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Airborne Microbiological Sampling at Various Schools and Aged Care Facilities

December 2019

Prepared for: Eco Pacific Pty Ltd
437 Hammond Road
Dandenong South VIC 3175

Contact: Mr Jai Kaudinya

Telephone: 9706 6228

Job No: 8720

Prepared by: Ms Yanel Lara
AMCOSH Pty Ltd

1. Introduction

At the request of Mr Kaudinya of Eco Pacific Pty Ltd, AMCOSH conducted airborne microbiological monitoring, namely for bacteria and mould, at ten school and aged care facilities in inner and outer Melbourne and the Geelong area as part of a research project being conducted by a team at the School of Property, Construction and Project Management of RMIT University in conjunction with Eco Pacific, a manufacturer of heating and cooling products.

The monitoring was conducted in selected rooms as directed by the RMIT researchers at each of the sites listed below from May to November 2019 on two occasions: prior to and post the installation of a filtered fresh air ventilation system by Eco Pacific.

Site	Address	Intervention Room	Monitoring Date-Pre-Installation	Monitoring Date-Post Installation
Thomastown Secondary College	80-96 Main St, Thomastown VIC 3074	Blue Room (Pre) Red Room (Post)	Thur 9 May & Tue 11 June	Thurs, 18 July
St Mary's Catholic Primary School	74 Roseberry Street, Ascot Vale VIC 3032	Class Room 2-Blue-Level 1	Fri 17 May & Tue 11 June	Fri, 26 July
Malvern Primary school	25 Tooronga Rd, Malvern East VIC 3144	5HR- Level 1	Thur 6 June	Wed, 31 July
Belmont Primary School (Geelong)	51 Mt Pleasant Rd, Belmont VIC 3216	Room 83, Blk 008851 (corner classroom,)	Fri 31 May	Fri 20 Sept
Richmond West Primary School	25 Lennox St, Richmond VIC 3121	LA13-Small Room-Level 1	Fri 24 May	Fri, 16 Aug
Regis Cranbourne	18 Sherwood Rd, Junction Village VIC 3977	Activity Room	Mon 17 June	Thur 26 Sept
Regis Ringwood	294 Maroondah Hwy Ringwood VIC 3134	Dining Area	Mon 17 June	Thur 26 Sept
Regis Alwarra Lodge-Blackburn	220 Middleborough Rd, Blackburn Sth VIC 3130	Activity Room	Mon 17 June	Thur 26 Sept
RSL Vasey- Brighton East	709-723 Hawthorn Rd, Brighton East VIC 3187	Level 1 Gallery Room	Fri 23 Aug	Fri 15 Nov
Multicultural Aged Care Services, Geelong	100 Weddell Rd, North Geelong VIC 3215	Common area, Borella House	Fri 31 May	Fri 20 Sept

#Dining/Activities room was originally selected and monitored on Mon 17 June, room was subsequently changed to Level 1 Gallery Room

2. Sampling and Analytical Method

2.1 Airborne Mould and Yeast

Sampling for airborne viable fungal spora (fungal particles able to be grown in nutrient agar) was conducted using 90mm 2% malt extract agar (MEA) plates sampled in a Biostage single-stage 400-hole impact sampler connected to a calibrated QuickTake 30 sampling pump at a flow rate of 28L/min for 2 minutes. The impactor was sterilised in the field before the sampling session with the use of sterile gauze pads with 70% isopropanol and air-dried.

2.2 Airborne Bacteria

Sampling for airborne bacteria was conducted using 90mm Tryptic Soy Agar (TSA) plates sampled in a Biostage single-stage 400-hole impact sampler connected to a calibrated QuickTake 30 sampling pump at a flow rate of 28L/min for 2 minutes. The impactor was sterilised in the field in before the sampling session with the use of sterile gauze pads with 70% isopropanol and air-dried.

All sampling was conducted by placing the sampler at above 1m from the ground (breathing zone height) in each of the rooms and outdoors. The outdoor samples served as control samples. All the collected samples were submitted to Silliker Australia, a NATA accredited laboratory, for analysis of all plates by culturing and determination of the number of colony forming units per cubic metre of sampled air (CFU/m³).

3. Results

The results of the air monitoring are summarised in Table 1 and Figure 1.

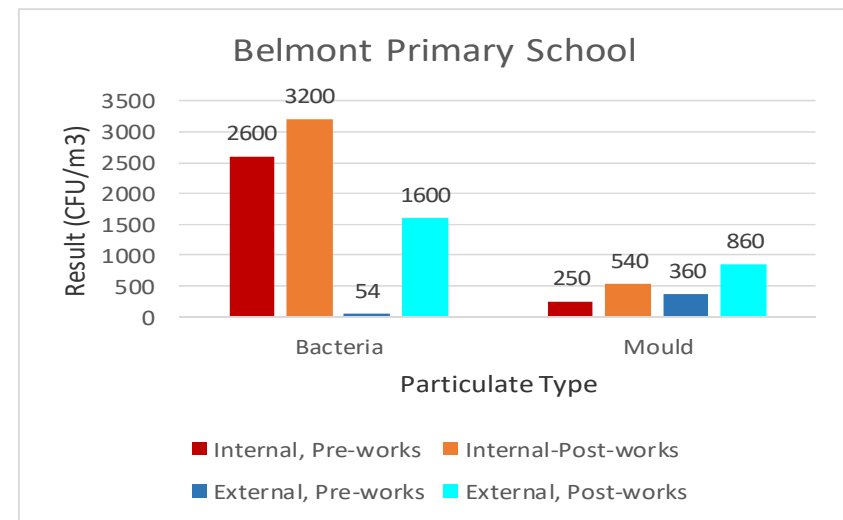
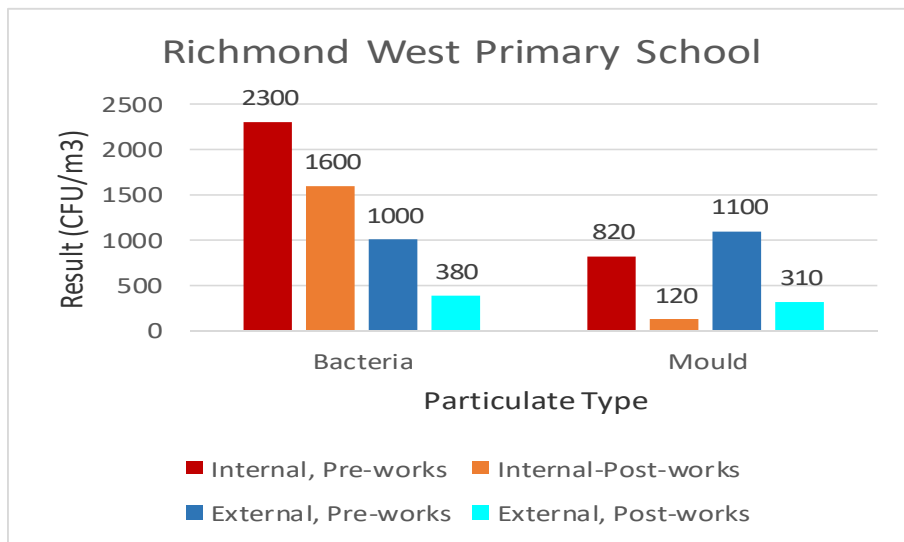
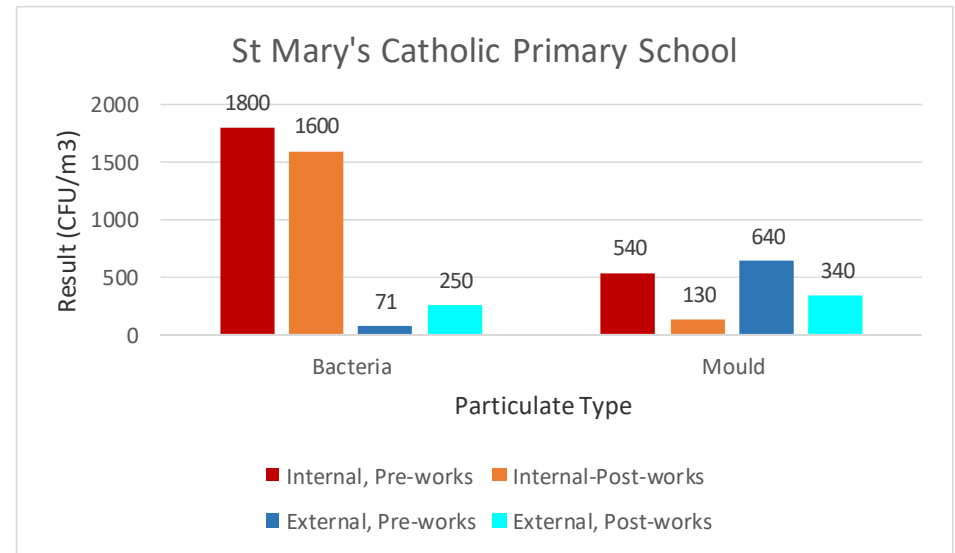
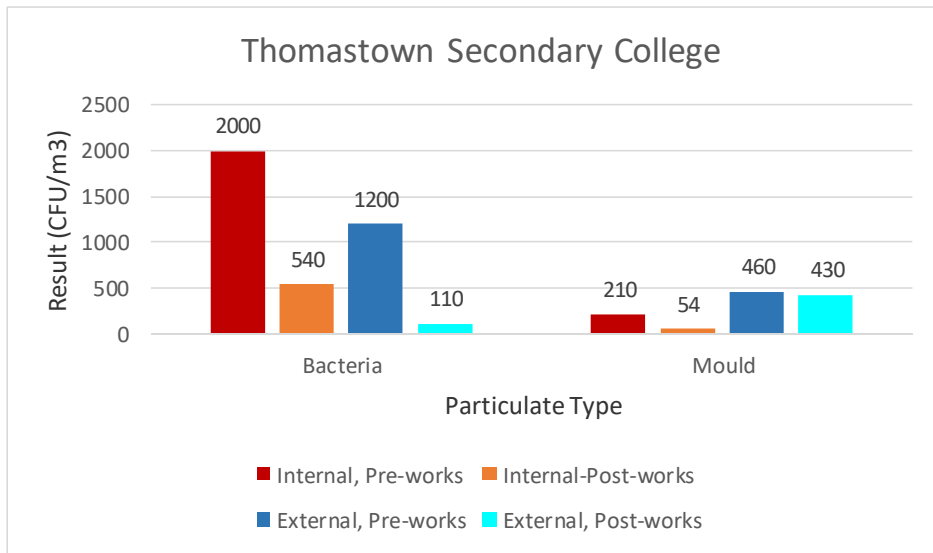
Table 1- Airborne total fungi, yeast and bacteria concentrations

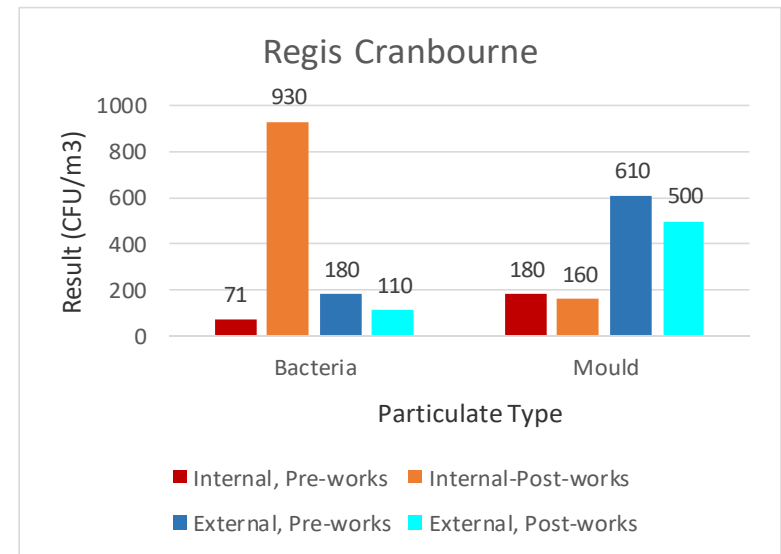
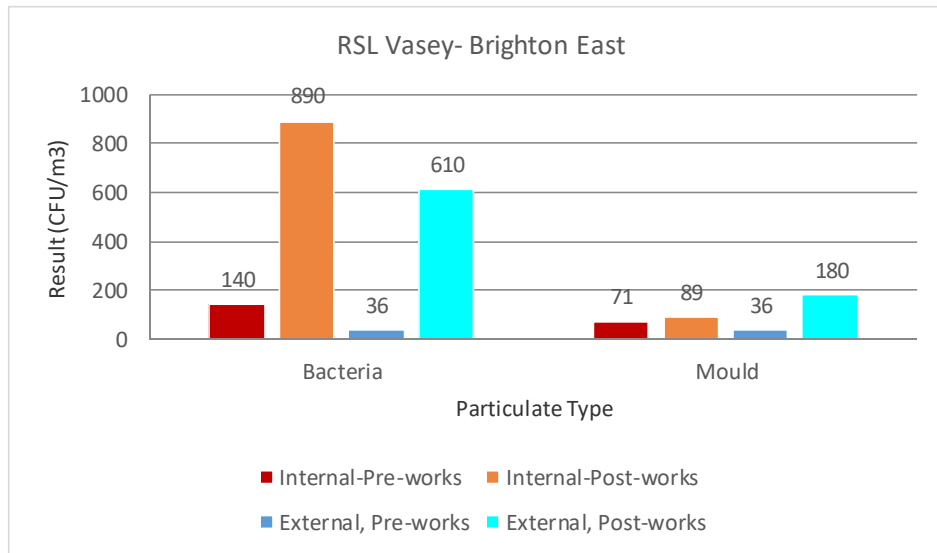
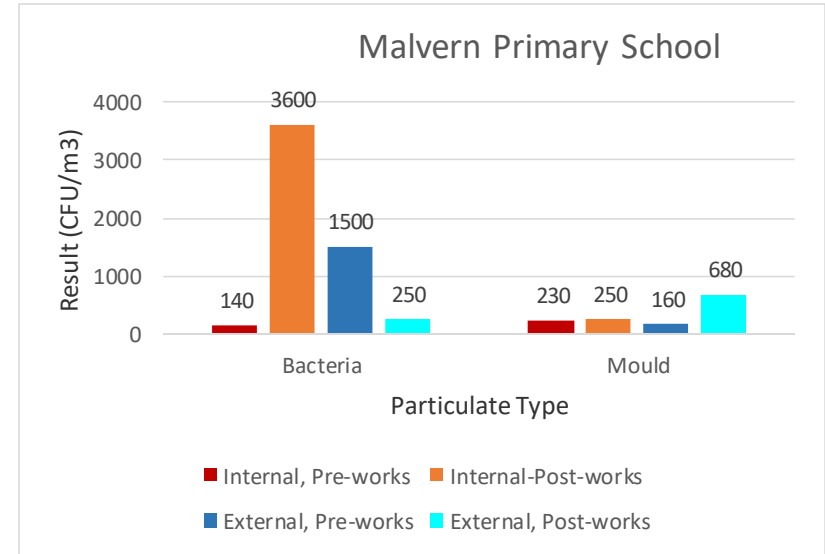
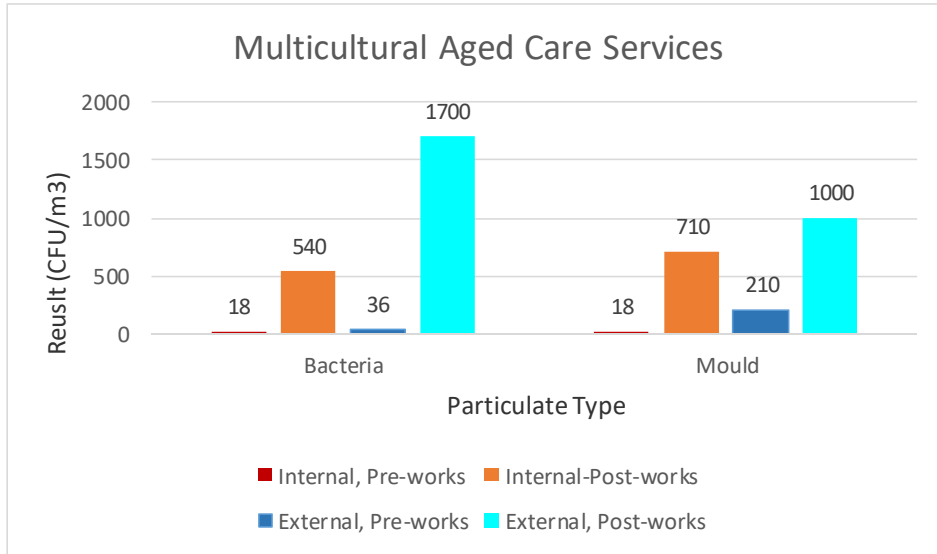
Location	Pre-Installation				Post-Installation			
	Sample No	Airborne Mould Concentration (CFU/m ³)	Airborne Yeast Concentration (CFU/m ³)	Airborne Bacteria Concentration (CFU/m ³)	Sample No	Airborne Mould Concentration (CFU/m ³)	Airborne Yeast Concentration (CFU/m ³)	Airborne Bacteria Concentration (CFU/m ³)
Thomastown Secondary College								
Internal	1	210	<36	2000	22	54	<18	540
External	2	460	<36	1200	21	430	36	110
St Mary's Catholic Primary School								
Internal	3	540	<36	1800	24	130	36	1600
External	4	640	36	71	23	340	<18	250
Richmond West Primary School								
Internal	5	820	18	2300	27	120	<17	1600
External	6	1100	18	1000	28	310	<17	380
Belmont Primary School								
Internal	7	250	<18	2600	34	540	140	3200
External	8	360	<18	54	33	860	250	1600
Multicultural Aged Care Services								
Internal	9	18	<18	18	32	710	<36	540
External	10	210	<18	36	31	1000	<36	1700

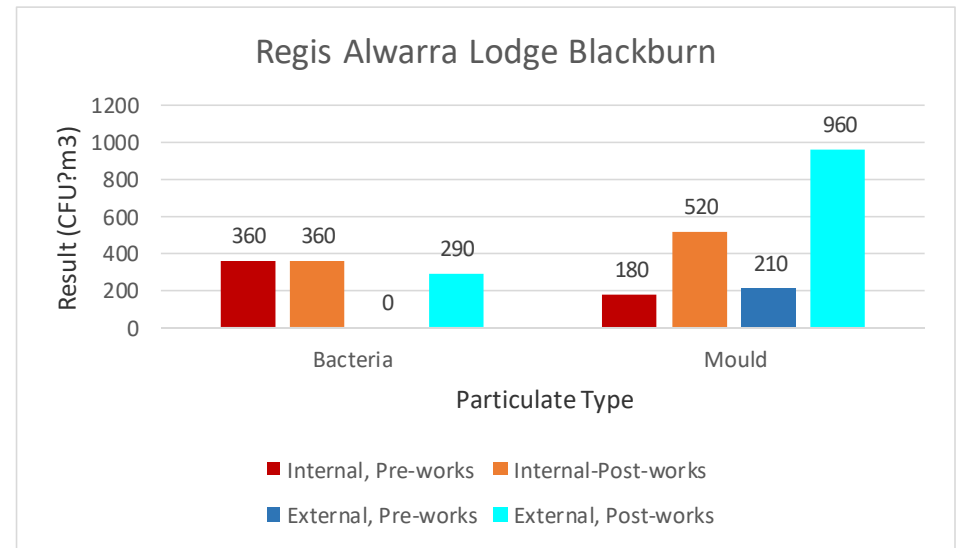
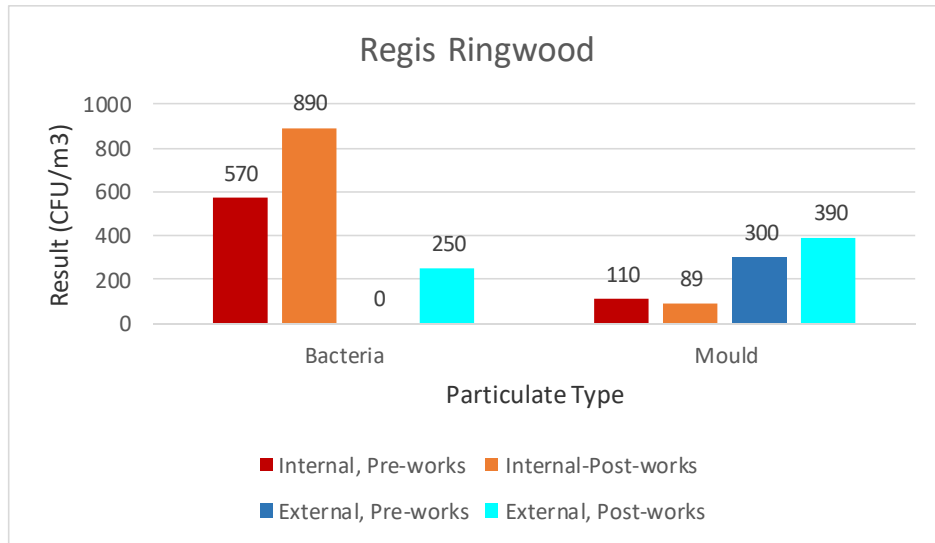
Table 1- Airborne total fungi, yeast and bacteria concentrations (cont'd)

Location	Pre-Installation				Post-Installation			
	Sample No	Airborne Mould Concentration (CFU/m ³)	Airborne Yeast Concentration (CFU/m ³)	Airborne Bacteria Concentration (CFU/m ³)	Sample No	Airborne Mould Concentration (CFU/m ³)	Airborne Yeast Concentration (CFU/m ³)	Airborne Bacteria Concentration (CFU/m ³)
Malvern Primary School								
Internal	11	230	<18	140	26	250	<36	3600
External	12	160	<18	1500	25	680	<36	250
RSL Vasey- Brighton East								
Internal	13	54	<18	210	30	71	<36	140
External	14	520	18	790	29	36	<36	36
Regis Cranbourne								
Internal	15	180	<18	71	38	160	<18	930
External	16	610	<18	180	37	500	<18	110
Regis Ringwood								
Internal	17	110	<18	570	40	89	<18	890
External	18	300	<18	<36	39	390	<18	250
Regis Alwarra Lodge- Blackburn								
Internal	19	180	<18	360	42	520	<18	360
External	20	210	<18	<36	41	960	<18	290

Figure 1- Graphical Representation of Total Bacteria and Mould Concentrations







4. Discussion

4.1 General

Microorganisms are ubiquitous in the indoor and outdoor environment. Microbes such as mould, fungi and bacteria propagate rapidly wherever water is available. The dust and dirt normally present in most indoor spaces provide sufficient nutrients to support extensive microbial growth. The prevention of dampness is one of the most critical factors in controlling microbial growth in indoor environments. Other environmental factors include temperature and light. Water intrusion, dampness and excess moisture in buildings provide advantageous conditions for microbial growth resulting in the emission of spores, cells, fragments and volatile organic compounds into indoor air. In particular, dust mites and fungi which favour damp environments can be present in elevated indoor concentrations and may affect the health of people living or working in the building. Dust mites and several fungi produce allergens known to be associated with allergies and asthma; many fungi also produce toxins and irritants with suspected respiratory effects.

It is important to note that there are no regulatory standards or recognised health based standards or guidelines for surface and airborne biological pollutants.

Mould

As mentioned above, occupants of buildings affected by moisture problems and mould growth may report odours and a variety of health problems, such as headaches, breathing difficulties, skin irritation, allergic reactions, and aggravation of asthma symptoms; all of these symptoms could potentially be associated with mould exposure. A WHO document (WHO Guidelines for Indoor Air Quality: dampness and mould, Edited by Elisabeth Heseltine and Jerome Rosen, World Health Organisation 2009- referred to as WHO Guidelines) concluded that there is sufficient evidence of an association between indoor dampness related factors and a wide range of respiratory health effects including asthma development, asthma exacerbation, current asthma, respiratory infections, upper respiratory tract symptoms, cough, wheeze and dyspnoea. However, the document adds that even though it is plausible that heavy exposure to indoor mould or other microbial agents plays a causal role, this has not been established conclusively.

It is generally recommended that a thorough walk-through inspection of the building for the presence of moist or damp surfaces or visible mould is undertaken as a higher priority to conducting sampling for microbial contaminants, in particular air monitoring. This is because of a number of factors including:

- Concentrations of fungi and spores in indoor air may not be necessarily high even when mould is visible;
- Absence of reported health effects despite high airborne microbial concentrations;
- Airborne microbial concentrations vary widely in a building and outside on a regular basis (hourly, daily) and a seasonal basis (summer/winter)
- Indoor airborne microbial concentrations are dependent on a number of environmental factors in a building including the extent of disturbance of the mould reservoirs by occupants and ventilation;
- There is a number of sampling and analytical methods in use which are not well standardised and are difficult to compare, with mould concentrations and variety of species varying substantially when different sampling methods are used;
- Sampling times of very short duration (minutes) and typically limited sampling data with no speciation of the microorganism.

As stated above, since it is not possible to quantify the relationship between dampness, mould exposure and health effects, there are no quantitative, health-based guideline values or thresholds recommended for acceptable levels of contamination by mould and other microorganisms. All moulds have the potential to cause health effects, the types and severity of symptoms depend partly on the types of mould present, the extent of an individual's exposure, the ages of the occupants and their existing sensitivities, such as individuals with weakened immune systems or allergies.

Healthy individuals are usually not vulnerable to opportunistic infections from airborne mould exposure. However, it is recommended that dampness and mould growth in the indoor environment be prevented to ensure that the increased risk of exposure to hazardous mould and associated agents is avoided.

A Health Canada publication states:

The variety of biological agents that may occur in air is immense, and their potential for effects on susceptible individuals is unpredictable. Because of the complexity of the problem and the lack of data from which contamination levels can be related to disease incidence, it is not possible to recommend limits for biological agents in general.

According to the American Conference of Governmental Industrial Hygienists (ACGIH) document on Bioaerosols published in 1999, investigators use outdoor air as a baseline measurement against which to compare levels found in indoor air. This approach can only be adopted for like categories of biological agents, for example particular species of fungi or bacteria. Most sampling methods do not distinguish between fungal species and therefore comparison between indoor and outdoor levels is problematic. In addition, indoor fungal growth may be present in situations where indoor concentrations of airborne fungi are equal to or lower than those outdoors. The indoor/outdoor relationship can however be used as a preliminary indicator of a possible difference between the two environments. An earlier version of the ACGIH document on Bioaerosols stated that in buildings with mechanical ventilation and minimal air filtration, indoor fungal concentrations are typically less than half of outdoor levels. If fungal concentrations indoors are consistently higher than those outdoors, then indoor sources are indicated.

The Australian Mould Guidelines (2010), a publication by Mycologia (a private mould investigation consultancy and mycological laboratory- now Mycolab) provides a viable fungi health risk guide for indoor air in mechanically (with particulate filtration) and naturally ventilated buildings as shown in Table 3 below:

Table 3- Viable Fungi Health Risk Guide for Indoor Air

Viable Air Spora ¹ Health Risk	Indoor Concentration in Mechanically Ventilated Buildings	Indoor Concentration in Naturally Ventilated Buildings
Normal ²	< 0.5x Outdoor Air	≤ Outdoor air
Elevated ³	>0.5x Outdoor Air to ≤ Outdoor Air	> Outdoor air to ≤ 2x Outdoor Air
At Risk ⁴	>Outdoor air to ≤ 2x Outdoor Air	> 2x Outdoor Air
Hazardous ⁵	>2x Outdoor Air plus speciation	
Severe ⁶	>2x Outdoor Air plus speciation plus known mycotoxins	

Notes:

- Using 90mm 2% malt extract agar plates sampled in a 400 hole impact sampler at a flow rate of 28.3 l/min for 2 minutes and incubated at 24°C and 65% relative humidity. Fungal spora includes all fungal particles able to grow once on nutrient agar and include spores, conidia, chains of spores or conidia reproductive structures or sections or branches of fungal hyphae.
- Refers to a normal level of colonisation with fungal spora that is similar to the background and or outdoor air spora
- Higher than the normal or the background range of exposure to airborne fungal spora. May present a health risk to sensitised individuals. Health symptoms should be noted. This rating may be upgraded depending on speciation and/or presence of known mycotoxins.
- Potential health risk to sensitised individuals. Health symptoms should be monitored and assessed by medical doctor where required. Fungi should be speciated to determine actual health risk. This rating may be upgraded depending on speciation and/or presence of known mycotoxins.
- Probable health risk to sensitized individuals and potential health risk to all other persons. Speciation of fungi may indicate species that are known to cause health effects at those concentrations. Health symptoms should be closely monitored and assessed by medical doctor.
- Probable health risk to all persons. Speciation of fungi includes species that are known to cause health effects or are known to produce mycotoxins of concern.

It is important to note that these guidelines were developed by the authors and are not endorsed by any government body. The basis for the health risk levels for each of the indoor concentrations is not provided in the document and therefore the application of this risk guide should be done with caution and used only as a rough guide.

Bacteria

Bacteria are single-cell organisms belonging to a wide number of species. These organisms are ubiquitous, they can be found in the dust and on the surfaces of every premises. According to the WHO Guidelines, the main sources of bacteria in the indoor environment are outdoor air, people and indoor bacterial growth. It is generally considered that bacteria from outdoor air and those originating from people are fairly harmless however, bacteria growing actively or accumulating in the indoor environment may affect health although this has not been studied extensively.

Normal airborne concentrations of bacteria have not been established. The WHO Guidelines state that total viable bacterial concentrations in indoor environments may range between 10 and 1000 CFU/m³, probably representing the degree of occupancy of the building and the efficiency of its ventilation.

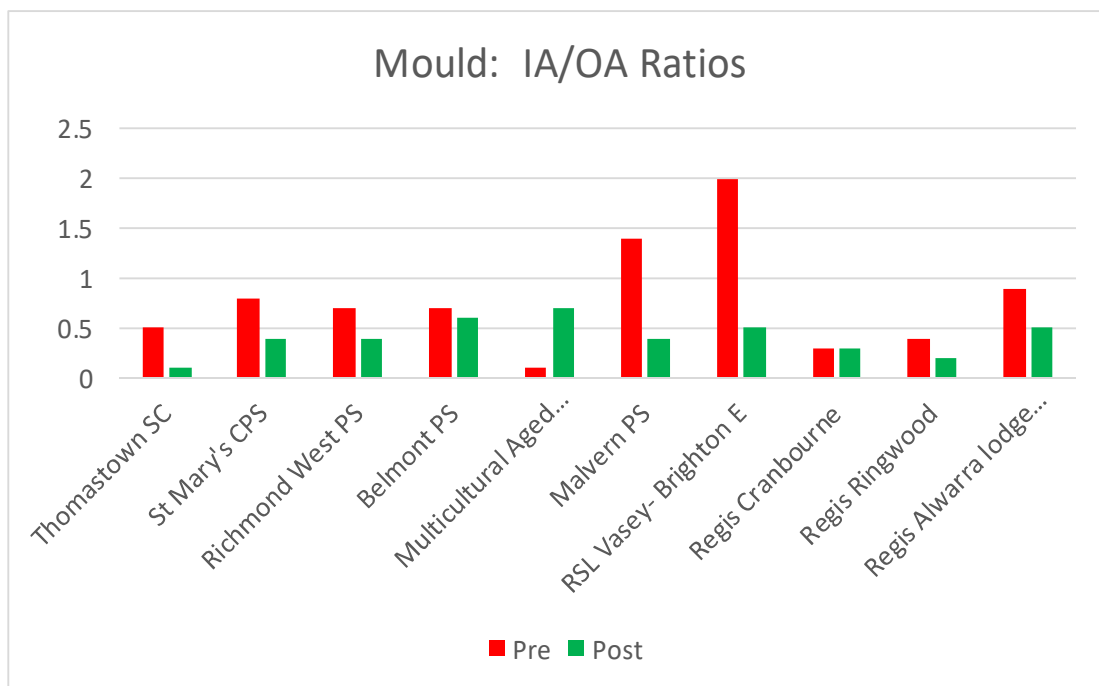
4.2 Specific

As a means of comparing the results pre- and post- installation of the filtered ventilation system, the ratios of the mould and total bacteria concentrations indoors to outdoors are presented in Tables 4 and 5 and plotted as shown in Figures 2 and 3.

Table 4- Indoor/Outdoor Ratios (IA/OA) of Mould Concentrations Pre and Post Installation of Filtered Ventilation

Site	IA/OA Ratio	
	Pre-installation	Post- installation
Thomastown Secondary College	0.5	0.1
St Mary's Catholic Primary School	0.8	0.4
Richmond West Primary School	0.7	0.4
Belmont Primary School (Geelong)	0.7	0.6
Multicultural Aged Care Services, Geelong	0.1	0.7
Malvern Primary school	1.4	0.4
RSL Vasey- Brighton East	2	0.5
Regis Cranbourne	0.3	0.3
Regis Ringwood	0.4	0.2
Regis Alwarra Lodge- Blackburn	0.9	0.5
Average	0.8	0.4

Figure 2- Graphical Representation of Indoor/Outdoor Ratios (IA/OA) of Mould Concentrations Pre and Post Installation of Filtered Ventilation

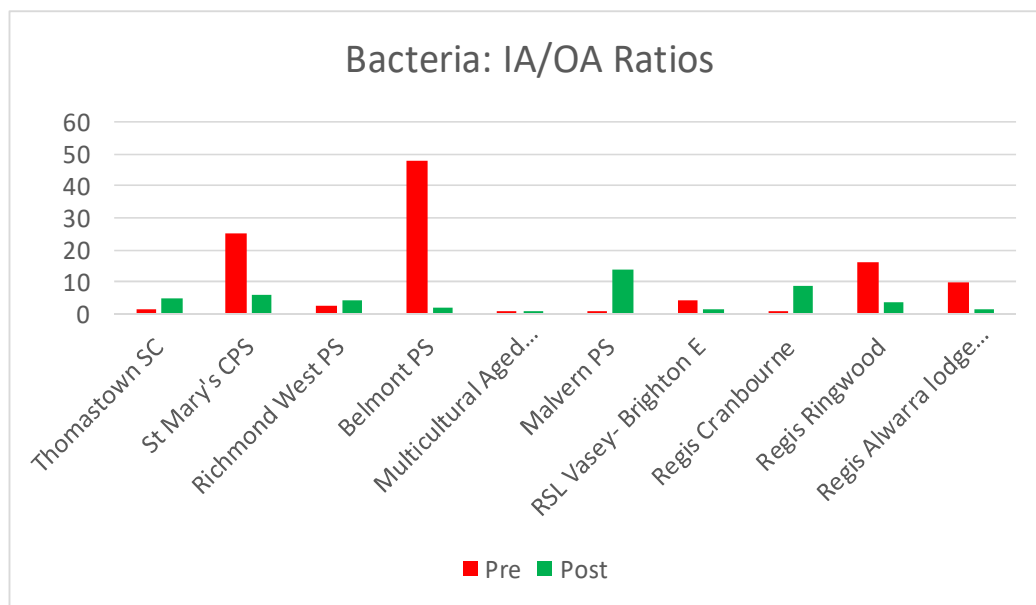


According to the Viable Fungi Health Risk Guide for Indoor Air, 'normal' levels of airborne mould are those that are less than half the outdoor levels, i.e. IA/OA ratio of 0.5. Most of the Pre-installation IA/OA ratios were above 0.5, with only four of the ten being below a ratio of 0.5. Two of these ratios were above 1. On the other hand, most of the Post-installation IA/OA ratios were below 0.5 with only two ratios above 0.5 but below 1.

Table 5- Indoor/Outdoor Ratios (IA/OA) of Total Bacteria Concentrations Pre and Post Installation of Filtered Ventilation

Site	IA/OA Ratio	
	Pre-installation	Post- installation
Thomastown Secondary College	1.6	5
St Mary's Catholic Primary School	25	6
Richmond West Primary School	2	4
Belmont Primary School (Geelong)	48	2
Multicultural Aged Care Services, Geelong	0.5	0.3
Malvern Primary school	0.1	14
RSL Vasey- Brighton East	4	2
Regis Cranbourne	0.4	9
Regis Ringwood	16	4
Regis Alwarra Lodge- Blackburn	10	1
Average	11	5

Figure 3- Graphical Representation of Indoor/Outdoor Ratios (IA/OA) of Total Bacteria Concentrations Pre and Post Installation of Filtered Ventilation



The IA/OA ratios for total bacteria pre and post installation varied considerably across the sites, with bacterial concentrations higher indoors compared with outdoors (pre-installation: only three at/below 0.5, post-installation: one below 0.5), both under pre and post installation conditions.

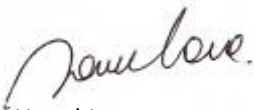
4.3 Summary

Mould

The mean IA/OA ratio pre-installation was calculated to be 0.8 compared with the mean IA/OA ratio post- installation of 0.4. In summary, the mould data shows an overall decrease in the IA/OA ratio for the Post-installation conditions.

Bacteria

The mean IA/OA ratio pre-installation was calculated to be 11 compared with the mean IA/OA ratio post- installation of 5. In summary, the total bacteria data shows an overall decrease in the IA/OA ratio for the Post-installation conditions.



Yanel Lara

BAppSc, MAppSc (Toxicol), FAIOH, Certified Occupational Hygienist®

PRINCIPAL OCCUPATIONAL HYGIENIST



Appendix

Certificates of Analysis

COA No:	MEL-51286801-0
Supersedes:	None
COA Date:	12/05/2019
Page 1 of 1	

TO:
 Yanel Lara
 Amcosh Pty Ltd
 3-4, 112 Synnot Street
 Werribee, VIC 3030

Received From:	Werribee, VIC
Received Date:	09/05/2019
P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: TSA Air Plate #1 **Sample Number:** 455343110
Condition Rec'd: NORMAL
Temp Rec'd (°C): 12.1
Date Started: 12/05/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	2000	CFU/m3	M34	12/05/2019	

Desc. 1: TSA Air Plate #2 **Sample Number:** 455343113
Condition Rec'd: NORMAL
Temp Rec'd (°C): 12.1
Date Started: 12/05/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	1200	CFU/m3	M34	12/05/2019	



SELINA BEGUM
MICROBIOLOGY LABORATORY MANAGER



*NATA Corporate Accreditation Number: 2020
 Melbourne Microbiology Site No: 2013.
 Sydney Microbiology Site No: 2759, Chemistry Site No: 2135
 Perth Microbiology Site No: 10635
 Brisbane Microbiology Site No: 15147
 Accredited for compliance with ISO/IEC 17025.*

The data pertains solely to the analytical and sampling procedure(s) used and the condition and homogeneity of the sample(s) as received. The data therefore may not be representative of the lot or batch or other samples.

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 Measurement Uncertainty (MU) can be found by logging in to MyMXNS

COA No:	MEL-51290227-0
Supersedes:	None
COA Date:	20/05/2019
Page 1 of 1	

TO:
 Yanel Lara
 Amcosh Pty Ltd
 3-4, 112 Synnot Street
 Werribee, VIC 3030

Received From:	Werribee, VIC
Received Date:	17/05/2019
P.O.#:	8720
Location of Test: (except where noted)	
Blackburn, Vic	

Analytical Results

Desc. 1: TSA Plate #3
Sample Number: 455363160
Condition Rec'd: NORMAL
Temp Rec'd (°C): 8.0
Date Started: 17/05/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	1800	CFU/m3	M34	20/05/2019	

Desc. 1: TSA Plate #4
Sample Number: 455363161
Condition Rec'd: NORMAL
Temp Rec'd (°C): 8.0
Date Started: 17/05/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	71	CFU/m3	M34	20/05/2019	



SELINA BEGUM
MICROBIOLOGY LABORATORY MANAGER



NATA Corporate Accreditation Number: 2020
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Sydney Microbiology Site No: 2759, Chemistry Site No: 2135
Perth Microbiology Site No: 10635
Brisbane Microbiology Site No: 15147
Accredited for compliance with ISO/IEC 17025.

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COA No:	MEL-51293820-0
Supersedes:	None
COA Date:	29/05/2019
Page 1 of 2	

TO:
 Yanel Lara
 Amcosh Pty Ltd
 3-4, 112 Synnot Street
 Werribee, VIC 3030

Received From:	Werribee, VIC
Received Date:	24/05/2019
P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: MEA Plate # 5B **Sample Number:** 455377818
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.0
Date Started: 29/05/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	820	CFU/m3	M34	29/05/2019	
Total Yeast Count	18	CFU/m3	M34	29/05/2019	

Desc. 1: MEA Plate # 6A **Sample Number:** 455377821
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.0
Date Started: 29/05/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	1100	CFU/m3	M34	29/05/2019	
Total Yeast Count	18	CFU/m3	M34	29/05/2019	

Desc. 1: TSA Plate # 5A **Sample Number:** 455377824
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.0
Date Started: 24/05/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	2300	CFU/m3	M34	27/05/2019	

Desc. 1: TSA Plate # 6B **Sample Number:** 455377826
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.0
Date Started: 24/05/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	1000	CFU/m3	M34	27/05/2019	



Accredited for compliance with ISO/IEC 17025 - Testing
 NATA Corporate Accreditation Number: 2020
 Melbourne Microbiology Site No: 2013
 Sydney Microbiology Site No: 2759 Chemistry Site No: 2135
 Perth Microbiology Site No: 10635
 Brisbane Microbiology Site No: 15147
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SILLIKER AUSTRALIA
MELBOURNE LABORATORY
20 King Street
Blackburn, Vic 3130
03-8878-2100 Fax 03-9877-8444

CERTIFICATE OF ANALYSIS


COA No:	MEL-51293820-0
Supersedes:	None
COA Date:	29/05/2019
Page 2 of 2	

TO:

Yanel Lara
Amcosh Pty Ltd
3-4, 112 Synnot Street
Werribee, VIC 3030

Received From:	Werribee, VIC
Received Date:	24/05/2019
P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results



SELINA BEGUM
MICROBIOLOGY LABORATORY MANAGER



Accredited for compliance with ISO/IEC 17025 - Testing
NATA Corporate Accreditation Number: 2020
Melbourne Microbiology Site No: 2013
Sydney Microbiology Site No: 2759 Chemistry Site No: 2135
Perth Microbiology Site No: 10635
Brisbane Microbiology Site No: 15147
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COA No:	MEL-51296881-0
Supersedes:	None
COA Date:	06/06/2019
Page 1 of 2	

TO:
 Yanel Lara
 Amcosh Pty Ltd
 3-4, 112 Synnot Street
 Werribee, VIC 3030

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Analytical Results

Desc. 1: MEA Plate # 7B **Sample Number:** 455394533
Condition Rec'd: NORMAL
Temp Rec'd (°C): 6.3
Date Started: 06/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	250	CFU/m3	M34	06/06/2019	
Total Yeast Count	<18	CFU/m3	M34	06/06/2019	

Desc. 1: MEA Plate # 8B **Sample Number:** 455394534
Condition Rec'd: NORMAL
Temp Rec'd (°C): 6.3
Date Started: 06/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	360	CFU/m3	M34	06/06/2019	
Total Yeast Count	<18	CFU/m3	M34	06/06/2019	

Desc. 1: MEA Plate # 9B **Sample Number:** 455394535
Condition Rec'd: NORMAL
Temp Rec'd (°C): 6.3
Date Started: 06/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	18	CFU/m3	M34	06/06/2019	
Total Yeast Count	<18	CFU/m3	M34	06/06/2019	

Desc. 1: MEA Plate # 10B **Sample Number:** 455394536
Condition Rec'd: NORMAL
Temp Rec'd (°C): 6.3
Date Started: 06/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	210	CFU/m3	M34	06/06/2019	
Total Yeast Count	<18	CFU/m3	M34	06/06/2019	



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 Amcosh Pty Ltd
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Analytical Results

Desc. 1: TSA Plate # 7A **Sample Number:** 455394537
Condition Rec'd: NORMAL
Temp Rec'd (°C): 6.3
Date Started: 4/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	2600	CFU/m3	M34	04/06/2019	

Desc. 1: TSA Plate # 8A **Sample Number:** 455394538
Condition Rec'd: NORMAL
Temp Rec'd (°C): 6.3
Date Started: 4/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	54	CFU/m3	M34	04/06/2019	

Desc. 1: TSA Plate # 9A **Sample Number:** 455394539
Condition Rec'd: NORMAL
Temp Rec'd (°C): 6.3
Date Started: 4/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	18	CFU/m3	M34	04/06/2019	

Desc. 1: TSA Plate # 10A **Sample Number:** 455394540
Condition Rec'd: NORMAL
Temp Rec'd (°C): 6.3
Date Started: 4/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	36	CFU/m3	M34	04/06/2019	



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Analytical Results

Desc. 1: 1 x MEA Plate # 11B **Sample Number:** 455406600
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.6
Date Started: 11/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	230	CFU/m3	M34	11/06/2019	
Total Yeast Count	<18	CFU/m3	M34	11/06/2019	

Desc. 1: 1 x MEA Plate # 12B **Sample Number:** 455406602
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.6
Date Started: 11/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	160	CFU/m3	M34	11/06/2019	
Total Yeast Count	<18	CFU/m3	M34	11/06/2019	

Desc. 1: 1 x TSA Plate # 11A **Sample Number:** 455406603
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.6
Date Started: 09/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	140	CFU/m3	M34	09/06/2019	

Desc. 1: 1 x TSA Plate # 12A **Sample Number:** 455406605
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.6
Date Started: 09/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	1500	CFU/m3	M34	09/06/2019	



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Analytical Results

Desc. 1: 1 x MEA Plate # 2A **Sample Number:** 455414520
Desc. 2: Date: 11/06/2019 **Condition Rec'd:** NORMAL
Temp Rec'd (°C): 10.0
Date Started: 11/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	460	CFU/m3	M34	16/06/2019	
Total Yeast Count	<36	CFU/m3	M34	16/06/2019	

Desc. 1: 1 x MEA Plate # 1A **Sample Number:** 455414522
Desc. 2: Date: 11/06/2019 **Condition Rec'd:** NORMAL
Temp Rec'd (°C): 10.0
Date Started: 11/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	210	CFU/m3	M34	16/06/2019	
Total Yeast Count	<36	CFU/m3	M34	16/06/2019	

Desc. 1: 1 x MEA Plate # 4A **Sample Number:** 455414524
Desc. 2: Date: 11/06/2019 **Condition Rec'd:** NORMAL
Temp Rec'd (°C): 10.0
Date Started: 11/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	640	CFU/m3	M34	16/06/2019	
Total Yeast Count	36	CFU/m3	M34	16/06/2019	

Desc. 1: 1 x MEA Plate # 3A **Sample Number:** 455414527
Desc. 2: Date: 11/06/2019 **Condition Rec'd:** NORMAL
Temp Rec'd (°C): 10.0
Date Started: 11/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	540	CFU/m3	M34	16/06/2019	
Total Yeast Count	<36	CFU/m3	M34	16/06/2019	



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Analytical Results



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 Werribee, VIC 3030

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Analytical Results

Desc. 1: MEA Plate # 13A **Sample Number:** 455428790
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 22/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	54	CFU/m3	M34	22/06/2019	
Total Yeast Count	<18	CFU/m3	M34	22/06/2019	

Desc. 1: MEA Plate # 14A **Sample Number:** 455428792
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 22/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	520	CFU/m3	M34	22/06/2019	
Total Yeast Count	18	CFU/m3	M34	22/06/2019	

Desc. 1: TSA Plate # 13B **Sample Number:** 455428794
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 20/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	210	CFU/m3	M34	20/06/2019	

Desc. 1: TSA Plate # 14B **Sample Number:** 455428795
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 20/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	790	CFU/m3	M34	20/06/2019	



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Analytical Results

Desc. 1: MEA Plate # 15A **Sample Number:** 455428797
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 22/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	180	CFU/m3	M34	22/06/2019	
Total Yeast Count	<18	CFU/m3	M34	22/06/2019	

Desc. 1: MEA Plate # 16A **Sample Number:** 455428799
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 22/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	610	CFU/m3	M34	22/06/2019	
Total Yeast Count	<18	CFU/m3	M34	22/06/2019	

Desc. 1: TSA Plate # 15B **Sample Number:** 455428800
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 20/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	71	CFU/m3	M34	20/06/2019	

Desc. 1: TSA Plate # 16B **Sample Number:** 455428801
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 20/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	180	CFU/m3	M34	20/06/2019	



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Analytical Results

Desc. 1: MEA Plate # 17A **Sample Number:** 455428802
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 22/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	110	CFU/m3	M34	22/06/2019	
Total Yeast Count	<18	CFU/m3	M34	22/06/2019	

Desc. 1: MEA Plate # 18A **Sample Number:** 455428803
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 22/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	300	CFU/m3	M34	22/06/2019	
Total Yeast Count	<18	CFU/m3	M34	22/06/2019	

Desc. 1: TSA Plate # 17B **Sample Number:** 455428804
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 20/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	570	CFU/m3	M34	20/06/2019	

Desc. 1: TSA Plate # 18B **Sample Number:** 455428805
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 20/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	<36	CFU/m3	M34	20/06/2019	



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Analytical Results

Desc. 1: MEA Plate # 19A **Sample Number:** 455428812
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 22/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	180	CFU/m3	M34	22/06/2019	
Total Yeast Count	<18	CFU/m3	M34	22/06/2019	

Desc. 1: MEA Plate # 20A **Sample Number:** 455428814
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 22/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	210	CFU/m3	M34	22/06/2019	
Total Yeast Count	<18	CFU/m3	M34	22/06/2019	

Desc. 1: TSA Plate # 19B **Sample Number:** 455428815
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 20/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	360	CFU/m3	M34	20/06/2019	

Desc. 1: TSA Plate # 20B **Sample Number:** 455428816
Condition Rec'd: NORMAL
Temp Rec'd (°C): 17.5
Date Started: 20/06/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	<36	CFU/m3	M34	20/06/2019	



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Received Date:	18/07/2019
P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: 1x MEA plate # 21A **Sample Number:** 455495838
Condition Rec'd: NORMAL
Temp Rec'd (°C): 11.5
Date Started: 18/07/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	430	CFU/m3	M34	23/07/2019	
Total Yeast Count	36	CFU/m3	M34	23/07/2019	

Desc. 1: 1x MEA plate #22A **Sample Number:** 455495840
Condition Rec'd: NORMAL
Temp Rec'd (°C): 11.5
Date Started: 18/07/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	54	CFU/m3	M34	23/07/2019	
Total Yeast Count	<18	CFU/m3	M34	23/07/2019	

Desc. 1: 1x TSA plate #21B **Sample Number:** 455495863
Condition Rec'd: NORMAL
Temp Rec'd (°C): 11.5
Date Started: 18/07/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	110	CFU/m3	M34	22/07/2019	

Desc. 1: 1x TSA plate #22B **Sample Number:** 455495864
Condition Rec'd: NORMAL
Temp Rec'd (°C): 11.5
Date Started: 18/07/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	540	CFU/m3	M34	22/07/2019	



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MELBOURNE LABORATORY
20 King Street
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CERTIFICATE OF ANALYSIS

COA No:	MEL-51315838-0
Supersedes:	None
COA Date:	23/07/2019
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TO:

Yanel Lara
Amcosh Pty Ltd
3-4, 112 Synnot Street
Werribee, VIC 3030

Received From:	Werribee, VIC
Received Date:	18/07/2019
P.O.#:	8720
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Analytical Results



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TO:
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 Amcosh Pty Ltd
 3-4, 112 Synnot Street
 Werribee, VIC 3030

Received From:	Werribee, VIC
Received Date:	26/07/2019
P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: 1 x MEA Plate # 23A **Sample Number:** 455512942
Condition Rec'd: NORMAL
Temp Rec'd (°C): 12.7
Date Started: 31/07/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	340	CFU/m3	M34	31/07/2019	
Total Yeast Count	<18	CFU/m3	M34	31/07/2019	

Desc. 1: 1 x MEA Plate # 24A **Sample Number:** 455512944
Condition Rec'd: NORMAL
Temp Rec'd (°C): 12.7
Date Started: 31/07/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	130	CFU/m3	M34	31/07/2019	
Total Yeast Count	36	CFU/m3	M34	31/07/2019	

Desc. 1: 1 x TSA Plate # 23B **Sample Number:** 455512948
Condition Rec'd: NORMAL
Temp Rec'd (°C): 12.7
Date Started: 29/07/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	250	CFU/m3	M34	29/07/2019	

Desc. 1: 1 x TSA Plate # 24B **Sample Number:** 455512950
Condition Rec'd: NORMAL
Temp Rec'd (°C): 12.7
Date Started: 29/07/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	1600	CFU/m3	M34	29/07/2019	



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Location of Test: (except where noted) Blackburn, Vic	

Analytical Results



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P.O.#:	8720
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Analytical Results

Desc. 1: 1 x MEA Air Plate 25A **Sample Number:** 455521909
Condition Rec'd: NORMAL
Temp Rec'd (°C): 19.4
Date Started: 5/08/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	680	CFU/m3	M34	05/08/2019	
Total Yeast Count	<36	CFU/m3	M34	05/08/2019	

Desc. 1: MEA Air Plate 26A **Sample Number:** 455521911
Condition Rec'd: NORMAL
Temp Rec'd (°C): 19.4
Date Started: 5/08/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	250	CFU/m3	M34	05/08/2019	
Total Yeast Count	<36	CFU/m3	M34	05/08/2019	

Desc. 1: TSA Air Plate 25B **Sample Number:** 455521914
Condition Rec'd: NORMAL
Temp Rec'd (°C): 19.4
Date Started: 31/07/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	250	CFU/m3	M34	03/08/2019	

Desc. 1: TSA Air Plate 26B **Sample Number:** 455521915
Condition Rec'd: NORMAL
Temp Rec'd (°C): 19.4
Date Started: 31/07/2019

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	3600	CFU/m3	M34	03/08/2019	



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Analytical Results



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TO:
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 Werribee, VIC 3030

Received From:	Werribee, VIC
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P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: ^ MEA Plate # 27A **Sample Number:** 455556101
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.1
Date Started: 21/08/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	120	CFU/m3	M34	21/08/2019	
Total Yeast Count	<17	CFU/m3	M34	21/08/2019	

Desc. 1: ^ MEA Plate # 28A **Sample Number:** 455556103
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.1
Date Started: 21/08/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	310	CFU/m3	M34	21/08/2019	
Total Yeast Count	<17	CFU/m3	M34	21/08/2019	

Desc. 1: ^ TSA Plate # 27B **Sample Number:** 455556108
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.1
Date Started: 19/08/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	1600	CFU/m3	M34	19/08/2019	



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P.O.#:	8720
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Analytical Results

Desc. 1: ^ TSA Plate # 28B **Sample Number:** 455556109
Condition Rec'd: NORMAL
Temp Rec'd (°C): 15.1
Date Started: 19/08/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	380	CFU/m3	M34	19/08/2019	



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Received From:	Werribee, VIC
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P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: ^ 1x MEA plate # 29A **Sample Number:** 455570611
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.9
Date Started: 28/08/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	36	CFU/m3	M34	28/08/2019	
Total Yeast Count	<36	CFU/m3	M34	28/08/2019	

Desc. 1: ^ 1x MEA plate # 30A **Sample Number:** 455570612
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.9
Date Started: 28/08/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	71	CFU/m3	M34	28/08/2019	
Total Yeast Count	<36	CFU/m3	M34	28/08/2019	

Desc. 1: ^ 1x TSA plate # 29B **Sample Number:** 455570613
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.9
Date Started: 26/08/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	36	CFU/m3	M34	26/08/2019	



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Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: ^ 1x TSA plate # 30B **Sample Number:** 455570614
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.9
Date Started: 26/08/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	140	CFU/m3	M34	26/08/2019	



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 Werribee, VIC 3030

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Received Date:	20/09/2019
P.O.#:	20SEP2019
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: ^ 1x MEA plate # 31A **Sample Number:** 455630662
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.0
Date Started: 20/09/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	1000	CFU/m3	M34	25/09/2019	
Total Yeast Count	<36	CFU/m3	M34	25/09/2019	

Desc. 1: ^ 1x MEA plate # 32A **Sample Number:** 455630663
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.0
Date Started: 20/09/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	710	CFU/m3	M34	25/09/2019	
Total Yeast Count	<36	CFU/m3	M34	25/09/2019	

Desc. 1: ^ 1x TSA plate # 31B **Sample Number:** 455630664
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.0
Date Started: 20/09/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	1700	CFU/m3	M34	23/09/2019	



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Received From:	Werribee, VIC
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Analytical Results

Desc. 1: ^ 1x TSA plate # 32B **Sample Number:** 455630665
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.0
Date Started: 20/09/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	540	CFU/m3	M34	23/09/2019	

Desc. 1: ^ 1x MEA plate # 33A **Sample Number:** 455633969
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.0
Date Started: 23/09/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	860	CFU/m3	M34	25/09/2019	
Total Yeast Count	250	CFU/m3	M34	25/09/2019	

Desc. 1: ^ 1x MEA plate # 34A **Sample Number:** 455633971
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.0
Date Started: 23/09/2019
 Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	540	CFU/m3	M34	25/09/2019	
Total Yeast Count	140	CFU/m3	M34	25/09/2019	



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Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: ^ 1x TSA plate # 33B **Sample Number:** 455633977
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.0
Date Started: 23/09/2019
Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	1600	CFU/m3	M34	23/09/2019	

Desc. 1: ^ 1x TSA plate # 34B **Sample Number:** 455633978
Condition Rec'd: NORMAL
Temp Rec'd (°C): 14.0
Date Started: 23/09/2019
Results apply only to the sample as received

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	3200	CFU/m3	M34	23/09/2019	



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Brisbane Microbiology Site No: 15147
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COA No:	MEL-51362188-0
Supersedes:	None
COA Date:	20/11/2019
Page 1 of 5	

TO:
 Yanel Lara
 Amcosh Pty Ltd
 3-4, 112 Synnot Street
 Werribee, VIC 3030

Received From:	Werribee, VIC
Received Date:	15/11/2019
P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: ^	Air Plates - MEA	Sample Number:	455747714
Desc. 2: ^	35A	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	20/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	180	CFU/m3	M34	20/11/2019	
Total Yeast Count	<18	CFU/m3	M34	20/11/2019	

Desc. 1: ^	Air Plates - MEA	Sample Number:	455747715
Desc. 2: ^	36A	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	20/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	89	CFU/m3	M34	20/11/2019	
Total Yeast Count	<18	CFU/m3	M34	20/11/2019	

Desc. 1: ^	Air Plates - MEA	Sample Number:	455747716
Desc. 2: ^	37A	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	20/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	500	CFU/m3	M34	20/11/2019	
Total Yeast Count	<18	CFU/m3	M34	20/11/2019	



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TO:
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 Amcosh Pty Ltd
 3-4, 112 Synnot Street
 Werribee, VIC 3030

Received From:	Werribee, VIC
Received Date:	15/11/2019
P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: ^	Air Plates - MEA	Sample Number:	455747717
Desc. 2: ^	38A	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	20/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	160	CFU/m3	M34	20/11/2019	
Total Yeast Count	<18	CFU/m3	M34	20/11/2019	

Desc. 1: ^	Air Plates - MEA	Sample Number:	455747718
Desc. 2: ^	39A	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	20/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	390	CFU/m3	M34	20/11/2019	
Total Yeast Count	<18	CFU/m3	M34	20/11/2019	

Desc. 1: ^	Air Plates - MEA	Sample Number:	455747719
Desc. 2: ^	40A	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	20/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	89	CFU/m3	M34	20/11/2019	
Total Yeast Count	<18	CFU/m3	M34	20/11/2019	



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TO:
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 Amcosh Pty Ltd
 3-4, 112 Synnot Street
 Werribee, VIC 3030

Received From:	Werribee, VIC
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P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: ^	Air Plates - MEA	Sample Number:	455747720
Desc. 2: ^	41A	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	20/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	960	CFU/m3	M34	20/11/2019	
Total Yeast Count	<18	CFU/m3	M34	20/11/2019	

Desc. 1: ^	Air Plates - MEA	Sample Number:	455747721
Desc. 2: ^	42A	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	20/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Mould Count	520	CFU/m3	M34	20/11/2019	
Total Yeast Count	<18	CFU/m3	M34	20/11/2019	

Desc. 1: ^	Air Plates - TSA	Sample Number:	455747722
Desc. 2: ^	35B	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	18/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	610	CFU/m3	M34	18/11/2019	



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TO:
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 Werribee, VIC 3030

Received From:	Werribee, VIC
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P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: ^	Air Plates - TSA	Sample Number:	455747723
Desc. 2: ^	36B	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	18/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	890	CFU/m3	M34	18/11/2019	

Desc. 1: ^	Air Plates - TSA	Sample Number:	455747724
Desc. 2: ^	37B	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	18/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	110	CFU/m3	M34	18/11/2019	

Desc. 1: ^	Air Plates - TSA	Sample Number:	455747725
Desc. 2: ^	38B	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	18/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	930	CFU/m3	M34	18/11/2019	

Desc. 1: ^	Air Plates - TSA	Sample Number:	455747726
Desc. 2: ^	39B	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	18/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	250	CFU/m3	M34	18/11/2019	



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TO:

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 Amcosh Pty Ltd
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Received From:	Werribee, VIC
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P.O.#:	8720
Location of Test: (except where noted) Blackburn, Vic	

Analytical Results

Desc. 1: ^	Air Plates - TSA	Sample Number:	455747727
Desc. 2: ^	40B	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	18/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	890	CFU/m3	M34	18/11/2019	

Desc. 1: ^	Air Plates - TSA	Sample Number:	455747728
Desc. 2: ^	41B	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	18/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	290	CFU/m3	M34	18/11/2019	

Desc. 1: ^	Air Plates - TSA	Sample Number:	455747729
Desc. 2: ^	42B	Condition Rec'd:	NORMAL
		Temp Rec'd (°C):	10.9
		Date Started:	18/11/2019
Results apply only to the sample as received			

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method Reference</u>	<u>Result Date</u>	<u>Loc.</u>
Total Bacterial Count	360	CFU/m3	M34	18/11/2019	



SELINA BEGUM
 MICROBIOLOGY LABORATORY MANAGER



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