.01		0.01	Pass	
Acetylene	mol %	< 0.01		0.01	Pass	
Carbon Dioxide	mol %	< 0.03		0.03	Pass	
Carbon Monoxide	mol %	< 0.02		0.02	Pass	
cis-2-Pentene	mol %	< 0.01		0.01	Pass	
Ethane	mol %	< 0.04		0.04	Pass	
Ethene	mol %	< 0.02		0.02	Pass	
Helium	mol %	< 0.05		0.05	Pass	
Hydrogen	mol %	< 0.03		0.03	Pass	
Isobutane	mol %	< 0.03		0.03	Pass	
Isobutylene	mol %	< 0.03		0.03	Pass	
Isopentane	mol %	< 0.01		0.01	Pass	
Methane	mol %	< 0.05		0.05	Pass	
Methyl Acetylene	mol %	< 0.01		0.01	Pass	
n-Butane	mol %	< 0.03		0.03	Pass	
n-Pentane	mol %	< 0.01		0.01	Pass	
Oxygen + Argon	mol %	< 0.1		0.1	Pass	
Propadiene	mol %	< 0.01		0.01	Pass	
Propane	mol %	< 0.02		0.02	Pass	
Propylene	mol %	< 0.01		0.01	Pass	
trans-2-Butene	mol %	< 0.03		0.03	Pass	
trans-2-Pentene	mol %	< 0.01		0.01	Pass	
LCS - % Recovery						
US EPA Compendium Methods TO-15						
1,1-Dichloroethane	%	111		70-130	Pass	
1,1-Dichloroethene	%	122		70-130	Pass	
1,1,1-Trichloroethane	%	112		70-130	Pass	
1,1,2-Trichloroethane	%	97		70-130	Pass	
1,1,2,2-Tetrachloroethane	%	106		70-130	Pass	
1,2-D bromoethane (EDB)	%	102		70-130	Pass	
1,2-Dichlorobenzene	%	90		70-130	Pass	
1,2-Dichloroethane	%	115		70-130	Pass	
1,2-Dichloropropane	%	113		70-130	Pass	
1,2,4-Trichlorobenzene	%	112		70-130	Pass	
1,2,4-Trimethy benzene	%	92		70-130	Pass	

Test	Units	Result 1		Acceptance Limits	Pass Limits	Qualifying Code
1.3-Butadiene	%	117		70-130	Pass	
1.3-Dichlorobenzene	%	93		70-130	Pass	
1.3.5-Trimethy benzene	%	92		70-130	Pass	
1.4-Dichlorobenzene	%	90		70-130	Pass	
1.4-Dioxane	%	125		70-130	Pass	
2-Butanone (Methyl Ethyl Ketone)	%	112		70-130	Pass	
2-Hexanone	%	104		70-130	Pass	
2.2.4-Trimethylpentane	%	124		70-130	Pass	
3-Chloropropene	%	107		70-130	Pass	
4-Ethyltoluene	%	92		70-130	Pass	
4-Methyl-2-Pentanone (MIBK)	%	122		70-130	Pass	
Acetone	%	117		70-130	Pass	
Benzene	%	113		70-130	Pass	
Bromodichloromethane	%	114		70-130	Pass	
Bromoform	%	112		70-130	Pass	
Bromomethane	%	109		70-130	Pass	
Carbon Disulfide	%	105		70-130	Pass	
Carbon Tetrachloride	%	114		70-130	Pass	
Chlorobenzene	%	103		70-130	Pass	
Chloroethane	%	111		70-130	Pass	
Chloroform	%	115		70-130	Pass	
Chloromethane	%	85		70-130	Pass	
Chlorotoluene (Benzyl Chloride)	%	88		70-130	Pass	
cis-1.2-Dichloroethene	%	114		70-130	Pass	
cis-1.3-Dichloropropene	%	126		70-130	Pass	
Cyclohexane	%	125		70-130	Pass	
Dibromochloromethane	%	104		70-130	Pass	
Methylene Chloride	%	101		70-130	Pass	
Ethanol	%	125		70-130	Pass	
Ethylbenzene	%	128		70-130	Pass	
Freon 11 (Trichlorofluoromethane)	%	110		70-130	Pass	
Freon 113 (Trichlorotrifluoroethane)	%	109		70-130	Pass	
Freon 114	%	105		70-130	Pass	
Freon 12 (Dichlorodifluoromethane)	%	109		70-130	Pass	
Heptane	%	127		70-130	Pass	
Hexachlorobutadiene	%	100		70-130	Pass	
Hexane	%	111		70-130	Pass	
Isopropanol	%	122		70-130	Pass	
m,p-Xylene	%	116		70-130	Pass	
Xylenes - Total*	%	119		70-130	Pass	
Methyl t-Butyl Ether (MTBE)	%	105		70-130	Pass	
Naphthalene	%	90		70-130	Pass	
o-Xylene	%	124		70-130	Pass	
Propylene	%	96		70-130	Pass	
Styrene	%	128		70-130	Pass	
Tetrachloroethene	%	97		70-130	Pass	
Tetrahydrofuran	%	127		70-130	Pass	
Toluene	%	116		70-130	Pass	
trans-1.2-Dichloroethene	%	120		70-130	Pass	
trans-1.3-Dichloropropene	%	100		70-130	Pass	
Trichloroethene	%	114		70-130	Pass	
Vinyl Acetate	%	98		70-130	Pass	
Vinyl Chloride	%	110		70-130	Pass	
LCS - % Recovery						

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
ASTM D1945/D1946							
1-Butene	%	98			70-130	Pass	
1-Pentene	%	97			70-130	Pass	
1.3-Butadiene	%	100			70-130	Pass	
2-Methyl-2-Butene	%	94			70-130	Pass	
Acetylene	%	98			70-130	Pass	
Carbon Dioxide	%	107			70-130	Pass	
Carbon Monoxide	%	99			70-130	Pass	
cis-2-Pentene	%	94			70-130	Pass	
Ethane	%	98			70-130	Pass	
Ethene	%	99			70-130	Pass	
Hydrogen	%	97			70-130	Pass	
Isobutane	%	98			70-130	Pass	
Isobutylene	%	97			70-130	Pass	
Isopentane	%	96			70-130	Pass	
Methane	%	98			70-130	Pass	
Methyl Acetylene	%	98			70-130	Pass	
n-Butane	%	98			70-130	Pass	
n-Pentane	%	96			70-130	Pass	
Propadiene	%	100			70-130	Pass	
Propane	%	99			70-130	Pass	
Propylene	%	98			70-130	Pass	
trans-2-Butene	%	96			70-130	Pass	
trans-2-Pentene	%	95			70-130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	No
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
A10	LORs cited do not take into account sample dilution due to canister pressurisation

Authorised by:



Attachment 3: Formal Correction Notice for DA201733198 S197D

The following two (2) pages of Attachment 3 comprise the Formal Correction Notice for DA201733198 S197D, dated 1 March 2023.



ACT
Government

Dear [REDACTED]

BLOCK 18 SECTION 11 - Mitchell
Development Application Number: 201733198 S197D
Lessee: [REDACTED]

I refer to the Notice of Decision (NoD) dated 8 August 2022 concerning the above application.

It has come to the planning and land authority's attention that Condition 1 of the NoD as currently imposed is as follows:

Condition 1

1. CHILDREN'S EDUCATION AND CARE ASSURANCE (CECA) – WORKS NOT TO COMMENCE

- a) *No construction works, with the exception of demolition and excavation, in relation to this development approval is to commence until the lessee/applicant has obtained approval from CECA in accordance with the Education and Care Services National Law Act (ACT) 2010 (National Law) and the Education and Care Services National Regulations (National Regulations).*
- b) *The lessee/applicant must address and comply with any additional conditions imposed by CECA.*

Note: Any substantial changes to the development required for compliance with CECA will need to be submitted for the consideration of the planning and land authority with an application to amend the approval under Section 197 of the Planning and Development Act 2007.

It is understood that in November 2022, a submission by the applicant / lessee was made to CECA in an attempt to obtain the approval of CECA in order to address the relevant condition 1 (a) of the S 197D approval.

However, the submission was unsuccessful, with CECA advising by letter dated 23 January 2023 back to the development application applicant that:

CECA is not able to consider an application for service approval (made by an approved provider under Part 3 of the National Law) nor otherwise indicate that such an application, if made, might be approved, other than in accordance with Part 2.2 ('Service approvals') of the Education and Care Services National Regulations. In addition, CECA does not approve an education and care service, or indicate possible approval, without inspecting the completed and fitted-out building. In the case of a multi-storey building, inspection of the proposed premises by ACT Fire and Rescue may also be required.



As the condition 1 (a) as imposed precludes any capacity for the applicant to meet the condition at this stage of the development due to CECA not being able to consider an application for approval etc as the building has not yet been constructed and completed, the condition as written is required to be amended to state the applicant is to receive CECA support.

Consequently, in accordance with section 196 of the *Planning and Development Act 2007*, the Notice of Decision dated 8 August 2022 is formally corrected as follows:

Amended condition:
Condition 1 (a)


provide an endorsement from Children's Education & Care Assurance (CECA) addressing CECA requirements.

I note that while s197D plans have been released a s 165 application may need to be submitted as evidence of the planning and land authority's endorse of the corrected condition.

The remaining conditions of approval set out in the previous NoD and as formally corrected continue to apply.

If you would like to discuss this matter further, please telephone the DA Coordinator on 62076383.

Yours sincerely



Graham Sandeman
ACT Planning and Land Authority

1 March 2023

From: [Stedman, Andrew \(Health\)](#)
To: [Brookes, Clare](#); [Hudson, Lyndell \(Health\)](#)
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Monday, 3 April 2023 12:28:25 PM
Attachments: [image001.jpg](#)
[image002.gif](#)
[image005.png](#)
[image006.png](#)
[image007.jpg](#)
[image008.gif](#)
[image009.png](#)
[image011.jpg](#)
[Referral-Health-DEVELOPMENT APPLICATION - Additional documents submissi...pdf](#)
[image010.jpg](#)
[image012.jpg](#)

Hi Clare,

We will have our air quality team have a look through the document and provide comment

I note that the provided air quality report doesn't look like it has complied with all the testing as HPS requested from the proponent (2018 letter to them attached)

The proponent should also provide the full [REDACTED] Human Health Risk Assessment, as quoted in [REDACTED] letter as "Attachment 2" It appears the [REDACTED] Air quality report is an excerpt (sub report) of the larger Human Health Risk Assessment

The HPS letter of 2018 requested the Human Health risk Assessment incorporate the revised air quality testing and provide comment on permitted activities in the area and the resulting health impact

Kind regards

Andrew Stedman | Public Health Officer | Assistant Director Environmental Health
 Ph 02 5124 9087 | Mobile 0434 607 429 | Email Andrew.stedman@act.gov.au
Health Protection Service | Population Health | ACT Health Directorate
 25 Mulley Street HOLDER ACT 2611 | Locked Bag 5005 WESTON CREEK ACT 2611
health.act.gov.au

ACTH Email signature Values

Please note that I do not work Wednesdays

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From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Monday, 3 April 2023 9:45 AM
To: Stedman, Andrew (Health) <Andrew.Stedman@act.gov.au>
Subject: FW: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Good Morning Andrew

I haven't heard anything back from Lyndell I would be grateful for any advice on this application please

Kind Regards

Clare Brookes (she/her)
 Senior Director Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 **M** 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
 GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: Brookes, Clare
Sent: Wednesday, 29 March 2023 5:36 PM
To: Power, David <DAVID.POWER@act.gov.au>; Hudson, Lyndell (Health) <Lyndell.Hudson@act.gov.au>
Subject: FW: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Good Afternoon David/Lyndell

I am writing to request your assistance with a Development Application we have received for an early childhood education and care service in Mitchell

We have previously discussed our concerns about this proposal with your teams and the potential environmental/health risks which may be posed to children attending a service in this location, particularly as quality early childhood programs involve extensive periods of outdoor play Robin Brown and Andrew Stedman have both been involved in previous discussions

I would very much appreciate your advice on the response to these issues provided by [REDACTED] (attached) Our concerns relate not only to the risk posed by the current surrounding businesses, but for the potential for future industrial operations in this area

Please let me know if it would be helpful to meet to discuss our concerns I have good availability on Friday if that would be convenient

Kind Regards

Clare Brookes (she/her)
 Senior Director Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 **M** 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
 GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Friday, 24 March 2023 11:58 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: CECA <CECA@act.gov.au>; [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Hi Clare,

Further to your correspondence below and as discussed recently, the Notice of Decision for DA201733198-S197D has been corrected by EPSDD so as to enable the proponent to satisfy the condition of approval related to CECA approval. The proponent is now required to "provide an endorsement from Children's Education & Care Assurance (CECA) addressing CECA requirements", similarly to the recent project at Block 5 Section 120 Holt (DA202139485). Please find the Formal Correction Notice, dated 1 March 2023, attached.

To progress the attainment of CECA support, please find attached our formal request for endorsement.

Many thanks for your assistance.

Warm regards,

From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Thursday, 12 January 2023 4:57 PM
To: [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Dear [REDACTED],

Please find attached response to your enquiry.

Kind Regards,

Clare Brookes (she/her)
 A/g Executive Branch Manager - Education and Care Regulation and Support | Education | ACT Government
 P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning | 51 Fremantle Drive Stirling 2611 |
 GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Thursday, 10 November 2022 9:40 AM
To: CECA <CECA@act.gov.au>
Cc: Brookes, Clare <Clare.Brookes@act.gov.au>; [REDACTED]
Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

Caution: This email originated from outside of the ACT Government. Do not click links or open attachments unless you recognise the sender and know the content is safe. [Learn why this is important](#)

Good morning,

[REDACTED] have been engaged by the lessee of Block 18 Section 11 Mitchell to progress an amendment application – made under section 197 of the *Planning and Development Act 2007* – to an approved childcare centre development proposal (DA201733198).

In summary, the following amendments were proposed to address legislative changes made since the original approval:

- reduction number of childcare places;
- reduction of car parking spaces;
- reconfiguration of the ground floor internal layout;
- first floor layout reconfiguration;
- deletion of the second floor; and
- reduction of gross floor area.

The amended proposal (DA201733198-S197D) was approved on 8 August 2022, subject to conditions. One of these conditions requires the attainment of written support from CECA in relation to the development. To this end, please find attached our request for the endorsement of CECA in accordance with the *Education and Care Services National Law Act 2010* (ACT) and the *Education and Care Services National Regulations*.

Should you require any additional information or wish to discuss further, please do not hesitate to contact me

We appreciate your consideration

Kind regards,





Referral-Health - DEVELOPMENT APPLICATION – Additional documents submission- 201733198- Block 18 Section 11 MITCHELL

Dear Sir/Madam,

Thank you for the submission of additional documentation regarding the proposed construction of a 130 place childcare centre within an IZ2 industrial zone in Mitchell ACT.

The Health Protection Service (HPS) notes that **Condition A2 (a)** of the Notice of Decision (NOD) issued on 18 September 2018 by the Environment Planning and Sustainable Development Directorate in relation to the development states:

Approval does not take effect until the lessee/applicant has prepared and submitted an air quality report to the satisfaction of the ACT Health Protection Service. The report must be prepared by a consultant listed on the Clean Air Society of Australia and New Zealand (CASANZ) directory <http://www.casanz.org.au/directory/>

Such a report shall discuss and demonstrate that the development subsequent use of the site as a childcare centre in the locality will not create an unacceptable risk to the health and safety of children and vulnerable uses thereof.

The report must discuss the effects of potential expansion of permitted activities by surrounding businesses and of future land uses in the surrounding area on air quality. All previous investigations upon which the report is based must be discussed within the report and copies of these reports must be provided to ACT Health Protection Service. The Lessee/applicant must comply with any additional conditions imposed by the ACT Health Protection Service as a result of the findings of this report.

The HPS has reviewed the additional documents submitted and concluded that the documents provided have not met the requirements of the NOD in that they have not demonstrated that an unacceptable risk to the health and safety of and safety of children and vulnerable users thereof will not be created by the use of the use of the site as a childcare centre.

The HPS considers that the air quality sampling undertaken to date has not covered a sufficient period of time to determine seasonal variations and to determine if the results are minimum, average or maximum concentration that would be typically found at this site for a variety of analytes. This has resulted in the Human Health Risk assessment being limited in its insight into any potential health risks posed.

To address this, an air quality sampling program based on the National Environment Protection Measures (NEPMs) should be implemented by a CASANZS listed consultant to measure the following pollutants:

- Carbon Monoxide – 1 month of hourly averages outside of December and January (note this data must be contiguous and include QA data)
- Nitrogen Dioxide – 1 month of hourly averages outside of December and January (note this data must be contiguous and include QA data)
- Ozone – 1 month of hourly averages outside of December and January (note this data must be contiguous and include QA data)
- Particulate Matter less than 10 micron (PM₁₀) – 1 month of hourly averages outside of December and January (note this data must be contiguous and include QA data) or a rolling 1 in 6 day gravimetric sampling program over 1 year
- Particulate Matter less than 2.5 microns (PM_{2.5}) – 1 month of hourly averages outside of December and January (note this data must be contiguous and include QA data) or a rolling 1 in 6 day gravimetric over 1 year
- Air toxics/Volatile Organic Compounds - A rolling 1 in 6 day sampling program over 1 year. This program should cover the common air toxics associated with motor vehicles and the established business in the area.


The results from the above sampling should be incorporated into a revised Human Health Risk Assessment (HHRA).

In addition, whilst the submitted report provides an identification of surrounding block usage and a list of permitted activities within these blocks, it has not met the requirements of the NOD in that it has not adequately discussed the potential expansion of permitted activities which may be enacted on these blocks (without requiring an additional development application) and the impacts such amended land uses may have on air quality at the subject site. The discussion should consider scenarios where the most harmful permitted activities are enacted on surrounding blocks and how this will affect the suitability of the site. The assessment should be incorporated into the revised HHRA and this assessment should be provided to the HPS.

The HPS considers that the protection of vulnerable populations from pollutants from current and future neighbouring industrial uses is of paramount importance and the information requested above is required to demonstrate the use of the site as a child care centre will not create an unacceptable risk to the health and safety of children and vulnerable uses thereof.

Please contact Andrew Stedman, Public Health Officer on (02) 5124 9087 or email andrew.stedman@at.gov.au you require any further information.

Yours Sincerely



Conrad Barr
Executive Branch Manager
Health Protection Service

11 December 2018

From: [Brookes, Clare](#)
To: [Redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Monday, 3 April 2023 12:40:00 PM
Attachments: [image001.gif](#)
[image002.png](#)
[image005.png](#)
[image006.jpg](#)
[image007.gif](#)
[image008.png](#)
[image010.jpg](#)
[image009.jpg](#)
[image011.jpg](#)

OFFICIAL

Good Afternoon [Redacted]

Could you please provide the full [Redacted] Human Health Risk Assessment, as quoted in your letter as "Attachment 2"

Many thanks

Kind Regards

Clare Brookes (she/her)
Senior Director Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [Redacted]
Sent: Friday, 24 March 2023 11:58 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: CECA <CECA@act.gov.au>; [Redacted] >
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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To progress the attainment of CECA support, please find attached our formal request for endorsement.

Many thanks for your assistance.

Warm regards,



From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Thursday, 12 January 2023 4:57 PM
To: [Redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Dear [Redacted]

Please find attached response to your enquiry.

Kind Regards

Clare Brookes (she/her)
A/g Executive Branch Manager Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Thursday, 10 November 2022 9:40 AM
To: CECA <CECA@act.gov.au>
Cc: Brookes, Clare <Clare.Brookes@act.gov.au>; [REDACTED]
Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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- deletion of the second floor; and
- reduction of gross floor area

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Should you require any additional information or wish to discuss further, please do not hesitate to contact me

We appreciate your consideration

Kind regards,



This record is not released in accordance with section 42 of the
Freedom of Information Act 1982.

From: Stedman, Andrew (Health)
To: Brookes, Clare
Cc: Hudson, Lyndell (Health)
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Friday, 14 April 2023 5:17:23 PM
Attachments: image007.jpg, image010.gif, image012.png, image013.png, image014.jpg, image015.gif, image016.png, image018.jpg, image001.jpg, image002.jpg

OFFICIAL

Hi Clare,

Apologies for the delay, to ensure a comprehensive review of the documents and suitable advice is provided to CECA, we require a little more time to provide comments that originally thought

[Redacted] however you might be able to engage with Lyndell, CC d into this email regarding any further progress if needed

Kind regards

Andrew Stedman | Public Health Officer | Assistant Director Environmental Health
Ph 02 5124 9087 | Mobile 0434 607 429 | Email Andrew.stedman@act.gov.au
Health Protection Service | Population Health | ACT Health Directorate
25 Mulley Street HOLDER ACT 2611 | Locked Bag 5005 WESTON CREEK ACT 2611
health.act.gov.au



Please note that I do not work Wednesdays

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From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Wednesday, 5 April 2023 2:02 PM
To: Stedman, Andrew (Health) <Andrew.Stedman@act.gov.au>; Brown, Robin <Robin.Brown@act.gov.au>
Cc: Hudson, Lyndell (Health) <Lyndell.Hudson@act.gov.au>; Power, David <DAVID.POWER@act.gov.au>
Subject: FW: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Good Afternoon Andrew/Robin

Please find attached additional information regarding the proposed early childhood education and care service at Mitchell I would be grateful if you could include reference to this information in your advice

Kind Regards

Clare Brookes (she/her)
Senior Director Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833
Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [Redacted]
Sent: Wednesday, 5 April 2023 1:52 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: [Redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Hi Clare,

My sincere apologies for the confusion

Please find the [Redacted] Human Health Risk Assessment attached Also attached in an updated copy of our letter including this document

Could you please advise when we might expect your further advice?

Warm regards,





From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Monday, April 3, 2023 12:40 PM
To: [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Good Afternoon [REDACTED]

Could you please provide the full [REDACTED] Human Health Risk Assessment, as quoted in your letter as "Attachment 2"

Many thanks

Kind Regards

Clare Brookes (she/her)
 Senior Director Education and Care Regulation and Support | Education | ACT Government
 P 02 6205 0615 M 0481 003 893

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
 GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Friday, 24 March 2023 11:58 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: CECA <CECA@act.gov.au>; [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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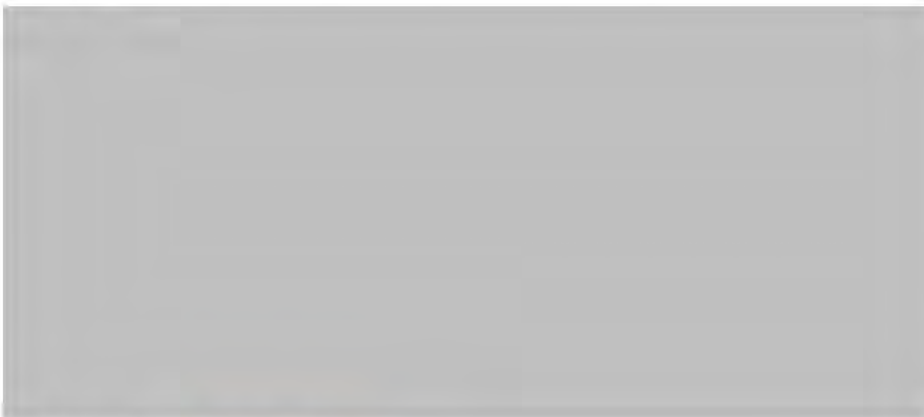
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To progress the attainment of CECA support, please find attached our formal request for endorsement.

Many thanks for your assistance.

Warm regards,



From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Thursday, 12 January 2023 4:57 PM
To: [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Dear [REDACTED]

Please find attached response to your enquiry

Kind Regards

Clare Brookes (she/her)
A/g Executive Branch Manager Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Thursday, 10 November 2022 9:40 AM
To: CECA <CECA@act.gov.au>
Cc: Brookes, Clare <Clare.Brookes@act.gov.au> [REDACTED]
Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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- deletion of the second floor; and
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We appreciate your consideration

Kind regards,



From: [Brookes, Clare](#)
To: [Mudford, William](#); [Wild-River, Su](#)
Subject: FW: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Monday, 1 May 2023 1:28:00 PM
Attachments: [image005.gif](#)
[image006.png](#)
[image008.png](#)
[image009.jpg](#)
[image010.gif](#)
[image011.png](#)
[image013.jpg](#)
[MITC011018 Letter to CECA - March 2023.pdf](#)
[image001.jpg](#)
[image002.jpg](#)

OFFICIAL

Dear Su and William

Please find attached request for advice on the Mitchell Early Childhood Education and Care Service. I will send out an invitation to discuss this application later this week.

Many thanks for your assistance.

Kind Regards

Clare Brookes
 Senior Director, Education and Care, Regulation and Support | Education | ACT Government
 P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive, Stirling 2611 |
 GPO Box 158 Canberra ACT 2601
www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au

From: Brookes, Clare
Sent: Wednesday, 29 March 2023 5:36 PM
To: Power, David <DAVID.POWER@act.gov.au>; Hudson, Lyndell (Health) <Lyndell.Hudson@act.gov.au>
Subject: FW: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Good Afternoon David/Lyndell

I am writing to request your assistance with a Development Application we have received for an early childhood education and care service in Mitchell.

We have previously discussed our concerns about this proposal with your teams and the potential environmental/health risks which may be posed to children attending a service in this location, particularly as quality early childhood programs involve extensive periods of outdoor play. Robin Brown and Andrew Stedman have both been involved in previous discussions.

I would very much appreciate your advice on the response to these issues provided by [REDACTED] (attached). Our concerns relate not only to the risk posed by the current surrounding businesses, but for the potential for future industrial operations in this area.

Please let me know if it would be helpful to meet to discuss our concerns. I have good availability on Friday if that would be convenient.

Kind Regards

Clare Brookes (she/her)
 Senior Director, Education and Care, Regulation and Support | Education | ACT Government
 P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive, Stirling 2611 |
 GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Friday, 24 March 2023 11:58 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: CECA <CECA@act.gov.au>; [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Warm regards,



From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Thursday, 12 January 2023 4 57 PM
To: [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Dear [REDACTED]

Please find attached response to your enquiry

Kind Regards

Clare Brookes (she/her)
A/g Executive Branch Manager Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Thursday, 10 November 2022 9:40 AM
To: CECA <CECA@act.gov.au>
Cc: Brookes, Clare <Clare.Brookes@act.gov.au>; [REDACTED]
Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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We appreciate your consideration

Kind regards,

From: [Brookes, Clare](#)
To: [Mudford, William](#)
Cc: [Wild-River, Su](#); [Power, David](#); [Brown, Rob.n](#)
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Wednesday, 10 May 2023 3:46:00 PM
Attachments: [image003.png](#)
[image004.gif](#)
[image005.png](#)
[image006.png](#)
[image007.jpg](#)
[image008.gif](#)
[image009.png](#)
[image011.jpg](#)
[image010.jpg](#)
[image012.jpg](#)

OFFICIAL

Good Afternoon Will

We are still waiting for EPA S response I know that everyone has been very busy working on the response to the proposed amendments to the new Territory Plan

Kind Regards

Clare Brookes (she/her)
Senior Director Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

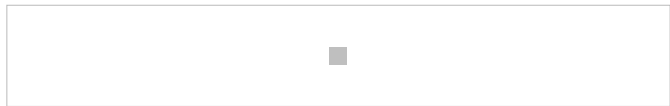
Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: Mudford, William <William.Mudford@act.gov.au>
Sent: Wednesday, 10 May 2023 2:26 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: Wild-River, Su <Su.Wild-River@act.gov.au>; Power, David <DAVID.POWER@act.gov.au>; Brown, Robin <Robin.Brown@act.gov.au>
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Hi Clare,
Where did this get to? We are happy to provide technical support on this matter and stand ready to meet with you
Kind regards
Will

William Mudford
Director | Strategic Environment Protection Framework
Office of the Environment Protection Authority
Access Canberra | Chief Minister, Treasury and Economic Development Directorate | ACT Government
Phone 02 6205 0863 | Email william.mudford@act.gov.au
480 Northbourne Avenue Dickson | GPO Box 158 Canberra City ACT 2601 | www.act.gov.au/accessCBB



From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Monday, 1 May 2023 1:29 PM
To: Mudford, William <William.Mudford@act.gov.au>; Wild-River, Su <Su.Wild-River@act.gov.au>
Subject: FW: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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GPO Box 158 Canberra ACT 2601
www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#) | www.det.act.gov.au

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Sent: Wednesday, 29 March 2023 5:36 PM
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in this location, particularly as quality early childhood programs involve extensive periods of outdoor play Robin Brown and Andrew Stedman have both been involved in previous discussions

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P 02 6205 0615 M 0481 003 833

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GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Friday, 24 March 2023 11:58 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: CECA <CECA@act.gov.au>; [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Thursday, 12 January 2023 4 57 PM
To: [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Dear [REDACTED]

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Cc: Brookes, Clare <Clare.Brookes@act.gov.au>; [REDACTED]
Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Good morning,

█ have been engaged by the lessee of Block 18 Section 11 Mitchell to progress an amendment application – made under section 197 of the *Planning and Development Act 2007* – to an approved childcare centre development proposal (DA201733198)

In summary, the following amendments were proposed to address legislative changes made since the original approval:


- reduction number of childcare places;
- reduction of car parking spaces;
- reconfiguration of the ground floor internal layout;
- first floor layout reconfiguration;
- deletion of the second floor; and
- reduction of gross floor area

The amended proposal (DA201733198-S197D) was approved on 8 August 2022, subject to conditions. One of these conditions require the attainment of written support from CECA in relation to the development. To this end, please find attached our request for the endorsement of CECA in accordance with the *Education and Care Services National Law Act 2010* (ACT) and the *Education and Care Services National Regulations*

Should you require any additional information or wish to discuss further, please do not hesitate to contact me

We appreciate your consideration

Kind regards,



From: [Brookes, Clare](#)
To: [Stedman, Andrew \(Health\)](#)
Cc: [Hudson, Lyndell \(Health\)](#)
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Tuesday, 23 May 2023 1:22:00 PM
Attachments: [image003.jpg](#)
[image004.gif](#)
[image005.png](#)
[image006.png](#)
[image007.jpg](#)
[image008.gif](#)
[image009.png](#)
[image011.jpg](#)
[image010.jpg](#)
[image012.jpg](#)

OFFICIAL

Hi Andrew

I'm just following up on this request as we are being chased by the developer

Kind Regards

Clare Brookes (she/her)
 Senior Director Education and Care Regulation and Support | Education | ACT Government
 P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
 GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: Stedman, Andrew (Health) <Andrew.Stedman@act.gov.au>
Sent: Friday, 5 May 2023 9:31 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

Hi Clare,

Our team have met to discuss the response to CECA. We feel a formal response by our deputy CHO is required.

We are in the process of drafting this advice. Please give me a call if you would like to discuss.

Kind regards

Andrew Stedman | Public Health Officer | Assistant Director Environmental Health
 Ph 02 5124 9087 | Mobile 0434 607 429 | Email Andrew.stedman@act.gov.au
 Health Protection Service | Population Health | ACT Health Directorate
 25 Mulley Street HOLDER ACT 2611 | Locked Bag 5005 WESTON CREEK ACT 2611
health.act.gov.au

ACTH Email signature Values

Please note that I do not work Wednesdays

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From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Wednesday, 5 April 2023 2:02 PM
To: Stedman, Andrew (Health) <Andrew.Stedman@act.gov.au>; Brown, Robin <Robin.Brown@act.gov.au>
Cc: Hudson, Lyndell (Health) <Lyndell.Hudson@act.gov.au>; Power, David <DAVID.POWER@act.gov.au>
Subject: FW: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Good Afternoon Andrew/Robin

Please find attached additional information regarding the proposed early childhood education and care service at Mitchell. I would be grateful if you could include reference to this information in your advice.

Kind Regards

Clare Brookes (she/her)
 Senior Director Education and Care Regulation and Support | Education | ACT Government
 P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
 GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Wednesday, 5 April 2023 1:52 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Hi Clare,

My sincere apologies for the confusion

Please find the [redacted] Human Health Risk Assessment attached. Also attached in an updated copy of our letter including this document.

Could you please advise when we might expect your further advice?

Warm regards,



From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Monday, April 3, 2023 12:40 PM
To: [redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Good Afternoon [redacted]

Could you please provide the full enRisks Human Health Risk Assessment, as quoted in your letter as "Attachment 2"?

Many thanks

Kind Regards

Clare Brookes (she/her)
Senior Director, Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [redacted]
Sent: Friday, 24 March 2023 11:58 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: CECA <CECA@act.gov.au>; [redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Hi Clare,

Further to your correspondence below and as discussed recently, the Notice of Decision for DA201733198-S197D has been corrected by EPSDD so as to enable the proponent to satisfy the condition of approval related to CECA approval. The proponent is now required to "provide an endorsement from Children's Education & Care Assurance (CECA) addressing CECA requirements", similarly to the recent project at Block 5 Section 120 Holt (DA202139485). Please find the Formal Correction Notice, dated 1 March 2023, attached.

To progress the attainment of CECA support, please find attached our formal request for endorsement.

Many thanks for your assistance.

Warm regards,



From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Thursday, 12 January 2023 4:57 PM
To: [REDACTED]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Dear [REDACTED]

Please find attached response to your enquiry

Kind Regards

Clare Brookes (she/her)
A/g Executive Branch Manager Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Thursday, 10 November 2022 9:40 AM
To: CECA <CECA@act.gov.au>
Cc: Brookes, Clare <Clare.Brookes@act.gov.au>; [REDACTED]
Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Good morning,

[REDACTED] have been engaged by the lessee of Block 18 Section 11 Mitchell to progress an amendment application – made under section 197 of the *Planning and Development Act 2007* – to an approved childcare centre development proposal (DA201733198)

In summary, the following amendments were proposed to address legislative changes made since the original approval:

- reduction number of childcare places;
- reduction of car parking spaces;
- reconfiguration of the ground floor internal layout;
- first floor layout reconfiguration;
- deletion of the second floor; and
- reduction of gross floor area

The amended proposal (DA201733198-S197D) was approved on 8 August 2022, subject to conditions. One of these conditions requires the attainment of written support from CECA in relation to the development. To this end, please find attached our request for the endorsement of CECA in accordance with the *Education and Care Services National Law Act 2010* (ACT) and the *Education and Care Services National Regulations*

Should you require any additional information or wish to discuss further, please do not hesitate to contact me

We appreciate your consideration

Kind regards,



From: [Brookes, Clare](#)
To: [Partridge, Leah](#)
Subject: Handover Notes
Date: Friday, 2 June 2023 9:23:00 AM

OFFICIAL

Good Morning Leah

[Redacted]

Mitchell DA

Tanya has reviewed the plans, I'll look at her notes today and convert these into a written response. We are waiting for written advice from Health Protection and EPA. I will ask them to send their responses to you [Redacted] [Redacted] are pushing on this, but there's no legislated timescale for response and our decision is not appealable. Potentially they could use the Administrative Decisions Judicial Review Act and take this to the High Court, but there most likely first response will be to write to the Minister. The design of the service is poor, but the main concern is the environmental risks posed by air and soil pollution, caused by the existing and potential industrial operations.

EPA Contacts

Su Wilde-River
William Mumford
David Power
Robin Brown

Health Protection

Lyndell Hudson
Andrew Steadman

[Redacted]

Let's book in some time later today [REDACTED]

Kind Regards

Clare Brookes (she/her)

Senior Director, Education and Care Regulation and Support | Education | ACT Government

P 02 6205 0615 **M** 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |

GPO Box 158 Canberra ACT 2601

www.det.act.gov.au

From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Friday, 2 June 2023 10:19 AM
To: Masterman, Tanya <Tanya.Masterman@act.gov.au>; Partridge, Leah <Leah.Partridge@act.gov.au>
Subject: RE: Mitchell DA

OFFICIAL: Sensitive

Ah, that makes sense now, thank you Tanya.

So can you now convert that into a full prose response please. We won't send it until we receive the advice from EPA and HP. But it's great to have it ready to go.

Kind Regards

Clare Brookes (she/her)
Senior Director, Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: Masterman, Tanya <Tanya.Masterman@act.gov.au>
Sent: Friday, 2 June 2023 9:47 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>; Partridge, Leah <Leah.Partridge@act.gov.au>
Subject: RE: Mitchell DA

OFFICIAL: Sensitive

Hi Clare

I think I've already done it. If you go to the last 4 pages of my assessment document, you will see I've addressed each point raised by CECA in the email of 11 April 2022.

For each point, it states what CECA's concern was in **bold**, the developer's response is in *italics*, and my remaining concerns are underlined.

Eg on page 10 of my assessment document it says:

CECA would have concerns about educators' ability to safely evacuate the proposed number of infants from the first floor in the event of an emergency.

- *Reduction in height from 3 to 2 storeys. Preparation of suitable emergency procedures is required as part of service approval process*
 - Although emergency procedures are part of SA process, cannot give any kind of endorsement when emergency evacuations appear unworkable from plans.
 - From 1 October, RAs required to consider direct egress to safe assembly area for very young and non-ambulatory children, in service approval process.
 - Aside from numbers of children, some educators being downstairs, need for one educator per infant to evacuate down stairs, does not appear to be any assembly area, both sets of stairs lead to a footpath beside a road in an industrial area.

Let me know if that's not what you mean.






Kind regards

Tanya Masterman (she/her) | A/g Assistant Director | Policy and Projects
Phone 02 6205 2012 | Email tanya.masterman@act.gov.au
Education and Care Regulation and Support | Education | ACT Government

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive, Stirling 2611
GPO Box 158 Canberra ACT 2601

www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#)

Hybrid work locations this week for me are:

Mon	Tues	Wed	Thur	Fri
				



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From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Friday, 2 June 2023 9:36 AM
To: Masterman, Tanya <Tanya.Masterman@act.gov.au>; Partridge, Leah <Leah.Partridge@act.gov.au>
Subject: RE: Mitchell DA

OFFICIAL: Sensitive

Thank you Tanya

You've picked up everything I can think of, but would appreciate it if you could check this against the previous response and plans attached.

Kind Regards

Clare Brookes (she/her)
Senior Director, Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: Masterman, Tanya <Tanya.Masterman@act.gov.au>
Sent: Friday, 5 May 2023 3:01 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>; Partridge, Leah <Leah.Partridge@act.gov.au>
Subject: Mitchell DA

OFFICIAL: Sensitive

Hi






Not sure if this was purely a PDP exercise, or if I'm meant to send it to anyone, but I finally finished having a look at this yesterday after doing it in snippets of available time over a few days.

Any feedback on things I've missed or gotten wrong would be most welcome!

Kind regards

Tanya Masterman (she/her) | A/g Assistant Director | Policy and Projects
Phone 02 6205 2012 | Email tanya.masterman@act.gov.au
[Education and Care Regulation and Support](#) | Education | ACT Government
Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive, Stirling 2611
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www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#)

Hybrid work locations this week for me are:

Mon	Tues	Wed	Thur	Fri
				



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DA Mitchell – Plan Review 20/9/22							
Consideration		Law	Regs	Guide -no, (page)	Y	N	Comments
1	Is the service located in a multistorey building?	47(1)(b),(f)	97 108 113	2.2(38) 2.10(378)	X		Approval in principle process will apply from mid 2023
	1a Will any children be located above ground floor?	47(1)(b),(f)	97 108 113	2.2(38) 2.10(378)	X		A condition may be imposed preventing or limiting the care of children under two years
	1b Is the building multi-occupancy?	47(1)(b),(f)	97	2.2(38) 2.10(378)		X	Australian Standard Planning for Emergencies in facilities applies
2	Is the service located in an industrial zone?	47(1)(b),(f)		2.2(38)	X		Refer to the Environmental Protection Agency
3.	Is the service located close to a high risk enterprise (ie petrol station)	47(1)(b),(f)		2.2(38)	X		Refer to the Environmental Protection Agency
4.	Does the service have multistorey buildings in the immediate vicinity?	47(1)(b),(f)		2.2(38)	?		Check solar access plans for outdoor and indoor light penetration – UNABLE TO LOCATE – LP ADVISES THEY HAVE NOT BEEN REQUESTED
5.	Is the service on a steep gradient?	47(1)(b),(f)		2.2(38)		N	Detailed 3D landscape plans required
6.	Does the area designated as unencumbered indoor space account for more than 50% of the total indoor floor space?	47(1)(b),(f)	107 111	2.2(38)		N	First floor 400sqm unencumbered. Ground Floor built area 256, first floor built area 747 = 1003. Unencumbered indoor space is < 50% built area.
Auxiliary Space							

DA Mitchell – Plan Review 20/9/22							
Consideration		Law	Regs	Guide -no, (page)	Y	N	Comments
1.	Reception area provides space for accessibility, booking in, display of required information, policies and procedures, pram storage.	47(1)(b),(f) 172	111 173	3.1(182)	Y		
2.	Manager's Office, provides private space for meeting with staff and families (unless a separate meeting room is provided).	47(1)(b),(f)	111	3.1(182)	?		Office is 12 m2.
3.	If the Manager's room does not provide sufficient space, is there a separate private meeting room, for staff and families?	47(1)(b),(f)	111	3.1(182)		N	
4.	Is there a secure space for storage of children's records.	47(1)(b),(f) 175	111 177 183	3.1(182)	Y		Office or Staff office (17m2).
5.	Does the staff rest area have facilities to store, prepare and eat meals.	47(1)(b),(f)	111	3.1(182)	?		Staff room 27m2 – next to toilet and kitchen.
6.	Does the staff rest area have sufficient space and furniture to seat staff comfortably. Staff numbers estimated at 1:4 children. Facilities should comfortably accommodate one third of staff at any time (children divided by 12).	47(1)(b),(f)	111	3.1(182)		N	Staff room is 27m2 – Estimating 28 staff, this is under 1m2 per person, for any meetings etc. Should comfortably accommodate 10 staff members, this is under 3m2 per staff member (how much space is needed to 'comfortably accommodate?')
7.	Quiet programming area to accommodate 2-4 staff depending on service size. (estimate 1 plus 1 for each 40 children or part thereof)	47(1)(b),(f) 168	111	3.1(182)		?	4 staff – 17m2. Room may require record storage as well.
8.	Minimum 1 toilet to 15 staff/visitors with provision for all-gender and accessible toilet(s).	47(1)(b),(f)	111	3.1(182)	Y		2 toilets including accessible toilet.

DA Mitchell – Plan Review 20/9/22						
Consideration	Law	Regs	Guide -no, (page)	Y	N	Comments
	Toilets should be located on the same floor as educators.					
9.	Kitchen and kitchen storage proportionate to the size of the service. Lifts provided where children are eating on other levels in the building.	47(1)(b),(f)	77	3.1(182)		? 26m2. Lift provided across waiting area, exiting end of first floor corridor leading to rooms. Unsure how big kitchen should be
10.	Laundry and or linen storage, proportionate to the size of the service. (industrial washing machines and dryers required) (capacity?)	47(1)(b),(f)	106	3.1(182) 3.13(398)		? 13m2 laundry
11.	The flow through the service is natural with easy access to and from rooms. Corridors are clear and uncluttered providing easy accessibility.	47(1)(b),(f)				N Access to rooms is via carpark, waiting area, lift, corridor.
Children's Rooms						
12.	Maximum Room size: Nursery 12 Toddlers 15 Preschool 22	47(1)(b)(f) 165 167		3.1(182) 3.2(192)		
13.	Ratios: Nursery 1:4 Toddler 1:5 Preschool 1:11	169	123			

DA Mitchell – Plan Review 20/9/22							
Consideration		Law	Regs	Guide -no, (page)	Y	N	Comments
14.	Each room should provide 3.25 meters squared space for each child.	47(1)(b),(f)	107	3.1(182) 3.2(192) 3.7 (395)		?	Groups 4, 7, 6 have what appears to be stretcher beds included in unencumbered space and insufficient storage for beds.
15.	Rooms should be regular shapes so that all areas provide useable space and unobstructed line of sight for educator supervision.	47(1)(b),(f) 165	115	3.1(182)		?	Group 4 is L shaped, but appears light would penetrate alcove from west.
16.	Thoroughfares, door swings and storage cannot be included in calculations.	47(1)(b),(f)	107	3.1(182)		?	Unclear if door swings are included in calculations but appears they may be.
17.	All rooms should have adequate natural light. If windows only feature on one side, skylights may be required.	47(1)(b),(f)	110	3.1(182)		?	Question 45m2 toddler room, 44m2 toddler windows largely covered in what appears to be yellow mesh. No solar penetration plan. South side is a concrete-encased corridor.
18.	All rooms must have direct access to toilets, storage and outdoor space.	47(1)(b),(f)	108, 109, 113	3.1(182) 3.11(397)		N	44m2 room has no storage 45m2 and 46m2 rooms share 6m2 prep and storage room. 24 children require 4.8m2 storage. May be inadequate space for prep, although appears to be small bench/kitchenette between storage and bathroom, which may need to be used for craft clean-ups etc. May be able to use cot room as storage, with restriction on numbers of children under 2. .
19.	Toilets must be accessible from the outdoor space	47(1)(b),(f)	109	3.11(397)		N	No direct external access to Group 4&5 toilets. Direct access to other toilets
20.	Design and location of toilets and nappy change areas must enable supervision of indoor and outdoor space.	47(1)(b),(f)	109, 112, 115	3.1(182) 3.2(192) (393)			Unclear if windows on upper half of internal walls.

DA Mitchell – Plan Review 20/9/22						
Consideration	Law	Regs	Guide -no, (page)	Y	N	Comments
			3.11(397), 3.12(397)			
21	Toilets should be designed to consider children's privacy	47(1)(b),(f)	109	3.1(182) 3.2(192) (393) 3.11(397),		Appears to be window on external wall next to a toilet in Group 4/5 and Group 6/7 bathrooms.
22.	Storage of 0.2m square per child, including lockers and some bigger areas for large items and sleep mats. Additional storage also required for cleaning and maintenance materials.	47(1)(b),(f)	109	3.1(182)		No storage in 44m2 toddler room. Prep/store room in Group 3//toddlers may be inadequate.
23.	Toilets minimum of one per fifteen children over two. Change mats one to eight infants, one toilet in nursery, one change mat in preschool. Mix in toddler room.	47(1)(b),(f) 165 167	109, 112,	3.1(182) 3.11(397)		Preschool – minimum toilets 3:44, one change mat Group 6/7 – 3:30, one change mat Group 3/45m2 toddlers/44m2 toddlers (probably infant rooms) – 4:36 toilets, 2 change mats – needs fewer toilets and more change mats.
24.	Access to adult hand cleansing facilities in immediate vicinity of nappy change area.	47(1)(b),(f)	112	3.12(397)	y	Noting insufficient change mats in infant rooms.
25.	Maximum six cots per cot room. Cots must be 300mm apart.	47(1)(b),(f)	81	3.1(182)	Y	But noting that door swings back against a cot in all rooms, so may need reduction to 5.
26.	Cot room doors must have large viewing windows. Doors should not swing back against cots. Cot rooms must have ambient light.	47(1)(b)(f) 165 167	81	3.1(182)		X Doors swing back against cots in all five cot rooms Cot rooms unlikely to have any ambient light, with exception of northernmost cot room.

DA Mitchell – Plan Review 20/9/22							
Consideration		Law	Regs	Guide -no, (page)	Y	N	Comments
27.	Cot rooms must have immediate access from the nursery room.	47(1)(b),(f) 165 167	81	3.1(182)	Y		
28.	Thoroughfares between rooms should facilitate unobstructed access and emergency egress.	47(1)(b),(f) 167		3.1(182)	Y		Dedicated corridor along south side of all rooms. Other access via shared bathrooms or storage. Emergency egress via north stairs accessed from outdoor area and east stairs accessed via corridor.
29.	Rooms should be able to be segregated (closed off) to aid supervision and programming.	47(1)(b),(f) 165 168		3.1(182)	Y		
Outdoor Space							
30.	Adequate fencing/barrier, or height and design that children preschool age or under cannot go through, over or under it (unless centre-based service primarily for over preschool age children)	47(1)(b),(f)	104	3.1(182) 3.4 (391)	Y		
31.	Minimum 7 square metres unencumbered outdoor space per child.	47(1)(b),(f)	108	3.1(182) 3.2 (390)		?	Outdoor play area 819m2. Unclear how much is covered by inaccessible plantings, but there are multiple planting beds which may reduce unencumbered area to under 770m2
32.	Outdoor space excludes pathway/thoroughfare unless used by children in education and care	47(1)(b),(f)	108	3.1(182) 3.2 (390)		?	One outdoor shed for preschool outdoor space, no storage for infant/toddler outdoor space.

DA Mitchell – Plan Review 20/9/22							
Consideration		Law	Regs	Guide -no, (page)	Y	N	Comments
	program, car parking area, storage shed/other area, any space not suitable for children						
33.	Outdoor space allows children to explore and experience natural environment	47(1)(b),(f)	113	3.1(182) 3.2(192) 3.5 (392)		?	Outdoor space not on ground floor, few natural elements, excess of paved areas at expense of natural elements.
34.	Adequate shaded areas in outdoor space	47(1)(b),(f) 167	114	3.1(182) 3.6 (393)		?	Unclear from plans other than sails over sandpit area, some shade trees
35.	Outdoor space must be designed to facilitate supervision	47(1)(b)(f) 165	115	3.1(182) 3.2(192) (393)	Y		Does not appear to be any unusually secluded spaces.
36.	Outdoor space should be equipped to cater for all ages and ability levels, and support exploration, creativity and learning	47(1)(b)(f)		3.1(182) 3.2(192)		N	Few natural elements, limited options for imaginative play with equipment/facilities, variation of environment.
37.	Areas of natural native planting that attract local wildlife	47(1)(b),(f)	113	3.1(182) 3.2(192) 3.5 (392)		N	Limited plantings.
38.	Plants are not toxic	47(1)(b),(f) 167		3.1(182) 3.2(192) 3.5 (392)		?	No details
39.	Sandpits large enough for the number of children attending	47(1)(b),(f)	113	3.1(182) 3.2(192) 3.5 (392)		?	Two sandpits in preschool outdoor space – 44 children, one for toddler/infant.
40.	Trees and or logs included	47(1)(b),(f)	113	3.1(182) 3.2(192) 3.5 (392)		?	Trees included, no details on logs.
41.	Areas of natural grass	47(1)(b),(f)	113	3.1(182)		?	Verge grassing only, play areas are artificial turf.

DA Mitchell – Plan Review 20/9/22							
Consideration	Law	Regs	Guide -no, (page)	Y	N	Comments	
			3.2(192) 3.5 (392)				
42.	Areas of dirt that can be dug	47(1)(b),(f)	113	3.1(182) 3.2(192) 3.5 (392)		?	Three sandpits, raised planting beds that could possibly be available for digging in dirt.
43.	Age appropriate structures that encourage children to balance and climb, building strength and motor skills.	47(1)(b)(f)		3.1(182) 3.2(192)		?	No details.
44.	Plans must include solar analysis demonstrating adequate solar access. Each area must receive a minimum of 60% solar coverage for 3.5 hours winter solstice and 2 hours summer solstice	47(1)(b),(f)	113	3.1(182) 3.2(192) 3.5 (392)		?	Not provided. Note new outdoor space definition requires 3.5 hours direct sunlight onto minimum of 60% of unencumbered space between 9am and 3pm all year round. Outdoor space is open to sky and runs east/west, noting toddler/infant space is long and narrow with rooms on south side.
45.	All included areas can be accessed and explored by children, steep and densely planted areas are not accessible.	47(1)(b),(f)	108	3.1(182) 3.2(192) 3.5 (392)		?	Area includes plantings that are perhaps not accessible, no steep areas as on first floor.
46.	Where there is a gradient, slopes are not steep, they can be safely navigated by the age group and there are sufficient level areas to run and ride.	47(1)(b)(f)		3.1(182) 3.2(192)	Y		No gradient.
47.	There is sufficient storage for resources and maintenance items (0.2m per child)	47(1)(b),(f)	108	3.1(182)		N	No storage in infant/toddler outdoor space, 20m2 in preschool outdoor space
48	There are facilities for outdoor drying of laundry	47(1)(b),(f)	106	3.1(182) 3.13(398)		N	Not indicated on outdoor plan.

Rooms right to left on First Floor Plan

Infants 1 – 12 places – 3 educators

Infants 2 - 12 places – 3 educators

Group 3 Infants/toddlers- 12 places – 3 educators

Group 6 Toddlers 15 places – 3 educators

Group 7 Toddlers 15 places – 3 educators

Group 5 Preschool 22 places – 2 educators

Group 4 Preschool 22 places – 2 educators

NS, Ed Leader, floats, admin, cook.

Using 110/4 as per checklist = 28 staff.

- **CECA initial concern**
 - *Developer Response*
 - CECA remaining concern
- **CECA would have concerns regarding the lack of natural light, particularly in relation to the kitchen, waiting area, office and stairwell.**
 - *Fenestration is present in kitchen and waiting area (into undercover carpark). Added additional windows in office and stairwell.*
 - Does not appear to be any windows in office at all. Window added in stairwell, which does not provide light to areas other than stairwell which is mostly enclosed and do not allow light to penetrate in other areas
 - Only natural light to kitchen and waiting room is via undercover carpark.
- **Full dimensions for each room would be required. Sleeping areas (quiet space), storage and door swings could not be included in the calculations for unencumbered space. The requirement is 3.25 meters square unencumbered indoor space per child.**
 - Dimensions identified. Further information to be incorporated at detailed design stage. 3.25m² unencumbered indoor space to be allowed for each child
 - Group 3 12 places 46m² – including storage, requires 41.4m². Room includes 2 door swings and what appears to be a kitchenette, probably sufficient space

- Group 6 15 places 55m² – including storage, requires 51.75m². Room includes 2 door swings and what appears to be quiet area with stretcher beds set out, may be insufficient.
 - Group 7 – 15 places 55m² – including storage, requires 51.75m². Room includes 2 door swings and an alcove with stretcher beds set out, that creates a thoroughfare at the entrance that cannot be included in unencumbered space, likely insufficient space.
 - Group 5 – 22 places 76m² – including storage, requires 75.9m². Room includes 2 door swings and is insufficient space for that number of children
 - Group 4 – 22 places 79m² – including storage, required 75.9m². Room includes 2 door swings and alcove for stretcher beds, likely insufficient space.
- **Full dimension for cot rooms would be required to establish if the required number of cots can be accommodated. An initial review indicates that the cot rooms would only accommodate five cots each, given the size of cots (min 1100mm x 495mm) and needs for 30 cm gaps between each cot for access and hygiene.**
 - *Area of each cot room has been slightly increased to ensure the necessary spacing can be achieved. Additional information to be incorporated at detailed design stage*
 - Doors swing inwards on cots in every room. Cannot be included in cot room area.
 - Length for 3 cots needs to be 3.9m. Length is 4m. Width of room approx. 2.75 = 1.85m walkway
 - **CECA would require a cot to be allocated for each infant. Sharing of cots is not supported by CECA as it does not meet the sleeping needs of children and increases the risk of the spread of infectious diseases, particularly given the current COVID-19 pandemic. The number of nursery places would be limited to the number of cots.**
 - *Noted*
 - Plan still has 36 places across those three eastern rooms. Group 3 has 6 cots, will then require space to store and place 6 stretcher beds for children developmentally really to transition
 - **CECA would have concerns about educators' ability to safely evacuate of the proposed number of infants from the first floor in the event of an emergency.**
 - *Reduction in height from 3 to 2 storeys. Preparation of suitable emergency procedures is required as part of service approval process*
 - Although emergency procedures are part of SA process, cannot give any kind of endorsement when emergency evacuations appear unworkable from plans.
 - From 1 October, RAs required to consider direct egress to safe assembly area for very young and non-ambulatory children, in service approval process.
 - Aside from numbers of children, some educators being downstairs, need for one educator per infant to evacuate down stairs, does not appear to be any assembly area , both sets of stairs lead to a footpath beside a road in an industrial area.

- **It would be recommended that children toilet 1 and the cot room closet to the outdoor play area were switched in order to ensure appropriate supervision and support is provided to educators when nappy changing. Being within sight and sound of the main cohort of children means that the educators can communicate and support each other during busy times.**
 - *Level 1 configuration updated to ensure adequate supervision and support for occupied educators.*
- **Concerns about lack of natural light in 45m2 Toddler Room and the quiet area in Group 4 Room. Skylights would increase the natural light.**
 - *Internal layout revisions have been made to deliver wider room. In conjunction with increased fenestration, submitted to support adequate access to natural light*
 - Double door (glass?) and one window, all along northern wall, room appears quite deep with no natural light access on southern side – 4.5m wide, 10m long.
 - South elevation concrete wall along boundary to roof – no solar access.
- **It would be recommended swapping rooms 4 and 5 with 6 and 7 so that younger children are grouped together and age appropriate outdoor space is immediately accessible to each group.**
 - *First floor configuration updated*
- **Outdoor area – it would be recommended to reduce the amount of pathing and replace with natural elements and surfaces. It would be recommended to divide the outdoor space and introduce age appropriate features in each area. Shading would also be required in each area.**
 - *Proponent will engage with potential operators.*
- **CECA has particular concerns about the proximity of existing building to the proposed service, and particularly the outdoor area. Further details of these premises and their operations would be required in order to assess any environmental considerations.**
 - *In AT63/2016 ACAT determined that, for the purpose of section 120 of PD Act, site is suitable for development proposal.*
 - *Refer to Human Health Risk Assessment prepared by EnRisks*
 - Considerations under National Law and Regulations do not always mirror planning considerations. ACAT determination is not conclusive that site and location are appropriate under National Law and Regulations.
 - EPA and HPS to manage environmental issues
- **CECA is aware of concerns from both the Environment Protection Authority and Health Protection Service, regarding potential risks of harm to children from soil and air contamination at this site, relating to industrial activities in the surrounding area. As a result CECA has serious concerns about Block 18, Section 11 Mitchell's suitability as a site and location for the development of an education and care service.**
 - *In AT63/2016 ACAT determined that, for the purpose of section 120 of PD Act, site is suitable for development proposal.*

- *Refer to Human Health Risk Assessment prepared by EnRisks*
 - Considerations under National Law and Regulations do not always mirror planning considerations. ACAT determination is not conclusive that site and location are appropriate under National Law and Regulations.
 - EPA and HPS to manage environmental issues
- **CECA also holds concern regarding the risk associated with the two storey nature of this building, particular when non-ambulant children are cared for above the ground floor. Education and care services situated above ground floor pose an inherent risk to children's health and safety during emergency evacuations. This is further increased by having all auxiliary staff and educators not working directly with children located in either the office, kitchen or staff room on the lower floor. It is unrealistic for these staff to be available to assist non-ambulant children to negotiate stairs and evacuate safely, when they are moving against the flow of children and educators evacuating during an emergency.**
 - *Amended development proposal reduced from three to two storeys*
 - *Preparation of suitable emergency procedures is required as part of service approval process*
 - Although emergency procedures are part of SA process, cannot give any kind of endorsement when emergency evacuations appear unworkable from plans.
 - From 1 October, RAs required to consider direct egress to safe assembly area for very young and non-ambulatory children, in service approval process.
 - Aside from numbers of children, some educators being downstairs, need for one educator per infant to evacuate down stairs, does not appear to be any assembly area , both sets of stairs lead to a footpath beside a road in an industrial area.
- **It is noted that the plans have three rooms with the inclusion of cot rooms. Given that cots are provided for children under 2 years of age it is likely that the provider would attempt to have as many under two children as cots available, which as per the building plan is 30 cots. There are a further six children allocated to Group 3 as per the identified space. Given that there is a 1:4 ratio for these age groups it is greatly concerning how 9 educators could safely evacuate 36 under 2 year-old children from a first floor building. A provider would need to increase the number of educators per group and reduce the number of children under 2 years old to reduce the level of risk.**
 - *Likely that on a portion of the cots proposed will be utilised by non-ambulant children*
 - *Preparation of suitable emergency procedures is required as part of service approval process*
 - Higher demand for care for younger children than preschool children
 - Although emergency procedures are part of SA process, cannot give any kind of endorsement when emergency evacuations appear unworkable from plans.
 - From 1 October, RAs required to consider direct egress to safe assembly area for very young and non-ambulatory children, in service approval process.
 - Aside from numbers of children <2, some educators being downstairs, need for one educator per non-ambulant child to evacuate down stairs, does not appear to be any assembly area , both sets of stairs lead to a footpath beside a road in an industrial area.

o



From: [Masterman, Tanya](#)
To: [Partridge, Leah](#)
Subject: Mitchell DA
Date: Wednesday, 14 June 2023 9:16:56 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)

OFFICIAL: Sensitive

Hiya






I've done a preliminary draft response to [REDACTED] – happy to chat about any of it when the time comes.

[\\act.gov.au\education\decs\Regulation and Compliance\ECRS Branch Management\CHILDREN'S PROGRAMS\Infrastructure and Planning\DA Referrals\MITCHEL\Block 18 Section 11. \[REDACTED\]\2023\Draft Letter to Canberra Town Planning.docx](#)

Kind regards

Tanya Masterman (she/her) | A/g Assistant Director | Policy and Projects
Phone 02 6205 2012 | Email tanya.masterman@act.gov.au
Education and Care Regulation and Support | Education | ACT Government
Level 3, Hedley Beare Centre for Teaching and Learning, 51 Fremantle Drive, Stirling 2611
GPO Box 158 Canberra ACT 2601
www.education.act.gov.au | [Facebook](#) | [Twitter](#) | [Instagram](#) | [LinkedIn](#) | [CECA Facebook](#)

Hybrid work locations this week for me are:

Mon	Tues	Wed	Thur	Fri
				



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From: [redacted]
To: Leah Mitchell
Cc: [redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)
Date: Monday, 26 June 2023 11:37:30 AM
Attachments: image001.gif
image002.png
image003.png
image004.jpg
image005.gif
image006.png
image008.jpg
image009.jpg
image010.jpg

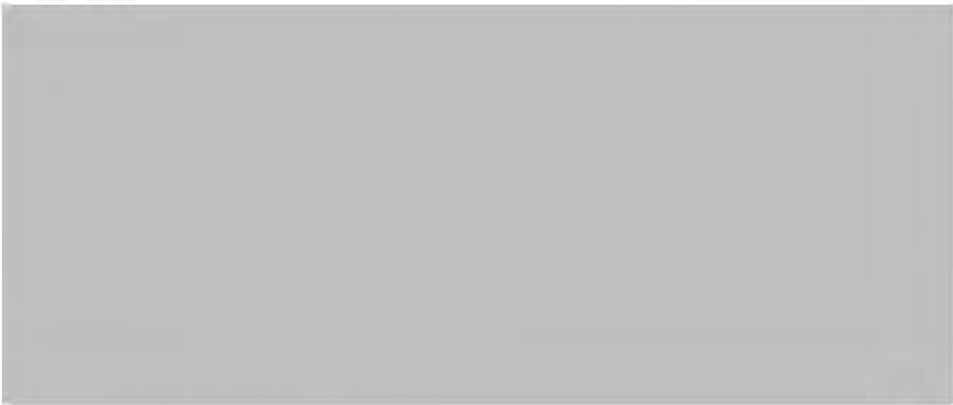
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Hi Leah,

[redacted] I am hoping you can provide an update further to the below, please

Many thanks,



From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Wednesday, April 5, 2023 1:59 PM
To: [redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Thank you [redacted]

I can't give you a concrete time I'm afraid, but please be assured we are working in this and will get back to you as soon as we are able to

Kind Regards

Clare Brookes (she/her)
Senior Director Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [redacted]
Sent: Wednesday, 5 April 2023 1:52 PM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: [redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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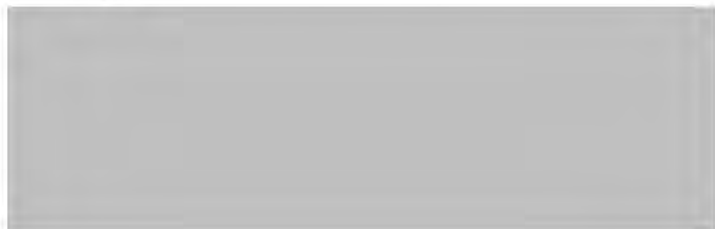
Hi Clare,

My sincere apologies for the confusion

Please find the [redacted] Human Health Risk Assessment attached. Also attached in an updated copy of our letter including this document

Could you please advise when we might expect your further advice?

Warm regards,





From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Monday, April 3, 2023 12:40 PM
To: [Redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Good Afternoon [Redacted]

Could you please provide the full [Redacted] Human Health Risk Assessment, as quoted in your letter as "Attachment 2"

Many thanks

Kind Regards

Clare Brookes (she/her)
Senior Director Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [Redacted]
Sent: Friday, 24 March 2023 11:58 AM
To: Brookes, Clare <Clare.Brookes@act.gov.au>
Cc: CECA <CECA@act.gov.au>; [Redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Hi Clare,

Further to your correspondence below and as discussed recently, the Notice of Decision for DA201733198-S197D has been corrected by EPSDD so as to enable the proponent to satisfy the condition of approval related to CECA approval. The proponent is now required to "provide an endorsement from Children's Education & Care Assurance (CECA) addressing CECA requirements", similarly to the recent project at Block 5 Section 120 Holt (DA202139485). Please find the Formal Correction Notice, dated 1 March 2023, attached.

To progress the attainment of CECA support, please find attached our formal request for endorsement.

Many thanks for your assistance.

Warm regards,



From: Brookes, Clare <Clare.Brookes@act.gov.au>
Sent: Thursday, 12 January 2023 4:57 PM
To: [Redacted]
Subject: RE: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

OFFICIAL

Dear [Redacted]

Please find attached response to your enquiry

Kind Regards

Clare Brookes (she/her)
A/g Executive Branch Manager Education and Care Regulation and Support | Education | ACT Government
P 02 6205 0615 M 0481 003 833

Level 3 Hedley Beare Centre for Teaching and Learning 51 Fremantle Drive Stirling 2611 |
GPO Box 158 Canberra ACT 2601
www.det.act.gov.au

From: [REDACTED]
Sent: Thursday, 10 November 2022 9:40 AM
To: CECA <CECA@act.gov.au>
Cc: Brookes, Clare <Clare.Brookes@act.gov.au>; [REDACTED]
Subject: Request for Written CECA Endorsement - DA201733198-S197D (Block 18 Section 11 Mitchell)

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Good morning,

[REDACTED] have been engaged by the lessee of Block 18 Section 11 Mitchell to progress an amendment application – made under section 197 of the *Planning and Development Act 2007* – to an approved childcare centre development proposal (DA201733198)

In summary, the following amendments were proposed to address legislative changes made since the original approval:

- reduction number of childcare places;
- reduction of car parking spaces;
- reconfiguration of the ground floor internal layout;
- first floor layout reconfiguration;
- deletion of the second floor; and
- reduction of gross floor area

The amended proposal (DA201733198-S197D) was approved on 8 August 2022, subject to conditions. One of these conditions require the attainment of written support from CECA in relation to the development. To this end, please find attached our request for the endorsement of CECA in accordance with the *Education and Care Services National Law Act 2010* (ACT) and the *Education and Care Services National Regulations*.

Should you require any additional information or wish to discuss further, please do not hesitate to contact me

We appreciate your consideration

Kind regards,

